



POOL TECHNOLOGY

# EXPORT CATALOGUE

## 2024/2025



GEMAS was established on 23.09.1993 by the initiative of Mr. İBRAHİM ÜSTÜNES who is currently the general manager of the company. In our region, GEMAS is a leader manufacturing company; having 1500 m<sup>2</sup> office, 20000 m<sup>2</sup> indoor production facility + warehouse and over 400 employees. The company has a continuous tendency of growth by means of the deep experience of engineering and manufacturing in the swimming pool sector.

GEMAS has a very wide range of products, manufactured under ISO 9001-2000 quality management system approved by TUV Sud; namely:

Roto-Molded, Injected and Blow Molded Thermoplastic, Bobbin Wound and FRP Sand Filters, Multiport Valves, Self-priming Pumps, Skimmers, Underwater Lights, Transformers, Inlets, Main Drains, Ladders, Diving Boards, Overflow Gratings, Automatic pH and Redox Controllers, Salt Chlorinators, Cleaners and Cleaning Accessories, UPVC Fittings and Valves, Olympic Pool Accessories, Heaters and Fountain Nozzles.

GEMAS Group has structured GEMPAS Pazarlama Lojistik A.S. company, based in Izmir, appointed to run all sales, marketing and distribution activities of the group national and international. GEMPAS operates with 3000 sqm central warehouse in ITOB, same industrial zone with GEMAS factory, 3 sales shops around Turkey and 2 international subsidiaries Bulgaria and Dubai.

Group also includes another production company STAR Water Technology. Star is dedicated to produce high quality PVC pressure fittings and valves with FITVALF brand.

GEMAS Group with its production and distribution companies; are ready to provide high quality swimming pool products with competitive prices and very high customer satisfaction.





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# **WE HAVE EXPANDED OUR IZMIR FACTORY!...**

## **We are at your service with our new sales organization...**

We have optimised our production by increasing capacity at our Izmir Factory with 20000 m<sup>2</sup> production area and 1500 m<sup>2</sup> office area on 15 acres of land.

Our factory is located in ITOB Organized Industrial Zone between Menderes and Torbalı in İzmir. Our new sales organization "GEMPAS PAZARLAMA" started its operations in Izmir ITOB with a 3000 m<sup>2</sup> main warehouse.

All our domestic branches and international subsidiaries operate within the new sales organization with a total of 3500 m<sup>2</sup> closed warehouse space.



Production Video



Istanbul Head Office







İzmir Factory



Gempas Pazarlama - İzmir Center



İstanbul Warehouse



Bodrum Branch Office



Antalya Branch Office



Gemas MEA, Dubai





/GemasPoolTechnology



/GemasGenel



/GemasHavuz



/Gemas\_Havuz



/Gemas-Pool-Technology

## **GEMPAS PAZARLAMA LOJISTIK TICARET A.S. BANK ACCOUNT**

- HALKBANK IBAN No:

TR29 0001 2009 7290 0058 0001 94 (€)

TR21 0001 2009 7290 0053 0001 82 (\$)

SWIFT CODE: TRHBTR2AXXX

- GARANTI BANK IBAN No:

TR73 0006 2000 4480 0009 0719 05 (€)

TR03 0006 2000 4480 0009 0719 04 (\$)

SWIFT CODE: TGBATRISXXX



New Products

PROFIT  
POSITION  
OF  
THE  
FUTURE  
OF  
THE  
FUTURE





## GEMAS "Seljuk" BL

High Rate Sand Filter  
• Ø900 mm w/2" Multiport Valve



31

## GEMAS "Monocon L-LH"

48

Pool Sand Filters • Ø500 • Ø630 • Ø710 mm  
(Ø500 & Ø710 mm in 2025)



## 3" Multiport Valve (in 2025)

72

## Automatic Multiport Valve

73

1½" & 2" in 2025  
w/Optional Wifi Control



## Disabled Lift Rechargeable

90

## Twister

123

U/W LED Light





Analogue Control



Digital pH Control



Digital ORP Control

## Dosing Pumps (in 2025) 167

GEMAS Selenoid Dosing Pumps



## GEMAS Calcex Cell 197



## GEMAS "Heavy-Duty Flex" Pool Cleaners 219

w/or w/o Brush



## GEMAS Heatrone 233-234

Heatrone PRO - Heatrone PRO - Ti / 316  
Heatrone - Heatrone - Ti / 316



## GEMAS Heatrone MINI 233-234

Heatrone MINI PRO - Heatrone MINI PRO Ti / 316  
Heatrone MINI - Heatrone MINI Ti / 316



## Ball Valves

d.25 - d.32 - d.40 UPVC Ball Valves

260



Ø50 mm



Ø63 mm

## UPVC Automatic Ball w/Actuator Valves

Ø50 - Ø63 mm with optional wifi control

261



## UPVC Three Way Valve Ø63 mm

Wide demper opening distance  
Demper closure with spring

262



## Butterfly Valves

Ø200 - Ø225 mm Butterfly Valve  
Ø75 - Ø90 mm Butterfly Valve (in 2025)

262



## UPVC Swing Type Check Valve Ø63 mm

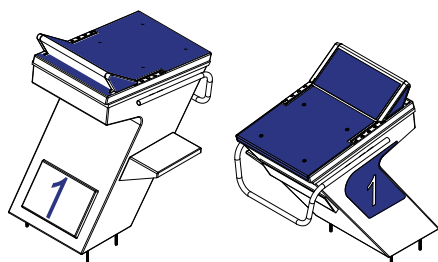
Transparent top lid for open view  
UPVC Body Ø63 mm socket connection

263



## UPVC Fittings

266



## Track-Start Platform

Height: 700 mm

279



## Spa & Sauna Equipments

SPAs with/Different dimensional 11 models



303

308



# POOL CARE



01 Pumps

12



02 Sand Filters

32



## Self-priming Pool Pumps

2850 rpm

### GEMAS "DRIFTER"

Self-priming, thermoplastic body pump with monoblock pre-filter.

Connections are with slip unions (Ø50 or Ø63) or female

threaded (2"). **Pump shaft is stainless steel.**

Easy opening lid with 40° rotation. Transparent "Xylex" cover option for high chemical resistance against cracks.

3 l pre-filter basket much larger than its equivalents.

**Co-axial pump connections offer convenience for replacing various pumps from different brands available in the market.**



2" Female connection



Ø50 or Ø63 Slip connection self coupling

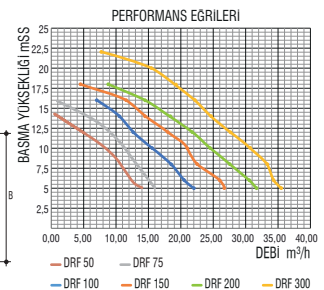
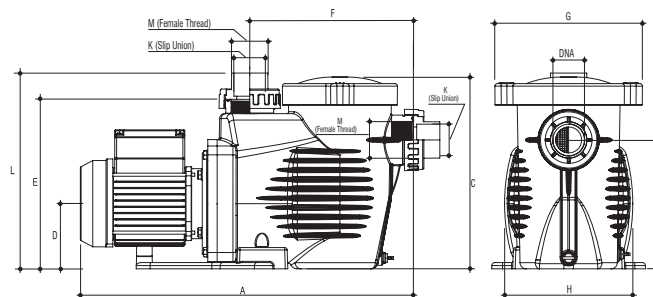


Wide and clear view on pre-filter lid



Stainless steel motor shaft

| Description                  | Code               | Pieces/box | Weight Kg | Volume m³ |
|------------------------------|--------------------|------------|-----------|-----------|
| • DRF-50M 0,5 HP, Monophase  | <b>0111DRF50M</b>  | 1          | 12,195    | 0,038     |
| • DRF-80M 0,75 HP, Monophase | <b>0111DRF75M</b>  | 1          | 13,081    | 0,038     |
| • DRF-80T 0,75 HP, Triphase  | <b>0111DRF75T</b>  | 1          | 12,485    | 0,038     |
| • DRF-100M 1 HP, Monophase   | <b>0111DRF100M</b> | 1          | 13,765    | 0,038     |
| • DRF-100T 1 HP, Triphase    | <b>0111DRF100T</b> | 1          | 13,100    | 0,038     |
| • DRF-150M 1,5 HP, Monophase | <b>0111DRF150M</b> | 1          | 16,680    | 0,038     |
| • DRF-150T 1,5 HP, Triphase  | <b>0111DRF150T</b> | 1          | 15,460    | 0,038     |
| • DRF-200M 2,0 HP, Monophase | <b>0111DRF200M</b> | 1          | 18,530    | 0,038     |
| • DRF-200T 2,0 HP, Triphase  | <b>0111DRF200T</b> | 1          | 16,760    | 0,038     |
| • DRF-300M 3,0 HP, Monophase | <b>0111DRF300M</b> | 1          | 18,530    | 0,038     |
| • DRF-300T 3,0 HP, Triphase  | <b>0111DRF300T</b> | 1          | 16,760    | 0,038     |



| PUMP TYPE  | HP   | CONDENSER (µF) | AMPERES |       |       | HEAD mwh |       |       |       |       |       |       |       |       |      |  |  |
|------------|------|----------------|---------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|--|
|            |      |                | II      |       |       |          |       |       |       |       |       |       |       |       |      |  |  |
|            |      |                | 220 V   | 220 V | 380 V | 5        | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    | 22   |  |  |
| DRF-50M    | 0,50 | 14             | 2,60    | -     | -     | 14,00    | 12,00 | 10,00 | 8,00  | 5,00  | 1,00  | -     | -     | -     | -    |  |  |
| DRF-80T/M  | 0,75 | 14             | 3,50    | 2,60  | 1,45  | 16,00    | 15,00 | 13,00 | 11,00 | 9,00  | 6,00  | 1,00  | -     | 1,00  | -    |  |  |
| DRF-100T/M | 1    | 20             | 4,60    | 3,30  | 1,90  | 22,00    | 20,33 | 18,30 | 15,80 | 13,33 | 10,44 | 6,95  | -     | -     | -    |  |  |
| DRF-150T/M | 1,5  | 25             | 6,40    | 4,70  | 2,70  | 27,26    | 26,00 | 23,50 | 21,00 | 18,00 | 14,73 | 11,39 | 4,22  | -     | -    |  |  |
| DRF-200T/M | 2    | 30             | 8,70    | 6,00  | 3,50  | 31,48    | 30,13 | 27,57 | 24,60 | 21,76 | 18,08 | 14,40 | 8,89  | -     | -    |  |  |
| DRF-300T/M | 3    | 30             | 12,30   | 6,00  | 3,50  | 36,35    | 35,61 | 33,34 | 30,73 | 28,40 | 25,20 | 22,06 | 18,62 | 15,09 | 7,73 |  |  |

| PUMP TYPE  | DIMENSIONS |     |    |     |     |     |     |     |     |     |     |     | Net Weight (Kg) |        | Gross Weight (Kg) |        |
|------------|------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|--------|-------------------|--------|
|            | K          | K   | M  | A   | B   | C   | D   | E   | F   | G   | H   | L   | Mo.             | Tri.   | Mo.               | Tri.   |
| DRF-50M    | Ø50        | Ø50 | 2" | 550 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 11,245          | -      | 12,195            | -      |
| DRF-80T/M  | Ø50        | Ø50 | 2" | 550 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 12,331          | 11,535 | 13,081            | 12,485 |
| DRF-100T/M | Ø50        | Ø50 | 2" | 550 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 12,815          | 12,151 | 13,765            | 13,100 |
| DRF-150T/M | Ø63        | Ø63 | 2" | 580 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 15,729          | 14,509 | 16,680            | 15,460 |
| DRF-200T/M | Ø63        | Ø63 | 2" | 580 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 17,579          | 15,811 | 18,530            | 16,760 |
| DRF-300T/M | Ø63        | Ø63 | 2" | 580 | 206 | 307 | 105 | 271 | 262 | 236 | 205 | 313 | 17,579          | 15,811 | 18,530            | 16,760 |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | DRF-50M       | DRF-80T/M   | DRF-100T/M    | DRF-150T/M    | DRF-200T/M  | DRF-300T/M  |
|----------------|---------------|-------------|---------------|---------------|-------------|-------------|
| SUCTION PIPE Ø | 1,5" (Ø50 mm) | 2" (Ø63 mm) | 2,5" (Ø75 mm) | 2,5" (Ø75 mm) | 3" (Ø90 mm) | 3" (Ø90 mm) |

**PS:** It is recommended to use a conical reducer at the suction line of the pump.

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.

2850 rpm

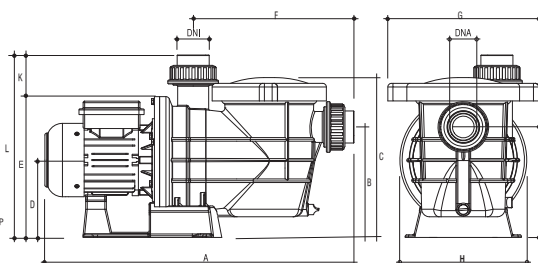
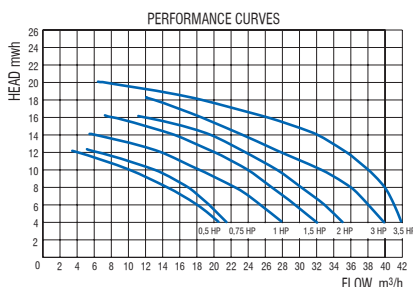
## Self-priming Pool Pumps

**GEMAS "STREAMER 2010"** Self-priming, thermoplastic body Monoblock Pool Pump; complete with pre-filter.

Models of 1 HP and below - suction Ø is 1,5" and discharge Ø is 2". Models of 1,5 HP and above - both suction and discharge Ø are 2". Connection unions are compatible with Fitvalf d50 ball valve handle. Easy opening lid with 40° rotation. Optional "Xylex" lid for enhanced chemical resistance. Large pre-filter basket. 2850 rpm - IP55 motor. Pump shaft is stainless steel.



| Description                   | Code                | Pieces/box | Weight Kg | Volume m³ |
|-------------------------------|---------------------|------------|-----------|-----------|
| • STRN-50M 0,5 HP, Monophase  | <b>0111STRN50M</b>  | 1          | 11,514    | 0,051     |
| • STRN-80M 0,75 HP, Monophase | <b>0111STRN75M</b>  | 1          | 12,484    | 0,051     |
| • STRN-80T 0,75 HP, Triphase  | <b>0111STRN75T</b>  | 1          | 11,750    | 0,051     |
| • STRN-100M 1 HP, Monophase   | <b>0111STRN100M</b> | 1          | 13,609    | 0,051     |
| • STRN-100T 1 HP, Triphase    | <b>0111STRN100T</b> | 1          | 12,244    | 0,051     |
| • STRN-150M 1,5 HP, Monophase | <b>0111STRN150M</b> | 1          | 16,344    | 0,051     |
| • STRN-150T 1,5 HP, Triphase  | <b>0111STRN150T</b> | 1          | 15,669    | 0,051     |
| • STRN-200M 2,0 HP, Monophase | <b>0111STRN200M</b> | 1          | 18,404    | 0,051     |
| • STRN-200T 2,0 HP, Triphase  | <b>0111STRN200T</b> | 1          | 17,534    | 0,051     |
| • STRN-300M 3,0 HP, Monophase | <b>0111STRN300M</b> | 1          | 18,404    | 0,051     |
| • STRN-300T 3,0 HP, Triphase  | <b>0111STRN300T</b> | 1          | 17,534    | 0,051     |
| • STRN-350M 3,5 HP, Monophase | <b>0111STRN350M</b> | 1          | 21,704    | 0,054     |
| • STRN-350T 3,5 HP, Triphase  | <b>0111STRN350T</b> | 1          | 20,384    | 0,054     |



| PUMP TYPE   | HP   | CONDENSER (µF) | AMPERES  |           |       | HEAD mwh |       |       |       |       |       |       |       |      |  |
|-------------|------|----------------|----------|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|------|--|
|             |      |                | II 220 V | III 220 V | 380 V |          |       |       |       |       |       |       |       |      |  |
|             |      |                |          |           |       | 4        | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20   |  |
| STRN-50T/M  | 0,50 | 14             | 2,60     | -         | -     | 20,50    | 18,00 | 14,30 | 10,00 | 4,00  | -     | -     | -     | -    |  |
| STRN-80T/M  | 0,75 | 14             | 3,50     | 2,50      | 1,45  | 21,70    | 19,50 | 17,00 | 13,00 | 6,00  | -     | -     | -     | -    |  |
| STRN-100T/M | 1    | 20             | 4,60     | 3,30      | 1,90  | 28,00    | 25,70 | 22,50 | 18,00 | 13,90 | 6,00  | -     | -     | -    |  |
| STRN-150T/M | 1,5  | 25             | 6,40     | 4,70      | 2,70  | 32,00    | 29,70 | 26,50 | 24,00 | 20,00 | 15,50 | 8,00  | -     | -    |  |
| STRN-200T/M | 2    | 30             | 8,70     | 6,00      | 3,50  | 35,00    | 33,00 | 30,00 | 27,50 | 23,80 | 19,50 | 12,00 | -     | -    |  |
| STRN-300T/M | 3    | 30             | 8,70     | 6,00      | 3,50  | 40,00    | 38,00 | 36,00 | 32,40 | 27,60 | 23,20 | 18,50 | 13,00 | -    |  |
| STRN-350T/M | 3,5  | 65             | 12,30    | 7,65      | 4,40  | 42,00    | 41,00 | 40,00 | 38,00 | 35,50 | 32,00 | 26,40 | 18,50 | 7,10 |  |

| PUMP TYPE   | DIMENSIONS |      |     |    |     |     |     |     |     |     |     |     |        | Net Weight (Kg) |        | Gross Weight (Kg) |      |
|-------------|------------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------|--------|-------------------|------|
|             | DNA        | DNI  | A   | K  | B   | C   | D   | E   | F   | G   | H   | L   |        | Mo.             | Tri.   | Mo.               | Tri. |
| STRN-50T/M  | 1,5"       | 1,5" | 610 | 80 | 215 | 310 | 160 | 275 | 320 | 292 | 245 | 355 | 10,290 | -               | 11,514 | -                 | -    |
| STRN-80T/M  | 2"         | 1,5" | 610 | 80 | 215 | 310 | 145 | 275 | 320 | 292 | 245 | 355 | 11,234 | -               | 12,484 | -                 | -    |
| STRN-100T/M | 2"         | 1,5" | 610 | 80 | 215 | 310 | 145 | 275 | 320 | 292 | 245 | 355 | 12,360 | 11,000          | 13,609 | 12,244            | -    |
| STRN-150T/M | 2"         | 2"   | 630 | 80 | 215 | 310 | 160 | 275 | 320 | 292 | 245 | 355 | 15,095 | 14,420          | 16,344 | 15,669            | -    |
| STRN-200T/M | 2"         | 2"   | 630 | 80 | 215 | 310 | 145 | 275 | 320 | 292 | 245 | 355 | 17,150 | 16,280          | 18,404 | 17,534            | -    |
| STRN-300T/M | 2"         | 2"   | 630 | 80 | 215 | 310 | 145 | 275 | 320 | 292 | 245 | 355 | 17,150 | 16,280          | 18,404 | 17,534            | -    |
| STRN-350T/M | 2"         | 2"   | 670 | 80 | 215 | 310 | 145 | 275 | 320 | 292 | 245 | 355 | 20,450 | 19,130          | 21,704 | 20,384            | -    |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | STRN-50T/M    | STRN-80T/M  | STRN-100T/M   | STRN-150T/M   | STRN-200T/M | STRN-300T/M | STRN-350T/M  |
|----------------|---------------|-------------|---------------|---------------|-------------|-------------|--------------|
| SUCTION PIPE Ø | 1,5" (Ø50 mm) | 2" (Ø63 mm) | 2,5" (Ø75 mm) | 2,5" (Ø75 mm) | 3" (Ø90 mm) | 3" (Ø90 mm) | 4" (Ø110 mm) |

**PS:** It is recommended to use a conical reducer at the suction line of the pump.

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.



Easy access lid


Wide and clear view on pre-filter lid  
Made of polycarbonate

Coupling compatible with  
d50 Fitvalf ball valve handle


Large volume basket



Stainless steel motor shaft



## Self-priming Pool Pumps

2850 rpm

### GEMAS "STREAMER MINI"

Self-priming, thermoplastic body Monoblock Pool Pump; complete with pre-filter. **Pump shaft in stainless steel.**

Suction & Discharge 1,5". 2850 rpm - IP55 Motor.

Easy opening lid with 40° rotation. "Xylex" lid option for resistance against aggressive chemicals.



Easy access lid



Self coupling



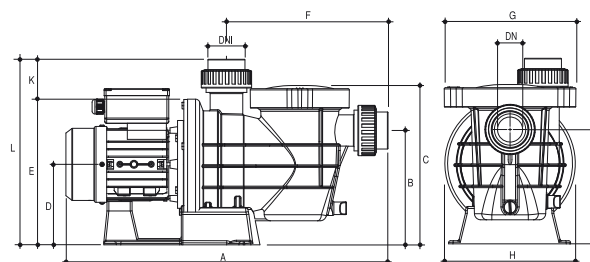
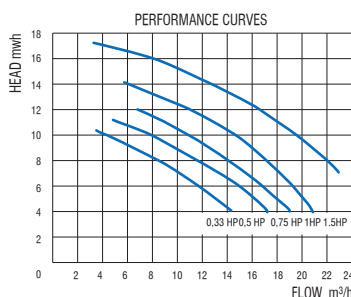
Noryl impeller



Stainless steel motor shaft



| Description                   | Code                | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------------------|------------|-----------|-----------------------|
| • STRM-33M 0,33 HP, Monophase | <b>0111STRM33M</b>  | 1          | 10,980    | 0,037                 |
| • STRM-50M 0,5 HP, Monophase  | <b>0111STRM50M</b>  | 1          | 11,140    | 0,037                 |
| • STRM-80M 0,75 HP, Monophase | <b>0111STRM80M</b>  | 1          | 13,200    | 0,037                 |
| • STRM-80T 0,75 HP, Triphase  | <b>0111STRM80T</b>  | 1          | 13,000    | 0,037                 |
| • STRM-100M 1 HP, Monophase   | <b>0111STRM100M</b> | 1          | 12,800    | 0,037                 |
| • STRM-100T 1 HP, Triphase    | <b>0111STRM100T</b> | 1          | 11,620    | 0,037                 |
| • STRM-150M 1,5 HP, Monophase | <b>0111STRM150M</b> | 1          | 12,800    | 0,037                 |
| • STRM-150T 1,5 HP, Triphase  | <b>0111STRM150T</b> | 1          | 11,620    | 0,037                 |



| PUMP TYPE    | HP   | CONDENSER (μF) | AMPERES |      |       | HEAD mwh |       |       |       |       |       |       |       |    |
|--------------|------|----------------|---------|------|-------|----------|-------|-------|-------|-------|-------|-------|-------|----|
|              |      |                | 220 V   |      |       |          |       |       |       |       |       |       |       |    |
|              |      |                | II      | III  | 380 V | 4        | 6     | 8     | 10    | 11    | 12    | 14    | 16    | 17 |
| STRM-0.33M   | 0.33 | 12,50          | 2,70    | -    | -     | 14,10    | 11,60 | 8,30  | 4,00  | -     | -     | -     | -     | -  |
| STRM-0.50M   | 0.50 | 14,00          | 2,60    | -    | -     | 17,20    | 14,90 | 11,40 | 7,90  | 4,80  | -     | -     | -     | -  |
| STRM-0.80T/M | 0.75 | 14,00          | 3,50    | 2,50 | 1,45  | 18,90    | 16,70 | 13,50 | 10,80 | 9,00  | 6,80  | -     | -     | -  |
| STRM-1.00T/M | 1,00 | 14,00          | 3,50    | 2,50 | 1,45  | 20,80    | 19,30 | 17,10 | 14,90 | 13,20 | 10,50 | 6,00  | -     | -  |
| STRM-1.50T/M | 1,50 | 20,00          | 4,60    | 3,30 | 1,90  | 26,00    | 24,80 | 22,00 | 19,50 | 18,00 | 16,50 | 12,50 | 15,00 | -  |

| PUMP TYPE    | DIMENSIONS |      |     |    |     |     |     |     |     |     |     |     |  | Net Weight (Kg) |        | Gross Weight (Kg) |        |
|--------------|------------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----------------|--------|-------------------|--------|
|              | DNA        | DNI  | A   | K  | B   | C   | D   | E   | F   | G   | H   | L   |  | Mo.             | Tri.   | Mo.               | Tri.   |
| STRM-0.33M   | 1,5"       | 1,5" | 510 | 70 | 175 | 265 | 140 | 240 | 255 | 210 | 210 | 315 |  | 9,980           | -      | 10,980            | -      |
| STRM-0.50M   | 1,5"       | 1,5" | 540 | 70 | 175 | 265 | 140 | 240 | 255 | 210 | 210 | 315 |  | 10,140          | -      | 11,140            | -      |
| STRM-0.80T/M | 1,5"       | 1,5" | 540 | 70 | 175 | 265 | 140 | 240 | 255 | 210 | 210 | 315 |  | 12,200          | -      | 13,200            | 13,000 |
| STRM-1.00T/M | 1,5"       | 1,5" | 540 | 70 | 175 | 265 | 140 | 240 | 255 | 210 | 210 | 315 |  | 11,800          | 10,620 | 12,800            | 11,620 |
| STRM-1.50T/M | 1,5"       | 1,5" | 540 | 70 | 175 | 265 | 140 | 240 | 255 | 210 | 210 | 315 |  | 11,800          | 10,620 | 12,800            | 11,620 |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | STRM-33M      | STRM-50M      | STRM-80T/M  | STRM-100T/M | STRM-150T/M   |
|----------------|---------------|---------------|-------------|-------------|---------------|
| SUCTION PIPE Ø | 1,5" (Ø50 mm) | 1,5" (Ø50 mm) | 2" (Ø63 mm) | 2" (Ø63 mm) | 2,5" (Ø75 mm) |

**PS:** It is recommended to use a conical reducer at the suction line of the pump.

## Self-priming - Variable Speed Pumps

**GEMAS "RANGER"** Self-priming, thermoplastic body pump with monoblock pre-filter. Connections are with unions; 1,5 HP model - suction Ø is 1,5" and discharge Ø is 2". 3 HP Model - both suction and discharge Ø are 2". **Pump shaft is stainless steel.** Easy opening lid with 40° rotation. "Transparent **Xylex**" cover option for high chemical resistance against cracks. 4,5 l pre-filter basket much larger than its equivalents. Pump connection fittings can be tightened and opened with 50 mm Fitvalf ball valve handle.

**Three cycles**, allowing to choose between 1400-2850 cycles.

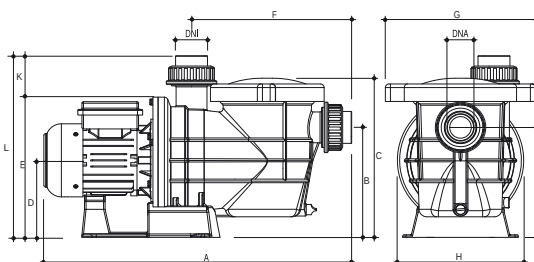
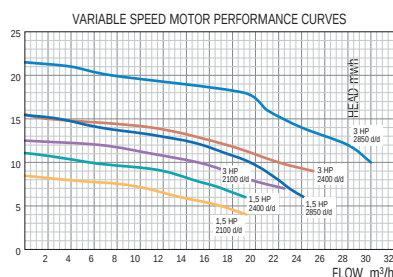
Factory settings: 1st cycle - 2100 rpm, 2nd cycle - 2400 rpm, 3rd cycle - 2850 rpm. **Permanent Magnet - IP55 motor.** Cable connection is available for speed control from the external panel. Motors are single-phase input. It has soft start and stop features.

"Saving Energy"

2100/2400/2850 rpm



| Description                | Code              | Pieces/box | Weight Kg | Volume m³ |
|----------------------------|-------------------|------------|-----------|-----------|
| •RN-150M 1,5 HP, Monophase | <b>0111RN150M</b> | 1          | 14,000    | 0,051     |
| •RN-300M 3,0 HP, Monophase | <b>0111RN300M</b> | 1          | 19,050    | 0,051     |



Speed controlled



Easy access lid



Wide and clear view on pre-filter lid  
Made of polycarbonate

| PUMP TYPE      |     | HEAD mwh         |       |       |       |       |       |       |       |       |       |      |      |      |    |      |
|----------------|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|----|------|
|                |     | 4                | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14   | 15   | 16   | 17 | 17,5 |
| <b>RN-150M</b> | 1,5 | FLOW m³/h        |       |       |       |       |       |       |       |       |       |      |      |      |    |      |
| 2100 rpm       |     | 18,25            | 15,85 | 13,35 | 10,11 | 3,43  | -     | -     | -     | -     | -     | -    | -    | -    | -  | -    |
| 2400 rpm       |     | -                | -     | 19,06 | 17,05 | 14,40 | 11,88 | 5,55  | -     | -     | -     | -    | -    | -    | -  | -    |
| 2850 rpm       |     | -                | -     | 24,15 | 23,30 | 22,00 | 20,90 | 19,50 | 17,37 | 15,30 | 11,50 | 6,40 | 2,40 | -    | -  | -    |
|                |     | AMPERES II 220 V |       |       |       |       |       |       |       |       |       |      |      |      |    |      |
| 2100 rpm       |     | 2,50             | 2,40  | 2,20  | 2,20  | 1,60  | 1,30  | -     | -     | -     | -     | -    | -    | -    | -  | -    |
| 2400 rpm       |     | -                | -     | 3,50  | 3,50  | 3,40  | 3,00  | 2,40  | 1,70  | -     | -     | -    | -    | -    | -  | -    |
| 2850 rpm       |     | -                | -     | 6,00  | 5,90  | 5,90  | 5,80  | 5,90  | 5,60  | 5,40  | 4,90  | 4,10 | 3,30 | 2,90 | -  | -    |

| PUMP TYPE      |     | HEAD mwh         |       |       |       |       |       |       |      |      |       |       |      |      |
|----------------|-----|------------------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|------|
|                |     | 7                | 8     | 9     | 10    | 11    | 12    | 14    | 15   | 15,5 | 16    | 18    | 20   | 21,5 |
| <b>RN-300M</b> | 3,0 | FLOW m³/h        |       |       |       |       |       |       |      |      |       |       |      |      |
| 2100 rpm       |     | 22,50            | 19,50 | 17,50 | 15,00 | 11,00 | 6,50  | -     | -    | -    | -     | -     | -    | -    |
| 2400 rpm       |     | -                | -     | 25,00 | 22,00 | 19,00 | 17,50 | 11,00 | 2,00 | -    | -     | -     | -    | -    |
| 2850 rpm       |     | -                | -     | -     | 30,00 | 28,50 | 28,00 | 24,00 | -    | -    | 21,00 | 19,00 | 7,50 | 4,00 |
|                |     | AMPERES II 220 V |       |       |       |       |       |       |      |      |       |       |      |      |
| 2100 rpm       |     | 7,00             | 6,70  | 6,50  | 5,90  | 5,20  | 4,40  | -     | -    | -    | -     | -     | -    | -    |
| 2400 rpm       |     | -                | -     | 10,30 | 9,30  | -     | 8,50  | 7,00  | 5,30 | 5,00 | -     | -     | -    | -    |
| 2850 rpm       |     | -                | -     | -     | 14,60 | -     | 14,60 | 14,60 | -    | -    | 14,60 | 13,20 | 9,90 | 8,40 |

| PUMP TYPE      | DIMENSIONS |      |     |    |     |     |     |     |     |     |     |     | Net Weight (Kg) | Gross Weight (Kg) |
|----------------|------------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------------|
|                | DNA        | DNI  | A   | K  | B   | C   | D   | E   | F   | G   | H   | L   | Monophase       | Monophase         |
| <b>RN-150M</b> | 2"         | 1,5" | 615 | 80 | 215 | 310 | 160 | 275 | 320 | 292 | 245 | 355 | 11,650          | 14,000            |
| <b>RN-300M</b> | 2"         | 2"   | 730 | 80 | 205 | 310 | 160 | 275 | 320 | 292 | 245 | 355 | 17,400          | 19,050            |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | RN-150M       | RN-300M     |
|----------------|---------------|-------------|
| SUCTION PIPE Ø | 2,5" (Ø75 mm) | 3" (Ø90 mm) |

**PS:** It is recommended to use a conical minimize at the suction line of the pump.

Example: A 3 HP pump running at 2000 rpm saves approximately €50 per month.



Coupling compatible with  
d50 Fitvalf ball valve handle



Stainless steel motor shaft

## ISAVER - Pool Pump Frequency Inverter

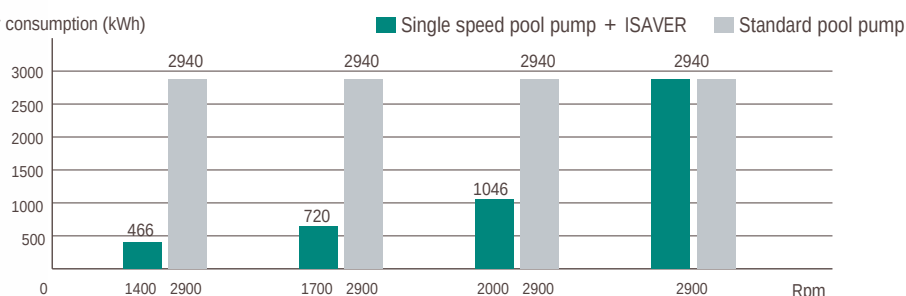
*"New Inverter Technology"*



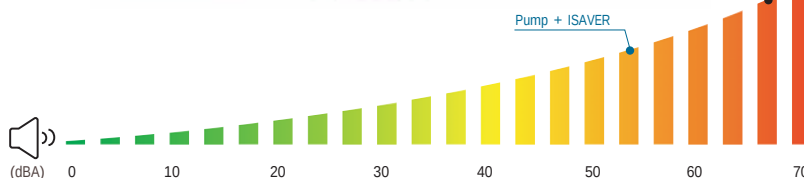
**GEMAS "ISAVER"** is the first "Touch Screen" frequency-inverter manufactured in the pool industry. By adjusting the running speed of the pool pump, it provides significant energy savings and operates silently. Additionally, it allows for automatic operation adjustment with different cycles within four time intervals throughout the day. The screen displays power consumption values corresponding to the set revolutions. It also offers the ability to adjust the speed during operation. Different models of the device are available for three-phase and single-phase motors (refer to the table for details). Max. capacity is 2,2 kW. The device includes dry contacts for various types of external controls. **PROVIDES SUBSTANTIAL ENERGY SAVINGS.**

| Description    | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|-------------|-----------|-----------------------|
| • ISAVER 1100  | 0111INV1100  | 1           |           |                       |
| • ISAVER 1100C | 0111INV1100C | 1           |           |                       |
| • ISAVER 2200  | 0111INV2200  | 1           |           |                       |
| • ISAVER 2200C | 0111INV2200C | 1           |           |                       |

Power consumption (kWh)



ISAVER Comparison Chart



### TECHNICAL SPECIFICATIONS

| MODEL           | ISAVER 1100     | ISAVER 2200    | ISAVER 1100C  | ISAVER 2200C  |
|-----------------|-----------------|----------------|---------------|---------------|
| Operating Temp. | -10 ~ 40°C      | -10 ~ 40°C     | -10 ~ 40°C    | -10 ~ 40°C    |
| Input Power     | 1ph AC          | 1ph AC         | 1ph AC        | 1ph AC        |
| Input Voltage   | 220V ~ 240V     | 220V ~ 240V    | 220V ~ 240V   | 220V ~ 240V   |
| Frequency       | 50 Hz           | 50 Hz          | 50 Hz         | 50 Hz         |
| Output Voltage  | Mono, 0 ~ 240V  | Mono, 0 ~ 240V | Tri, 0 ~ 240V | Tri, 0 ~ 240V |
| Output Power    | Max 1.1kW       | Max 2.2kW      | Max 1.1kW     | Max 2.2kW     |
| Output Current  | Max 6A          | Max 12A        | Max 4.5A      | Max 8A        |
| Pump Type       | Monophase       | Monophase      | Triphase      | Triphase      |
| Speed Range     | 1200 ~ 2900 rpm |                |               |               |



## Self-priming Pumps

2850 rpm

### GEMAS "PUMPEX 2010"

Self-priming, thermoplastic body monoblock pool pump, complete with a pre-filter. Suction size is 1,5", and discharge size is 2", both suction and discharge sizes are 2" on larger models. The connections are made with unions. The pump has an easy-opening lid with a 40° rotation. An optional "Xylex" lid is available for protection against aggressive chemicals. Larger basket. 2850 rpm - IP55 Motor. **The pump shaft is made of stainless steel.**



Wide and clear view on pre-filter lid  
Made of polycarbonate



Large volume basket

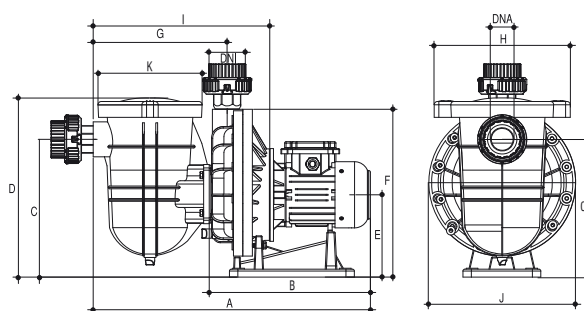
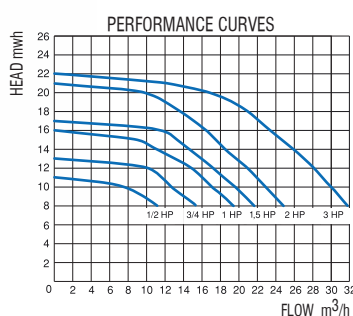


Stainless steel motor shaft



Noryl impeller

| Description                    | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|-------------------|------------|-----------|-----------------------|
| •PUMPEX-50M 0,50 HP, Monophase | <b>0111PX50M</b>  | 1          | 18,120    | 0,096                 |
| •PUMPEX-75M 0,75 HP, Monophase | <b>0111PX75M</b>  | 1          | 20,320    | 0,096                 |
| •PUMPEX-75T 0,75 HP, Triphase  | <b>0111PX75T</b>  | 1          | 19,120    | 0,096                 |
| •PUMPEX-100M 1 HP, Monophase   | <b>0111PX100M</b> | 1          | 20,320    | 0,096                 |
| •PUMPEX-100T 1 HP, Triphase    | <b>0111PX100T</b> | 1          | 19,120    | 0,096                 |
| •PUMPEX-150M 1,5 HP, Monophase | <b>0111PX150M</b> | 1          | 20,120    | 0,096                 |
| •PUMPEX-150T 1,5 HP, Triphase  | <b>0111PX150T</b> | 1          | 21,120    | 0,096                 |
| •PUMPEX-200M 2 HP, Monophase   | <b>0111PX200M</b> | 1          | 25,120    | 0,096                 |
| •PUMPEX-200T 2 HP, Triphase    | <b>0111PX200T</b> | 1          | 23,120    | 0,096                 |
| •PUMPEX-300M 3 HP, Monophase   | <b>0111PX300M</b> | 1          | 26,120    | 0,096                 |
| •PUMPEX-300T 3 HP, Triphase    | <b>0111PX300T</b> | 1          | 26,120    | 0,096                 |



| PUMP TYPE | HP   | CON-DEN-SER (μF) | AMPERES  |           |       | HEAD mwh |       |       |       |       |       |       |       |
|-----------|------|------------------|----------|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
|           |      |                  | II 220 V | III 220 V | 380 V | 8        | 10    | 12    | 14    | 15    | 16    | 18    | 20    |
| PX-50M    | 0,50 | 13               | 2,60     | -         | -     | 11,14    | 7,25  | -     | -     | -     | -     | -     | -     |
| PX-75T/M  | 0,75 | 20               | 3,80     | 3,70      | -     | 15,33    | 12,64 | 10,00 | -     | -     | -     | -     | -     |
| PX-100T/M | 1    | 25               | 4,95     | 3,11      | 1,80  | 19,43    | 17,00 | 14,84 | 11,00 | 8,89  | -     | -     | -     |
| PX-150T/M | 1,5  | 30               | 7,80     | 4,41      | 2,55  | 21,65    | 19,47 | 17,12 | 14,57 | 13,30 | 11,36 | -     | -     |
| PX-200T/M | 2    | 40               | 9,90     | 5,88      | 3,40  | 24,80    | 22,90 | 20,90 | 18,40 | 17,50 | 16,40 | 13,60 | 9,60  |
| PX-300T/M | 3    | 40               | -        | 8,00      | 4,90  | 32,00    | 30,00 | 28,00 | 26,00 | 25,00 | 23,50 | 21,00 | 17,00 |

| PUMP TYPE | DIMENSIONS |     |     |     |     |     |     |     |     |     |     |     |     | Net Weight (Kg) |        | Gross Weight (Kg) |        |
|-----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|--------|-------------------|--------|
|           | DNA        | DNI | A   | B   | C   | D   | E   | F   | G   | I   | H   | J   | K   | Mo.             | Tri.   | Mo.               | Tri.   |
| PX-50M    | 2"         | 2"  | 730 | 375 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 16,500          | -      | 18,120            | -      |
| PX-75T/M  | 2"         | 2"  | 730 | 375 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 17,420          | -      | 20,320            | 19,120 |
| PX-100T/M | 2"         | 2"  | 730 | 375 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 18,620          | 17,420 | 20,320            | 19,120 |
| PX-150T/M | 2"         | 2"  | 750 | 395 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 18,520          | 19,420 | 20,120            | 21,120 |
| PX-200T/M | 2"         | 2"  | 750 | 395 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 23,420          | 21,420 | 25,120            | 23,120 |
| PX-300T/M | 2"         | 2"  | 750 | 395 | 295 | 384 | 185 | 355 | 390 | 490 | 292 | 315 | 225 | 24,120          | 24,420 | 26,120            | 26,120 |

#### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | PX-75T/M      | PX-100T/M   | PX-150T/M   | PX-200T/M     | PX-300T/M   |
|----------------|---------------|-------------|-------------|---------------|-------------|
| SUCTION PIPE Ø | 1,5" (Ø50 mm) | 2" (Ø63 mm) | 2" (Ø63 mm) | 2,5" (Ø75 mm) | 3" (Ø90 mm) |

**PS:** It is recommended to use a conical reducer at the suction line of the pump.

2850 rpm

## Self-priming Pumps

### GEMAS "STREAMER MICRO"

Self-priming, thermoplastic body monoblock pool pump; complete with pre-filter. Both suction and discharge sizes are 1,5". Connections are made with unions. 2850 rpm - IP55 Motor.



| Description                    | Code                | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|---------------------|-------------|-----------|-----------------------|
| •STR-250MIC 0,33 HP, Monophase | <b>0111STRMIC30</b> | 1           | 11,880    | 0,051                 |
| •STR-370MIC 0,5 HP, Monophase  | <b>0111STRMIC40</b> | 1           | 12,850    | 0,051                 |

| PUMP TYPE  | HP   | CONDENSER (μF) | AMPERES II 220 V | HEAD mwh |      |      |      |      |      |    |
|------------|------|----------------|------------------|----------|------|------|------|------|------|----|
|            |      |                |                  | 6        | 7    | 8    | 9    | 10   | 13   | 14 |
| STR-250MIC | 0,33 | -              | 1,20             | 5,70     | 5,10 | 4,30 | 3,50 | 1,50 | -    | -  |
| STR-370MIC | 0,50 | -              | 2,20             | 7,50     | 7,00 | 6,50 | 5,90 | 5,20 | 2,10 | -  |

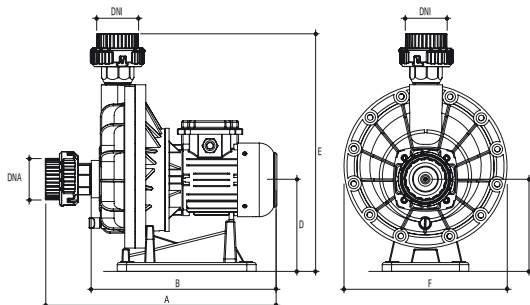
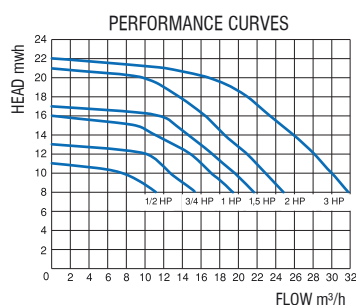


With union connection

### GEMAS "PUMPEX-JET".

Counter current pump. Suction size is 2", discharge size is 1,5". Connections are made with unions. **The pump shaft is made of stainless steel.** IP55 motor.

| Description                     | Code               | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|--------------------|-------------|-----------|-----------------------|
| •PUMPEXJ-50M 0,50 HP, Monophase | <b>0111PXJ50M</b>  | 1           | 16,000    | 0,066                 |
| •PUMPEXJ-75M 0,75 HP, Monophase | <b>0111PXJ75M</b>  | 1           | 17,000    | 0,066                 |
| •PUMPEXJ-75T 0,75 HP, Triphase  | <b>0111PXJ75T</b>  | 1           | 16,000    | 0,066                 |
| •PUMPEXJ-100M 1 HP, Monophase   | <b>0111PXJ100M</b> | 1           | 17,000    | 0,066                 |
| •PUMPEXJ-100T 1 HP, Triphase    | <b>0111PXJ100T</b> | 1           | 16,000    | 0,066                 |
| •PUMPEXJ-150M 1,5 HP, Monophase | <b>0111PXJ150M</b> | 1           | 17,000    | 0,066                 |
| •PUMPEXJ-150T 1,5 HP, Triphase  | <b>0111PXJ150T</b> | 1           | 18,000    | 0,066                 |
| •PUMPEXJ-200M 2 HP, Monophase   | <b>0111PXJ200M</b> | 1           | 22,000    | 0,066                 |
| •PUMPEXJ-200T 2 HP, Triphase    | <b>0111PXJ200T</b> | 1           | 21,000    | 0,066                 |
| •PUMPEXJ-300M 3 HP, Monophase   | <b>0111PXJ300M</b> | 1           | 22,000    | 0,066                 |
| •PUMPEXJ-300T 3 HP, Triphase    | <b>0111PXJ300T</b> | 1           | 21,000    | 0,066                 |



| PUMP TYPE  | HP   | CONDENSER (μF) | AMPERES  |           |       | HEAD mwh |       |       |       |       |       |       |       |
|------------|------|----------------|----------|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
|            |      |                | II 220 V | III 220 V | 380 V | 8        | 10    | 12    | 14    | 15    | 16    | 18    | 20    |
| PXJ-50M    | 0,50 | 13             | 2,60     | -         | -     | 11,14    | 7,25  | -     | -     | -     | -     | -     | -     |
| PXJ-75T/M  | 0,75 | 20             | 3,80     | 3,70      | -     | 15,33    | 12,64 | 10,00 | -     | -     | -     | -     | -     |
| PXJ-100T/M | 1    | 25             | 4,95     | 3,11      | 1,80  | 19,43    | 17,00 | 14,84 | 11,00 | 8,89  | -     | -     | -     |
| PXJ-150T/M | 1,5  | 30             | 7,80     | 4,41      | 2,55  | 21,65    | 19,47 | 17,12 | 14,57 | 13,30 | 11,36 | -     | -     |
| PXJ-200T/M | 2    | 40             | 9,90     | 5,88      | 3,40  | 24,80    | 22,90 | 20,90 | 18,40 | 17,50 | 16,40 | 13,60 | 9,60  |
| PX-300T/M  | 3    | 40             | -        | 8,00      | 4,90  | 32,00    | 30,00 | 28,00 | 26,00 | 25,00 | 23,50 | 21,00 | 17,00 |

| PUMP TYPE  | DIMENSIONS |     |     |     |     |     |     |     | Net Weight (Kg) |        | Gross Weight (Kg) |        |
|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----------------|--------|-------------------|--------|
|            | DNA        | DNI | A   | B   | C   | D   | E   | F   | Mo.             | Tri.   | Mo.               | Tri.   |
| PXJ-50M    | 2"         | 2"  | 470 | 375 | 185 | 185 | 460 | 315 | 16,500          | -      | 18,120            | -      |
| PXJ-75T/M  | 2"         | 2"  | 470 | 375 | 185 | 185 | 460 | 315 | 17,420          | -      | 20,320            | 19,120 |
| PXJ-100T/M | 2"         | 2"  | 470 | 375 | 185 | 185 | 460 | 315 | 18,620          | 17,420 | 20,320            | 19,120 |
| PXJ-150T/M | 2"         | 2"  | 490 | 395 | 185 | 185 | 460 | 315 | 18,520          | 19,420 | 20,120            | 21,120 |
| PXJ-200T/M | 2"         | 2"  | 490 | 395 | 185 | 185 | 460 | 315 | 23,420          | 21,420 | 25,120            | 23,120 |
| PXJ-300T/M | 2"         | 2"  | 490 | 395 | 185 | 185 | 460 | 315 | 24,120          | 24,420 | 26,120            | 26,120 |

| TYPE                                  | Packing Dimensions (mm) |
|---------------------------------------|-------------------------|
| PXJ - 50 / 75 / 100 / 150 / 200 / 300 | 560 x 360 x 400         |

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.



Cross section of impeller system

## Self-priming Pool Pumps

### GEMAS "FLOODER"

Self-priming, thermoplastic body commercial pool pump; complete with a 20 l pre-filter. Both suction and discharge sizes are 4" (Ø110). Connections are made with slip unions. **The pump shaft is made of stainless steel 2850 rpm - IP55 Motor.**

2850 rpm



Stainless steel motor shaft



Noryl impeller



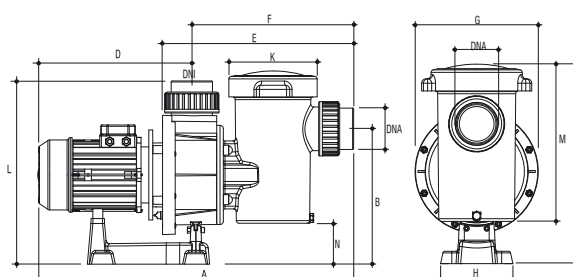
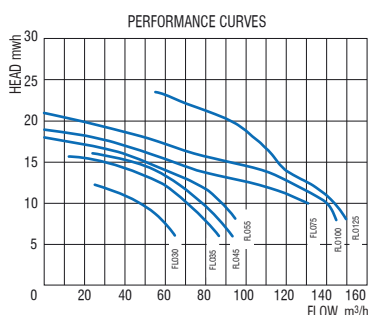
d.110 slip connection

| Description                    | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|-------------------|------------|-----------|-----------------------|
| • 3 HP, Monophase, FLO 300M    | <b>0111FLO30M</b> | 1          | 33,250    |                       |
| • 3 HP, Triphase, FLO 300T     | <b>0111FLO30</b>  | 1          | 32,250    |                       |
| • 3,5 HP, Monophase, FLO 350M  | <b>0111FLO35M</b> | 1          | 33,250    |                       |
| • 3,5 HP, Triphase, FLO 350T   | <b>0111FLO35</b>  | 1          | 32,250    |                       |
| • 4,5 HP, Triphase, FLO 450T   | <b>0111FLO45</b>  | 1          | 35,350    |                       |
| • 5,5 HP, Triphase, FLO 550T   | <b>0111FLO55</b>  | 1          | 42,100    |                       |
| • 7,5 HP, Triphase, FLO 750T   | <b>0111FLO75</b>  | 1          | 49,950    |                       |
| • 10 HP, Triphase, FLO 1000T   | <b>0111FLO100</b> | 1          | 56,100    |                       |
| • 12,5 HP, Triphase, FLO 1250T | <b>0111FLO125</b> | 1          | 56,100    |                       |

PS: \* All models could be coupled with larger capacity pre-filters upon request.

\*\* In cases of high pressure due to pool depth, a polyester pre-filter is recommended.

Please refer to stock code 013209 - FR Polyester Pre-filter.



| PUMP TYPE | HP  | CONDEN-<br>SER<br>(µF) | AMPERES     |       |              | HEAD mwh  |       |       |       |       |       |       |  |
|-----------|-----|------------------------|-------------|-------|--------------|-----------|-------|-------|-------|-------|-------|-------|--|
|           |     |                        | II<br>220 V | 230 V | III<br>380 V | 6         | 8     | 10    | 12    | 14    | 16    | 17    |  |
|           |     |                        |             |       |              | FLOW m³/h |       |       |       |       |       |       |  |
| 0111FL030 | 3,0 | -                      | -           | 10,40 | 6,00         | 65,00     | 56,50 | 47,00 | 25,00 | -     | -     | -     |  |
| 0111FL035 | 3,5 | -                      | -           | 10,40 | 6,00         | 86,00     | 78,00 | 70,00 | 60,00 | 45,00 | 12,00 | -     |  |
| 0111FL045 | 4,5 | -                      | -           | 11,70 | 6,75         | 94,00     | 88,00 | 78,00 | 68,00 | 55,00 | 24,00 | -     |  |
| 0111FL055 | 5,5 | -                      | -           | 13,80 | 8,00         | 102,00    | 95,00 | 88,00 | 78,00 | 60,00 | 40,00 | 23,00 |  |

| PUMP TYPE  | HP   | CONDENSER<br>(μF) | AMPERES<br>III |       |       | HEAD mwh  |        |        |        |        |        |       |       |    |
|------------|------|-------------------|----------------|-------|-------|-----------|--------|--------|--------|--------|--------|-------|-------|----|
|            |      |                   | 230 V          | 400 V | 700 V | 8         | 10     | 12     | 14     | 16     | 18     | 20    | 24    | 25 |
|            |      |                   |                |       |       | FLOW m³/h |        |        |        |        |        |       |       |    |
| 0111FLO75  | 7.5  | -                 | -              | 12,10 | 7,00  | 140,00    | 131,00 | 110,00 | 76,00  | 53,00  | 25,00  | -     | -     | -  |
| 0111FLO100 | 10,0 | -                 | -              | 15,80 | 9,20  | 145,00    | 140,00 | 126,00 | 108,00 | 75,00  | 50,00  | 18,00 | -     | -  |
| 0111FLO125 | 12,5 | -                 | -              | 15,80 | 9,20  | 150,00    | 144,00 | 134,30 | 120,00 | 113,00 | 104,00 | 92,70 | 56,80 | -  |

| PUMP TYPE  | DIMENSIONS |     |     |     |     |     |     |     |     |     |     |     |     |     | Net Weight (Kg) | Gross Weight (Kg) |
|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------------|
|            | DNA        | DNI | A   | K   | B   | C   | D   | E   | F   | G   | H   | L   | M   | N   |                 |                   |
| 0111FL030  | 4"         | 4"  | 890 | 265 | 415 | 580 | 400 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 30,750          | 32,250            |
| 0111FL035  | 4"         | 4"  | 890 | 265 | 415 | 580 | 400 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 30,750          | 32,250            |
| 0111FL045  | 4"         | 4"  | 890 | 265 | 415 | 580 | 400 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 33,850          | 35,350            |
| 0111FL055  | 4"         | 4"  | 910 | 265 | 415 | 580 | 420 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 40,600          | 42,100            |
| 0111FL075  | 4"         | 4"  | 910 | 265 | 415 | 580 | 420 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 48,450          | 49,950            |
| 0111FL0100 | 4"         | 4"  | 930 | 265 | 415 | 580 | 440 | 573 | 485 | 358 | 210 | 550 | 467 | 113 | 54,600          | 56,100            |
| 0111FL0125 | 4"         | 4"  | 930 | 265 | 415 | 580 | 440 | 573 | 485 | 358 | 210 | 550 | 467 | 113 |                 |                   |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | 0111FLO30        | 0111FLO35    | 0111FLO45    | 0111FLO55    | 0111FLO75    | 0111FLO100   | 0111FLO125   |
|----------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| SUCTION PIPE Ø | 4 1/2" (Ø125 mm) | 5" (Ø140 mm) | 5" (Ø140 mm) | 6" (Ø160 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) |

**Note:** We recommend using conical reducers at the pump suction point when reducing from the above pipe diameters down to 4" (110 mm).

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.



**1450 rpm**

## Self-priming Pool Pumps

### GEMAS "FLOODER"

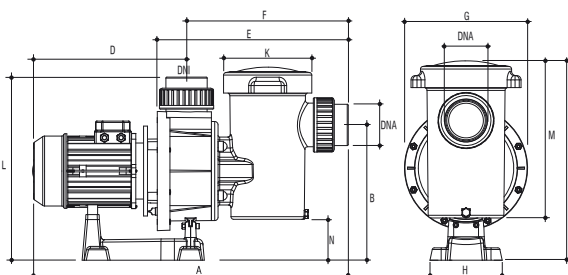
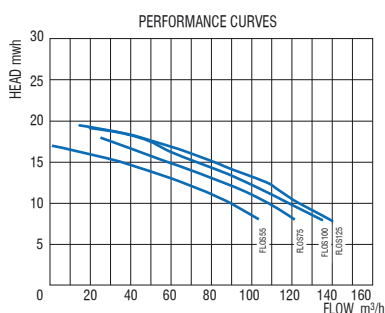
Self-priming, thermoplastic body Commercial Pool Pump; complete with 20 l pre-filter.  
Suction and Discharge 4" (Ø110). Connections are with slip unions. **Pump shaft in stainless steel.**  
1450 rpm - IP55 Motor.



| Description                    | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|--------------------|------------|-----------|-----------------------|
| • 5,5 HP, Triphase, FLOS550T   | <b>0111FLOS55</b>  | 1          | 42,100    | 0,213                 |
| • 7,5 HP, Triphase, FLOS750T   | <b>0111FLOS75</b>  | 1          | 49,950    | 0,213                 |
| • 10 HP, Triphase, FLOS1000T   | <b>0111FLOS100</b> | 1          | 56,100    | 0,213                 |
| • 12,5 HP, Triphase, FLOS1250T | <b>0111FLOS125</b> | 1          | 56,100    | 0,213                 |

PS: \* All models can be produced with Ø125 or Ø110 mm suction connection.

\*\* In cases of High Pressure due to pool depth, a polyester pre-filter is preferred.  
See stock code 013209 - FR Polyester pre-filter.



Stainless steel motor shaft



Noryl impeller

| PUMP TYPE  | HP  | CONDENSER (µF) | AMPERES  |       |           | HEAD mwh |        |       |       |       |       |    |
|------------|-----|----------------|----------|-------|-----------|----------|--------|-------|-------|-------|-------|----|
|            |     |                | II 220 V | 220 V | III 380 V | 6        | 8      | 10    | 12    | 14    | 16    | 17 |
| 0111FLOS55 | 5,5 | -              | -        | -     | -         | -        | 105,00 | 90,00 | 70,00 | 45,00 | 15,00 | -  |

| PUMP TYPE   | HP   | CONDENSER (µF) | AMPERES |       |       | HEAD mwh |        |        |        |       |       |       |       |
|-------------|------|----------------|---------|-------|-------|----------|--------|--------|--------|-------|-------|-------|-------|
|             |      |                | 230 V   | 400 V | 700 V | 8        | 10     | 11     | 12     | 13    | 14    | 16    | 18    |
| 0111FLOS75  | 7,5  | -              | -       | -     | -     | 120,00   | 107,00 | 100,00 | 90,00  | 80,00 | 66,00 | 43,00 | 25,00 |
| 0111FLOS100 | 10,0 | -              | -       | -     | -     | 135,00   | 120,00 | 110,00 | 103,00 | 97,00 | 83,00 | 60,00 | 35,00 |
| 0111FLOS125 | 12,5 | -              | -       | -     | -     | 140,00   | 123,00 | -      | 110,00 | -     | 85,00 | 65,00 | 35,00 |

| PUMP TYPE   | DIMENSIONS |     |     |     |     |     |     |     |     |     |     |     |     | Net Weight (Kg) | Gross Weight (Kg) |
|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------------|
|             | DNA        | DNI | A   | K   | B   | C   | D   | E   | F   | G   | H   | L   | M   |                 |                   |
| 0111FLOS55  | 4"         | 4"  | 910 | 265 | 415 | 580 | 420 | 573 | 485 | 358 | 210 | 550 | 467 | 113             | 40,600            |
| 0111FLOS75  | 4"         | 4"  | 910 | 265 | 415 | 580 | 420 | 573 | 485 | 358 | 210 | 550 | 467 | 113             | 48,450            |
| 0111FLOS100 | 4"         | 4"  | 935 | 265 | 415 | 580 | 440 | 573 | 485 | 358 | 210 | 550 | 467 | 113             | 54,600            |
| 0111FLOS125 | 4"         | 4"  | 935 | 265 | 415 | 580 | 440 | 573 | 485 | 358 | 210 | 550 | 467 | 113             | 54,600            |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | 0111FLOS55   | 0111FLOS75   | 0111FLOS100  | 0111FLOS125  |
|----------------|--------------|--------------|--------------|--------------|
| SUCTION PIPE Ø | 6" (Ø160 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) |

**Note:** We recommend using conical reductions at the pump suction point if reducing from the above pipe diameters down to 4" (110 mm).



d.110 slip connection

## Self-priming Pool Pumps

### GEMAS "FLOODER JET"

Self-priming, thermoplastic body Jet Pump. Suction and Discharge 4" (Ø110). Connections are with slip union. 2850 rpm - IP55 Motor. **Pump shaft in stainless steel.**



**2850 rpm**



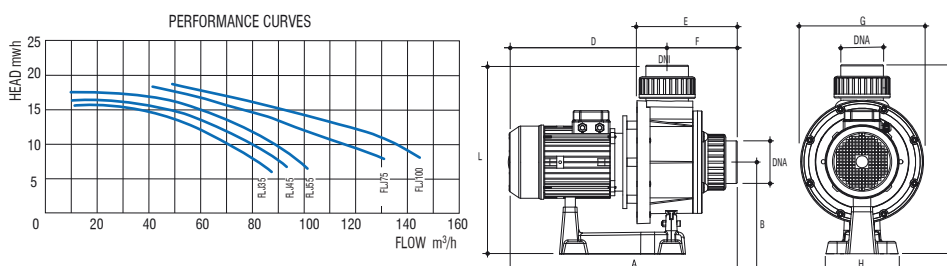
Stainless steel motor shaft



Noryl impeller

| Description                    | Code              | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------|-------------------|------------|-----------|-----------|
| • 3 HP, Monophase, FLJ 300M    | <b>0111FLJ30M</b> | 1          | 27,000    | 0,150     |
| • 3 HP, Triphase, FLJ 300T     | <b>0111FLJ30</b>  | 1          | 26,000    | 0,150     |
| • 3,5 HP, Monophase, FLJ 350M  | <b>0111FLJ35M</b> | 1          | 27,000    | 0,150     |
| • 3,5 HP, Triphase, FLJ 350T   | <b>0111FLJ35</b>  | 1          | 26,000    | 0,150     |
| • 4,5 HP, Triphase, FLJ 450T   | <b>0111FLJ45</b>  | 1          | 29,900    | 0,150     |
| • 5,5 HP, Triphase, FLJ 550T   | <b>0111FLJ55</b>  | 1          | 37,300    | 0,150     |
| • 7,5 HP, Triphase, FLJ 750T   | <b>0111FLJ75</b>  | 1          | 45,250    | 0,150     |
| • 10 HP, Triphase, FLJ 1000T   | <b>0111FLJ100</b> | 1          | 51,400    | 0,150     |
| • 12,5 HP, Triphase, FLJ 1250T | <b>0111FLJ125</b> | 1          | 51,400    | 0,150     |

**PS:** All models can be produced with Ø125 or Ø110 mm suction connection.



| PUMP TYPE | HP  | CONDENSER (μF) | AMPERES |       |       | HEAD mwh |       |       |       |       |       |       |
|-----------|-----|----------------|---------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
|           |     |                | II      |       |       |          |       |       |       |       |       |       |
|           |     |                | 220 V   | 220 V | 380 V | 6        | 8     | 10    | 12    | 14    | 16    | 17    |
| 0111FLJ30 | 3,0 | -              | -       | -     | -     | 65,00    | 56,50 | 47,00 | 25,00 |       |       |       |
| 0111FLJ35 | 3,5 | -              | -       | 10,40 | 6,00  | 86,00    | 78,00 | 70,00 | 60,00 | 45,00 | 12,00 | -     |
| 0111FLJ45 | 4,5 | -              | -       | 11,70 | 6,75  | 94,00    | 88,00 | 78,00 | 68,00 | 55,00 | 24,00 | -     |
| 0111FLJ55 | 5,5 | -              | -       | 13,80 | 8,00  | 102,00   | 95,00 | 88,00 | 78,00 | 68,00 | 50,00 | 28,00 |

| PUMP TYPE  | HP   | CONDENSER<br>(μF) | AMPERES<br>III |       |       | HEAD mwh  |        |        |        |        |        |        |        |    |
|------------|------|-------------------|----------------|-------|-------|-----------|--------|--------|--------|--------|--------|--------|--------|----|
|            |      |                   | 230 V          | 400 V | 700 V | 8         | 10     | 11     | 12     | 13     | 14     | 16     | 18     | 21 |
|            |      |                   |                |       |       | FLOW m³/h |        |        |        |        |        |        |        |    |
| 0111FLJ75  | 7,5  | -                 | -              | 12,10 | 7,00  | 121,00    | 112,00 | 107,00 | 101,00 | 96,00  | 87,00  | 65,50  | 42,50  | -  |
| 0111FLJ100 | 10,0 | -                 | -              | 15,80 | 9,20  | 145,00    | 136,60 | 130,00 | 123,00 | 113,00 | 101,50 | 78,50  | 49,50  | -  |
| 0111FLJ125 |      |                   |                | 15,80 | 9,20  | 150,00    | 144,00 |        | 134,30 |        | 120,00 | 113,00 | 104,00 |    |

| PUMP TYPE  | DIMENSIONS |     |     |     |     |     |     |     |     |     | Net Weight (Kg) | Gross Weight (Kg) |
|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------------|
|            | DNA        | DNI | A   | B   | D   | E   | F   | G   | H   | L   |                 |                   |
| 0111FLJ30  | 4"         | 4"  | 600 | 268 | 395 | 293 | 205 | 358 | 210 | 550 | 25,750          | 27,000            |
| 0111FLJ35  | 4"         | 4"  | 600 | 268 | 395 | 293 | 205 | 358 | 210 | 550 | 25,750          | 27,000            |
| 0111FLJ45  | 4"         | 4"  | 600 | 268 | 395 | 293 | 205 | 358 | 210 | 550 | 28,650          | 29,900            |
| 0111FLJ55  | 4"         | 4"  | 620 | 268 | 415 | 293 | 205 | 358 | 210 | 550 | 36,050          | 37,300            |
| 0111FLJ75  | 4"         | 4"  | 620 | 268 | 415 | 293 | 205 | 358 | 210 | 550 | 44,000          | 45,250            |
| 0111FLJ100 | 4"         | 4"  | 640 | 268 | 435 | 293 | 205 | 358 | 210 | 550 | 50,150          | 51,400            |
| 0111FLJ125 | 4"         | 4"  | 640 | 268 | 435 | 293 | 205 | 358 | 210 | 550 |                 |                   |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | 0111FLJ35    | 0111FLJ45    | 0111FLJ55    | 0111FLJ75    | 0111FLJ100   | 0111FLJ125   |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| SUCTION PIPE Ø | 5" (Ø140 mm) | 5" (Ø140 mm) | 6" (Ø160 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) |

**Note:** We recommend using conical reductions at the pump suction point if reducing from the above pipe diameters down to 4" (110 mm).

1450 rpm



## Self-priming Pool Pumps

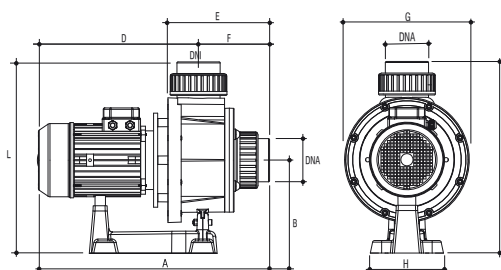
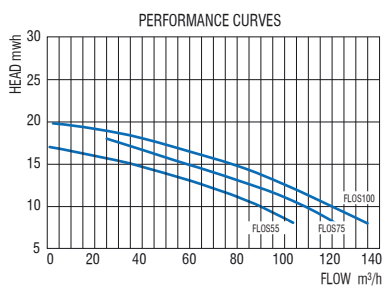
### GEMAS "FLOODER JET"

Self-priming, thermoplastic body Jet Pump. Suction and Discharge 4" (Ø110). Connections are with slip union. 1450 rpm - IP55 Motor. Pump shaft in stainless steel.



| Description                    | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|--------------------|------------|-----------|-----------------------|
| •5,5 HP, Triphase, FLJS 550T   | <b>0111FLJS55</b>  | 1          | 37,300    | 0,150                 |
| •7,5 HP, Triphase, FLJS 750T   | <b>0111FLJS75</b>  | 1          | 45,250    | 0,150                 |
| •10 HP, Triphase, FLJS 1000T   | <b>0111FLJS100</b> | 1          | 51,400    | 0,150                 |
| •12,5 HP, Triphase, FLJS 1250T | <b>0111FLJS125</b> | 1          | 51,400    | 0,150                 |

PS: All models can be produced with Ø125 or Ø110 mm suction connection.



Stainless steel motor shaft



Noryl impeller

| PUMP TYPE  | HP  | CONDENSER (µF) | AMPERES  |       |           | HEAD mwh  |        |       |       |       |       |    |
|------------|-----|----------------|----------|-------|-----------|-----------|--------|-------|-------|-------|-------|----|
|            |     |                | II 220 V | 220 V | III 380 V | 6         | 8      | 10    | 12    | 14    | 16    | 17 |
|            |     |                |          |       |           | FLOW m³/h |        |       |       |       |       |    |
| 0111FLJS55 | 5,5 | -              | -        | -     | -         | -         | 105,00 | 90,00 | 70,00 | 45,00 | 15,00 | -  |

| PUMP TYPE   | HP   | CONDENSER (µF) | AMPERES |       |       | HEAD mwh  |        |        |        |       |       |       |       |
|-------------|------|----------------|---------|-------|-------|-----------|--------|--------|--------|-------|-------|-------|-------|
|             |      |                | 230 V   | 400 V | 700 V | 8         | 10     | 11     | 12     | 13    | 14    | 16    | 18    |
|             |      |                |         |       |       | FLOW m³/h |        |        |        |       |       |       |       |
| 0111FLJS75  | 7,5  | -              | -       | -     | -     | 120,00    | 107,00 | 100,00 | 90,00  | 80,00 | 66,00 | 43,00 | 25,00 |
| 0111FLJS100 | 10,0 | -              | -       | -     | -     | 135,00    | 120,00 | 110,00 | 103,00 | 97,00 | 83,00 | 60,00 | 35,00 |
| 0111FLJS125 | 12,5 | -              | -       | -     | -     | 140,00    | 123,00 | -      | 110,00 | -     | 85,00 | 65,00 | 35,00 |

| PUMP TYPE   | DIMENSIONS |     |     |     |     |     |     |     |     |     | Net Weight (Kg) | Gross Weight (Kg) |
|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-------------------|
|             | DNA        | DNI | A   | B   | D   | E   | F   | G   | H   | L   |                 |                   |
| 0111FLJS55  | 4"         | 4"  | 665 | 268 | 460 | 293 | 205 | 358 | 210 | 550 | 36,050          | 37,300            |
| 0111FLJS75  | 4"         | 4"  | 665 | 268 | 460 | 293 | 205 | 358 | 210 | 550 | 44,000          | 45,250            |
| 0111FLJS100 | 4"         | 4"  | 705 | 268 | 500 | 293 | 205 | 358 | 210 | 550 | 50,150          | 51,400            |
| 0111FLJS125 | 4"         | 4"  | 705 | 268 | 500 | 293 | 205 | 358 | 210 | 550 | 50,150          | 51,400            |

### SUCTION PIPE DIMENSIONS

| PUMP TYPE      | 0111FLJS55   | 0111FLJS75   | 0111FLJS100  | 0111FLJS125  |
|----------------|--------------|--------------|--------------|--------------|
| SUCTION PIPE Ø | 6" (Ø160 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) | 7" (Ø200 mm) |

Note: We recommend using conical reductions at the pump suction point if reducing from the above pipe diameters down to 4" (110 mm).



## Self-priming Pool Pumps

### GEMAS "MEGA FLOODER"

Self-priming, thermoplastic body Commercial Pool Pump;

**WITHOUT** pre-filter. Pump shaft in stainless steel.

2850 rpm - IP55 Motor.

2850 rpm



Stainless steel motor shaft



Special polyester base for heavy-duty applications



013331

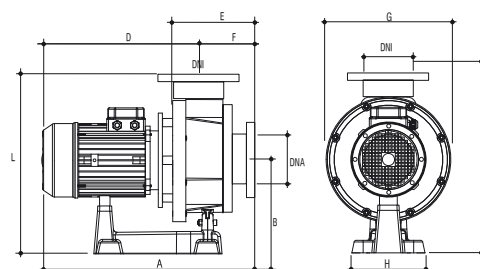
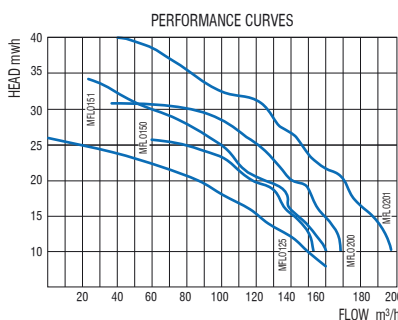


Polyester laminated pre-filter (optional)



| Description                                  | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------|-------------------|------------|-----------|-----------------------|
| • 12,5 HP, Triphase, MFLO 1250T              | <b>0111MFL125</b> | 1          | 51,400    |                       |
| • 15 HP, Type I Triphase, MFLO 1500T         | <b>0111MFL150</b> | 1          | 153,000   |                       |
| • 15 HP, Type II Triphase, MFLO 1500T        | <b>0111MFL151</b> | 1          | 153,000   |                       |
| • 20 HP, Type I Triphase, MFLO 2000T         | <b>0111MFL200</b> | 1          | 187,000   |                       |
| • 20 HP, Type II Triphase, MFLO 2000T        | <b>0111MFL201</b> | 1          | 187,000   |                       |
| • 6" Plastic pre-filter 40 l                 | <b>013331</b>     | 1          | 25,700    |                       |
| • 5"-6" Polyester laminated pre-filter, 20 l | <b>013217</b>     | 1          | 16,700    |                       |
| • 5"-8" Polyester laminated pre-filter, 65 l | <b>0132241</b>    | 1          | 31,500    |                       |

**Note:** Please refer to the "Pump pre-filters (Strainers)" section for pre-filter options and prices.



| PUMP TYPE   | HP   | CON-<br>DEN-<br>SER<br>(μF) | AMPERES<br>II 220V III 220V/380V | HEAD mwh |        |        |        |        |        |        |        |        |        |        |        |       |       |
|-------------|------|-----------------------------|----------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
|             |      |                             |                                  | 10       | 12     | 14     | 16     | 18     | 20     | 22     | 24     | 26     | 28     | 31     | 32     | 33    | 34    |
| 0111MFLO125 | 12,5 | -                           | -                                | -        | 150,00 | 141,00 | 127,00 | 116,50 | 101,00 | 87,00  | 65,00  | 37,50  | -      | -      | -      | -     | -     |
| 0111MFLO150 | 15,0 | -                           | -                                | -        | 152,00 | 151,00 | 144,00 | 136,00 | 130,00 | 118,00 | 108,00 | 88,00  | 60,00  | -      | -      | -     | -     |
| 0111MFLO200 | 20,0 | -                           | -                                | -        | 169,00 | 165,00 | 161,00 | 155,00 | 150,00 | 140,00 | 134,00 | 124,00 | 92,00  | 36,00  | -      | -     | -     |
| 0111MFLO151 | 15,0 | -                           | -                                | -        | 160,00 | 153,00 | 144,00 | 138,00 | 128,00 | 124,00 | 110,00 | 104,00 | 93,00  | 74,00  | 49,00  | 39,00 | 31,00 |
| 0111MFLO201 | 20,0 | -                           | -                                | -        | 197,00 | 185,00 | 183,00 | 177,00 | 167,00 | 160,00 | 151,00 | 143,00 | 134,00 | 123,00 | 100,00 | 90,00 | 86,00 |

| PUMP TYPE   | DIMENSIONS |     |     |     |   |     |     |     |     |     |     | Net Weight (Kg) |      | Gross Weight (Kg) |      |
|-------------|------------|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----------------|------|-------------------|------|
|             | DNA        | DNI | A   | B   | C | D   | E   | F   | G   | H   | L   | Mo.             | Tri. | Mo.               | Tri. |
| 0111MFLO125 |            |     |     |     |   |     |     |     |     |     |     |                 |      |                   |      |
| 0111MFLO150 | 5"         | 5"  | 700 | 280 | - | 540 | 260 | 160 | 360 | 420 | 252 | -               | 139  | -                 | 153  |
| 0111MFLO200 | 5"         | 5"  | 700 | 280 | - | 640 | 260 | 160 | 360 | 420 | 252 | -               | 170  | -                 | 187  |
| 0111MFLO151 | 5"         | 5"  | 700 | 280 | - | 540 | 260 | 160 | 360 | 420 | 252 | -               | 139  | -                 | 153  |
| 0111MFLO201 | 5"         | 5"  | 700 | 280 | - | 640 | 260 | 160 | 360 | 420 | 252 | -               | 170  | -                 | 187  |

### SUCTION PIPE DIMENSIONS

|                |             |             |             |
|----------------|-------------|-------------|-------------|
| PUMP TYPE      | 0111FLO125  | 0111MFLO150 | 0111MFLO200 |
| SUCTION PIPE Ø | 8"(Ø225 mm) | 8"(Ø225 mm) | 8"(Ø225 mm) |
| PUMP TYPE      | 0111MFLO151 | 0111MFLO201 |             |
| SUCTION PIPE Ø | 8"(Ø225 mm) | 8"(Ø225 mm) |             |

- 1- Locking nut
- 2- Transparent lid
- 3- O-ring
- 4- Pre-filter basket
- 5- Pre-filter body
- 6- Gasket for drain
- 7- Drain plug
- 8- Connection screws
- 9- Body gasket
- 10- Body o-ring





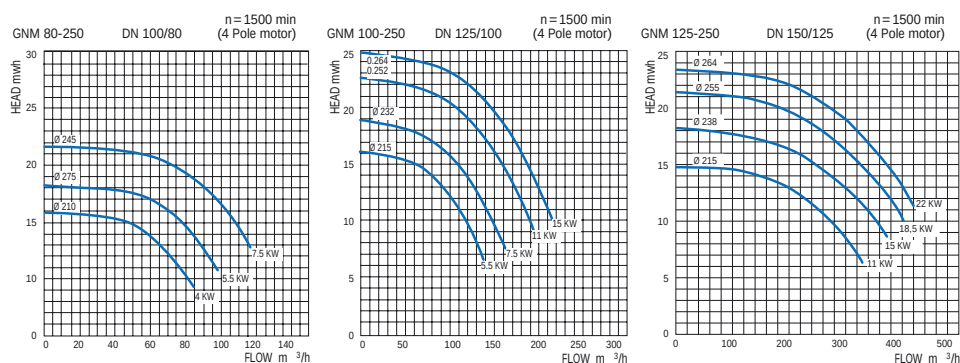
## Cast Iron Pool Pumps

### GEMAS "PUMPEX CAST IRON POOL PUMPS"

Cast iron body with mechanical seal and triphase motor. Shaft in Inox 420. 1450 rpm. Body for 10 bar pressure. In conformity with DIN 24255. **Pre-filter not included in the price.**

| Description                                                                                 | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| •GNM 80-250. 70 m <sup>3</sup> /h - 16 mwh - 7,5 HP (5,5 kw) 4"- 3" Discharge - Ø 225 Fan.  | <b>011212P</b> | 1          |           |                       |
| •GNM 100-250. 100 m <sup>3</sup> /h - 16 mwh - 10 HP (7,5 kw) 5"- 4" Discharge - Ø 232 Fan. | <b>011222P</b> | 1          |           |                       |
| •GNM 100-250. 150 m <sup>3</sup> /h - 16 mwh - 15 HP (11 kw) 5"- 4" Discharge - Ø 252 Fan.  | <b>011223P</b> | 1          |           |                       |
| •GNM 125-250. 230 m <sup>3</sup> /h - 16 mwh - 20 HP (15 kw) 6"- 5" Discharge - Ø 238 Fan.  | <b>011231P</b> | 1          |           |                       |

**Note:** 1- The pumps listed are produced upon request, with a lead time of approximately 7-15 days. Please inquire about the prices for capacities that are not included in the list.  
2- Pumps with a bronze fan and stainless steel shaft are available at a 30% higher price."



## Pump Bases and Vibration Bricks

**Pump Bases and Vibration Mounts** The pump base is made of AISI 304 grade stainless steel and is specifically designed for pumps with a maximum power of 3 HP.

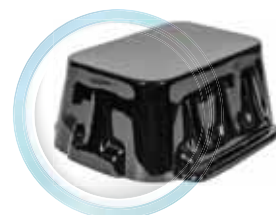
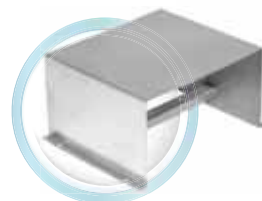
| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| •Single     | <b>01411</b> | 1          | 4,330     | 0,030                 |
| •Double     | <b>01412</b> | 1          | 8,320     | 0,040                 |

**FR Polyester Pump Base.** Can be used for all Streamer and Flooder models up to 10 HP. 375 x 250 x 190 mm.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| •Single     | <b>01413</b> | 1          |           |                       |

**Vibration mount** Installed to minimize pump vibration.

| Description       | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|------------------|------------|-----------|-----------------------|
| •M8, Ø30 - 25 mm  | <b>0111STS10</b> | 1          |           |                       |
| •M10, Ø50 - 35 mm | <b>0111STS21</b> | 1          |           |                       |



## Pump Pre-Filters (Strainers)



01312

### Stainless Steel pre-filters

AISI 304 Quality Stainless Steel pre-filter. Lid with washer and nuts. Connections with Loose Flange.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
| • 5"        | 01312 | 1          | 15,000    |                       |
| • 6"        | 01313 | 1          | 17,350    |                       |
| • 8"        | 01314 | 1          | 19,450    |                       |

### Plastic pre-filters

Fiberglass Reinforced PP Body. 20 l and 40 l capacity. PP basket. Polycarbonate transparent lid.

| Description                                             | Code     | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------|----------|------------|-----------|-----------------------|
| • 4" - Unions                                           | 013311   | 1          | 9,740     |                       |
| • 5" - Flanged                                          | 013321   | 1          | 10,750    |                       |
| • Stainless Steel Pre-filter<br>Basket AISI 304 Quality | 0111FL01 | 1          |           |                       |
| • 6" - Flanged - 40 l                                   | 013331   | 1          | 25,300    |                       |



013311



013321



013331



### FR Polyester pre-filters

Fiberglass reinforced polyester body pre-filter. Plastic pre-filter basket, transparent acrylic lid, loose flange.

| Description                         | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------|--------|------------|-----------|-----------------------|
| • 4"-4,5" Suitable for Flooder Pump | 013209 | 1          |           |                       |
| • 4"                                | 013210 | 1          |           |                       |
| • 6"                                | 013323 | 1          |           |                       |



## Pump Pre-Filters (Strainers)

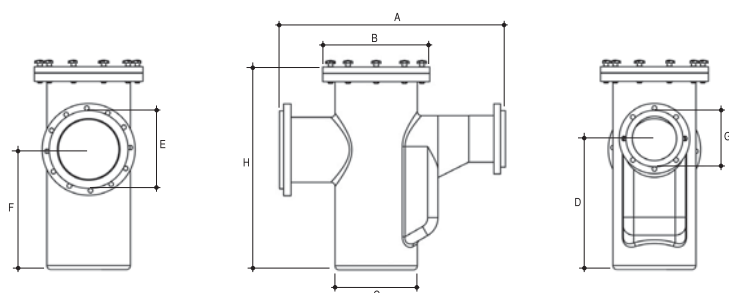
Fiberglass reinforced polyester pre-filter. Loose flange connection and **65 l** capacity. Pipe connections can be produced according to demand. Stainless steel basket. Transparent acrylic lid. Can be used up to 225 mm connections.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 4"        | <b>013215</b> | 1              | 31,500       | 0,340                    |
| • 5"        | <b>013216</b> | 1              | 31,500       | 0,340                    |
| • 6"        | <b>013223</b> | 1              | 31,500       | 0,340                    |
| • 8"        | <b>013229</b> | 1              |              |                          |



Fiber glass reinforced polyester pre-filter. Loose flange connection. Ø280, Ø315 and Ø355 has **125 l** Ø400 and Ø450 has **285 l** capacity. AISI 304 quality stainless steel basket. Transparent acrylic lid. Can be used up to 225 mm connections.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 8"- Ø280  | <b>013224</b> | 1              |              |                          |
| • 8"- Ø315  | <b>013225</b> | 1              |              |                          |
| • 8"- Ø355  | <b>013226</b> | 1              |              |                          |
| • 8"- Ø400  | <b>013227</b> | 1              |              |                          |
| • 8"- Ø450  | <b>013228</b> | 1              |              |                          |



| PRE-FILTER TYPE | Code   | DIMENSIONS |     |     |     |      |     |      |      |
|-----------------|--------|------------|-----|-----|-----|------|-----|------|------|
|                 |        | A          | B   | C   | D   | E    | F   | G    | H    |
| Ø225 - Ø280     | 013224 | 1098       | 520 | 400 | 635 | Ø280 | 582 | Ø225 | 983  |
| Ø225 - Ø315     | 013225 | 1098       | 520 | 400 | 635 | Ø315 | 582 | Ø225 | 983  |
| Ø225 - Ø355     | 013226 | 1098       | 520 | 400 | 635 | Ø355 | 582 | Ø225 | 983  |
| Ø225 - Ø400     | 013227 | 1373       | 680 | 553 | 864 | Ø400 | 788 | Ø225 | 1220 |
| Ø225 - Ø450     | 013228 | 1373       | 680 | 553 | 864 | Ø400 | 788 | Ø225 | 1220 |



## Submersible Pumps

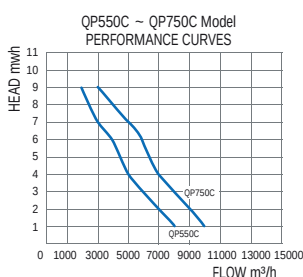


### QP550C ~ QP750C Model:

IPX8, plastic body, mechanical seal, automatic reset thermal protected motor, submersible pump suitable for clean and dirty water discharge with impeller suitable for **maximum 5 mm grain size** for dirty water discharge. It has vertical electronic factor against floaters malfunction in the drain pit. 10 m cable. Max. water temperature is 35°C, ambient temperature is 40°C.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • QP550C    | <b>013172</b> | 1          | 6,000     | 0,050                 |
| • QP750C    | <b>013173</b> | 1          | 7,000     | 0,050                 |

| PUMP TYPE | Power (W) | Inch   | Max. Pressure (M) | Max. Flow (L/H) | Max. Water Depth (m) | Max. Grain Size | Cable Length (m)        | HEAD mwh               |   |   |   |   |   |
|-----------|-----------|--------|-------------------|-----------------|----------------------|-----------------|-------------------------|------------------------|---|---|---|---|---|
|           |           |        |                   |                 |                      |                 |                         | 1                      | 2 | 4 | 6 | 7 | 9 |
|           |           |        |                   |                 |                      |                 |                         | FLOW m <sup>3</sup> /h |   |   |   |   |   |
| QP550C    | 550       | 1 1/4" | 8.0               | 11000           | 7                    | 5 mm            | H05RN-F3G 1.0 mm 2x10 m | 8                      | 7 | 5 | 4 | 3 | 2 |
| QP750C    | 750       | 1 1/4" | 8.5               | 12500           | 7                    | 5 mm            | H07RN-F3G 1.0 mm 2x10 m | 10                     | 9 | 7 | 6 | 5 | 3 |



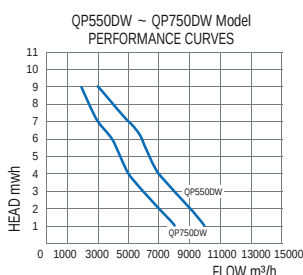
### QP550 DW ~ QP750 DW Model:

IPX8, plastic body, mechanical seal, automatic reset thermal protected motor, submersible pump suitable for clean and dirty water discharge with impeller suitable for **maximum 35 mm grain size** for dirty water discharge. It has vertical electronic factor against floaters malfunction in the drain pit. 10 m cable. Max. water temperature is 35°C, ambient temperature is 40°C.



| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • QP550DW   | <b>013191</b> | 1          | 6,000     | 0,050                 |
| • QP750DW   | <b>013192</b> | 1          | 7,000     | 0,050                 |

| PUMP TYPE | Power (W) | Inch   | Max. Pressure (M) | Max. Flow (L/H) | Max. Water Depth (m) | Max. Grain Size | Cable Length (m)        | HEAD mwh               |   |   |   |   |   |
|-----------|-----------|--------|-------------------|-----------------|----------------------|-----------------|-------------------------|------------------------|---|---|---|---|---|
|           |           |        |                   |                 |                      |                 |                         | 1                      | 2 | 4 | 6 | 7 | 9 |
|           |           |        |                   |                 |                      |                 |                         | FLOW m <sup>3</sup> /h |   |   |   |   |   |
| QP550DW   | 550       | 1 1/4" | 6.5               | 10000           | 7                    | 35 mm           | H05RN-F3G 1.0 mm 2x10 m | 8                      | 7 | 5 | 4 | 3 | 2 |
| QP750DW   | 750       | 1 1/4" | 7.5               | 13000           | 7                    | 35 mm           | H07RN-F3G 1.0 mm 2x10 m | 10                     | 9 | 7 | 6 | 5 | 3 |



# Injection Plastic Body Pool Filters

## “Seljuk” BL High Rate Sand Filter

**GEMAS “Seljuk”** It is produced from high quality PP material with plastic injection molding technology. The upper and lower parts are joined using a special welding technique. Complete with transparent lid, multiport valve, fittings, pressure gauge and air vent. **2-year warranty.** Test pressure 3,5 kg/cm<sup>2</sup>, Maximum working pressure 2.5 kg/cm<sup>2</sup>, Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.

Environment  
friendly

2 years  
Parts  
WARRANTY



021133

CE



Transparent  
bolted lid (Patented)



Top mount



Folding collector arms



021131T

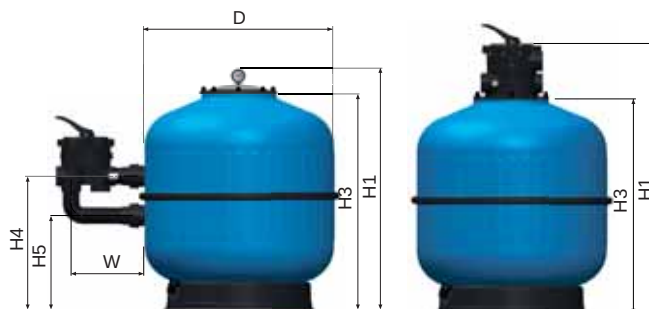


021132



021134

| Description                   | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø500 1,5" multi. side valve | <b>021131</b>  | 1              | 12,000       | 0,215                    |
| • Ø630 1,5" multi. side valve | <b>021132</b>  | 1              | 13,350       | 0,325                    |
| • Ø710 2" multi. side valve   | <b>021133</b>  | 1              | 18,500       | 0,440                    |
| • Ø900 2" multi. side valve   | <b>021134</b>  | 1              |              |                          |
| • Ø500 1,5" multi. top valve  | <b>021131T</b> | 1              | 11,514       | 0,215                    |
| • Ø630 1,5" multi. top valve  | <b>021132T</b> | 1              | 13,350       | 0,325                    |
| • Ø710 2" multi. top valve    | <b>021133T</b> | 1              | 18,500       | 0,440                    |
| • Ø900 2" multi. top valve    | <b>021134T</b> | 1              |              |                          |



### TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                                | 021131 | 021132 | 021133 | 021134 | 021131T | 021132T | 021133T | 021134T |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
| <b>D (mm)</b>                                                                                                                                                        | 500    | 630    | 710    | 900    | 500     | 630     | 710     | 900     |
| <b>H<sub>1</sub> (mm)</b>                                                                                                                                            | 765    | 850    | 920    | 990    | 845     | 930     | 1030    | 1100    |
| <b>H<sub>2</sub> (mm)</b>                                                                                                                                            | -      | -      | -      | -      | -       | -       | -       | -       |
| <b>H<sub>3</sub> (mm)</b>                                                                                                                                            | 665    | 750    | 820    | 890    | 665     | 750     | 820     | 890     |
| <b>H<sub>4</sub> (mm)</b>                                                                                                                                            | 430    | 475    | 510    | 550    | -       | -       | -       | -       |
| <b>H<sub>5</sub> (mm)</b>                                                                                                                                            | 300    | 345    | 360    | 400    | -       | -       | -       | -       |
| <b>W (mm)</b>                                                                                                                                                        | 260    | 260    | 295    | 295    | -       | -       | -       | -       |
| <b>CONNECTIONS Ø (mm)</b>                                                                                                                                            | 1,5"   | 1,5"   | 2"     | 2"     | 1,5"    | 1,5"    | 2"      | 2"      |
| <b>FLOW (m<sup>3</sup>/h)</b><br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 10     | 16     | 20     | 32     | 10      | 16      | 20      | 32      |
|                                                                                                                                                                      | 8      | 12     | 16     | 26     | 8       | 12      | 16      | 26      |
|                                                                                                                                                                      | 6      | 9      | 12     | 19     | 6       | 9       | 12      | 19      |
| <b>SAND (Kg)</b>                                                                                                                                                     | 100    | 150    | 250    | 450    | 100     | 150     | 250     | 450     |
| <b>NET WEIGHT (Kg)</b>                                                                                                                                               | 12.000 | 13.350 | 18.500 | -      | 12.000  | 13.350  | 18.500  | -       |

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# Injection Plastic Body Pool Filters

Environment  
friendly



**NEW!**

2 years  
Parts  
WARRANTY

## “Seljuk” ACRYL BL High Rate Sand Filter

GEMAS “Seljuk” ACRYL BL is made of high quality PP plastic by injection molding technology and coated with acrylic which provides an eye-catching glossy surface finish. Complete with transparent lid, multiport valve, fittings, pressure gauge and air vent.

**2-year warranty.**

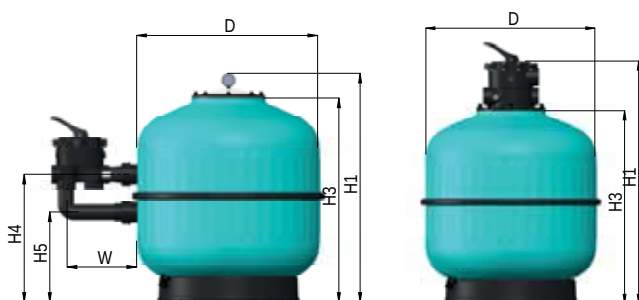
Test pressure 3,5 kg/cm<sup>2</sup>,  
Maximum working pressure 2.5 kg/cm<sup>2</sup>,  
Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.

CE



Transparent bolted lid (Patented)

| Description                            | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Ø500 Acryl BL 1,5" multi. side valve | <b>021131A</b>  | 1              | 12,000       | 0,215                    |
| • Ø630 Acryl BL 1,5" multi. side valve | <b>021132A</b>  | 1              | 13,350       | 0,325                    |
| • Ø710 Acryl BL 2" multi. side valve   | <b>021133A</b>  | 1              | 18,500       | 0,440                    |
| • Ø900 Acryl BL 2" multi. side valve   | <b>021134A</b>  | 1              |              |                          |
| • Ø500 Acryl BL 1,5" multi. top valve  | <b>021131TA</b> | 1              | 11,514       | 0,215                    |
| • Ø630 Acryl BL 1,5" multi. top valve  | <b>021132TA</b> | 1              | 13,350       | 0,325                    |
| • Ø710 Acryl BL 2" multi. top valve    | <b>021133TA</b> | 1              | 18,500       | 0,440                    |
| • Ø900 Acryl BL 2" multi. top valve    | <b>021134TA</b> | 1              |              |                          |



## TECHNICAL CHARACTERISTICS

| MODEL                                                                       | 021131A | 021132A | 021133A | 021134A | 021131TA | 021132TA | 021133TA | 021134TA |
|-----------------------------------------------------------------------------|---------|---------|---------|---------|----------|----------|----------|----------|
| <b>D (mm)</b>                                                               | 500     | 630     | 710     | 900     | 500      | 630      | 710      | 900      |
| <b>H<sub>1</sub> (mm)</b>                                                   | 785     | 870     | 940     | 990     | 845      | 930      | 1030     | 1100     |
| <b>H<sub>2</sub> (mm)</b>                                                   | -       | -       | -       | -       | -        | -        | -        | -        |
| <b>H<sub>3</sub> (mm)</b>                                                   | 665     | 750     | 820     | 890     | 665      | 750      | 820      | 890      |
| <b>H<sub>4</sub> (mm)</b>                                                   | 430     | 475     | 510     | 550     | -        | -        | -        | -        |
| <b>H<sub>5</sub> (mm)</b>                                                   | 300     | 345     | 360     | 400     | -        | -        | -        | -        |
| <b>W (mm)</b>                                                               | 260     | 260     | 295     | 295     | -        | -        | -        | -        |
| <b>CONNECTIONS Ø (mm)</b>                                                   | 1,5"    | 1,5"    | 2"      | 2"      | 1,5"     | 1,5"     | 2"       | 2"       |
| <b>FLOW (m<sup>3</sup>/h)</b><br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max | 10      | 16      | 20      | 32      | 10       | 16       | 20       | 32       |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )                                      | 8       | 12      | 16      | 26      | 8        | 12       | 16       | 26       |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini                                 | 6       | 9       | 12      | 19      | 6        | 9        | 12       | 19       |
| <b>SAND (Kg)</b>                                                            | 100     | 150     | 250     | 450     | 100      | 150      | 250      | 450      |
| <b>NET WEIGHT (Kg)</b>                                                      | 12.000  | 13.350  | 18.500  | -       | 12.000   | 13.350   | 18.500   | -        |



Folding collector arms

# Injection Plastic Body Pool Filters

## “Injectrone” High Rate Sand Filters

### GEMAS “INJECTRONE” PLASTIC SAND FILTER.

Made of Injection plastic (PP). The upper and lower parts are joined with a special welding technique. As the bed depth is higher than other filter models, the filtration quality is considerably higher. Sand water discharge openings are available at both front and rear, installed w/discharge valve. Easy to open clear threaded lid (2 cm wider than bolted lid). Complete with multiport valve, fittings, and pressure gauge.

**5-years body warranty.** Test pressure 3,5 kg/cm<sup>2</sup>, maximum operation pressure 2,5 kg/cm<sup>2</sup>, Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.



Transparent threaded lid



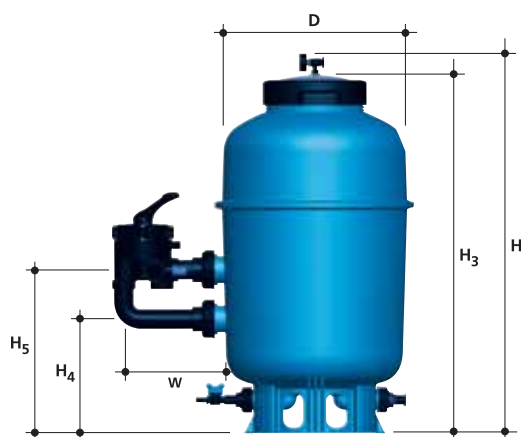
Side multiport valve



Water drainage with valve



Folding collector arms



### TECHNICAL CHARACTERISTICS

| MODEL                    | 0211011                                                                                                                             | 0211012       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------|
| D (mm)                   | 500                                                                                                                                 | 600           |
| H <sub>1</sub> (mm)      | 960                                                                                                                                 | 1030          |
| H <sub>2</sub> (mm)      | -                                                                                                                                   | -             |
| H <sub>3</sub> (mm)      | 910                                                                                                                                 | 980           |
| H <sub>4</sub> (mm)      | 290                                                                                                                                 | 320           |
| H <sub>5</sub> (mm)      | 415                                                                                                                                 | 445           |
| W (mm)                   | 260                                                                                                                                 | 260           |
| CONNECTIONS Ø (mm)       | 1,5"                                                                                                                                | 1,5"          |
| FLOW (m <sup>3</sup> /h) | (50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 14<br>11<br>8 |
| SAND (Kg)                | 125                                                                                                                                 | 170           |
| NET WEIGHT (Kg)          | 8.000                                                                                                                               | 11.000        |

# Injection Plastic Body Pool Filters

## “Fusion SL” High Rate Sand Filters

### GEMAS “FUSION SL” PLASTIC SAND FILTERS.

Made of Injection Plastic (PP). The upper and lower parts are joined with a special welding technique. Easy to open clear threaded lid (2 cm wider than bolted lid). Complete with multiport valve, fittings, and pressure gauge.

**2-years body warranty.** Test pressure 3.5 kg/cm<sup>2</sup>, maximum operation pressure 2,5 kg/cm<sup>2</sup>, Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.



0211211S



0211211S

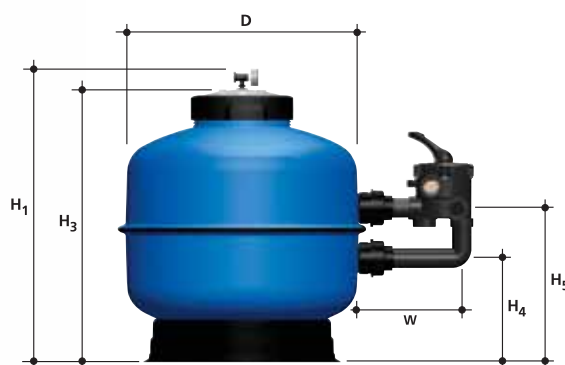


0211212ST



0211211ST

| Description                                        | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------|------------------|------------|-----------|-----------------------|
| • Ø500 mm - 10 m <sup>3</sup> /h 1,5" m. valve     | <b>0211211S</b>  | 1          | 11,700    | 0,200                 |
| • Ø600 mm - 14 m <sup>3</sup> /h 1,5" m. valve     | <b>0211212S</b>  | 1          | 15,700    | 0,325                 |
| • Ø500 mm - 10 m <sup>3</sup> /h 1,5" top m. valve | <b>0211211ST</b> | 1          | 12,000    | 0,200                 |
| • Ø600 mm - 14 m <sup>3</sup> /h 1,5" top m. valve | <b>0211212ST</b> | 1          | 16,000    | 0,325                 |



### TECHNICAL CHARACTERISTICS

| MODEL                                       | 0211211S | 0211212S | 0211211ST | 0211212ST |
|---------------------------------------------|----------|----------|-----------|-----------|
| D (mm)                                      | 500      | 600      | 500       | 600       |
| H <sub>1</sub> (mm)                         | 715      | 760      | 630       | 660       |
| H <sub>2</sub> (mm)                         | -        | -        | -         | -         |
| H <sub>3</sub> (mm)                         | 660      | 705      | 830       | 860       |
| H <sub>4</sub> (mm)                         | 260      | 280      | -         | -         |
| H <sub>5</sub> (mm)                         | 390      | 410      | -         | -         |
| W (mm)                                      | 260      | 260      | -         | -         |
| CONNECTIONS Ø (mm)                          | 1, 5"    | 1, 5"    | 1, 5"     | 1, 5"     |
| FLOW (m <sup>3</sup> /h)                    |          |          |           |           |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 10       | 14       | 10        | 14        |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 8        | 11       | 8         | 11        |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 6        | 8        | 6         | 8         |
| SAND (Kg)                                   | 75       | 100      | 75        | 100       |
| NET WEIGHT (Kg)                             | 7,000    | 14,000   | 7,000     | 14,000    |



Folding collector arms



# Rotational Plastic Body Pool Filters



Environment  
friendly

2 years  
Parts  
WARRANTY

## “Filtrone” High Rate Sand Filters

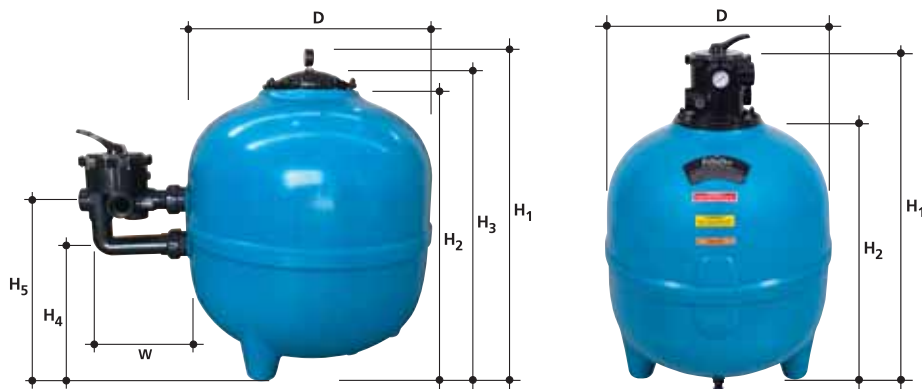
### GEMAS “FILTRONE” PLASTIC SAND FILTERS.

Filter shell made of PE Plastic by Rotational Moulding.  
One-piece body, including pressure gauge, side mounted multiport  
valve and air purge. Optional Transparent Bolted Lid.

**2-years body warranty.** Test pressure 3,5 kg/cm<sup>2</sup>.  
Max. operation pressure 2 kg/cm<sup>2</sup>. Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.

| Description                                               | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Ø560 mm - 13 m <sup>3</sup> /h 1,5" m. valve            | <b>021818</b> | 1              | 16,500       | 0,215                    |
| • Ø615 mm - 15 m <sup>3</sup> /h 1,5" m. valve            | <b>021813</b> | 1              | 19,500       | 0,325                    |
| • Ø760 mm - 23 m <sup>3</sup> /h 2" m. valve              | <b>021814</b> | 1              | 26,500       | 0,440                    |
| • Ø920 mm - 33 m <sup>3</sup> /h 2" m. valve              | <b>021815</b> | 1              | 37,500       | 0,790                    |
| • Ø560 mm - 13 m <sup>3</sup> /h 1,5" <b>top</b> m. valve | <b>021826</b> | 1              | 14,500       | 0,215                    |
| • Ø615 mm - 15 m <sup>3</sup> /h 1,5" <b>top</b> m. valve | <b>021823</b> | 1              | 19,500       | 0,325                    |
| • Ø760 mm - 23 m <sup>3</sup> /h 2" <b>top</b> m. valve   | <b>021824</b> | 1              | 24,500       | 0,440                    |
| • Ø920 mm - 33 m <sup>3</sup> /h 2" <b>top</b> m. valve   | <b>021825</b> | 1              | 35,500       | 0,790                    |

PS: Please add "TL" to the code when ordering.



### TECHNICAL CHARACTERISTICS

| MODEL                                       | 021818 | 021813 | 021814 | 021815 | 021826 | 021823 | 021824 | 021825 |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| D (mm)                                      | 560    | 615    | 760    | 920    | 560    | 615    | 760    | 920    |
| H <sub>1</sub> (mm)                         | 730    | 805    | 925    | 1085   | 800    | 875    | 995    | 1155   |
| H <sub>2</sub> (mm)                         | 610    | 680    | 805    | 965    | 610    | 680    | 805    | 965    |
| H <sub>3</sub> (mm)                         | 670    | 745    | 885    | 1025   | -      | -      | -      | -      |
| H <sub>4</sub> (mm)                         | 250    | 270    | 315    | 390    | -      | -      | -      | -      |
| H <sub>5</sub> (mm)                         | 420    | 400    | 465    | 540    | -      | -      | -      | -      |
| W (mm)                                      | 260    | 260    | 295    | 295    | -      | -      | -      | -      |
| CONNECTIONS Ø (mm)                          | 1,5"   | 1,5"   | 2"     | 2"     | 1,5"   | 1,5"   | 2"     | 2"     |
| FLOW (m <sup>3</sup> /h)                    |        |        |        |        |        |        |        |        |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 13     | 15     | 23     | 33     | 13     | 15     | 23     | 33     |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 10     | 12     | 18     | 26     | 10     | 12     | 18     | 26     |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 8      | 9      | 14     | 20     | 8      | 9      | 14     | 20     |
| SAND (Kg)                                   | 100    | 150    | 250    | 450    | 100    | 150    | 250    | 450    |
| NET WEIGHT (Kg)                             | 16,500 | 19,500 | 26,500 | 37,500 | 14,500 | 17,500 | 24,500 | 35,500 |



Transparent bolted lid  
(Optional) (Patented)



Water drainage

# Rotational Plastic Body Pool Filters

## “Filtrone L” High Rate Sand Filters

*Easy Sand Change !*



*Environment  
friendly*



### GEMAS “FILTRONE L” PE PLASTIC SAND FILTERS.

Filter shell made of PE Plastic by Rotational Moulding.  
One-piece body, large lid of 40 cm width including pressure gauge, side mounted multiport valve and air purge.

**2-years body warranty.** Test pressure 3,5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>. Filtration rate: 50 m<sup>3</sup>/h/m<sup>3</sup>.



021815LL



021817LL

*Ø 1000 Plastic Filter*



21816LL

*Unique in the Market*

| Description                                                                    | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Ø615 mm - Large lid.<br>1,5" multiport side valve - 15 m <sup>3</sup> /h     | <b>021813LL</b> | 1              | 23,000       | 0,325                    |
| • Ø760 mm - Large lid.<br>2" multiport side valve - 23 m <sup>3</sup> /h       | <b>021814LL</b> | 1              | 30,000       | 0,440                    |
| • Ø920 mm - Large lid.<br>2" multiport side valve - 33 m <sup>3</sup> /h       | <b>021815LL</b> | 1              | 48,000       | 0,790                    |
| • Ø1000 mm - Large lid. without<br>multiport valve 2,5" - 40 m <sup>3</sup> /h | <b>021817LL</b> | 1              | 55,000       | 0,930                    |
| • Ø1200 mm - Large lid. without<br>multiport valve 3" - 57 m <sup>3</sup> /h   | <b>021816LL</b> | 1              | 75,000       | 1,160                    |



### TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                           | 021813LL      | 021814LL       | 021815LL       | 021817LL       | 021816LL       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------------|----------------|----------------|
| D (mm)                                                                                                                                                          | 615           | 760            | 920            | 1000           | 1200           |
| H <sub>1</sub> (mm)                                                                                                                                             | 820           | 960            | 1110           | 1260           | 1310           |
| H <sub>2</sub> (mm)                                                                                                                                             | -             | -              | -              | -              | -              |
| H <sub>3</sub> (mm)                                                                                                                                             | 760           | 900            | 1050           | 1200           | 1250           |
| H <sub>4</sub> (mm)                                                                                                                                             | 280           | 310            | 375            | 480            | 475            |
| H <sub>5</sub> (mm)                                                                                                                                             | 410           | 460            | 525            | 730            | 685            |
| W (mm)                                                                                                                                                          | 260           | 295            | 295            | 480            | 480            |
| CONNECTIONS Ø (mm)                                                                                                                                              | 1, 5"         | 2"             | 2"             | 2, 5"          | 3"             |
| FLOW (m <sup>3</sup> /h)<br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 15<br>12<br>9 | 23<br>18<br>14 | 33<br>26<br>20 | 40<br>32<br>24 | 57<br>45<br>34 |
| SAND (Kg)                                                                                                                                                       | 125           | 250            | 450            | 700            | 1300           |
| NET WEIGHT (Kg)                                                                                                                                                 | 23,000        | 30,000         | 48,000         | 55,000         | 75,000         |

# Rotational Plastic Body Pool Filters



**Easy Sand Change !**

**Environment friendly**



**2 years  
Parts  
WARRANTY**

## “Filtrone LLT” High Rate Sand Filters

### GEMAS “FILTRONE LLT” PLASTIC SAND FILTERS.

Filter shell made of PE plastic by rotational molding.

Wide transparent threaded lid (400 mm inner diameter), complete with plastic opening handle, multiport valve, fittings, and pressure gauge. **2-years body warranty.**

Test pressure 3,5 kg/cm<sup>2</sup>, maximum operation pressure 2,5 kg/cm<sup>2</sup>, Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.

| Description                                                                    | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------------------------|------------------|----------------|--------------|--------------------------|
| • Ø615 mm - Large lid.<br>1,5" multiport side valve - 15 m <sup>3</sup> /h     | <b>021813LLT</b> | 1              | 25,000       | 0,325                    |
| • Ø760 mm - Large lid.<br>2" multiport side valve - 23 m <sup>3</sup> /h       | <b>021814LLT</b> | 1              | 32,000       | 0,440                    |
| • Ø920 mm - Large lid.<br>2" multiport side valve - 33 m <sup>3</sup> /h       | <b>021815LLT</b> | 1              | 50,000       | 0,790                    |
| • Ø1000 mm - Large lid. without<br>multiport valve 2,5" - 40 m <sup>3</sup> /h | <b>021817LLT</b> | 1              | 57,000       | 0,930                    |
| • Ditto, GEMAS 2,5" multiport valve                                            | <b>021817LTM</b> | 1              | 57,000       | 0,930                    |
| • Ø1200 mm - Large lid. without<br>multiport valve 3" - 57 m <sup>3</sup> /h   | <b>021816LLT</b> | 1              | 77,000       | 1,160                    |



Easy opening 40 cm  
wide transparent lid



## TECHNICAL CHARACTERISTICS

| MODEL                       | 021813LLT                                   | 021814LLT | 021815LLT | 021817LLT | 021816LLT |
|-----------------------------|---------------------------------------------|-----------|-----------|-----------|-----------|
| D (mm)                      | 615                                         | 760       | 920       | 1000      | 1200      |
| H <sub>1</sub> (mm)         | 820                                         | 960       | 1110      | 1260      | 1280      |
| H <sub>2</sub> (mm)         | -                                           | -         | -         | -         | -         |
| H <sub>3</sub> (mm)         | 760                                         | 900       | 1050      | 1200      | 1230      |
| H <sub>4</sub> (mm)         | 260                                         | 350       | 375       | 480       | 455       |
| H <sub>5</sub> (mm)         | 410                                         | 500       | 525       | 730       | 745       |
| W (mm)                      | 260                                         | 295       | 295       | 480       | 480       |
| CONNECTIONS Ø (mm)          | 1, 5"                                       | 2"        | 2"        | 2, 5"     | 3"        |
| FLOW<br>(m <sup>3</sup> /h) | (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 15        | 23        | 33        | 40        |
|                             | (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 12        | 18        | 26        | 32        |
|                             | (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 9         | 14        | 20        | 24        |
| SAND (Kg)                   | 125                                         | 250       | 450       | 700       | 1330      |
| NET WEIGHT (Kg)             | 25,000                                      | 32,000    | 50,000    | 57,000    | 77,000    |



021813LLT



021817LLT



# Rotational Plastic Body Pool Filters

## “Premium” High Rate Sand Filters

### GEMAS “PREMIUM” PE PLASTIC SAND FILTERS.

Filter shell made of PE Plastic by Rotational Moulding.

One-piece body, including pressure gauge, side or top mounted multiport valve and air purge. **2-years body warranty.**

Test pressure 3,5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>.

Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.



Ergonomic clamped lid



Side multiport valve and  
Water drainage



Folding collector arms

| Description                                                                  | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| <b>Top mounted (clamped) multiport valve</b>                                 |               |                |              |                          |
| • Ø400 mm - 7 m <sup>3</sup> /h                                              | <b>021921</b> | 1              | 9,000        | 0,140                    |
| • Ø500 mm - 10 m <sup>3</sup> /h                                             | <b>021922</b> | 1              | 12,000       | 0,200                    |
| • Ø615 mm - 15 m <sup>3</sup> /h                                             | <b>021923</b> | 1              | 16,000       | 0,325                    |
| <b>Side mounted multiport valve</b> Including clamped lid & side connections |               |                |              |                          |
| • Ø400 mm - 7 m <sup>3</sup> /h                                              | <b>021911</b> | 1              | 8,700        | 0,140                    |
| • Ø500 mm - 10 m <sup>3</sup> /h                                             | <b>021912</b> | 1              | 11,700       | 0,200                    |
| • Ø615 mm - 15 m <sup>3</sup> /h                                             | <b>021913</b> | 1              | 15,700       | 0,325                    |



### TECHNICAL CHARACTERISTICS

|                             | <i>Top mounted multiport valve</i>          |        |        | <i>Side mounted multiport valve</i> |        |        |
|-----------------------------|---------------------------------------------|--------|--------|-------------------------------------|--------|--------|
| MODEL                       | 021921                                      | 021922 | 021923 | 021911                              | 021912 | 021913 |
| D (mm)                      | 400                                         | 500    | 615    | 400                                 | 500    | 615    |
| H <sub>1</sub> (mm)         | 695                                         | 735    | 855    | 615                                 | 660    | 775    |
| H <sub>2</sub> (mm)         | 525                                         | 565    | 685    | -                                   | -      | -      |
| H <sub>3</sub> (mm)         | -                                           | -      | -      | 555                                 | 600    | 715    |
| H <sub>4</sub> (mm)         | -                                           | -      | -      | 200                                 | 220    | 280    |
| H <sub>5</sub> (mm)         | -                                           | -      | -      | 330                                 | 350    | 410    |
| W (mm)                      | -                                           | -      | -      | 260                                 | 260    | 260    |
| W1 (mm)                     | -                                           | -      | -      | -                                   | -      | -      |
| CONNECTIONS Ø (mm)          | 1, 5"                                       | 1, 5"  | 1, 5"  | 1, 5"                               | 1, 5"  | 1, 5"  |
| FLOW<br>(m <sup>3</sup> /h) | (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 7      | 10     | 15                                  | 7      | 10     |
|                             | (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 5      | 8      | 12                                  | 5      | 8      |
|                             | (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 4      | 6      | 9                                   | 4      | 6      |
| SAND (Kg)                   | 80                                          | 100    | 150    | 80                                  | 100    | 150    |
| NET WEIGHT (Kg)             | 9,000                                       | 12,000 | 16,000 | 8,700                               | 11,700 | 15,700 |

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# Rotational Plastic Body Pool Filters



## Deep Bed, Single / Multilayer Pool Filters

### GEMAS "FILTRONE-HB" PE PLASTIC SAND FILTERS.

Filter Shell made of PE plastic by rotational moulding. One-piece body, includes pressure gauge, 1,5" side mounted multiport valve and air purge. **2-years body warranty.** Collector with laterals. Test pressure 3,5 kg/cm<sup>2</sup>. Max. Operation ressure 2,5 kg/m<sup>2</sup>.



40 cm wide opening



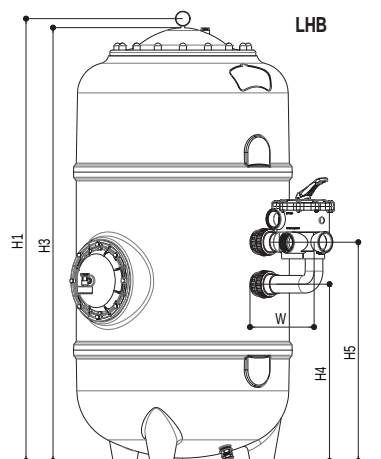
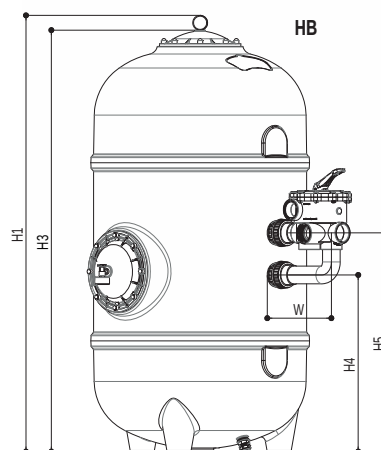
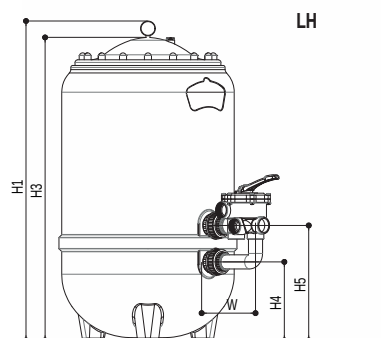
Folding collector arms

| Description                                                             | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------------------------------|------------------|------------|-----------|-----------------------|
| • Ø 560 mm, 1,5" Ç.Y. Vana                                              | <b>021818HB</b>  | 1          |           |                       |
| • Ø 560 mm, Large Lid, 1,5" multiport valve                             | <b>021818LHB</b> | 1          |           |                       |
| 10 m <sup>3</sup> /h w/single layer - 13 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |
| • Ø 615 mm Large Lid, 15 m <sup>3</sup> /h                              | <b>021813LH</b>  | 1          | 31,000    | 0,444                 |
| Medium deep - 1,5" multiport side valve                                 |                  |            |           |                       |
| • Ø 615 mm - 1,5" multiport valve                                       | <b>021813HB</b>  | 1          | 35,200    | 0,584                 |
| • Ø 615 mm - 1,5" multiport valve                                       | <b>021813LHB</b> | 1          | 55,000    | 0,852                 |
| 12 m <sup>3</sup> /h w/single layer - 15 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |
| • Ø 760 mm - 2" multiport valve                                         | <b>021814HB</b>  | 1          |           |                       |
| 18 m <sup>3</sup> /h w/single layer - 23 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |
| • Ø 760 mm - 2" multiport valve                                         | <b>021814LHB</b> | 1          |           |                       |
| 18 m <sup>3</sup> /h w/single layer - 23 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |
| • Ø 920 mm - 2" multiport valve                                         | <b>021815HB</b>  | 1          |           |                       |
| 26 m <sup>3</sup> /h w/single layer - 33 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |
| • Ø 920 mm - 2" multiport valve                                         | <b>021815LHB</b> | 1          |           |                       |
| 26 m <sup>3</sup> /h w/single layer - 33 m <sup>3</sup> /h w/multilayer |                  |            |           |                       |

**PS:** All Filtrone Models are resistant against Ozone.

## TECHNICAL CHARACTERISTICS

| MODEL                                                           | 021818HB | 021818LHB | 021813LH | 021813HB | 021813LHB | 021814HB | 021814LHB | 021815HB | 021815LHB |
|-----------------------------------------------------------------|----------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|
| D (mm)                                                          | 560      | 560       | 615      | 615      | 615       | 760      | 760       | 920      | 920       |
| H <sub>1</sub> (mm)                                             | 1460     | 1460      | 1140     | 1510     | 1560      | 1560     | 1610      | 1610     | 1660      |
| H <sub>3</sub> (mm)                                             | 1410     | 1410      | 1080     | 1460     | 1500      | 1510     | 1550      | 1650     | 1600      |
| H <sub>4</sub> (mm)                                             | 600      | 600       | 280      | 580      | 580       | 630      | 630       | 650      | 650       |
| H <sub>5</sub> (mm)                                             | 730      | 730       | 410      | 710      | 710       | 780      | 780       | 800      | 800       |
| W (mm)                                                          | 260      | 260       | 260      | 260      | 260       | 295      | 295       | 295      | 295       |
| CONNECTIONS (Ø)                                                 | 1,5"     | 1,5"      | 1,5"     | 1,5"     | 1,5"      | 2"       | 2"        | 2"       | 2"        |
| FLOW (m <sup>3</sup> /h) (50 m <sup>3</sup> /h/m <sup>2</sup> ) | 13       | 13        | 15       | 15       | 15        | 23       | 23        | 33       | 33        |
| FLOW (m <sup>3</sup> /h) (40 m <sup>3</sup> /h/m <sup>2</sup> ) | 10       | 10        | 12       | 12       | 12        | 18       | 18        | 26       | 26        |
| FLOW (m <sup>3</sup> /h) (30 m <sup>3</sup> /h/m <sup>2</sup> ) | 8        | 8         | 9        | 9        | 9         | 14       | 14        | 20       | 20        |
| ANTHRACITE 0,8 - 1,6 mm (lt)                                    | 70       | 70        | -        | 100      | 100       | 130      | 130       | 200      | 200       |
| QUARTZ SAND 0,5 - 1 mm (Kg)                                     | 175      | 175       | -        | 200      | 200       | 300      | 300       | 300      | 300       |
| QUARTZ SAND 1 - 3 mm (Kg)                                       | 50       | 50        | -        | 100      | 100       | 130      | 130       | 150      | 150       |
| NET WEIGHT (Kg)                                                 |          |           | 31,000   | 34,250   | 37,150    |          |           |          |           |



# Composite Body Pool Filters

## “Turbidron-BL” Bobbin Wound Sand Filters

### GEMAS “TURBIDRON BL” SAND FILTERS.

Filter shell made of ABS plastic and reinforced by fiberglass bobbin winding outside. Size Ø830 mm and above filter plastic shell is made of one piece. ROTOMOLDED PE inner shell and bobbin winding outside. Filter lid is with bolts. Complete with pressure gauge, air purge and side mounted multiport valve. Test pressure 4,0 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>. Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>. **2-years body warranty.**



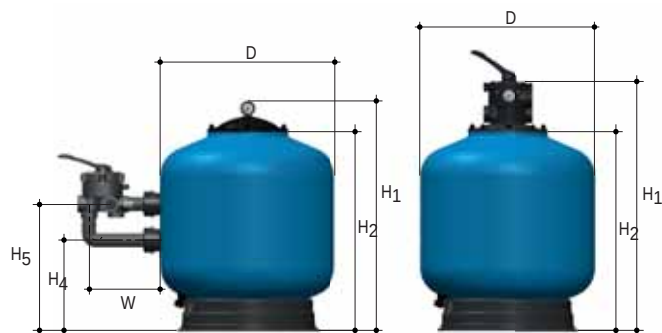
Transparent bolted lid  
(Optional) (Patented)



| Description                                             | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø 500 mm - 10 m <sup>3</sup> /h 1,5" multiport valve  | <b>021712</b>  | 1              | 17,000       | 0,215                    |
| • Ø 630 mm - 16 m <sup>3</sup> /h 1,5" multiport valve  | <b>021713</b>  | 1              | 20,000       | 0,325                    |
| • Ø 710 mm - 20 m <sup>3</sup> /h 2" multiport valve    | <b>021714</b>  | 1              | 32,000       | 0,440                    |
| • Ø 830 mm - 27 m <sup>3</sup> /h 2" multiport valve    | <b>021715</b>  | 1              | 38,000       | 0,660                    |
| • Ø 900 mm - 32 m <sup>3</sup> /h 2" multiport valve    | <b>021716</b>  | 1              | 47,000       | 0,790                    |
| • Ø 1000 mm - 40 m <sup>3</sup> /h 2,5" multiport valve | <b>021717M</b> | 1              | 58,000       | 0,930                    |
| • Ø 1000 mm - 40 m <sup>3</sup> /h 2,5" without m.v     | <b>021717</b>  | 1              | 58,000       | 0,930                    |

**PS:** All models have a transparent bolted lid. Please add "LT" to the code when ordering.

|                                                            |                |   |        |       |
|------------------------------------------------------------|----------------|---|--------|-------|
| • Ø 500 mm - 10 m <sup>3</sup> /h 1,5" top multiport valve | <b>021712T</b> | 1 | 15,000 | 0,215 |
| • Ø 630 mm - 16 m <sup>3</sup> /h 1,5" top multiport valve | <b>021713T</b> | 1 | 18,000 | 0,325 |
| • Ø 710 mm - 20 m <sup>3</sup> /h 2" top multiport valve   | <b>021714T</b> | 1 | 30,000 | 0,440 |
| • Ø 830 mm - 27 m <sup>3</sup> /h 2" top multiport valve   | <b>021715T</b> | 1 | 36,000 | 0,660 |
| • Ø 900 mm - 32 m <sup>3</sup> /h 2" top multiport valve   | <b>021716T</b> | 1 | 45,000 | 0,790 |



### TECHNICAL CHARACTERISTICS

| MODEL                       | 021712                                      | 021713 | 021714 | 021715 | 021716 | 021717M | 021712T | 021713T | 021714T | 021715T | 021716T |
|-----------------------------|---------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| D (mm)                      | 500                                         | 630    | 710    | 830    | 900    | 1000    | 500     | 630     | 710     | 830     | 900     |
| H <sub>1</sub> (mm)         | 750                                         | 830    | 880    | 940    | 990    | 1050    | 810     | 890     | 980     | 1030    | 1080    |
| H <sub>2</sub> (mm)         | 630                                         | 710    | 770    | 820    | 870    | 930     | 630     | 710     | 770     | 820     | 870     |
| H <sub>3</sub> (mm)         | 300                                         | 325    | 350    | 350    | 400    | 375     | -       | -       | -       | -       | -       |
| H <sub>4</sub> (mm)         | 430                                         | 455    | 500    | 500    | 550    | 645     | -       | -       | -       | -       | -       |
| W (mm)                      | 260                                         | 260    | 295    | 205    | 295    | 370     | -       | -       | -       | -       | -       |
| CONNECT. Ø (mm)             | 1,5"                                        | 1,5"   | 2"     | 2"     | 2"     | 2,5"    | 1,5"    | 1,5"    | 2"      | 2"      | 2"      |
| FLOW<br>(m <sup>3</sup> /h) | (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 10     | 16     | 20     | 27     | 32      | 10      | 16      | 20      | 27      | 32      |
|                             | (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 8      | 12     | 16     | 22     | 26      | 8       | 12      | 16      | 22      | 26      |
|                             | (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 6      | 9      | 12     | 16     | 19      | 6       | 9       | 12      | 16      | 19      |
| SAND (Kg)                   | 100                                         | 150    | 250    | 350    | 450    | 700     | 100     | 150     | 250     | 350     | 450     |
| NET WEIGHT (Kg)             | 10,200                                      | 20,000 | 32,000 | 38,000 | 47,000 | 58,000  | 10,000  | 20,000  | 30,000  | 36,000  | 45,000  |



# Composite Body Pool Filters



## “Turbidron-CL” Bobbin Wound Sand Filters

### GEMAS “TURBIDRON CL” SIDE MOUNTED SAND FILTERS.

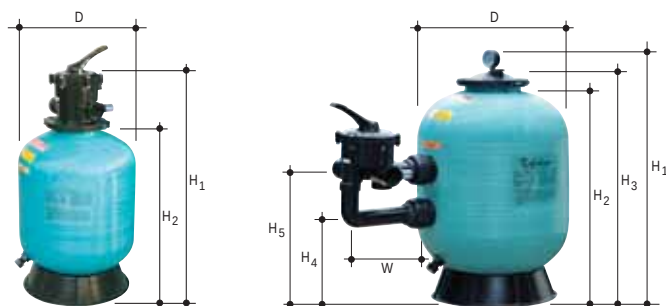
Clamped Lid. Made of PE plastic core, fiberglass bobbin wound.

Complete with pressure gauge, 1,5" side mounted multiport valve and air purge.

Test pressure 4,0 kg/cm<sup>2</sup>. Max. Operation pressure 2,5 kg/m<sup>2</sup>. Filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.

**2-years body warranty.**

| Description                                                         | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø400 mm -1,5" side mounted multiport valve - 7 m <sup>3</sup> /h  | <b>021311B</b> | 1              | 7,700        | 0,145                    |
| • Ø500 mm -1,5" side mounted multiport valve - 10 m <sup>3</sup> /h | <b>021312B</b> | 1              | 9,200        | 0,145                    |



### GEMAS “TURBIDRON CL” MOUNTED SAND FILTERS.

Made of PE plastic shell wound by fiberglass bobbin; complete with pressure gauge and multiport valve. Max. operation pressure 2,5 kg/cm<sup>2</sup>. Test pressure 4,0 kg/cm<sup>2</sup>.

Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>. **2-years body warranty.**

| Description                                                        | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø400 mm -1,5" top mounted multiport valve - 7 m <sup>3</sup> /h  | <b>021321B</b> | 1              | 8,000        | 0,145                    |
| • Ø500 mm -1,5" top mounted multiport valve - 10 m <sup>3</sup> /h | <b>021322B</b> | 1              | 9,500        | 0,145                    |



## TECHNICAL CHARACTERISTICS

|                                                 | Top mounted multiport valve |         | Side mounted multiport valve |         |
|-------------------------------------------------|-----------------------------|---------|------------------------------|---------|
| MODEL                                           | 021321B                     | 021322B | 021311B                      | 021312B |
| D (mm)                                          | 400                         | 500     | 400                          | 500     |
| H <sub>1</sub> (mm)                             | 815                         | 940     | 670                          | 800     |
| H <sub>2</sub> (mm)                             | 580                         | 705     | 580                          | 705     |
| H <sub>3</sub> (mm)                             | -                           | -       | 610                          | 740     |
| H <sub>4</sub> (mm)                             | -                           | -       | 240                          | 300     |
| H <sub>5</sub> (mm)                             | -                           | -       | 385                          | 440     |
| W (mm)                                          | -                           | -       | 260                          | 260     |
| CONNECTIONS Ø (mm)                              | 1,5"                        | 1,5"    | 1,5"                         | 1,5"    |
| FLOW (50 m <sup>3</sup> /h/m <sup>2</sup> ) max | 7                           | 10      | 7                            | 10      |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )          | 5                           | 8       | 5                            | 8       |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini     | 4                           | 6       | 4                            | 6       |
| SAND (Kg)                                       | 80                          | 100     | 80                           | 100     |
| NET WEIGHT (Kg)                                 | 8,000                       | 10,500  | 7,700                        | 10,200  |



Folding collector arms

# Composite Body Pool Filters

## “Turbidron-SL” Bobbin Wound Filters



### GEMAS “TURBIDRON-SL” SIDE MOUNTED POOL SAND FILTERS.

Filter shell made of smooth ABS plastic that reduces algae and bacteria adhesion. Complete with Easy opening "threaded lid", large and transparent lid (diameter is 2 cm larger than bolted lid), Complete with pressure gauge and side mounted multiport valve.

**OPTIONAL LIGHTING TOUCHPAD BUTTON WITH BATTERY** to observe inside the filter. Maximum Working Pressure 2,5 kg/cm<sup>2</sup>. Test Pressure 4 kg/cm<sup>2</sup>. Filtration Rate 50 m<sup>3</sup>/h/m<sup>2</sup>. **2-years body warranty.**



Easy opening "threaded lid"



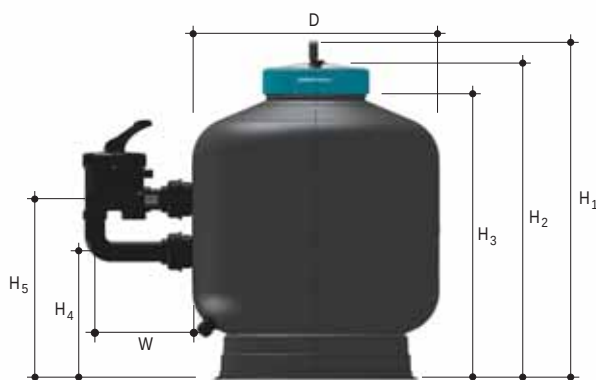
LED lighting transparent lid  
(Optional)



Side multiport valve and  
Water drainage

| Description                                             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Ø500 mm - 10 m <sup>3</sup> /h 1,5" m.valve           | <b>021712S</b>  | 1              | 17,000       | 0,215                    |
| • Ø630 mm - 16 m <sup>3</sup> /h 1,5" m.valve           | <b>021713S</b>  | 1              | 20,000       | 0,325                    |
| • Ø710 mm - 20 m <sup>3</sup> /h 2" m.valve             | <b>021714S</b>  | 1              | 32,000       | 0,440                    |
| • Ø830 mm - 27 m <sup>3</sup> /h 2" m.valve             | <b>021715S</b>  | 1              | 38,000       | 0,660                    |
| • Ø900 mm - 32 m <sup>3</sup> /h 2" m.valve             | <b>021716S</b>  | 1              | 47,000       | 0,790                    |
| • Ø1000 mm - 40 m <sup>3</sup> /h 2,5" without m.valve. | <b>021717S</b>  | 1              | 58,000       | 0,930                    |
| • Ø1000 mm - 40 m <sup>3</sup> /h 2,5" m.valve          | <b>021717SM</b> | 1              | 58,000       | 0,930                    |

**PS:** Additional €30 for lighting. Please add "L" to the code when ordering.



### TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                                | 021712S      | 021713S       | 021714S        | 021715S        | 021716S        | 021717S        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------------|----------------|----------------|----------------|
| <b>D (mm)</b>                                                                                                                                                        | 500          | 630           | 710            | 830            | 900            | 1000           |
| <b>H<sub>1</sub> (mm)</b>                                                                                                                                            | 750          | 865           | 920            | 910            | 1010           | 1305           |
| <b>H<sub>2</sub> (mm)</b>                                                                                                                                            | 690          | 815           | 860            | 870            | 960            | 1245           |
| <b>H<sub>3</sub> (mm)</b>                                                                                                                                            | 610          | 730           | 780            | 795            | 875            | 1185           |
| <b>H<sub>4</sub> (mm)</b>                                                                                                                                            | 300          | -             | 350            | 350            | 390            | 500            |
| <b>H<sub>5</sub> (mm)</b>                                                                                                                                            | 430          | -             | 500            | 500            | 540            | 830            |
| <b>W (mm)</b>                                                                                                                                                        | 260          | 260           | 295            | 295            | 295            | -              |
| <b>CONNECTIONS Ø (mm)</b>                                                                                                                                            | 1,5"         | 1,5"          | 2"             | 2"             | 2"             | 2,5"           |
| <b>FLOW (m<sup>3</sup>/h)</b><br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 10<br>8<br>6 | 16<br>12<br>9 | 20<br>16<br>12 | 27<br>22<br>16 | 32<br>26<br>19 | 40<br>32<br>24 |
| <b>SAND (Kg)</b>                                                                                                                                                     | 100          | 150           | 250            | 350            | 450            | 700            |
| <b>NET WEIGHT (Kg)</b>                                                                                                                                               | 17,300       | 20,300        | 32,000         | 38,300         | 47,300         | 58,300         |

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# Composite Body Pool Filters



**Easy Sand Change !**



## “Broadex” High Rate Sand Filters

### GEMAS “BROADEX” POOL SAND FILTERS.

Made of FRP. Wide transparent threaded lid (400 mm inner diameter), complete with plastic opening handle, multiport valve, fittings and pressure gauge. Test pressure 3,5 kg/cm<sup>2</sup>, maximum operation pressure 2,5 kg/cm<sup>2</sup>, Maximum filtration rate 50 m<sup>3</sup>/h/m<sup>2</sup>.

**2-years shell warranty.**

| Description                                           | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------|------------------|----------------|--------------|--------------------------|
| • Ø560 mm Large Lid - 1,5"                            | <b>021112LLT</b> | 1              | 20,000       | 0,215                    |
| side mounted multiport valve - 13 m <sup>3</sup> /h   |                  |                |              |                          |
| • Ø615 mm Large Lid - 1,5"                            | <b>021113LLT</b> | 1              | 25,000       | 0,325                    |
| side mounted multiport valve - 15 m <sup>3</sup> /h   |                  |                |              |                          |
| • Ø760 mm Large Lid - 2"                              | <b>021114LLT</b> | 1              | 32,000       | 0,440                    |
| side mounted multiport valve - 23 m <sup>3</sup> /h   |                  |                |              |                          |
| • Ø830 mm Large Lid - 2"                              | <b>021115LLT</b> | 1              | 40,000       | 0,660                    |
| side mounted multiport valve - 27 m <sup>3</sup> /h   |                  |                |              |                          |
| • Ø920 mm Large Lid - 2"                              | <b>021116LLT</b> | 1              | 50,000       | 0,790                    |
| side mounted multiport valve - 33 m <sup>3</sup> /h   |                  |                |              |                          |
| • Ø1000 mm Large Lid                                  | <b>021117LLT</b> | 1              | 70,000       | 0,930                    |
| without valve, 2,5" connection - 40 m <sup>3</sup> /h |                  |                |              |                          |
| • Ø1200 mm Large Lid                                  | <b>021216LLT</b> | 1              | 80,000       | 1,160                    |
| without valve, 3" connection - 57 m <sup>3</sup> /h   |                  |                |              |                          |



Easy opening 40 cm wide transparent lid



Side multiport valve

## TECHNICAL CHARACTERISTICS

| MODEL                                       | 021112LLT | 021113LLT | 021114LLT | 021115LLT | 021116LLT | 021117LLT | 021216LLT |
|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| D (mm)                                      | 560       | 615       | 760       | 830       | 920       | 1000      | 1200      |
| H <sub>1</sub> (mm)                         | 800       | 830       | 960       | 1030      | 1140      | 1375      | 1280      |
| H <sub>2</sub> (mm)                         | -         | -         | -         | -         | -         | -         | -         |
| H <sub>3</sub> (mm)                         | 740       | 780       | 900       | 970       | 1035      | 1325      | 1230      |
| H <sub>4</sub> (mm)                         | 285       | 345       | 350       | 360       | 450       | 515       | 455       |
| H <sub>5</sub> (mm)                         | 420       | 475       | 500       | 510       | 600       | 845       | 745       |
| W (mm)                                      | 260       | 260       | 295       | 295       | 295       | 480       | 480       |
| CONNECTIONS Ø (mm)                          | 1,5"      | 1,5"      | 2"        | 2"        | 2"        | 2,5"      | 3"        |
| FLOW (m <sup>3</sup> /h)                    |           |           |           |           |           |           |           |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 13        | 15        | 23        | 27        | 33        | 40        | 57        |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 10        | 12        | 18        | 22        | 26        | 32        | 45        |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 8         | 9         | 14        | 16        | 20        | 24        | 34        |
| SAND (Kg)                                   | 100       | 125       | 250       | 350       | 450       | 725       | 1330      |
| NET WEIGHT (Kg)                             | 20,000    | 25,000    | 32,000    | 40,000    | 50,000    | 70,000    | 80,000    |



# Composite Body Pool Filters



## “Filtrex 2025” High Rate Sand Filters

### GEMAS “FILTREX 2025” SAND FILTERS.

Filter Shell Made of Smooth ABS plastic laminated with FRP, outer surface is arylc. Monobloc outlook has been produced by an unique technic. Complete with pressure gauge and side mounted multiport valve.

Maximum Working Pressure 2,5 kg /cm<sup>2</sup>. Test Pressure 4 kg/cm<sup>2</sup>. Filtration Rate 50 m<sup>3</sup>/h/m<sup>2</sup>. **Transparent Bolted Lid (optional). 2-year warranty.**



Couplings compatible with d50  
Fitvalf ball valve handle



Side multiport valve

Transparent bolted lid  
(Optional) (Patented)

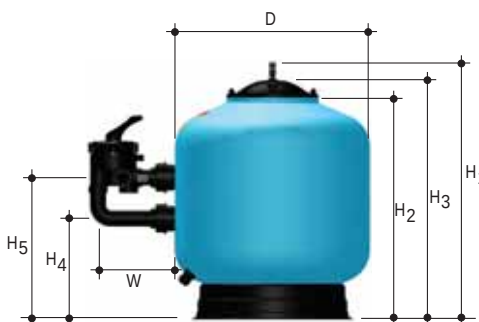


Top valve



| Description                                                 | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø500 mm - 1,5" multiport side valve -10 m <sup>3</sup> /h | <b>021610</b>  | 1              | 19,000       | 0,215                    |
| • Ø630 mm - 1,5" multiport side valve -16 m <sup>3</sup> /h | <b>021611</b>  | 1              | 23,000       | 0,325                    |
| • Ø710 mm - 2" multiport side valve - 20 m <sup>3</sup> /h  | <b>021612</b>  | 1              | 35,000       | 0,440                    |
| • Ø900 mm - 2" multiport side valve - 32 m <sup>3</sup> /h  | <b>021613</b>  | 1              |              |                          |
| • Ø500 mm - 1,5" multiport top valve -10 m <sup>3</sup> /h  | <b>021610T</b> | 1              | 17,000       | 0,215                    |
| • Ø630 mm - 1,5" multiport top valve -16 m <sup>3</sup> /h  | <b>021611T</b> | 1              | 21,000       | 0,325                    |
| • Ø710 mm - 2" multiport top valve - 20 m <sup>3</sup> /h   | <b>021612T</b> | 1              | 33,000       | 0,440                    |
| • Ø900 mm - 2" multiport top valve - 32 m <sup>3</sup> /h   | <b>021613T</b> | 1              |              |                          |

PS: Please add "TL" to the code when ordering.



### TECHNICAL CHARACTERISTICS

| MODEL                                       | 021610 | 021611 | 021612 | 021613 | 021610T | 021611T | 021612T | 021613T |
|---------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|
| <b>D (mm)</b>                               | 500    | 630    | 710    | 900    | 500     | 630     | 710     | 900     |
| <b>H<sub>1</sub> (mm)</b>                   | 750    | 820    | 890    | 890    | 820     | 890     | 960     | 960     |
| <b>H<sub>2</sub> (mm)</b>                   | 640    | 710    | 780    | 780    | 630     | 710     | 770     | 770     |
| <b>H<sub>3</sub> (mm)</b>                   | 700    | 760    | 840    | 840    | -       | -       | -       | -       |
| <b>H<sub>4</sub> (mm)</b>                   | 300    | 325    | 340    | 340    | -       | -       | -       | -       |
| <b>H<sub>5</sub> (mm)</b>                   | 430    | 455    | 490    | 490    | -       | -       | -       | -       |
| <b>W (mm)</b>                               | 260    | 260    | 295    | 295    | 260     | 260     | 295     | 295     |
| <b>CONNECTIONS Ø (mm)</b>                   | 1,5"   | 1,5"   | 2"     | 2"     | 1,5"    | 1,5"    | 2"      | 2"      |
| <b>FLOW (m<sup>3</sup>/h)</b>               |        |        |        |        |         |         |         |         |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 10     | 16     | 20     | 32     | 10      | 16      | 20      | 32      |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 8      | 12     | 16     | 26     | 8       | 12      | 16      | 26      |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 6      | 9      | 12     | 19     | 6       | 9       | 12      | 19      |
| <b>SAND (Kg)</b>                            | 100    | 150    | 250    | 250    | 100     | 150     | 250     | 250     |
| <b>NET WEIGHT (Kg)</b>                      | 19,000 | 23,000 | 35,000 | 35,000 | 17,000  | 21,000  | 33,000  | 33,000  |

## “Monocon” Pool Sand Filters

### GEMAS “MONOCON” POOL SAND FILTER.

Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm<sup>2</sup>. Test pressure: 3.5 kg/cm<sup>2</sup>. 2-years warranty. All models have side valve connection. **Both connections of the filter are on the bottom shell of the filter.** Filtration Rate: 50 m<sup>3</sup>/h/m<sup>2</sup>. Transparent Bolted Lid (optional). 



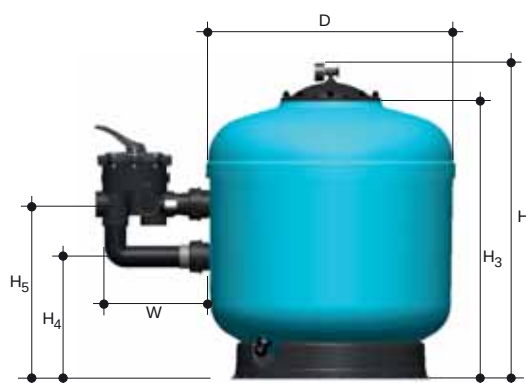
021145



Transparent bolted lid  
(Optional) (Patented)



021145



PS: Please add "TL" to the code when ordering.

### TECHNICAL CHARACTERISTICS

|                 | MODEL               | 021140 | 021141 | 021142 | 021143 | 021144 | 021145 | 021146 |
|-----------------|---------------------|--------|--------|--------|--------|--------|--------|--------|
|                 | D (mm)              | 450    | 500    | 630    | 710    | 830    | 900    | 1000   |
|                 | H <sub>1</sub> (mm) | 675    | 725    | 770    | 920    | 940    | 1000   | 1060   |
|                 | H <sub>2</sub> (mm) | -      | -      | -      | -      | -      | -      | -      |
|                 | H <sub>3</sub> (mm) | 565    | 615    | 660    | 810    | 830    | 890    | 950    |
|                 | H <sub>4</sub> (mm) | 245    | 245    | 280    | 340    | 380    | 415    | 330    |
|                 | H <sub>5</sub> (mm) | 375    | 375    | 410    | 490    | 530    | 565    | 575    |
|                 | W (mm)              | 260    | 260    | 260    | 295    | 295    | 295    | 370    |
|                 | CONNECTIONS Ø(mm)   | 1,5"   | 1,5"   | 1,5"   | 2"     | 2"     | 2"     | 2,5"   |
| FLOW<br>(m³/h)  | (50 m³/h/m²) max    | 8      | 10     | 16     | 27     | 27     | 32     | 40     |
|                 | (40 m³/h/m²)        | 6      | 8      | 12     | 22     | 22     | 26     | 32     |
|                 | (30 m³/h/m²) mini   | 5      | 6      | 9      | 19     | 16     | 19     | 24     |
|                 | SAND (Kg)           | 80     | 100    | 150    | 250    | 350    | 450    | 600    |
| NET WEIGHT (Kg) |                     |        |        |        |        |        |        |        |



Side multiport valve



## “Monocon” Pool Sand Filters

### GEMAS “MONOCON” POOL SAND FILTER.

Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm<sup>2</sup>. Test pressure: 3.5 kg/cm<sup>2</sup>. 2-year warranty.

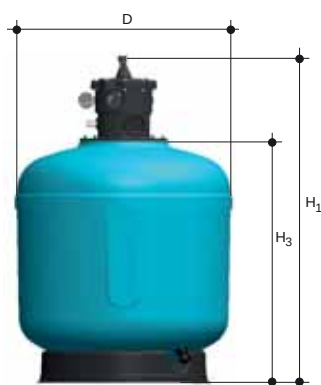
All models have top valve connection.

Filtration Rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.

| Description                         | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø 450 mm - 1,5" Multi. Top Valve  | <b>021140T</b> | 1              |              |                          |
| • Ø 500 mm - 1,5" Multi. Top Valve  | <b>021141T</b> | 1              | 15,500       | 0,215                    |
| • Ø 630 mm - 1,5" Multi. Top Valve  | <b>021142T</b> | 1              | 20,000       | 0,325                    |
| • Ø 710 mm - 2" Multi. Top Valve    | <b>021143T</b> | 1              |              |                          |
| • Ø 830 mm - 2" Multi. Top Valve    | <b>021144T</b> | 1              |              |                          |
| • Ø 900 mm - 2" Multi. Top Valve    | <b>021145T</b> | 1              |              |                          |
| • Ø 1000 mm - 2,5" Multi. Top Valve | <b>021146T</b> |                |              |                          |



Top bolted lid  
(Optional)



Water drainage

## TECHNICAL CHARACTERISTICS

| MODEL                                       | 021140T | 021141T | 021142T | 021143T | 021144T | 021145T | 021146T |
|---------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| D (mm)                                      | 450     | 500     | 630     | 710     | 830     | 900     | 1000    |
| H <sub>1</sub> (mm)                         | 745     | 795     | 840     | 1020    | 1040    | 1100    | 1160    |
| H <sub>2</sub> (mm)                         | -       | -       | -       | -       | -       | -       | -       |
| H <sub>3</sub> (mm)                         | 565     | 615     | 660     | 810     | 830     | 890     | 950     |
| H <sub>4</sub> (mm)                         | -       | -       | -       | -       | -       | -       | -       |
| W (mm)                                      | -       | -       | -       | -       | -       | -       | -       |
| CONNECTIONS Ø(mm)                           | 1,5"    | 1,5"    | 1,5"    | 2"      | 2"      | 2"      | 2,5"    |
| FLOW (m <sup>3</sup> /h)                    |         |         |         |         |         |         |         |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 8       | 10      | 16      | 20      | 27      | 32      | 40      |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 6       | 8       | 12      | 16      | 22      | 26      | 32      |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 5       | 6       | 9       | 12      | 16      | 19      | 24      |
| SAND (Kg)                                   | 80      | 100     | 150     | 250     | 350     | 450     | 600     |
| NET WEIGHT (Kg)                             |         |         |         |         |         |         |         |



## “Monocon TLL” Pool Sand Filters

### GEMAS “MONOCON TLL” POOL SAND FILTER

Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm<sup>2</sup>. Test pressure: 3.5 kg/cm<sup>2</sup>. 2-years warranty. All models have side valve connection. **Both connections of the filter are on the bottom shell of the filter.** Filtration Rate: 50 m<sup>3</sup>/h/m<sup>2</sup>. Transparent large bolted lid.

**NEW!**

**2 years  
Parts  
WARRANTY**

CE



021142TLL

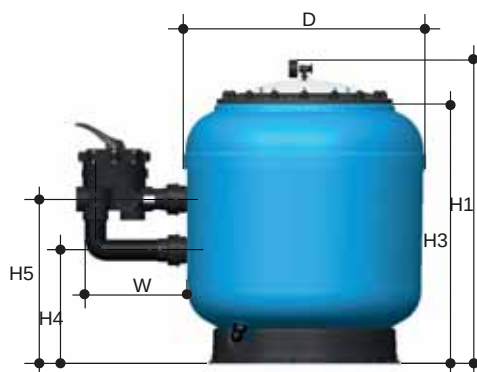


Transparent large bolted lid

| Description                                                 | Code             | Pieces/box |
|-------------------------------------------------------------|------------------|------------|
| • Ø500 1,5" Multi. Side Valve and Wide Transparent Lid      | <b>021141TLL</b> | 1          |
| • Ø630 1,5" Multi. Side Valve and Wide Transparent Lid      | <b>021142TLL</b> | 1          |
| • Ø710 2" Multi. Side Valve and Wide Transparent Lid        | <b>021143TLL</b> | 1          |
| • Ø830 2" Multi. Side Valve and Wide Transparent Lid        | <b>021144TLL</b> | 1          |
| • Ø900 2" Multi. Side Valve and Wide Transparent Lid        | <b>021145TLL</b> | 1          |
| • Ø1000 2,5" Multi. Side without Valve Wide Transparent Lid | <b>021146TLL</b> | 1          |
| • Ø1200 3" Multi. Side without Valve Wide Transparent Lid   | <b>021147TLL</b> | 1          |



021146TLL



### TECHNICAL CHARACTERISTICS

| MODEL               | Ø500              | Ø630 | Ø710 | Ø830 | Ø900 | Ø1000 | Ø1200 |    |
|---------------------|-------------------|------|------|------|------|-------|-------|----|
| D (mm)              | 500               | 630  | 710  | 830  | 900  | 1000  | 1200  |    |
| H <sub>1</sub> (mm) | 775               | 895  | 940  | 960  | 1020 | 1080  | 1230  |    |
| H <sub>2</sub> (mm) | -                 | -    | -    | -    | -    | -     | -     |    |
| H <sub>3</sub> (mm) | 665               | 765  | 810  | 830  | 890  | 950   | 1100  |    |
| H <sub>4</sub> (mm) | 305               | 310  | 340  | 380  | 415  | 330   | 430   |    |
| H <sub>5</sub> (mm) | 435               | 440  | 490  | 530  | 565  | 575   | 680   |    |
| W (mm)              | 260               | 260  | 295  | 295  | 295  | 370   | -     |    |
| CONNECTIONS Ø(mm)   | 1,5"              | 1,5" | 2"   | 2"   | 2"   | 2,5"  | 3"    |    |
| FLOW<br>(m³/h)      | (50 m³/h/m²) max  | 10   | 16   | 20   | 27   | 32    | 40    | 57 |
|                     | (40 m³/h/m²)      | 8    | 12   | 16   | 22   | 26    | 32    | 45 |
|                     | (30 m³/h/m²) mini | 6    | 9    | 12   | 16   | 19    | 24    | 34 |
| SAND (Kg)           | 100               | 175  | 275  | 375  | 450  | 600   | 950   |    |
| NET WEIGHT (Kg)     |                   |      |      |      |      |       |       |    |



021142TLLH

**NEW !**
**2 years  
Parts  
WARRANTY**

## Monocon TLLH" Pool Sand Filters

### GEMAS "MONOCON TLLH" POOL SAND FILTER

Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm<sup>2</sup>. Test pressure: 3.5 kg/cm<sup>2</sup>. 2-years warranty.

All models have side valve connection. **Both connections of the filter are on the bottom shell of the filter.** Filtration Rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.

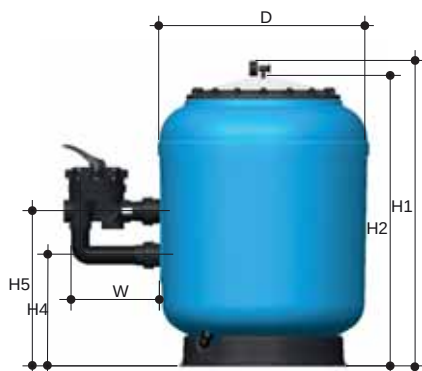
Transparent large bolted lid.



Transparent large bolted lid



| Description                                                 | Code       | Pieces/<br>box |
|-------------------------------------------------------------|------------|----------------|
| • Ø500 1,5" Multi. Side Valve and Wide Transparent Lid      | 021141TLLH | 1              |
| • Ø630 1,5" Multi. Side Valve and Wide Transparent Lid      | 021142TLLH | 1              |
| • Ø710 2" Multi. Side Valve and Wide Transparent Lid        | 021143TLLH | 1              |
| • Ø830 2" Multi. Side Valve and Wide Transparent Lid        | 021144TLLH | 1              |
| • Ø900 2" Multi. Side Valve and Wide Transparent Lid        | 021145TLLH | 1              |
| • Ø1000 2,5" Multi. Side without Valve Wide Transparent Lid | 021146TLLH | 1              |



## TECHNICAL CHARACTERISTICS

| MODEL               | Ø500              | Ø630 | Ø710 | Ø830 | Ø900 | Ø1000 |    |
|---------------------|-------------------|------|------|------|------|-------|----|
| D (mm)              | 500               | 630  | 710  | 830  | 900  | 1000  |    |
| H <sub>1</sub> (mm) | 1170              | 1200 | 1230 | 1270 | 1300 | 1330  |    |
| H <sub>2</sub> (mm) | 1120              | 1150 | 1180 | 1220 | 1250 | 1280  |    |
| H <sub>3</sub> (mm) | -                 | -    | -    | -    | -    | -     |    |
| H <sub>4</sub> (mm) | 450               | 450  | 470  | 470  | 500  | 500   |    |
| H <sub>5</sub> (mm) | 580               | 580  | 620  | 620  | 650  | 650   |    |
| W (mm)              | 260               | 260  | 295  | 295  | 295  | 370   |    |
| CONNECTIONS Ø(mm)   | 1,5"              | 1,5" | 2"   | 2"   | 2"   | 2,5"  |    |
| FLOW<br>(m³/h)      | (50 m³/h/m²) max  | 10   | 16   | 20   | 27   | 32    | 40 |
|                     | (40 m³/h/m²)      | 8    | 12   | 26   | 22   | 26    | 32 |
|                     | (30 m³/h/m²) mini | 6    | 9    | 12   | 16   | 19    | 24 |
| SAND (Kg)           | 200               | 300  | 400  | 550  | 675  | 800   |    |
| NET WEIGHT (Kg)     |                   |      |      |      |      |       |    |

## High Bed, Single or Multi-Layer Sand Filters

**GEMAS FILTREX - HB SAND FILTERS.** Filter shell made of fiberglass reinforced laminated polyester, including pressure gauge, air purge and multiport valve. Collector with laterals. Bed depth 100 cm. Test pressure 3.5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>. **Please ask price for 4,0 and 6,0 kg/cm<sup>2</sup> operation pressures. Sight Glass and Transparent Bolted Lid is optional.**



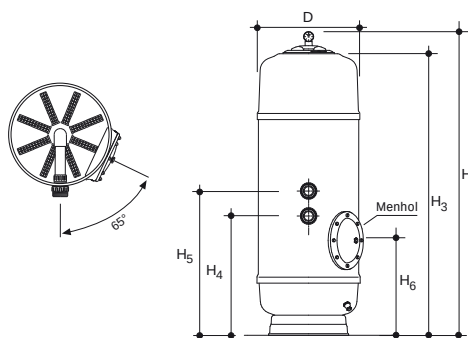
Transparent bolted lid  
(Optional) (Patented)



| Description                                                                                                      | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Ø500 mm - 1,5" multiport valve -<br>8 m <sup>3</sup> /h w/single layer<br>10 m <sup>3</sup> /h w/multilayer    | <b>021311HB</b> | 1              | 30,000       | 0,403                    |
| • Ø630 mm - 1,5" multiport valve -<br>12 m <sup>3</sup> /h w/single layer<br>16 m <sup>3</sup> /h w/multilayer   | <b>021312HB</b> | 1              | 35,200       | 0,584                    |
| • Ø710 mm - 2" multiport valve -<br>16 m <sup>3</sup> /h w/single layer<br>21 m <sup>3</sup> /h w/multilayer     | <b>021313HB</b> | 1              | 55,000       | 0,852                    |
| • Ø800 mm - 2" multiport valve -<br>20 m <sup>3</sup> /h w/single layer<br>25 m <sup>3</sup> /h w/multilayer     | <b>021314HB</b> | 1              | 71,000       | 1,230                    |
| • Ø900 mm - 2" multiport valve -<br>26 m <sup>3</sup> /h w/single layer<br>32 m <sup>3</sup> /h w/multilayer     | <b>021315HB</b> | 1              | 78,500       | 1,420                    |
| • Ø1000 mm - w/out multiport valve -<br>32 m <sup>3</sup> /h w/single layer<br>40 m <sup>3</sup> /h w/multilayer | <b>021316HB</b> | 1              |              |                          |

PS: Ozone resistant filters are quoted upon request.

PS: Please add "TL" to the code when ordering.



### TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                           | 021311HB     | 021312HB      | 021313HB       | 021314HB       | 021315HB       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|----------------|----------------|----------------|
| D (mm)                                                                                                                                                          | 500          | 630           | 710            | 800            | 900            |
| H <sub>1</sub> (mm)                                                                                                                                             | 1610         | 1510          | 1690           | 1780           | 1765           |
| H <sub>2</sub> (mm)                                                                                                                                             | -            | -             | -              | -              | -              |
| H <sub>3</sub> (mm)                                                                                                                                             | 1490         | 1410          | 1530           | 1600           | 1650           |
| H <sub>4</sub> (mm)                                                                                                                                             | 605          | 590           | 690            | 605            | 700            |
| H <sub>5</sub> (mm)                                                                                                                                             | 735          | 720           | 840            | 755            | 850            |
| H <sub>6</sub> (mm)                                                                                                                                             | 580          | 630           | 650            | 330            | 715            |
| CONNECTIONS (Ø)                                                                                                                                                 | 1,5"         | 1,5"          | 2"             | 2"             | 2"             |
| FLOW (m <sup>3</sup> /h)<br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 10<br>8<br>6 | 16<br>12<br>9 | 21<br>16<br>12 | 25<br>20<br>15 | 32<br>26<br>19 |
| ANTHRACITE 0,8 - 1,6 mm (lt)                                                                                                                                    | 150, 000     | 200, 000      | 250, 000       | 320, 000       | 470, 000       |
| QUARTZ SAND 0,5 - 1 mm (Kg)                                                                                                                                     | 150, 000     | 200, 000      | 250, 000       | 320, 000       | 470, 000       |
| QUARTZ SAND 1 - 3 mm (Kg)                                                                                                                                       | 100, 000     | 150, 000      | 215, 000       | 270, 000       | 420, 000       |
| NET WEIGHT (Kg)                                                                                                                                                 | 30, 000      | 35, 200       | 55, 000        | 71, 000        | 78, 500        |

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## “Filtrex and Neptune” Filtration Units

### GEMAS “FILTREX” FILTRATION UNIT.

Fiberglass reinforced polyester filter assembled on a plastic base and installed with a pool pump.

1,5" multiport valve **Top Mounted**. Interconnection piping between the pump and the filter are both included.

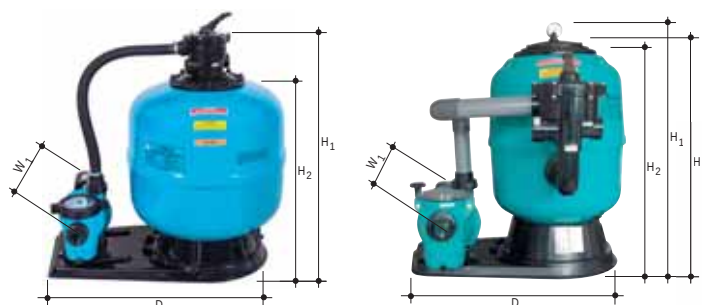


Top bolted lid  
(Optional)

| Description                                                              | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|--------------------------------------------------------------------------|------------------|----------------|--------------|--------------|
| • Ø450 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono | <b>021111TFU</b> | 1              | 34,050       | 0,440        |
| • Ø500 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono | <b>021112TFU</b> | 1              | 36,950       | 0,460        |
| • Ø630 mm with Fiberglass Reinforced Polyester Filter, Pump 1,0 HP, Mono | <b>021113TFU</b> | 1              | 39,850       | 0,808        |

**GEMAS “NEPTUNE” FILTRATION UNIT.** Fiberglass reinforced polyester filter assembled on a plastic base and installed with a pool pump. 1,5" multiport valve **Side Mounted**. Interconnection piping between the pump and the filter are both included.

| Description                                                               | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|---------------------------------------------------------------------------|-----------------|----------------|--------------|--------------|
| • Ø450 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono  | <b>021211FU</b> | 1              | 33,850       | 0,440        |
| • Ø500 mm with Fiberglass Reinforced Polyester Filter, Pump 0,75 HP, Mono | <b>021212FU</b> | 1              | 36,650       | 0,460        |
| • Ø650 mm with Fiberglass Reinforced Polyester Filter, Pump 1,0 HP, Mono  | <b>021213FU</b> | 1              | 39,550       | 0,808        |



## TECHNICAL CHARACTERISTICS

|                     | Filtrex top mounted multiport valve |           |           | Neptune side mounted multiport valve |           |           |
|---------------------|-------------------------------------|-----------|-----------|--------------------------------------|-----------|-----------|
| MODEL               | 021111TFU                           | 021112TFU | 021113TFU | 021211FU                             | 021112TFU | 021113TFU |
| D (mm)              | 450                                 | 500       | 630       | 450                                  | 500       | 650       |
| H <sub>1</sub> (mm) | 585                                 | 610       | 685       | 770                                  | 800       | 890       |
| H <sub>2</sub> (mm) | 765                                 | 790       | 865       | 615                                  | 655       | 735       |
| H <sub>3</sub> (mm) | -                                   | -         | -         | 710                                  | 740       | 830       |
| H <sub>4</sub> (mm) | -                                   | -         | -         | -                                    | -         | -         |
| H <sub>5</sub> (mm) | -                                   | -         | -         | -                                    | -         | -         |
| W (mm)              | -                                   | -         | -         | -                                    | -         | -         |
| W1 (mm)             | 675                                 | 775       | 925       | 675                                  | 775       | 925       |
| CONNECTIONS Ø (mm)  | 1,5"                                | 1,5"      | 1,5"      | 1,5"                                 | 1,5"      | 1,5"      |
| FLOW<br>(m³/h)      | (50 m³/h/m²) max                    | 8         | 10        | 16                                   | 8         | 10        |
|                     | (40 m³/h/m²)                        | 6         | 8         | 12                                   | 6         | 8         |
|                     | (30 m³/h/m²) mini                   | 5         | 6         | 9                                    | 5         | 6         |
| SAND (Kg)           | 80                                  | 100       | 150       | 80                                   | 100       | 150       |
| NET WEIGHT (Kg)     | 16,000                              | 18,000    | 23,000    | 33,850                               | 36,650    | 39,550    |



021212FU



Folding collector arms

## “Premium” Filtration Units



### GEMAS “PREMIUM” FILTRATION UNIT.

Sand filter made of plastic with rotational technique, with a **top-mounted six-way valve**, which is prepared to be combined with a thermoplastic pool pump on a stand. Interconnection piping between the pump and the filter are both included.



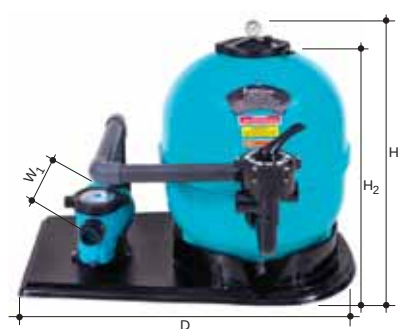
| Description                                                    | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • Ø400 mm with Plastic Sand Filter, Pump 0,33 HP, Mono - Micro | <b>021921FU</b> | 1          | 25,000    | 0,150                 |
| • Ø500 mm with Plastic Sand Filter, Pump 0,5 HP, Mono - Micro  | <b>021922FU</b> | 1          | 30,000    | 0,190                 |
| • Ø615 mm with Plastic Sand Filter, Pump 0,75 HP, Mono - Mini  | <b>021923FU</b> | 1          | 38,000    | 0,190                 |

**GEMAS “PREMIUM” FILTRATION UNIT.** Sand filter made of plastic with rotational technique, with a **side-mounted six-way valve**, which is prepared to be combined with a thermoplastic pool pump on a stand. Interconnection piping between the pump and the filter are both included.

| Description                                                    | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • Ø400 mm with Plastic Sand Filter, Pump 0,33 HP, Mono - Micro | <b>021911FU</b> | 1          | 24,000    | 0,150                 |
| • Ø500 mm with Plastic Sand Filter, Pump 0,5 HP, Mono - Micro  | <b>021912FU</b> | 1          | 29,000    | 0,190                 |
| • Ø615 mm with Plastic Sand Filter, Pump 0,75 HP, Mono - Mini  | <b>021913FU</b> | 1          | 36,000    | 0,190                 |



Folding collector arms



## TECHNICAL CHARACTERISTICS

|                                             | Premium top mounted multiport valve |          |          | Premium side mounted multiport valve |          |          |
|---------------------------------------------|-------------------------------------|----------|----------|--------------------------------------|----------|----------|
| MODEL                                       | 021921FU                            | 021922FU | 021923FU | 021911FU                             | 021912FU | 021913FU |
| D (mm)                                      | 1120                                | 1120     | 1120     | 1120                                 | 1120     | 1120     |
| H <sub>1</sub> (mm)                         | 290                                 | 330      | 344      | 280                                  | 320      | 334      |
| H <sub>2</sub> (mm)                         | 220                                 | 260      | 274      | 220                                  | 260      | 274      |
| W1 (mm)                                     | 444                                 | 444      | 500      | 444                                  | 444      | 500      |
| CONNECTIONS Ø(mm)                           | 1,5"                                | 1,5"     | 1,5"     | 1,5"                                 | 1,5"     | 1,5"     |
| FLOW (m <sup>3</sup> /h)                    | 7                                   | 10       | 15       | 7                                    | 10       | 15       |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 5                                   | 8        | 12       | 5                                    | 8        | 12       |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 4                                   | 6        | 9        | 4                                    | 6        | 9        |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini |                                     |          |          |                                      |          |          |
| SAND (Kg)                                   | 75                                  | 100      | 150      | 75                                   | 100      | 150      |
| NET WEIGHT (Kg)                             | 25,000                              | 30,000   | 38,000   | 24,000                               | 29,000   | 36,000   |

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## Palletized Filtration System

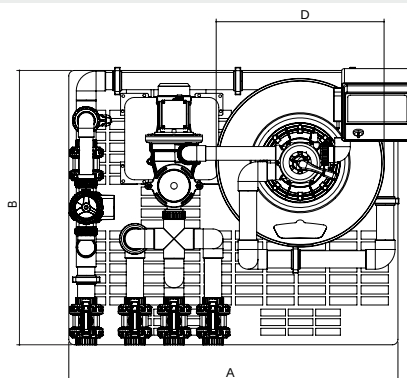
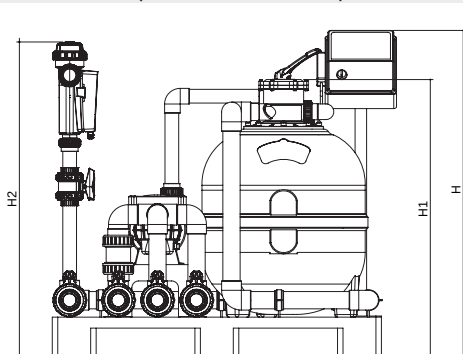
Completely installed on 100 x 120 cm pallet. 3 suction, 1 return and 1 back wash line (d63 mm). Salt Chlorinator, Electric Panel, and transformers are optional. Extra bypass connection available for auxillary unit installation such as chlorinator, heater, heat pump etc.



### Description

### Code

|                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------|
| • Ø500 mm Top Filter - 0,75 HP Mini Mono Pump                                         | <b>02526</b> |
| • Ø615 mm Top Filter - 1 HP Mini Mono Pump                                            | <b>02527</b> |
| • Ø760 mm Top Filter - 1,5 HP Pump                                                    | <b>02528</b> |
| • Ø500 mm Top Filter - 0,75 HP Mini Mono Pump - with Salt Chlorinator, Electric Panel | <b>02536</b> |
| • Ø615 mm Top Filter - 1 HP Mini Mono Pump - with Salt Chlorinator, Electric Panel    | <b>02537</b> |
| • Ø760 mm Top Filter - 1,5 HP Pump - with Salt Chlorinator, Electric Panel            | <b>02538</b> |



Salt chlorinator (optional)



Electric panel (optional)

## TECHNICAL CHARACTERISTICS

| MODEL                                             | A    | B    | D   | H    | H <sup>1</sup> | H <sup>2</sup> |
|---------------------------------------------------|------|------|-----|------|----------------|----------------|
| D.500 Premium Filter - 0,75 HP Mini Streamer Pump | 1200 | 1000 | 500 | 1100 | 855            | 1100           |
| D.615 Premium Filter - 1 HP Mini Streamer Pump    | 1200 | 1000 | 615 | 1200 | 975            | 1100           |
| D.760 Filtrone Filter - 1.5 HP Mini Streamer Pump | 1200 | 1000 | 760 | 1300 | 1195           | 1100           |



## Cartridge Filters

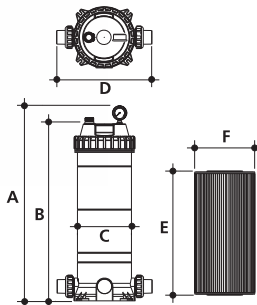


**GEMAS CARTRIDGE FILTER.** Body made in ABS plastic. Complete with manometer and air purge connections 1,5" BSP threaded. Max. operation pressure: 2.5 Bar.

| Description                                       | Code         | Pieces/box | Weight Kg    | Volume m <sup>3</sup> |
|---------------------------------------------------|--------------|------------|--------------|-----------------------|
| • AF25 Cartridge Filter - 5,5 m <sup>3</sup> /h   | <b>02411</b> | 1          | <b>5,000</b> | <b>0,040</b>          |
| • AF50 Cartridge Filter - 11,4 m <sup>3</sup> /h  | <b>02413</b> | 1          | <b>5,500</b> | <b>0,050</b>          |
| • AF75 Cartridge Filter - 17,0 m <sup>3</sup> /h  | <b>02414</b> | 1          | <b>6,500</b> | <b>0,060</b>          |
| • AF100 Cartridge Filter - 22,9 m <sup>3</sup> /h | <b>02415</b> | 1          | <b>7,500</b> | <b>0,070</b>          |
| • AF150 Cartridge Filter - 33,4 m <sup>3</sup> /h | <b>02416</b> | 1          |              |                       |
| • AF200 Cartridge Filter - 40,9 m <sup>3</sup> /h | <b>02417</b> | 1          |              |                       |



| MODEL        | DIA (mm) | HEIGHT (mm) | CONNECTIONS (Inlet-Outlet) | OPER.PRESSURE (kg/cm <sup>2</sup> ) | FLOW (m <sup>3</sup> /h) | FILTRATION CAP. (μ) |
|--------------|----------|-------------|----------------------------|-------------------------------------|--------------------------|---------------------|
| <b>AF25</b>  | 445      | 387         | 1/2"                       | 2,5                                 | 5,5                      | ≥15                 |
| <b>AF50</b>  | 625      | 567         | 1/2"                       | 2,5                                 | 11,4                     | ≥15                 |
| <b>AF75</b>  | 805      | 747         | 1/2"                       | 2,5                                 | 17,0                     | ≥15                 |
| <b>AF100</b> | 985      | 927         | 2"                         | 2,5                                 | 22,9                     | ≥15                 |
| <b>AF150</b> | 1165     | 1107        | 2"                         | 2,5                                 | 33,4                     | ≥15                 |
| <b>AF200</b> | 1345     | 1287        | 2"                         | 2,5                                 | 40,9                     | ≥15                 |



| MODEL        | A (mm) | B (mm) | C (mm) | D (mm) | E (mm)   | F (mm) | FILTRATION AREA (m <sup>2</sup> ) |
|--------------|--------|--------|--------|--------|----------|--------|-----------------------------------|
| <b>AF25</b>  | 445    | 387    | 225    | 397    | 178      | 185    | 2,25                              |
| <b>AF50</b>  | 625    | 567    | 225    | 397    | 358      | 185    | 4,63                              |
| <b>AF75</b>  | 805    | 747    | 225    | 397    | 537      | 185    | 7,00                              |
| <b>AF100</b> | 985    | 927    | 225    | 397    | 717      | 185    | 9,38                              |
| <b>AF150</b> | 1165   | 1107   | 225    | 397    | 896      | 185    | 13,72                             |
| <b>AF200</b> | 1345   | 1287   | 225    | 397    | 538x2pcs | 185    | 16,82                             |



### GEMAS REPLACEMENT CARTRIDGE

| Description          | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------|----------------|------------|-----------|-----------------------|
| • AF25-CE Cartridge  | <b>0241101</b> | 1          |           |                       |
| • AF50-CE Cartridge  | <b>0241301</b> | 1          |           |                       |
| • AF75-CE Cartridge  | <b>0241401</b> | 1          |           |                       |
| • AF100-CE Cartridge | <b>0241501</b> | 1          |           |                       |
| • AF150-CE Cartridge | <b>0241601</b> | 1          |           |                       |
| • AF200-CE Cartridge | <b>0241701</b> | 1          |           |                       |

## “Turbidron” Bobbin Wound Filters

### ADDITIONAL OPTIONS FOR GEMAS “TURBIDRON” BOBBIN WOUND SAND FILTERS



| Description                                               | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Round Manhole (2,5 bar) Ø400 mm                         | <b>0217172</b>  | 1              |              |                          |
| • Ditto, Transparent Lid                                  | <b>0217172T</b> | 1              |              |                          |
| • Round Manhole (4 bar) Ø400 mm                           | <b>0217182</b>  | 1              |              |                          |
| • Transparent Lid (Price difference w/ opaque)            | <b>0217119</b>  |                |              |                          |
| • Sight Glass Ø90 mm                                      | <b>0217192</b>  | 1              |              |                          |
| • Sight Glass Ø125 mm                                     | <b>0217202</b>  | 1              |              |                          |
| • Sight Glass Ø200 mm                                     | <b>0217212</b>  | 1              |              |                          |
| • Automatic Air Purge 1"                                  | <b>0217222</b>  | 1              |              |                          |
| • Automatic Air Purge 2"                                  | <b>0217232</b>  | 1              |              |                          |
| • Double Manometer Set                                    | <b>0217242</b>  | 1              |              |                          |
| • Double Manometer Set W/Sampling V.                      | <b>0217252</b>  | 1              |              |                          |
| • Ozone Protection (Vinylester coating)                   |                 |                |              |                          |
| • Sand Bed Depth = 1,5 m (Price difference w/1,0 m depth) |                 |                |              |                          |
| • Sand Bed Depth = 1,2 m (Price difference w/1,0 m depth) |                 |                |              |                          |

## “Turbidron” Bobbin Wound Filters



### GEMAS “TURBIDRON” SAND FILTERS.

Up to size Ø1800, filter shell made of single piece Roto MOLDED PE.

Larger sizes shell made of FR Polyester shell reinforced by fiberglass bobbin winding outside. Complete with pressure gauge, air release valve of 0,5". Test pressure 4,0 kg/cm<sup>2</sup>.

Max. operation pressure 2,5 kg/cm<sup>2</sup>. Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.

Filtration bed depth: 1,0 m (Excluding 021717E, 021725 and 021718).

Please ask price for 4,0 and 6,0 kg/cm<sup>2</sup> operation pressures.

2-year warranty.



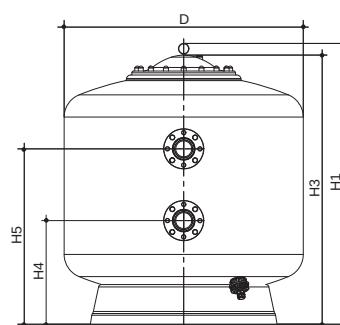
021725



021721

| Description                                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|----------------|------------|-----------|-----------------------|
| • Ø1200 mm - 57 m <sup>3</sup> /h, 75 mm unions | <b>021717E</b> | 1          | 95,000    |                       |
| • Ø1200 mm - 57 m <sup>3</sup> /h               | <b>021725</b>  | 1          | 110,000   |                       |
| • Ø1400 mm - 77 m <sup>3</sup> /h               | <b>021718</b>  | 1          | 180,000   |                       |
| • Ø1600 mm - 101 m <sup>3</sup> /h              | <b>021719</b>  | 1          | 240,000   |                       |
| • Ø1800 mm - 127 m <sup>3</sup> /h              | <b>021720</b>  | 1          | 275,000   |                       |
| • Ø2000 mm - 157 m <sup>3</sup> /h              | <b>021721</b>  | 1          | 300,000   |                       |
| • Ø2200 mm - 190 m <sup>3</sup> /h              | <b>021722</b>  | 1          | 425,000   |                       |
| • Ø2350 mm - 217 m <sup>3</sup> /h              | <b>021727</b>  | 1          |           |                       |
| • Ø2400 mm - 226 m <sup>3</sup> /h              | <b>021723</b>  | 1          | 535,000   |                       |
| • Ø2500 mm - 246 m <sup>3</sup> /h              | <b>021724</b>  | 1          |           |                       |
| • Ø3000 mm - 354 m <sup>3</sup> /h              | <b>021726</b>  | 1          |           |                       |

PS: Filtration rate for public pools should not exceed 50 m<sup>3</sup>/h/m<sup>2</sup>.



## TECHNICAL CHARACTERISTICS

| MODEL                                       | 021717E | 021725  | 021718  | 021719  | 021720  | 021721  | 021722  | 021727  | 021723  | 021724 | 021726 |
|---------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| D (mm)                                      | 1200    | 1200    | 1400    | 1600    | 1800    | 2000    | 2200    | 2350    | 2400    | 2500   | 3000   |
| H <sub>1</sub> (mm)                         | 1410    | 1410    | 1560    | 1860    | 1890    | 2000    | 2160    | 2300    | 2300    | 2450   | 2770   |
| H <sub>2</sub> (mm)                         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -      | -      |
| H <sub>3</sub> (mm)                         | 1350    | 1350    | 1500    | 1800    | 1830    | 1940    | 2100    | 2240    | 2240    | 2390   | 2710   |
| H <sub>4</sub> (mm)                         | 520     | 520     | 600     | 640     | 670     | 740     | 800     | 850     | 850     | 900    |        |
| H <sub>5</sub> (mm)                         | 880     | 880     | 1000    | 1200    | 1170    | 1240    | 1300    | 1450    | 1450    | 1550   |        |
| CONNECTIONS Ø (mm)                          | 90      | 90      | 110     | 125     | 140     | 160     | 200     | 200     | 200     | 200    | 200    |
| FLOW (m <sup>3</sup> /h)                    |         |         |         |         |         |         |         |         |         |        |        |
| (50 m <sup>3</sup> /h/m <sup>2</sup> ) max  | 57      | 57      | 77      | 101     | 127     | 157     | 190     | 217     | 226     | 246    | 354    |
| (40 m <sup>3</sup> /h/m <sup>2</sup> )      | 45      | 45      | 62      | 80      | 102     | 126     | 152     | 174     | 181     | 196    | 283    |
| (30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 34      | 34      | 46      | 60      | 76      | 94      | 114     | 130     | 136     | 147    | 212    |
| SAND (Kg)                                   | 1100    | 1100    | 1750    | 2800    | 3200    | 4200    | 5600    | 7600    | 8000    | 8600   | 7000   |
| NET WEIGHT (Kg)                             | 95,000  | 110,000 | 180,000 | 240,000 | 275,000 | 300,000 | 425,000 | 500,000 | 535,000 |        |        |



## Turbidron Commercial Sand Filters Design Options

| DESCRIPTION                                                                                                                                       | Bed Depth<br>1.0 m<br>Lateral<br>Distribution | Bed Depth<br>1.20 m | Nozzle plate<br>distribution<br>system | Circular<br>Manhole<br>Ø400 mm | Circular<br>Manhole<br>2.5 Bar<br>Ø500 mm | Circular<br>Manhole<br>2.5 Bar<br>Ø600 mm | Sight Glass<br>2.5 Bar<br>Ø90 mm | Sight Glass<br>2.5 Bar<br>Ø125 mm | Sight Glass<br>2.5 Bar<br>Ø200 mm | Sight Glass<br>2.5 Bar<br>Ø250 mm | Automatic<br>Air Purge<br>1" | Automatic<br>Air Purge<br>2" | Double<br>Manometer<br>Set | Ozon<br>Protection |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----------------------------------------|--------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------|------------------------------|----------------------------|--------------------|
| X<br>Operation Pressure Max. 2.5 kg/cm <sup>2</sup><br>Test Pressure 4 kg/cm <sup>2</sup><br>Filtration Speed 40 m <sup>3</sup> /H/m <sup>2</sup> | A                                             | B                   | C                                      | D                              | N                                         | E                                         | F                                | G                                 | H                                 | I                                 | J                            | K                            | L                          | M                  |
| 1<br>Filter Ø1200 mm - 45 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 2<br>Filter Ø1400 mm - 62 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 3<br>Filter Ø1600 mm - 80 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 4<br>Filter Ø1800 mm - 102 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 5<br>Filter Ø2000 mm - 126 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 6<br>Filter Ø2200 mm - 152 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 7<br>Filter Ø2350 mm - 174 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 8<br>Filter Ø2500 mm - 196 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 9<br>Filter Ø3000 mm - 283 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| DESCRIPTION                                                                                                                                       | Bed Depth<br>1.0 m<br>Lateral<br>Distribution | Bed Depth<br>1.20 m | Nozzle plate<br>distribution<br>system | Circular<br>Manhole<br>Ø400 mm | Circular<br>Manhole<br>2.5 Bar<br>Ø500 mm | Circular<br>Manhole<br>2.5 Bar<br>Ø600 mm | Sight Glass<br>4 Bar<br>Ø90 mm   | Sight Glass<br>4 Bar<br>Ø125 mm   | Sight Glass<br>4 Bar<br>Ø200 mm   | Sight Glass<br>4 Bar<br>Ø250 mm   | Automatic<br>Air Purge<br>1" | Automatic<br>Air Purge<br>2" | Double<br>Manometer<br>Set | Ozon<br>Protection |
| Y<br>Operation Pressure Max. 4 kg/cm <sup>2</sup><br>Test Pressure 6 kg/cm <sup>2</sup><br>Filtration Speed 40 m <sup>3</sup> /H/m <sup>2</sup>   | A                                             | B                   | C                                      | D                              | N                                         | E                                         | F                                | G                                 | H                                 | I                                 | J                            | K                            | L                          | M                  |
| 1<br>Filter Ø1200 mm - 45 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 2<br>Filter Ø1400 mm - 62 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 3<br>Filter Ø1600 mm - 80 m <sup>3</sup> /h                                                                                                       | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 4<br>Filter Ø1800 mm - 102 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 5<br>Filter Ø2000 mm - 126 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 6<br>Filter Ø2200 mm - 152 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 7<br>Filter Ø2350 mm - 174 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 8<br>Filter Ø2500 mm - 196 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |
| 9<br>Filter Ø3000 mm - 283 m <sup>3</sup> /h                                                                                                      | P.A.P.                                        | P.A.P.              | P.A.P.                                 | P.A.P.                         | P.A.P.                                    | P.A.P.                                    | P.A.P.                           | P.A.P.                            | P.A.P.                            | P.A.P.                            | P.A.P.                       | P.A.P.                       | P.A.P.                     | P.A.P.             |

**NOTE:** Please generate the product code number as per filter option configuration. (i.e X1B for d1200 Sand filter, 2,5 bar working pressure , 1,20 Sand Depth)

## “Turbidron - Norm Plus” Deep - Bed Sand Filter

**GEMAS “TURBIDRON-NORM PLUS” SAND FILTERS**  
(According to DIN 19605 and 19643).

**Bed depth: 1,20 m.** Test pressure 4 kg/cm<sup>2</sup>.

Max. operation pressure 2,5 kg/cm<sup>2</sup>.

Filtration Rate: Single Layer (Quartz Sand) : 30 m<sup>3</sup>/h/m<sup>2</sup>.

Multilayer (Quartz Sand + Anthracite and/or zeolite) : 50 m<sup>3</sup>/h/m<sup>2</sup>.



Large top lid



FR polyester connection



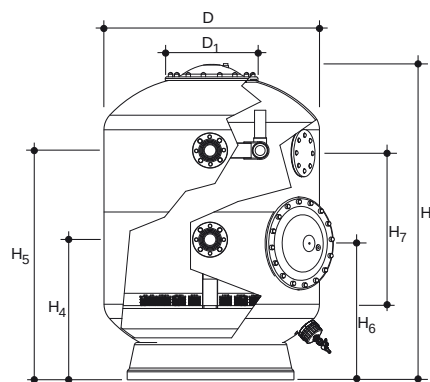
Side manhole



Nozzle distribution system

| Description                           | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------|---------------|------------|-----------|-----------------------|
| • Ø 900 mm - 32 m <sup>3</sup> /h     | <b>021512</b> | 1          | 1000,000  |                       |
| • Ø 1000 mm - 39,5 m <sup>3</sup> /h  | <b>021513</b> | 1          | 1300,000  |                       |
| • Ø 1200 mm - 56,5 m <sup>3</sup> /h  | <b>021514</b> | 1          | 1800,000  |                       |
| • Ø 1400 mm - 77 m <sup>3</sup> /h    | <b>021515</b> | 1          | 2350,000  |                       |
| • Ø 1600 mm - 100,5 m <sup>3</sup> /h | <b>021516</b> | 1          | 3300,000  |                       |
| • Ø 1800 mm - 127 m <sup>3</sup> /h   | <b>021517</b> | 1          | 4400,000  |                       |
| • Ø 2000 mm - 157 m <sup>3</sup> /h   | <b>021518</b> | 1          | 5700,000  |                       |
| • Ø 2200 mm - 190 m <sup>3</sup> /h   | <b>021519</b> | 1          | 6850,000  |                       |
| • Ø 2400 mm - 226 m <sup>3</sup> /h   | <b>021520</b> | 1          | 7700,000  |                       |
| • Ø 2500 mm - 254,5 m <sup>3</sup> /h | <b>021521</b> | 1          | 8300,000  |                       |

**PS:** Filtration rate for public pools should not exceed 50 m<sup>3</sup>/h/m<sup>2</sup>.



### TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                                | 021512         | 021513         | 021514         | 021515         | 021516          | 021517           | 021518           | 021519            | 021520            | 021521            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|-------------------|-------------------|-------------------|
| <b>D (mm)</b>                                                                                                                                                        | 900            | 1000           | 1200           | 1400           | 1600            | 1800             | 2000             | 2200              | 2400              | 2500              |
| <b>D<sub>1</sub> (mm)</b>                                                                                                                                            | -              | -              | -              | -              | -               | -                | -                | -                 | -                 | -                 |
| <b>H<sub>3</sub> (mm)</b>                                                                                                                                            | 2000           | 2100           | 2180           | 2360           | 2420            | 2530             | 2580             | 2580              | 2580              | 2580              |
| <b>H<sub>4</sub> (mm)</b>                                                                                                                                            | 550            | 750            | 750            | 820            | 850             | 900              | 950              | 950               | 1000              | 1000              |
| <b>H<sub>5</sub> (mm)</b>                                                                                                                                            | 1450           | 1550           | 1550           | 1520           | 1550            | 1600             | 1700             | 1700              | 1750              | 1750              |
| <b>H<sub>6</sub> (mm)</b>                                                                                                                                            | 900            | 900            | 900            | 1000           | 950             | 950              | 1100             | 1000              | 1000              | 1000              |
| <b>H<sub>7</sub> (mm)</b>                                                                                                                                            | 1200           | 1200           | 1200           | 1200           | 1200            | 1200             | 1200             | 1200              | 1200              | 1200              |
| <b>CONNECTIONS Ø (mm)</b>                                                                                                                                            | 63             | 63             | 75             | 90             | 110             | 110              | 125              | 140               | 160               | 160               |
| <b>FLOW (m<sup>3</sup>/h)</b><br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 32<br>26<br>19 | 40<br>32<br>24 | 57<br>45<br>34 | 77<br>62<br>46 | 101<br>80<br>60 | 127<br>102<br>76 | 157<br>126<br>94 | 190<br>152<br>114 | 226<br>181<br>136 | 246<br>196<br>147 |
| <b>SAND (Kg)</b>                                                                                                                                                     | 1000           | 1300           | 1900           | 2600           | 3400            | 4400             | 5300             | 6600              | 8000              | 8600              |

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.



## “Turbidron” Bobbin Wound Horizontal Filters

Filter shell made of fiberglass reinforced laminated polyester by fiberglass bobbin winding outside. Complete with pressure gauge, 1,5" air valve and 400 mm side manhole.

Test pressure 4 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>.

Filtration rate Max. 30 m<sup>3</sup>/h/m<sup>2</sup>.

Pls. ask price for 4 Bar working pressure.

Pls. ask price for “Dual Stack” version.

| Description                                     | Code            | Pieces/box |
|-------------------------------------------------|-----------------|------------|
| <b>Filtration Bed Depth 0,6 m.</b>              |                 |            |
| • Ø1000 mm - L = 1500 mm. 34 m <sup>3</sup> /h  | <b>02197161</b> | 1          |
| • Ø1000 mm - L = 2000 mm. 51 m <sup>3</sup> /h  | <b>02197162</b> | 1          |
| • Ø1200 mm - L = 2000 mm. 63 m <sup>3</sup> /h  | <b>02197171</b> | 1          |
| • Ø1200 mm - L = 2500 mm. 80 m <sup>3</sup> /h  | <b>02197172</b> | 1          |
| <b>Filtration Bed Depth 0,8 m.</b>              |                 |            |
| • Ø1400 mm - L = 2000 mm. 70 m <sup>3</sup> /h  | <b>02197181</b> | 1          |
| • Ø1400 mm - L = 2500 mm. 88 m <sup>3</sup> /h  | <b>02197182</b> | 1          |
| • Ø1400 mm - L = 3000 mm. 110 m <sup>3</sup> /h | <b>02197183</b> | 1          |
| • Ø1600 mm - L = 2000 mm. 87 m <sup>3</sup> /h  | <b>02197191</b> | 1          |
| • Ø1600 mm - L = 2500 mm. 105 m <sup>3</sup> /h | <b>02197192</b> | 1          |
| • Ø1600 mm - L = 3000 mm. 137 m <sup>3</sup> /h | <b>02197193</b> | 1          |
| • Ø1600 mm - L = 4000 mm. 163 m <sup>3</sup> /h | <b>02197194</b> | 1          |
| • Ø1600 mm - L = 4500 mm. 190 m <sup>3</sup> /h | <b>02197195</b> | 1          |
| <b>Filtration Bed Depth 1,0 m.</b>              |                 |            |
| • Ø1800 mm - L = 2500 mm. 114 m <sup>3</sup> /h | <b>02197201</b> | 1          |
| • Ø1800 mm - L = 3000 mm. 140 m <sup>3</sup> /h | <b>02197202</b> | 1          |
| • Ø1800 mm - L = 3500 mm. 166 m <sup>3</sup> /h | <b>02197203</b> | 1          |
| • Ø1800 mm - L = 4000 mm. 191 m <sup>3</sup> /h | <b>02197204</b> | 1          |
| • Ø2000 mm - L = 2500 mm. 123 m <sup>3</sup> /h | <b>02197211</b> | 1          |
| • Ø2000 mm - L = 3000 mm. 152 m <sup>3</sup> /h | <b>02197212</b> | 1          |
| • Ø2000 mm - L = 3500 mm. 180 m <sup>3</sup> /h | <b>02197213</b> | 1          |
| • Ø2000 mm - L = 4000 mm. 209 m <sup>3</sup> /h | <b>02197214</b> | 1          |
| • Ø2000 mm - L = 4500 mm. 236 m <sup>3</sup> /h | <b>02197215</b> | 1          |
| • Ø2000 mm - L = 5000 mm. 265 m <sup>3</sup> /h | <b>02197216</b> | 1          |
| • Ø2200 mm - L = 2500 mm. 137 m <sup>3</sup> /h | <b>02197221</b> | 1          |
| • Ø2200 mm - L = 3000 mm. 165 m <sup>3</sup> /h | <b>02197222</b> | 1          |
| • Ø2200 mm - L = 3500 mm. 197 m <sup>3</sup> /h | <b>02197223</b> | 1          |
| • Ø2200 mm - L = 4000 mm. 229 m <sup>3</sup> /h | <b>02197224</b> | 1          |
| • Ø2200 mm - L = 4500 mm. 258 m <sup>3</sup> /h | <b>02197225</b> | 1          |
| • Ø2200 mm - L = 5000 mm. 287 m <sup>3</sup> /h | <b>02197226</b> | 1          |
| <b>Filtration Bed Depth 1,2 m.</b>              |                 |            |
| • Ø2400 mm - L = 3000 mm. 179 m <sup>3</sup> /h | <b>02197231</b> | 1          |
| • Ø2400 mm - L = 3500 mm. 214 m <sup>3</sup> /h | <b>02197232</b> | 1          |
| • Ø2400 mm - L = 4000 mm. 248 m <sup>3</sup> /h | <b>02197233</b> | 1          |
| • Ø2400 mm - L = 5000 mm. 306 m <sup>3</sup> /h | <b>02197234</b> | 1          |
| • Ø2500 mm - L = 4000 mm. 267 m <sup>3</sup> /h | <b>02197241</b> | 1          |
| • Ø2500 mm - L = 5000 mm. 341 m <sup>3</sup> /h | <b>02197242</b> | 1          |



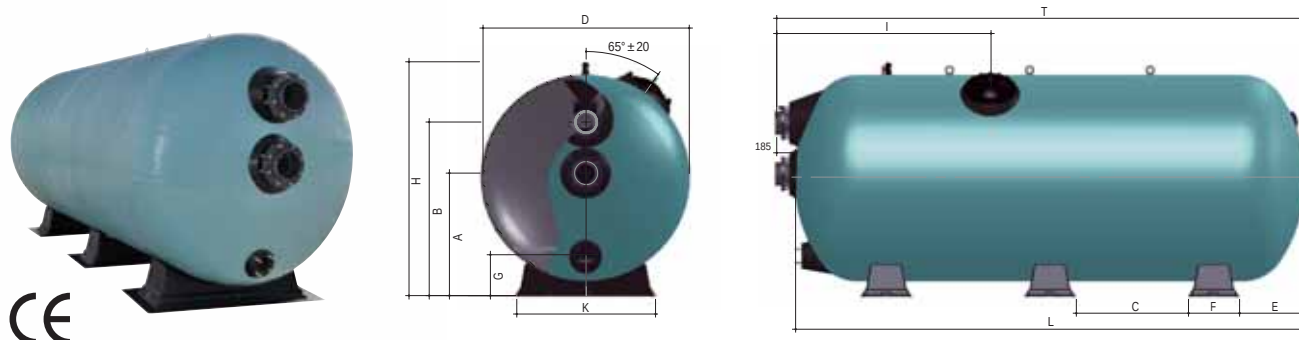
Dual stack  
Horizontal filter



Dual stack assembly detail



## “Turbidron” Bobbin Wound Horizontal Filters



### TECHNICAL CHARACTERISTICS

| MODEL    | D<br>(mm) | L±20<br>(mm) | A±50<br>(mm) | B±20<br>(mm) | C±50<br>(mm) | E±50<br>(mm) | F±20<br>(mm) | G±50<br>(mm) | H±50<br>(mm) | I±100<br>(mm) | K±50<br>(mm) | T±30<br>(mm) | Connec. (Ø)<br>(mm) | Flow (m³/h)<br>(50 m³/h/m²) | Sand<br>(Kg) | Net Weight<br>(Kg) |
|----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------------|-----------------------------|--------------|--------------------|
| 02197161 | 1000      | 1500         | 610          | 930          | 370          | 380          | 190          | 250          | 1250         | 750           | 750          | 1630         | 90                  | 40                          | 1260         | 138                |
| 02197162 | 1000      | 2500         | 610          | 930          | 1170         | 500          | 190          | 250          | 1250         | 1250          | 750          | 2650         | 125                 | 40                          | 2100         | 208                |
| 02197171 | 1200      | 2000         | 710          | 1030         | 840          | 380          | 200          | 250          | 1450         | 750           | 900          | 2250         | 125                 | 57                          | 2016         | 216                |
| 02197172 | 1200      | 2500         | 710          | 1030         | 1100         | 500          | 200          | 250          | 1450         | 1000          | 900          | 2650         | 140                 | 57                          | 2520         | 258                |
| 02197181 | 1400      | 2000         | 810          | 1200         | 820          | 380          | 210          | 250          | 1650         | 750           | 1000         | 2250         | 125                 | 77                          | 3136         | 262                |
| 02197182 | 1400      | 2500         | 810          | 1200         | 1080         | 500          | 210          | 250          | 1650         | 1000          | 1000         | 2650         | 140                 | 77                          | 3920         | 310                |
| 02197183 | 1400      | 3000         | 810          | 1200         | 685          | 500          | 210          | 250          | 1650         | 1000          | 1000         | 3180         | 160                 | 77                          | 4704         | 359                |
| 02197191 | 1600      | 2000         | 810          | 1380         | 600          | 450          | 240          | 250          | 1850         | 750           | 1200         | 2250         | 140                 | 101                         | 3584         | 310                |
| 02197192 | 1600      | 2500         | 910          | 1380         | 1020         | 500          | 240          | 250          | 1850         | 1000          | 1200         | 2680         | 160                 | 101                         | 4480         | 366                |
| 02197193 | 1600      | 3000         | 910          | 1380         | 640          | 500          | 240          | 250          | 1850         | 1000          | 1200         | 3180         | 160                 | 101                         | 5376         | 421                |
| 02197194 | 1600      | 4000         | 910          | 1380         | 1090         | 550          | 240          | 250          | 1850         | 1500          | 1200         | 4180         | 160                 | 101                         | 5940         | 561                |
| 02197195 | 1600      | 4500         | 910          | 1380         | 780          | 600          | 240          | 250          | 1850         | 1500          | 1200         | 4700         | 200                 | 101                         | 6730         | 631                |
| 02197201 | 1800      | 2500         | 910          | 1560         | 860          | 550          | 270          | 300          | 2080         | 1000          | 1400         | 2680         | 160                 | 127                         | 6300         | 472                |
| 02197202 | 1800      | 3000         | 1030         | 1560         | 1260         | 600          | 270          | 300          | 2080         | 1000          | 1400         | 3680         | 160                 | 127                         | 7560         | 541                |
| 02197203 | 1800      | 3500         | 1030         | 1560         | 795          | 550          | 270          | 300          | 2080         | 1000          | 1400         | 3700         | 200                 | 127                         | 8820         | 611                |
| 02197204 | 1800      | 4000         | 1030         | 1560         | 1045         | 550          | 270          | 300          | 2080         | 1500          | 1400         | 4200         | 200                 | 127                         | 10080        | 680                |
| 02197211 | 2000      | 2500         | 1030         | 1730         | 800          | 550          | 300          | 400          | 2300         | 1000          | 1500         | 2680         | 160                 | 157                         | 7000         | 540                |
| 02197212 | 2000      | 3000         | 1160         | 1730         | 1100         | 650          | 300          | 400          | 2300         | 1000          | 1500         | 3180         | 160                 | 157                         | 8400         | 617                |
| 02197213 | 2000      | 3500         | 1160         | 1730         | 750          | 550          | 300          | 400          | 2300         | 1000          | 1500         | 3700         | 200                 | 157                         | 9800         | 694                |
| 02197214 | 2000      | 4000         | 1160         | 1730         | 1000         | 550          | 300          | 400          | 2300         | 1500          | 1500         | 4200         | 200                 | 157                         | 11200        | 771                |
| 02197215 | 2000      | 4500         | 1160         | 1730         | 1150         | 650          | 300          | 400          | 2300         | 1500          | 1500         | 4730         | 225                 | 157                         | 12600        | 848                |
| 02197216 | 2000      | 5000         | 1160         | 1730         | 900          | 550          | 300          | 400          | 2300         | 1750          | 1500         | 5230         | 225                 | 157                         | 14000        | 925                |
| 02197221 | 2200      | 2500         | 1260         | 1860         | 800          | 550          | 300          | 400          | 2500         | 1000          | 1750         | 2750         | 200                 | 190                         | 7700         | 673                |
| 02197222 | 2200      | 3000         | 1260         | 1860         | 1100         | 650          | 300          | 400          | 2500         | 1000          | 1750         | 3200         | 200                 | 190                         | 9240         | 766                |
| 02197223 | 2200      | 3500         | 1260         | 1860         | 750          | 550          | 300          | 400          | 2500         | 1000          | 1750         | 3700         | 200                 | 190                         | 10780        | 860                |
| 02197224 | 2200      | 4000         | 1260         | 1860         | 1000         | 550          | 300          | 400          | 2500         | 1500          | 1750         | 4230         | 225                 | 190                         | 12320        | 953                |
| 02197225 | 2200      | 4500         | 1260         | 1860         | 1250         | 550          | 300          | 400          | 2500         | 1500          | 1750         | 4730         | 225                 | 190                         | 13860        | 1046               |
| 02197226 | 2200      | 5000         | 1260         | 1860         | 900          | 550          | 300          | 400          | 2500         | 1750          | 1750         | 5200         | 250                 | 190                         | 15400        | 1245               |
| 02197231 | 2400      | 3000         | 1380         | 2030         | 1000         | 550          | 350          | 450          | 2720         | 1000          | 1900         | 3200         | 200                 | 226                         | 12096        | 935                |
| 02197232 | 2400      | 3500         | 1380         | 2030         | 625          | 650          | 350          | 450          | 2720         | 1000          | 1900         | 3700         | 200                 | 226                         | 14112        | 1277               |
| 02197233 | 2400      | 4000         | 1380         | 2030         | 875          | 600          | 350          | 450          | 2720         | 1500          | 1900         | 4230         | 225                 | 226                         | 16128        | 1413               |
| 02197234 | 2400      | 5000         | 1380         | 2030         | 1275         | 700          | 350          | 450          | 2720         | 1500          | 1900         | 5250         | 225                 | 226                         | 16800        | 1486               |
| 02197241 | 2500      | 4000         | 1430         | 2130         | 875          | 600          | 350          | 450          | 2820         | 1500          | 1980         | 4230         | 225                 | 246                         | 16800        | 1486               |
| 02197242 | 2500      | 5000         | 1430         | 2130         | 1275         | 700          | 350          | 450          | 2820         | 1750          | 1980         | 5250         | 250                 | 246                         | 21000        | 1769               |

PS: Sight glass is optional. You can add it from the optional table on page 57.



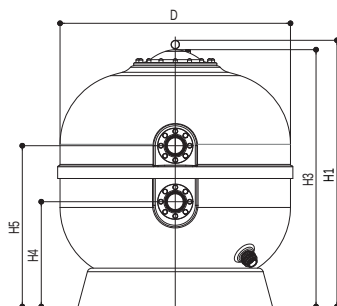
## “Neptune” High Rate Sand Filters

### GEMAS “NEPTUNE” COMMERCIAL SAND FILTERS.

Filter shell made of fiberglass reinforced laminated polyester, including pressure gauge, air release valve of 0,5".  
Test pressure 3.5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>.  
Filtration rate: 50 m<sup>3</sup>/h/m<sup>2</sup>.  
Filtration Depth: 1,0 m (except 021216, 021217).  
Counter flange is not included in price (021216).

| Description                                                                          | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Ø1200 mm - Connections<br>Ø90 mm w/loose flange. Max. 57 m <sup>3</sup> /h.        | <b>021216L</b> | 1              | 78,500       | 1,460                    |
| • Ø1400 mm - Connections<br>Ø110 mm flanged. Max. 77 m <sup>3</sup> /h               | <b>021217</b>  | 1              | 145,000      | 2,350                    |
| • Ø1600 mm - without valve Ø125 mm<br>flanged connection. Max. 101 m <sup>3</sup> /h | <b>021218</b>  | 1              | 202,500      | 3,760                    |
| • Ø1800 mm - without valve Ø140 mm<br>flanged connection. Max. 127 m <sup>3</sup> /h | <b>021224</b>  | 1              | 225,000      | 5,080                    |
| • Ø2000 mm - without valve Ø160 mm<br>flanged connection. Max. 157 m <sup>3</sup> /h | <b>021219</b>  | 1              | 245,000      | 6,410                    |
| • Ø2200 mm - without valve Ø200 mm<br>flanged connection. Max. 190 m <sup>3</sup> /h | <b>021220</b>  | 1              | 425,000      | 8,900                    |
| • Ø2400 mm - without valve Ø200 mm<br>flanged connection. Max. 226 m <sup>3</sup> /h | <b>021225</b>  | 1              | 535,000      | 12,200                   |

**PS:** Filtration rate for public pools should not exceed 50 m<sup>3</sup>/h/m<sup>2</sup>.



## TECHNICAL CHARACTERISTICS

| MODEL                                                                                                                                                                | 021216L        | 021217         | 021218          | 021224           | 021219           | 021220            | 021225            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------|------------------|------------------|-------------------|-------------------|
| <b>D (mm)</b>                                                                                                                                                        | 1200           | 1400           | 1600            | 1800             | 2000             | 2200              | 2400              |
| <b>H<sub>1</sub> (mm)</b>                                                                                                                                            | 1325           | 1380           | 1640            | 1960             | 1960             | 2160              | 2750              |
| <b>H<sub>2</sub> (mm)</b>                                                                                                                                            | 1265           | 1320           | 1580            | 1890             | 1900             | 2200              | 2600              |
| <b>H<sub>3</sub> (mm)</b>                                                                                                                                            | 500            | 630            | 670             | 680              | 830              | 850               | 900               |
| <b>H<sub>4</sub> (mm)</b>                                                                                                                                            | 900            | 980            | 1200            | 1090             | 1330             | 1280              | 1700              |
| <b>CONNECTIONS Ø (mm)</b>                                                                                                                                            | 90             | 110            | 125             | 140              | 160              | 200               | 200               |
| <b>FLOW (m<sup>3</sup>/h)</b><br>(50 m <sup>3</sup> /h/m <sup>2</sup> ) max<br>(40 m <sup>3</sup> /h/m <sup>2</sup> )<br>(30 m <sup>3</sup> /h/m <sup>2</sup> ) mini | 57<br>45<br>34 | 77<br>62<br>46 | 101<br>80<br>60 | 127<br>102<br>76 | 157<br>126<br>94 | 190<br>152<br>114 | 226<br>181<br>136 |
| <b>SAND (Kg)</b>                                                                                                                                                     | 1300           | 1950           | 2750            | 3650             | 4750             | 5700              | 6600              |
| <b>NET WEIGHT (Kg)</b>                                                                                                                                               | 78,500         | 145,000        | 202,500         | 225,000          | 245,000          | 425               | 535               |



Loose flange connection  
(021216)



021218



Water drainage

## “Filtrex - Norm Plus” Sand Filters - Deep Bed

### GEMAS FILTRET - NORM PLUS SAND FILTERS

According to DIN 19605 and 19643).

Filter shell made of fiberglass reinforced laminated polyester, including pressure gauge, air purge. Manufactured with collector plate with nozzles. Sight glass at side. Bed depth 120 cm.

Filtration rate for single layer: 30 m<sup>3</sup>/h/m<sup>2</sup>.

Test pressure 3,5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>.

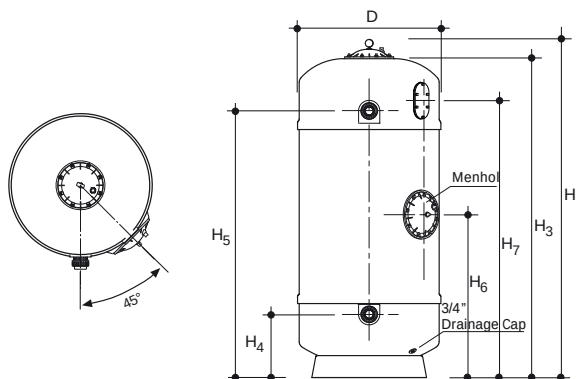


Sight glass



Nozzle  
Distribution system

| Description                                                  | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Ø630 mm - 9 m <sup>3</sup> /h - 12,5 m <sup>3</sup> /h     | <b>021411</b> | 1              | 52,650       | 0,630                    |
| • Ø830 mm -16 m <sup>3</sup> /h - 21,5 m <sup>3</sup> /h     | <b>021412</b> | 1              | 102,000      | 1,050                    |
| • Ø1000 mm - 23,5 m <sup>3</sup> /h - 31,5 m <sup>3</sup> /h | <b>021413</b> | 1              | 135,000      | 1,880                    |
| • Ø1250 mm - 37 m <sup>3</sup> /h - 49 m <sup>3</sup> /h     | <b>021414</b> | 1              | 237,400      | 2,930                    |
| • Ø1400 mm - 46 m <sup>3</sup> /h - 61,5 m <sup>3</sup> /h   | <b>021415</b> | 1              | 300,000      | 3,700                    |
| • Ø1600 mm - 63 m <sup>3</sup> /h - 84 m <sup>3</sup> /h     | <b>021416</b> | 1              | 355,000      | 4,800                    |



### TECHNICAL CHARACTERISTICS

| MODEL                                                           | 021411  | 021412  | 021413  | 021414  | 021415  | 021416   |
|-----------------------------------------------------------------|---------|---------|---------|---------|---------|----------|
| D (mm)                                                          | 630     | 830     | 1000    | 1250    | 1400    | 1600     |
| H <sub>1</sub> (mm)                                             | 2060    | 1970    | 2145    | 2560    | 2540    | 2480     |
| H <sub>2</sub> (mm)                                             | -       | -       | -       | -       | -       | -        |
| H <sub>3</sub> (mm)                                             | 1940    | 1850    | 1985    | 2320    | 2380    | 2320     |
| H <sub>4</sub> (mm)                                             | 330     | 385     | 500     | 270     | 840     | 830      |
| H <sub>5</sub> (mm)                                             | 1720    | 1560    | 1620    | 2070    | 1620    | 1600     |
| H <sub>6</sub> (mm)                                             | 600     | 940     | 970     | 950     | 1000    | 1050     |
| H <sub>7</sub> (mm)                                             | 1750    | 1620    | 1665    | 1550    | 1600    | 1650     |
| CONNECTIONS Ø (mm)                                              | 1,5"    | 2"      | 3"      | 3"      | 4"      | 4"       |
| FLOW (m <sup>3</sup> /h) (40 m <sup>3</sup> /h/m <sup>2</sup> ) | 12      | 22      | 31      | 49      | 61      | 80       |
| ANTHRACITE 0,8 - 1,6 mm (lt)                                    | 200,000 | 300,000 | 475,000 | 675,000 | 770,000 | 1000,000 |
| QUARTZ SAND 0,5 - 1 mm (Kg)                                     | 200,000 | 300,000 | 475,000 | 675,000 | 770,000 | 1000,000 |
| QUARTZ SAND 1 - 3 mm (Kg)                                       | 150,000 | 225,000 | 425,000 | 525,000 | 630,000 | 825,000  |
| NET WEIGHT (Kg)                                                 | 52,650  | 102,000 | 135,000 | 237,000 | 300,000 | 355,000  |



## “Filtrex - Norm Plus” Sand Filters - Deep Bed

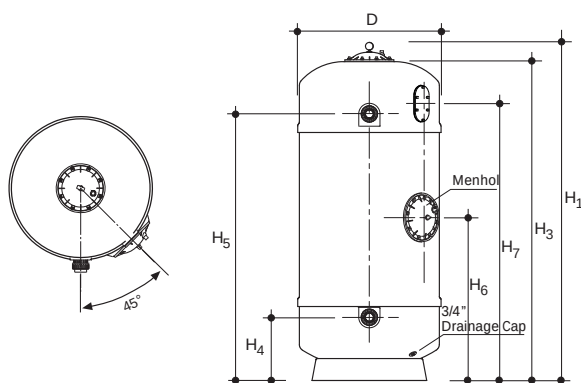
**GEMAS FILTRET - NORM PLUS SAND FILTERS**  
(According to DIN 19605 and 19643).

Filter shell made of fiberglass reinforced laminated polyester, including pressure gauge, air purge. Manufactured with collector plate with nozzles. Sight glass at side. Bed depth 120 cm. Filtration rate for single layer: 30 m<sup>3</sup>/h/m<sup>2</sup>. Test pressure 3,5 kg/cm<sup>2</sup>. Max. operation pressure 2,5 kg/cm<sup>2</sup>.

| Description                                                | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Ø1800 mm - 76 m <sup>3</sup> /h - 101 m <sup>3</sup> /h  | <b>021417</b> | 1              | 450,000      |                          |
| • Ø2000 mm- 94 m <sup>3</sup> /h - 125 m <sup>3</sup> /h   | <b>021418</b> | 1              | 470,000      |                          |
| • Ø2200 mm - 114 m <sup>3</sup> /h - 152 m <sup>3</sup> /h | <b>021419</b> | 1              | 685,000      |                          |
| • Ø2400 mm - 136 m <sup>3</sup> /h - 181 m <sup>3</sup> /h | <b>021420</b> | 1              | 860,000      |                          |
| • Ø2500 mm - 136 m <sup>3</sup> /h - 181 m <sup>3</sup> /h | <b>021421</b> | 1              | 910,000      |                          |



021417



Sight glass


Nozzle  
Distribution system

### TECHNICAL CHARACTERISTICS

| MODEL                                                           | 021417   | 021418   | 021419   | 021420   | 021421   |
|-----------------------------------------------------------------|----------|----------|----------|----------|----------|
| D (mm)                                                          | 1800     | 2000     | 2200     | 2400     | 2500     |
| H <sub>1</sub> (mm)                                             | 2490     | 2670     | 2610     | 2760     | 2710     |
| H <sub>2</sub> (mm)                                             | -        | -        | -        | -        | -        |
| H <sub>3</sub> (mm)                                             | 2330     | 2600     | 2450     | 2600     | -        |
| H <sub>4</sub> (mm)                                             | 800      | 950      | 850      | 970      | 1000     |
| H <sub>5</sub> (mm)                                             | 1550     | 1710     | 1630     | 1720     | 1800     |
| H <sub>6</sub> (mm)                                             | 980      | 1040     | 950      | 1060     | 1090     |
| H <sub>7</sub> (mm)                                             | 1580     | 1700     | 1660     | 1770     |          |
| CONNECTIONS Ø (mm)                                              | 5"       | 5"       | 6"       | 7,5"     | 7,5"     |
| FLOW (m <sup>3</sup> /h) (40 m <sup>3</sup> /h/m <sup>2</sup> ) | 102      | 126      | 152      | 181      | 197      |
| ANTHRACITE 0,8 - 1,6 mm (lt)                                    | 1221,000 | 1507,000 | 1821,000 | 2170,000 | 4712,000 |
| QUARTZ SAND 0,5 - 1 mm (Kg)                                     | 3205,000 | 3951,000 | 4787,000 | 5697,000 | 6185,000 |
| QUARTZ SAND 1 - 3 mm (Kg)                                       | 1068,000 | 1319,000 | 1596,000 | 1899,000 | 2062,000 |
| NET WEIGHT (Kg)                                                 | 450,000  | 470,000  | 685,000  | 860,000  | 910,000  |



## Valve Batteries for Commercial Filters



**FOR SINGLE FILTER:** PVC Valve Batteries with 5 pieces of Ball/Butterfly valves complete mounted including pipe support pivots with arm clamps and anchoring system, all made in zinc-plated steel. **(Please see Battery Supports)**

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • Ø75 Ball Valves Battery       | <b>131117B</b> | 1          |           |                       |
| • Ø90 Ball Valves Battery       | <b>131118B</b> | 1          |           |                       |
| • Ø110 Ball Valves Battery      | <b>131119B</b> | 1          |           |                       |
| • Ø110 Butterfly Valves Battery | <b>131603B</b> | 1          |           |                       |
| • Ø125 Butterfly Valves Battery | <b>131604B</b> | 1          |           |                       |
| • Ø140 Butterfly Valves Battery | <b>131605B</b> | 1          |           |                       |
| • Ø160 Butterfly Valves Battery | <b>131606B</b> | 1          |           |                       |
| • Ø200 Butterfly Valves Battery | <b>131607B</b> | 1          |           |                       |
| • Ø225 Butterfly Valves Battery | <b>131608B</b> | 1          |           |                       |

**FOR TWO FILTERS:** PVC Valve Batteries with 5 pieces of Ball/Butterfly valves including pipe support pivots with arm clamps and anchoring system, all made in zinc-plated steel. **(Please see Battery Supports)**

| Description                     | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|-----------------|------------|-----------|-----------------------|
| • Ø110 Ball Valves Battery      | <b>131119BD</b> | 1          |           |                       |
| • Ø110 Butterfly Valves Battery | <b>131603BD</b> | 1          |           |                       |
| • Ø125 Butterfly Valves Battery | <b>131604BD</b> | 1          |           |                       |
| • Ø140 Butterfly Valves Battery | <b>131605BD</b> | 1          |           |                       |
| • Ø160 Butterfly Valves Battery | <b>131606BD</b> | 1          |           |                       |
| • Ø200 Butterfly Valves Battery | <b>131607BD</b> | 1          |           |                       |
| • Ø225 Butterfly Valves Battery | <b>131608BD</b> | 1          |           |                       |



**AUTOMATIC AIR PURGE.** Automatic Air Purge for filters with large lid. Made of PVC, 1" male threaded connection.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| • 1"        | <b>02701</b> | 1          |           |                       |
| • 2"        | <b>02702</b> | 1          |           |                       |

## Motor Actuated Valves and Automatic Battery Sets For Filters

**FOR SINGLE FILTER:** Motor Actuated PVC valve batteries with ball or butterfly valves for commercial sand filters. Complete with zinc plated Battery Support Sets and Clamp Support Systems. **(Please see Valve Battery Support Systems)**. The system is designed with 5 valve Groups including FILTRATION, BACKWASH, RINSE, RECIRCULATION and WASTE functions completely. DOES NOT INCLUDE CONTROL UNIT. Can be used manually in case of a power cut.

| Description                     | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|-----------------|----------------|--------------|--------------------------|
| • Ø90 Butterfly Valves Battery  | <b>131602BM</b> | 1              |              |                          |
| • Ø110 Butterfly Valves Battery | <b>131603BM</b> | 1              |              |                          |
| • Ø125 Butterfly Valves Battery | <b>131604BM</b> | 1              |              |                          |
| • Ø140 Butterfly Valves Battery | <b>131605BM</b> | 1              |              |                          |
| • Ø160 Butterfly Valves Battery | <b>131606BM</b> | 1              |              |                          |
| • Ø200 Butterfly Valves Battery | <b>131607BM</b> | 1              |              |                          |
| • Ø225 Butterfly Valves Battery | <b>131608BM</b> | 1              |              |                          |



### AUTOMATIC VALVE BATTERY CONTROL UNIT WITH MICROPROCESSOR:

It is designed to work with 5 valve groups (described above) with pressure and/or time controlled. It deactivates the pump in case of high pressure. It stops/starts the pump during the valve position changes.

| Description                  | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|------------------|----------------|--------------|--------------------------|
| • Control Unit               | <b>0221350P</b>  | 1              |              |                          |
| • Electronic Pressure Sensor | <b>0221350PS</b> | 1              |              |                          |
| • Wifi addition              | <b>0221350WF</b> | 1              |              |                          |



The stainless steel panel is not included in the price.



## Valve Battery Support Systems



**GEMAS VALVE BATTERY SUPPORT PIVOT SET.** Made of zinc plated steel, 40x40x2,5 mm steel profile, complete with 2 pieces of stainless steel sliding pipe clamp and 2 sets of sliding fixing part; with steel footers to be fixed with 4 screws on the ground.

| Description                  | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|---------------|------------|-----------|-----------------------|
| • 2 x Ø90 Clamp - h = 1,5 m  | <b>139111</b> | 1          |           |                       |
| • 2 x Ø110 Clamp - h = 1,5 m | <b>139112</b> | 1          |           |                       |
| • 2 x Ø125 Clamp - h = 1,5 m | <b>139113</b> | 1          |           |                       |
| • 2 x Ø140 Clamp - h = 1,5 m | <b>139114</b> | 1          |           |                       |
| • 2 x Ø160 Clamp - h = 1,5 m | <b>139115</b> | 1          |           |                       |
| • 2 x Ø200 Clamp - h = 1,5 m | <b>139116</b> | 1          |           |                       |
| • 2 x Ø225 Clamp - h = 1,5 m | <b>139117</b> | 1          |           |                       |
| • 2 x Ø140 Clamp - h = 2,0 m | <b>139121</b> | 1          |           |                       |
| • 2 x Ø160 Clamp - h = 2,0 m | <b>139122</b> | 1          |           |                       |
| • 2 x Ø200 Clamp - h = 2,0 m | <b>139123</b> | 1          |           |                       |
| • 2 x Ø225 Clamp - h = 2,0 m | <b>139124</b> | 1          |           |                       |

**GEMAS HORIZONTAL PIPE SUPPORT SET.** Made of zinc plated steel, 40x40x2,5 mm steel profile, complete with 2 pieces of stainless steel sliding pipe clamp and 2 sets of sliding fixing part; with steel footers to be fixed with 4 screws on the ground.



| Description                   | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------------|------------|-----------|-----------------------|
| • 1 x Ø90 Clamp - h = 0,40 m  | <b>139211</b> | 1          |           |                       |
| • 1 x Ø110 Clamp - h = 0,40 m | <b>139212</b> | 1          |           |                       |
| • 1 x Ø125 Clamp - h = 0,40 m | <b>139213</b> | 1          |           |                       |
| • 1 x Ø140 Clamp - h = 0,40 m | <b>139214</b> | 1          |           |                       |
| • 1 x Ø160 Clamp - h = 0,40 m | <b>139215</b> | 1          |           |                       |
| • 1 x Ø200 Clamp - h = 0,40 m | <b>139216</b> | 1          |           |                       |
| • 1 x Ø225 Clamp - h = 0,40 m | <b>139217</b> | 1          |           |                       |



Detail 1



Detail 2

## Valve Battery Support Systems

### GEMAS VALVE BATTERY SUPPORT LANE - SINGLE.

Made of zinc plated steel, 40x40x2,5 mm steel profile. Complete with steel footers to be fixed with 4 screws on the ground. Other end with plastic cap.

| Description                     | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|----------------|----------------|--------------|--------------------------|
| • h = 2,0 m, Support Pivot      | <b>1391112</b> | 1              |              |                          |
| • h = 1,5 m, Support Pivot      | <b>1391111</b> | 1              |              |                          |
| • h = 0,4 m, Horizontal Support | <b>1391110</b> | 1              |              |                          |



### GEMAS SLIDING PIPE CLAMP FOR SUPPORT. Made of zinc plated steel.

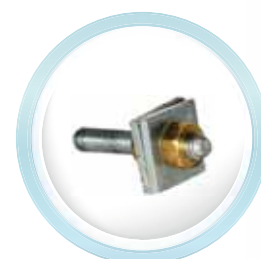
| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
| • Ø90       | <b>13911111</b> | 1              |              |                          |
| • Ø110      | <b>13911112</b> | 1              |              |                          |
| • Ø125      | <b>13911113</b> | 1              |              |                          |
| • Ø140      | <b>13911114</b> | 1              |              |                          |
| • Ø160      | <b>13911115</b> | 1              |              |                          |
| • Ø200      | <b>13911116</b> | 1              |              |                          |
| • Ø225      | <b>13911117</b> | 1              |              |                          |



### GEMAS SLIDING CLAMP FIXING PART.

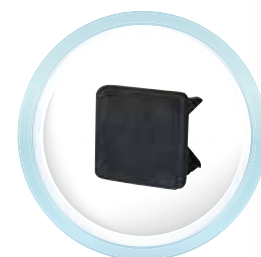
Complete with M8 nuts and bolts. Two pieces of fixing part is necessary for each clamp.

| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
|             | <b>13911114</b> | 1              |              |                          |



### GEMAS CAP FOR SUPPORT LANE. Made of plastic, black cap - 400 x 400 mm.

| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
|             | <b>13911113</b> | 1              |              |                          |





## HANG-OVER Filtration Units



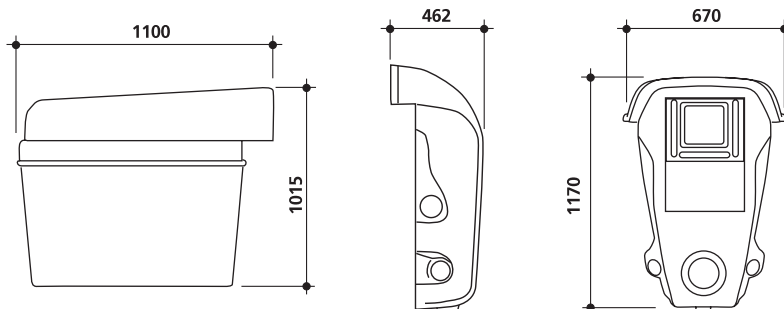
### GEMAS "DECKON" HANG-OVER FILTRATION UNIT.

**HANG-OVER Unit:** The body is made of UV-resistant ABS plastic and includes a 23 W/12 V LED underwater light, skimmer, suction inlet, and 2+1 side and bottom oriented inlets. The Hang-over unit and filter room can be assembled separately using two different plastic covers (included).

**Filtration Room:** The base part is made of FRP, and the upper frame and room cover are made of UV-resistant ABS plastic. It comes complete with a sand or cartridge filter, electrical control board, pneumatic on-off switch, and transformer. The machine room and Hang-over unit can be installed separately. Top covers for such applications are included.

| Description                                                   | Code       | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------------|------------|------------|-----------|-----------------------|
| Hang-over Unit                                                | 02511      | 1          | 19,100    | 0,420                 |
| <b>Filtration room w/sand filter</b>                          |            |            |           |                       |
| • Ø400 mm sand filter + 0,5 HP Pump - 6 m <sup>3</sup> /h     | 02512      | 1          | 65,850    | 0,870                 |
| • Ø500 mm sand filter + 0,75 HP Pump - 10 m <sup>3</sup> /h   | 02513      | 1          | 67,650    | 0,870                 |
| <b>Filtration room w/cartridge filter</b>                     |            |            |           |                       |
| • P510 cartridge filter + 0,5 HP Pump - 6 m <sup>3</sup> /h   | 02514      | 1          |           |                       |
| • P512 cartridge filter + 0,75 HP Pump - 10 m <sup>3</sup> /h | 02515      | 1          |           |                       |
| • P513 cartridge filter + 1" HP Pump - 15 m <sup>3</sup> /h   | 02516      | 1          |           |                       |
| <b>Options</b>                                                |            |            |           |                       |
| • ECOSlimLED Light                                            | 051130EO   | 1          |           |                       |
| • Chlorine feeder                                             | 069CLT167B | 1          |           |                       |

**PS.** Filter media not included.



## HANG-OVER Filtration Units

### GEMAS "DECKON JET" HANG-OVER FILTRATION UNIT. with COUNTER CURRENT.

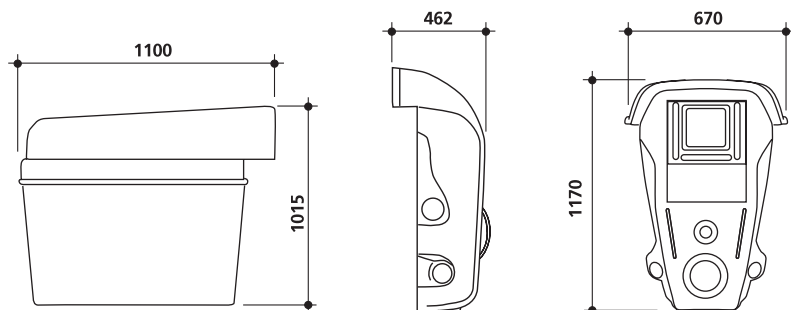
**HANG-OVER Unit:** The body is made of UV-resistant ABS plastic and includes a 23 W/12 V LED underwater light, skimmer, suction inlet, and 2 + 1 side and bottom oriented inlets, jet inlet, air regulator, counter current on/off pneumatic button, stainless steel handles. The Hang-over unit and filter room can be assembled separately using two different plastic covers (included).

**Filtration Room:** The base part is made of FRP, and the upper frame and room cover are made of UV-resistant ABS plastic. It comes complete with a circulation pump, 2 HP jet pump, sand or cartridge filter, electrical control board, pneumatic on-off switch, and transformer. The machine room and Hang-over unit can be installed separately. Top covers for such applications are included.



| Description                                                                                                         | Code       | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------------------------------------------------------------------|------------|----------------|--------------|--------------------------|
| Hang-over Unit                                                                                                      | 02511J     | 1              | 20,000       | 0,420                    |
| <b>Filtration room w/sand filter</b>                                                                                |            |                |              |                          |
| • Ø400 mm sand filter + 0,5 HP +<br>2" HP Jet pump - 6 m <sup>3</sup> /h                                            | 02512J     | 1              | 85,850       | 0,870                    |
| • Ø500 mm sand filter + 0,75 HP +<br>2" HP Jet Pump - 10 m <sup>3</sup> /h                                          | 02513J     | 1              | 89,650       | 0,870                    |
| <b>PS. In case of any inquiry for Ø615 or Ø710 filter, this unit could be incorporated w/filtration room 02517.</b> |            |                |              |                          |
| <b>Filtration room w/cartridge filter</b>                                                                           |            |                |              |                          |
| • P510 cartridge filter + 0,5 HP +<br>2" HP Jet pump - 6 m <sup>3</sup> /h                                          | 02514J     | 1              |              |                          |
| • P512 cartridge filter + 0,75 HP +<br>2" HP Jet pump - 10 m <sup>3</sup> /h                                        | 02515J     | 1              |              |                          |
| • P513 cartridge filter + 1" HP + 2" HP<br>Jet pump - 15 m <sup>3</sup> /h                                          | 02516J     | 1              |              |                          |
| <b>Options</b>                                                                                                      |            |                |              |                          |
| • ECOSlimLED Light                                                                                                  | 051130EO   | 1              |              |                          |
| • Chlorine feeder                                                                                                   | 069CLT167B | 1              |              |                          |

**PS. Filter media not included.**



## Filtration Rooms



### GEMAS FILTRATION ROOM

**CABIN II:** Body made of FRP, frame and top up made of ABS. Suitable up to Ø500 mm size premium top mounted sand filter. Body to be mounted in the ground.

**CABIN III:** Body and lid made LDPE, It is produced with rotational moulding technique. Complete with double sided wall joints, water drainage and locking nuts. Max. filter size Ø830 mm.

| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • Cabin II  | 02510   | 1          |           |                       |
| • Cabin III | 0251702 | 1          |           |                       |

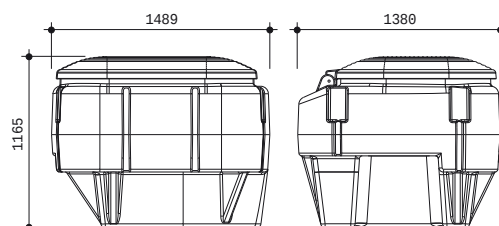
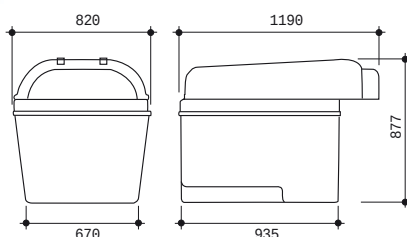


### GEMAS FILTRATION UNIT WITH ROOM

Gemas Filtration Room 0251702 installed with Filtrone Sand Filter, Mini Streamer Pump.

**Options:** Pool Control Mono pH and Redox Controller, Chlorine Feeder, HOZ-01/02 Ozone Generator, Remote Control for UW Light and Pump, Electrical Control Panel, Transformer.

| Description                                                           | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------------------------------|-------|------------|-----------|-----------------------|
| • Ø615 mm Sand Filter (021713) + 0,75 HP Pump - 15 m <sup>3</sup> /h. | 02517 | 1          | 124,000   | 1,950                 |
| • Ø710 mm Sand Filter (021814) + 1,5 HP Pump - 20 m <sup>3</sup> /h.  | 02518 | 1          | 140,000   | 1,950                 |



## GEMAS Multiport Valves - Manual

**GEMAS VALVEX 03 - SIDE.** Multiport valve, 1,5".

| Description                        | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|---------------|----------------|--------------|--------------------------|
| • 1,5" Threaded connections        | <b>02400T</b> | 1              | 1,600        |                          |
| • Ø50 mm Slip connections - metric | <b>02400</b>  | 1              | 1,600        | 0,008                    |



02400

**GEMAS VALVEX 03 - TOP.** Multiport valve - BSP threaded body for 1,5".  
Bolted lid connection for 2".

| Description                        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|------------------|----------------|--------------|--------------------------|
| • 1,5" Threaded connections        | <b>02403T</b>    | 1              | 1,900        | 0,015                    |
| • Ø50 mm Slip connections - metric | <b>02403</b>     | 1              | 1,900        |                          |
| • 2" Threaded connections          | <b>02213029T</b> | 1              | 3,500        |                          |
| • Ø63 mm Slip connections - metric | <b>02213029</b>  | 1              |              |                          |



02403



02213029T

**GEMAS VALVEX 03 - TOP CLAMPED.** Multiport valve, 1,5", clamp set not included.

| Description                        | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|---------------|----------------|--------------|--------------------------|
| • 1,5" Threaded connections        | <b>02404T</b> | 1              | 1,900        | 0,015                    |
| • Ø50 mm Slip connections - metric | <b>02404</b>  | 1              | 1,900        |                          |
| • Clamp set - (old)                | <b>024041</b> | 1              |              |                          |
| • Clamp set - (new)                | <b>024042</b> | 1              |              |                          |



02404



02213027

**GEMAS VALVEX 04 - SIDE.** Multiport valve, 2"

| Description                                | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------|------------------|----------------|--------------|--------------------------|
| • Multiport valve, 2" Threaded connections | <b>02213027T</b> | 1              | 2,956        | 0,016                    |
| • Ø63 mm Slip connections - metric         | <b>02213027</b>  | 1              | 3,000        |                          |



02213028

**GEMAS VALVEX 05 - SIDE.** Multiport valve, 2,5".

2" multiport valve outputs are with Ø75 mm sockets outside.

| Description                      | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------|-----------------|----------------|--------------|--------------------------|
| Ø75 mm Slip connections - metric | <b>02213028</b> | 1              |              | 0,016                    |



022130001

**SIDE MULTIPORT VALVE.** Threaded connection.

| Description                                  | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------|-------------------|----------------|--------------|--------------------------|
| • Side M.Valve 2,5" w/out connection, IMPORT | <b>022130001</b>  | 1              |              |                          |
| • GEMAS Side M.Valve, 3"w/out connection     | <b>022130003T</b> | 1              | 8,000        | 0,050                    |
| • Side M.Valve, 3" w/out connection, IMPORT  | <b>022130002</b>  | 1              |              |                          |
| • Side M.Valve, 4" w/out connection, IMPORT  | <b>022380-E20</b> | 1              | 18,000       | 0,120                    |



022130003T



022380-E20



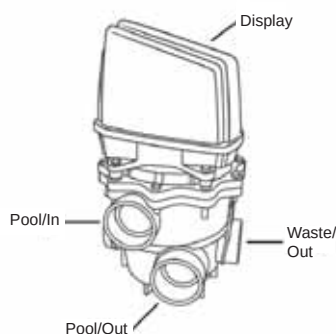
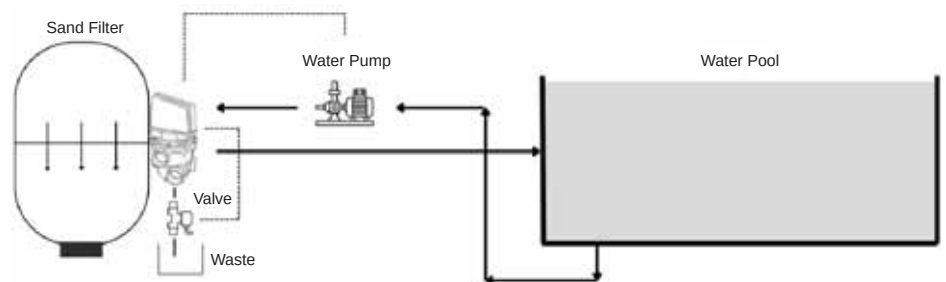
## Automatic Multiport Valves



An Automatic Multiport Valve (AMV) is a type of control valve used primarily in water treatment systems, especially in swimming pool filters, softeners, demineralizers, and filtration units, to automatically manage the flow of water through different processes. It simplifies and automates the routing of water through multiple ports (inlet, outlet, drain, backwash, rinse, etc.) by using pre-programmed electronic or mechanical controls.

- Easy installation
- Low weight and volume with compact design
- Waterproof – IP40
- Complies with CE standards and directives
- 230/115V AC power supply
- Compatible with Ø1.5" and Ø2" multiport valve bodies
- Pressure- and time-based programming
- Adjustable backwash and rinse durations  
Backwash: 0.5 ~ 4 min. / Rinse: 20 ~ 40 seconds)
- Automatic pump control
- Pool can be drained at any time via the drain button on the keypad
- Optional Wi-Fi control allows remote operation via the GEMAS SMART application
- Fast technical support service and hassle-free spare part supply

| Description                                      | Code           | Pieces/box | Weight Kg    | Volume m <sup>3</sup> |
|--------------------------------------------------|----------------|------------|--------------|-----------------------|
| • Automatic M.Valves; 1,5", Threaded con. IMPORT | <b>0221310</b> | 1          | <b>4,000</b> | <b>0,033</b>          |
| • Automatic M.Valves; 2", Threaded con. IMPORT   | <b>0221320</b> | 1          | <b>5,000</b> | <b>0,033</b>          |
| • GEMAS Automatic M.Valves; 1,5", Threaded con.  | <b>0221311</b> | 1          |              |                       |
| • GEMAS Automatic M.Valves; 2", Threaded con.    | <b>0221312</b> | 1          |              |                       |



- Fully Automated Operation Automatically controls all valve functions without manual intervention, ensuring reliable and consistent system performance.
- Multi-Function Control Supports multiple processes such as filtration, backwash, rinse, regeneration, and drain within a single compact unit.
- Programmable Settings Can be configured based on time, flow rate, or system demand for flexible and optimized operation.
- Compact and Space-Saving Design Combines several flow functions in one valve, reducing the need for multiple individual components.
- Reduced Maintenance and Labor Minimizes human error and manual handling, lowering operational costs and improving system reliability.
- Durable Construction Built from corrosion-resistant materials suitable for continuous use in harsh water treatment environments.

## Filtration Media - Quartz Sand

### Quartz Sand

| Description      | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|-------|----------------|--------------|--------------------------|
| • (0,5 - 1,0 mm) | 02312 | 1              | 25,000       | 0,040                    |
| • (1,0 - 3,0 mm) | 02313 | 1              | 25,000       | 0,040                    |
| • (3,0 - 5,0 mm) | 02314 | 1              | 25,000       | 0,040                    |



### Anthracite

| Description     | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|-------|----------------|--------------|--------------------------|
| Price per liter | 02321 | 1              | 30,000       | 0,040                    |



### Zeolite

| Description     | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|-------|----------------|--------------|--------------------------|
| Price per liter | 02331 | 1              | 25,000       | 0,050                    |

**PS:** Zeolite is used instead of Quartz or with Quartz.  
It is used to reduce Iron elements or stabilize the hardness in pool water.  
Should be backwashed and rinsed for 30 minutes before first operation.

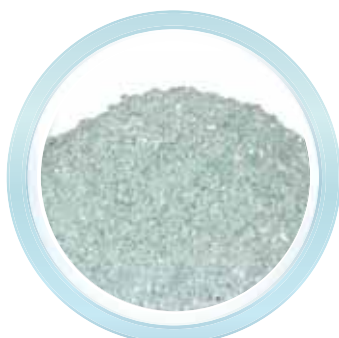
## Filter Sand Evacuation Tool

**SANDVAC.** Sand Evacuation Tool. Works with wet-dry vacuuming. Stainless Steel Body. Complete with hose. 220V / 50 Hz - Monophase

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 02601 | 1              |              |                          |



## GEMAS Glass Filtration Media



### GEMAS GLASS FILTER-MEDIA

An environmentally friendly alternative to silica sand for filtration purposes. It is made from recycled glass, eliminating the need for intrusive mining and reducing the consumption of scarce resources.

#### GGFM offers several benefits over silica sand:

**Improved Efficiency:** Due to its angular to sub-angular particle shape and bound silica content, GGFM provides a 30% improvement in turbidity removal compared to silica sand. It also has the ability to remove finer particles from water.

**Reduced Backwashing:** The non-porous composition of GGFM prevents it from clumping, resulting in reduced backwashing needs. This leads to water, energy, and chemical treatment cost savings.

**Cleaner Performance:** GGFM's smooth surface area makes it less susceptible to bio-fouling compared to silica sand. Bacteria are unable to get trapped in cracks or flaws, reducing the need for remedial action and chemical treatment to combat pollutants.

**Lower Material Requirement:** GGFM is less dense than sand, requiring 15% less media to fill an equivalent filter.

**Longer Lifespan:** GGFM's durability translates to a longer lifespan, potentially eliminating the need for media replacement during filter refurbishment.

Overall, GEMAS GLASS FILTER-MEDIA offers superior performance, cost-effectiveness, and environmental advantages compared to traditional silica sand. It contributes to efficient filtration, reduced maintenance, and a longer-lasting filtration system.

| Description                        | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|---------------|------------|-----------|-----------------------|
| • 0,6 mm - 1,00 mm grain thickness | <b>023411</b> | 1          |           |                       |
| • 1 mm - 3,00 mm grain thickness   | <b>023412</b> | 1          |           |                       |
| • 3 mm - 5,00 mm grain thickness   | <b>023413</b> | 1          |           |                       |

### Density Comparison GGFM Against Sand

| Dia of Filter (mm) | Total Grade 1&3 Sand Required (kg) | Total Grade 1&3 GGFM GGFM Required (kg) |
|--------------------|------------------------------------|-----------------------------------------|
| 600                | 150                                | 130                                     |
| 750                | 250                                | 215                                     |
| 900                | 450                                | 385                                     |
| 1000               | 700                                | 595                                     |
| 1200               | 1300                               | 1100                                    |
| 1400               | 1950                               | 1660                                    |
| 1600               | 2750                               | 2340                                    |
| 1800               | 3650                               | 3105                                    |
| 2000               | 4750                               | 4040                                    |
| 2200               | 5700                               | 4845                                    |
| 2400               | 6600                               | 5610                                    |
| 2500               | 7000                               | 5950                                    |

As GGFM is lighter than sand, it requires approximately 15% less GGFM to achieve the same filter bed depth as sand.

## Polymer Filtration Media

**Polymer Filtration Media - PFM:** Syntetic Filtration Media made of polymer, can be used instead of quartz sand for commercial or domestic sand filters. Its being lightweight is a great advantage during the application. Backwash can be done as usual. But as pressure increase is low inside the polluted filter, backwash should be done with timing (The longest backwash period once in a week). It gives opportunity to get the required flow rate rate with a smaller pump, as pressure loss is low. 1 bag of PFM is 500 gr and it's equal to 25 kg sand. Can also be used inside cartridge filters. It filters 1 micron particules and yet not flocculant is required with PFM.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| • PFM Bag   | 02351 | 1              | 25           |                          |





# POOL EQUIPMENT AND MATERIALS



03 Poolside Equipment

77

04 In-Pool Materials

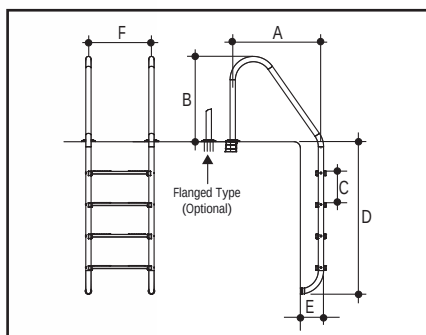
99



## Pool Ladders



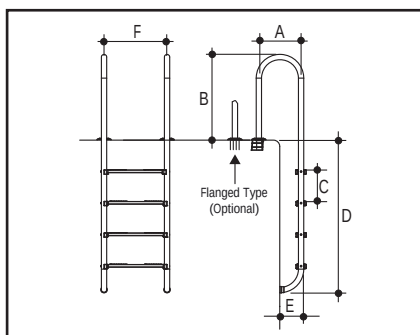
**STANDARD**



| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 250 | 700  | 190 | 500 |
| 3                | 700 | 690 | 250 | 950  | 190 | 500 |
| 4                | 700 | 690 | 250 | 1200 | 190 | 500 |
| 5                | 700 | 690 | 250 | 1450 | 190 | 500 |



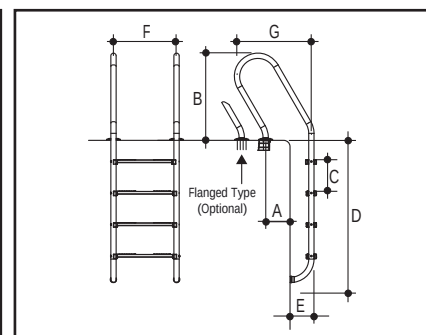
**"U" MODEL**



| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 330 | 670 | 250 | 700  | 190 | 500 |
| 3                | 330 | 670 | 250 | 950  | 190 | 500 |
| 4                | 330 | 670 | 250 | 1200 | 190 | 500 |
| 5                | 330 | 670 | 250 | 1450 | 190 | 500 |



**COMBINED**



| Number of Treads | A   | B   | C   | D    | E   | F   | G   |
|------------------|-----|-----|-----|------|-----|-----|-----|
| 2                | 210 | 690 | 250 | 630  | 190 | 500 | 640 |
| 3                | 210 | 690 | 250 | 880  | 190 | 500 | 640 |
| 4                | 210 | 690 | 250 | 1130 | 190 | 500 | 640 |
| 5                | 210 | 690 | 250 | 1380 | 190 | 500 | 640 |

500 mm width. The treads are made of AISI 304 grade stainless steel and feature anti-slip surface.

The handrails are made of Ø42 mm AISI 304 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

### STANDARD 304 MODEL WITH STAINLESS STEEL TREADS.

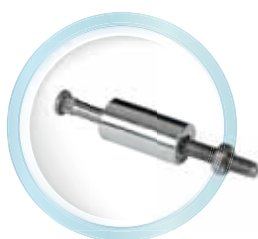
| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311111</b> | 1          | 10,200    | 0,122                 |
| • With 3 Stainless Steel Treads | <b>0311112</b> | 1          | 11,900    | 0,122                 |
| • With 4 Stainless Steel Treads | <b>0311113</b> | 1          | 13,300    | 0,122                 |
| • With 5 Stainless Steel Treads | <b>0311114</b> | 1          | 14,800    | 0,139                 |

### U 304 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311211</b> | 1          | 8,800     | 0,071                 |
| • With 3 Stainless Steel Treads | <b>0311212</b> | 1          | 10,200    | 0,071                 |
| • With 4 Stainless Steel Treads | <b>0311213</b> | 1          | 11,800    | 0,071                 |
| • With 5 Stainless Steel Treads | <b>0311214</b> | 1          | 13,100    | 0,079                 |

### COMBINED 304 MODEL WITH STAINLESS STEEL TREADS

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311311</b> | 1          | 9,700     | 0,118                 |
| • With 3 Stainless Steel Treads | <b>0311312</b> | 1          | 11,200    | 0,118                 |
| • With 4 Stainless Steel Treads | <b>0311313</b> | 1          | 12,800    | 0,118                 |
| • With 5 Stainless Steel Treads | <b>0311314</b> | 1          | 14,300    | 0,118                 |

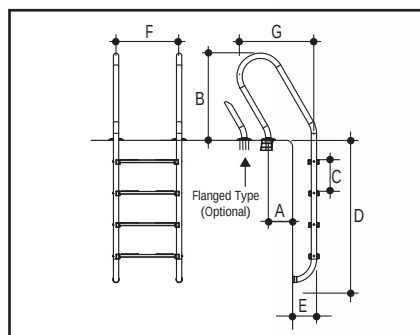
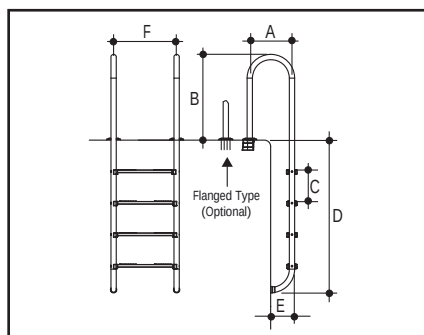
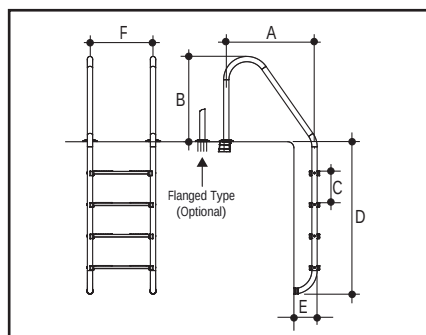


Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.

## Pool Ladders


**STANDARD**
**"U" MODEL**
**COMBINED**


| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 250 | 700  | 190 | 500 |
| 3                | 700 | 690 | 250 | 950  | 190 | 500 |
| 4                | 700 | 690 | 250 | 1200 | 190 | 500 |
| 5                | 700 | 690 | 250 | 1450 | 190 | 500 |

| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 330 | 670 | 250 | 700  | 190 | 500 |
| 3                | 330 | 670 | 250 | 950  | 190 | 500 |
| 4                | 330 | 670 | 250 | 1200 | 190 | 500 |
| 5                | 330 | 670 | 250 | 1450 | 190 | 500 |

| Number of Treads | A   | B   | C   | D    | E   | F   | G   |
|------------------|-----|-----|-----|------|-----|-----|-----|
| 2                | 210 | 690 | 250 | 630  | 190 | 500 | 640 |
| 3                | 210 | 690 | 250 | 880  | 190 | 500 | 640 |
| 4                | 210 | 690 | 250 | 1130 | 190 | 500 | 640 |
| 5                | 210 | 690 | 250 | 1380 | 190 | 500 | 640 |

500 mm width. The treads are made of AISI 316 grade stainless steel and feature anti-slip surface. The handrails are made of Ø42 mm AISI 316 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

### STANDARD 316 MODEL WITH STAINLESS STEEL TREADS.

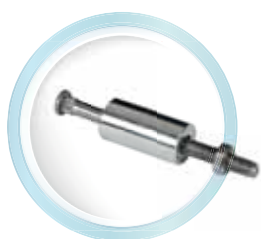
| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312111</b> | 1          | 10,600    | 0,122                 |
| • With 3 Stainless Steel Treads | <b>0312112</b> | 1          | 12,300    | 0,122                 |
| • With 4 Stainless Steel Treads | <b>0312113</b> | 1          | 13,700    | 0,122                 |
| • With 5 Stainless Steel Treads | <b>0312114</b> | 1          | 15,200    | 0,139                 |

### U 316 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312221</b> | 1          | 9,200     | 0,071                 |
| • With 3 Stainless Steel Treads | <b>0312222</b> | 1          | 10,600    | 0,071                 |
| • With 4 Stainless Steel Treads | <b>0312223</b> | 1          | 12,200    | 0,071                 |
| • With 5 Stainless Steel Treads | <b>0312224</b> | 1          | 13,500    | 0,079                 |

### COMBINED 316 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312311</b> | 1          | 10,100    | 0,118                 |
| • With 3 Stainless Steel Treads | <b>0312312</b> | 1          | 11,600    | 0,118                 |
| • With 4 Stainless Steel Treads | <b>0312313</b> | 1          | 13,200    | 0,118                 |
| • With 5 Stainless Steel Treads | <b>0312314</b> | 1          | 14,700    | 0,118                 |



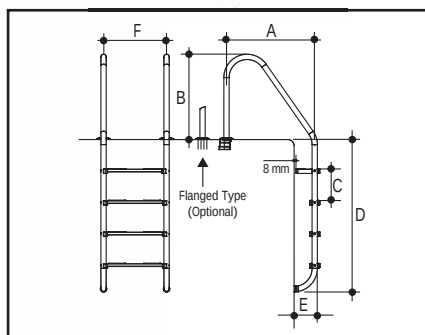
Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

## Pool Ladders - Commercial Pools



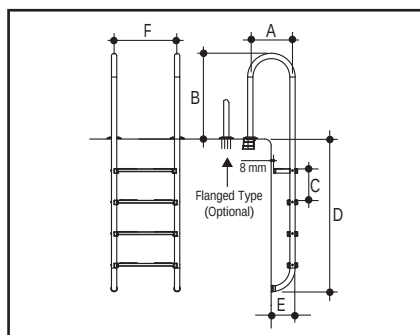
STANDARD



| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 250 | 700  | 190 | 500 |
| 3                | 700 | 690 | 250 | 950  | 190 | 500 |
| 4                | 700 | 690 | 250 | 1200 | 190 | 500 |
| 5                | 700 | 690 | 250 | 1450 | 190 | 500 |



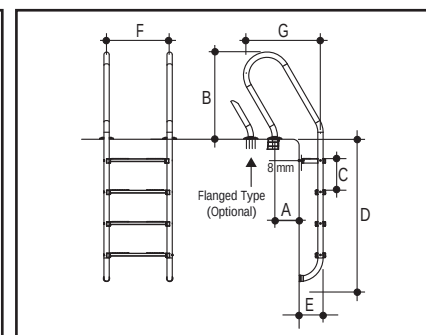
"U" MODEL



| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 330 | 670 | 250 | 700  | 190 | 500 |
| 3                | 330 | 670 | 250 | 950  | 190 | 500 |
| 4                | 330 | 670 | 250 | 1200 | 190 | 500 |
| 5                | 330 | 670 | 250 | 1450 | 190 | 500 |

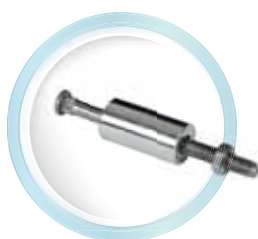


COMBINED



| Number of Treads | A   | B   | C   | D    | E   | F   | G   |
|------------------|-----|-----|-----|------|-----|-----|-----|
| 2                | 210 | 690 | 250 | 630  | 190 | 500 | 640 |
| 3                | 210 | 690 | 250 | 880  | 190 | 500 | 640 |
| 4                | 210 | 690 | 250 | 1130 | 190 | 500 | 640 |
| 5                | 210 | 690 | 250 | 1380 | 190 | 500 | 640 |

500 mm width. The treads are made of AISI 304 grade stainless steel and feature anti-slip surface. The handrails are made of Ø42 mm AISI 304 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts. Manufactured with double safety tread in accordance to EN 13451-2/AC standard.



Zinc Anode

### STANDARD 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311111EU</b> | 1          | 11,400    | 0,122                 |
| • With 3 Stainless Steel Treads | <b>0311112EU</b> | 1          | 13,100    | 0,122                 |
| • With 4 Stainless Steel Treads | <b>0311113EU</b> | 1          | 14,500    | 0,122                 |
| • With 5 Stainless Steel Treads | <b>0311114EU</b> | 1          | 16,000    | 0,139                 |

### U 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311211EU</b> | 1          | 10,000    | 0,071                 |
| • With 3 Stainless Steel Treads | <b>0311212EU</b> | 1          | 11,400    | 0,071                 |
| • With 4 Stainless Steel Treads | <b>0311213EU</b> | 1          | 13,000    | 0,071                 |
| • With 5 Stainless Steel Treads | <b>0311214EU</b> | 1          | 14,300    | 0,079                 |

### COMBINED 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

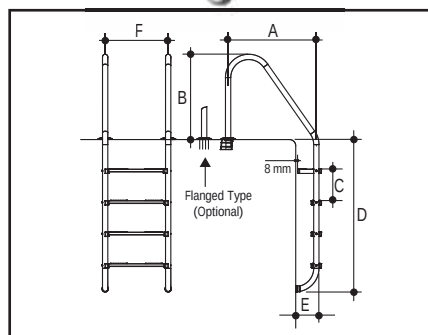
| Description                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311311EU</b> | 1          | 10,900    | 0,118                 |
| • With 3 Stainless Steel Treads | <b>0311312EU</b> | 1          | 12,400    | 0,118                 |
| • With 4 Stainless Steel Treads | <b>0311313EU</b> | 1          | 14,000    | 0,118                 |
| • With 5 Stainless Steel Treads | <b>0311314EU</b> | 1          | 15,500    | 0,118                 |

**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

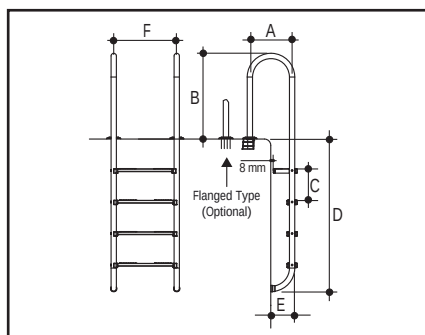
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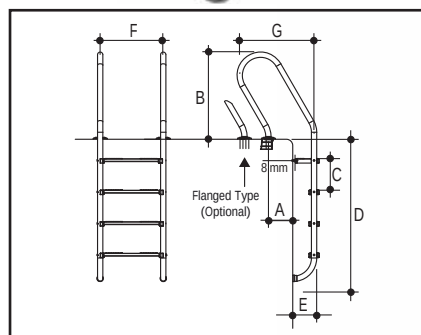
## Pool Ladders - Commercial Pools


**STANDARD**


| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 250 | 700  | 190 | 500 |
| 3                | 700 | 690 | 250 | 950  | 190 | 500 |
| 4                | 700 | 690 | 250 | 1200 | 190 | 500 |
| 5                | 700 | 690 | 250 | 1450 | 190 | 500 |


**"U" MODEL**


| Number of Treads | A   | B   | C   | D    | E   | F   |
|------------------|-----|-----|-----|------|-----|-----|
| 2                | 330 | 670 | 250 | 700  | 190 | 500 |
| 3                | 330 | 670 | 250 | 950  | 190 | 500 |
| 4                | 330 | 670 | 250 | 1200 | 190 | 500 |
| 5                | 330 | 670 | 250 | 1450 | 190 | 500 |


**COMBINED**


| Number of Treads | A   | B   | C   | D    | E   | F   | G   |
|------------------|-----|-----|-----|------|-----|-----|-----|
| 2                | 210 | 690 | 250 | 630  | 190 | 500 | 640 |
| 3                | 210 | 690 | 250 | 880  | 190 | 500 | 640 |
| 4                | 210 | 690 | 250 | 1130 | 190 | 500 | 640 |
| 5                | 210 | 690 | 250 | 1380 | 190 | 500 | 640 |

500 mm width. The treads are made of AISI 316 grade stainless steel and feature anti-slip surface.

The handrails are made of Ø42 mm AISI 316 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

Manufactured with double safety tread in accordance to EN 13451-2/AC standard.

### STANDARD 316 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

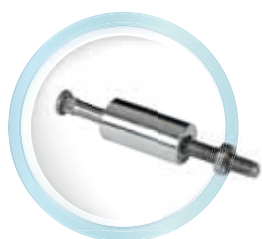
| Description                     | Code             | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|------------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0312111EU</b> | 1           | 11,800    | 0,122     |
| • With 3 Stainless Steel Treads | <b>0312112EU</b> | 1           | 13,500    | 0,122     |
| • With 4 Stainless Steel Treads | <b>0312113EU</b> | 1           | 14,900    | 0,122     |
| • With 5 Stainless Steel Treads | <b>0312114EU</b> | 1           | 16,400    | 0,139     |

### U 316 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|------------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0312211EU</b> | 1           | 10,400    | 0,071     |
| • With 3 Stainless Steel Treads | <b>0312212EU</b> | 1           | 11,800    | 0,071     |
| • With 4 Stainless Steel Treads | <b>0312213EU</b> | 1           | 13,400    | 0,071     |
| • With 5 Stainless Steel Treads | <b>0312214EU</b> | 1           | 14,700    | 0,079     |

### COMBINED 316 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|------------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0312311EU</b> | 1           | 11,300    | 0,118     |
| • With 3 Stainless Steel Treads | <b>0312312EU</b> | 1           | 12,800    | 0,118     |
| • With 4 Stainless Steel Treads | <b>0312313EU</b> | 1           | 14,200    | 0,118     |
| • With 5 Stainless Steel Treads | <b>0312314EU</b> | 1           | 15,900    | 0,118     |



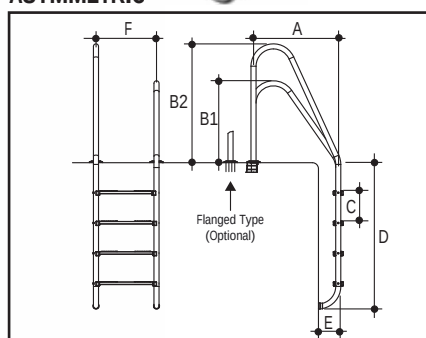
Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding.  
For ladders with zinc anode protection, please add "Z" at end of product code.

## Pool Ladders



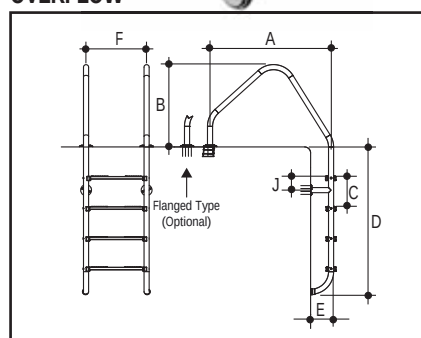
**ASYMMETRIC**



| Number of Treads | A   | B1  | B2  | C   | D    | E   | F   |
|------------------|-----|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 980 | 250 | 730  | 190 | 500 |
| 3                | 700 | 690 | 980 | 250 | 980  | 190 | 500 |
| 4                | 700 | 690 | 980 | 250 | 1230 | 190 | 500 |
| 5                | 700 | 690 | 980 | 250 | 1480 | 190 | 500 |



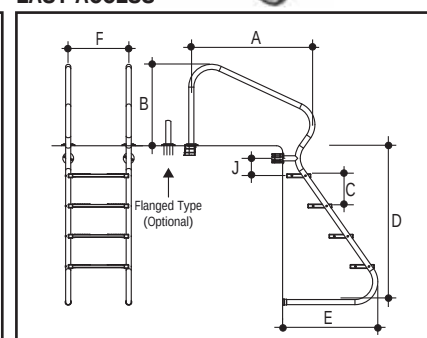
**OVERFLOW**



| Number of Treads | A    | B   | C   | D    | E   | F   | J   |
|------------------|------|-----|-----|------|-----|-----|-----|
| 2                | 1020 | 650 | 250 | 750  | 190 | 500 | 100 |
| 3                | 1020 | 650 | 250 | 1000 | 190 | 500 | 100 |
| 4                | 1020 | 650 | 250 | 1250 | 190 | 500 | 100 |
| 5                | 1020 | 650 | 250 | 1500 | 190 | 500 | 100 |



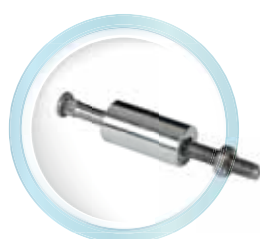
**EASY ACCESS**



| Number of Treads | A    | B   | C   | D    | E   | F   | J   |
|------------------|------|-----|-----|------|-----|-----|-----|
| 2                | 1020 | 670 | 250 | 770  | 440 | 500 | 150 |
| 3                | 1020 | 670 | 250 | 1020 | 615 | 500 | 150 |
| 4                | 1020 | 670 | 250 | 1270 | 790 | 500 | 150 |
| 5                | 1020 | 670 | 250 | 1520 | 965 | 500 | 150 |

500 mm width. The treads are made of AISI 304 grade stainless steel and feature anti-slip surface.

The handrails are made of Ø42 mm AISI 304 grade polished stainless steel pipe. Manufactured with double safety tread in accordance to EN 13451-2/AC standard. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.



Zinc Anode

### ASYMMETRIC 304 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311811</b> | 1          |           | 0,247                 |
| • With 3 Stainless Steel Treads | <b>0311812</b> | 1          |           | 0,247                 |
| • With 4 Stainless Steel Treads | <b>0311813</b> | 1          |           | 0,247                 |
| • With 5 Stainless Steel Treads | <b>0311814</b> | 1          |           | 0,271                 |

### OVERFLOW 304 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311411</b> | 1          | 12,500    | 0,247                 |
| • With 3 Stainless Steel Treads | <b>0311412</b> | 1          | 13,700    | 0,247                 |
| • With 4 Stainless Steel Treads | <b>0311413</b> | 1          | 15,100    | 0,247                 |
| • With 5 Stainless Steel Treads | <b>0311414</b> | 1          | 17,000    | 0,271                 |

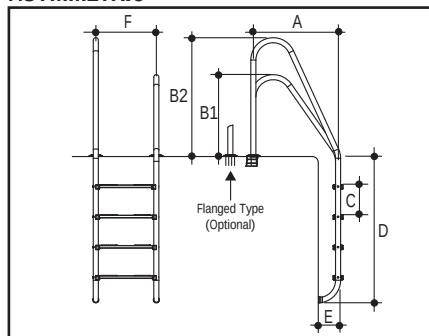
### EASY ACCESS 304 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311511</b> | 1          |           |                       |
| • With 3 Stainless Steel Treads | <b>0311512</b> | 1          |           |                       |
| • With 4 Stainless Steel Treads | <b>0311513</b> | 1          |           |                       |
| • With 5 Stainless Steel Treads | <b>0311514</b> | 1          |           |                       |

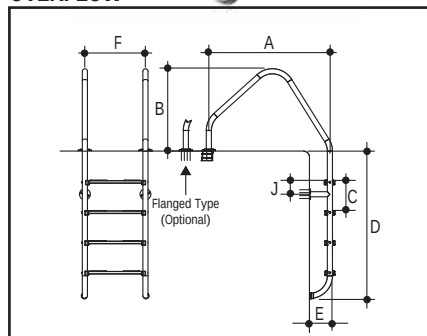
**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.

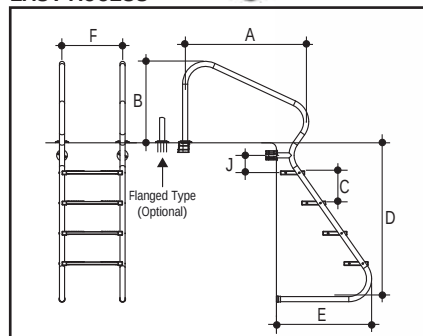
## Pool Ladders


**ASYMMETRIC**


| Number of Treads | A   | B1  | B2  | C   | D    | E   | F   |
|------------------|-----|-----|-----|-----|------|-----|-----|
| 2                | 700 | 690 | 980 | 250 | 730  | 190 | 500 |
| 3                | 700 | 690 | 980 | 250 | 980  | 190 | 500 |
| 4                | 700 | 690 | 980 | 250 | 1230 | 190 | 500 |
| 5                | 700 | 690 | 980 | 250 | 1480 | 190 | 500 |


**OVERFLOW**


| Number of Treads | A    | B   | C   | D    | E   | F   | J   |
|------------------|------|-----|-----|------|-----|-----|-----|
| 2                | 1020 | 650 | 250 | 750  | 190 | 500 | 100 |
| 3                | 1020 | 650 | 250 | 1000 | 190 | 500 | 100 |
| 4                | 1020 | 650 | 250 | 1250 | 190 | 500 | 100 |
| 5                | 1020 | 650 | 250 | 1500 | 190 | 500 | 100 |


**EASY ACCESS**


| Number of Treads | A    | B   | C   | D    | E   | F   | J   |
|------------------|------|-----|-----|------|-----|-----|-----|
| 2                | 1020 | 670 | 250 | 770  | 440 | 500 | 150 |
| 3                | 1020 | 670 | 250 | 1020 | 615 | 500 | 150 |
| 4                | 1020 | 670 | 250 | 1270 | 790 | 500 | 150 |
| 5                | 1020 | 670 | 250 | 1520 | 965 | 500 | 150 |

### ASYMMETRIC 316 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|-------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312811</b> | 1           |           | 0,247                 |
| • With 3 Stainless Steel Treads | <b>0312812</b> | 1           |           | 0,247                 |
| • With 4 Stainless Steel Treads | <b>0312813</b> | 1           |           | 0,247                 |
| • With 5 Stainless Steel Treads | <b>0312814</b> | 1           |           | 0,271                 |

500 mm width. The treads are made of AISI 316 grade stainless steel and feature anti-slip surface.

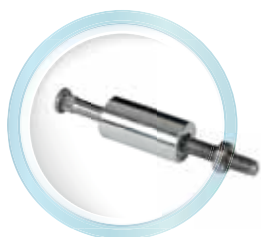
The handrails are made of Ø42 mm AISI 316 grade polished stainless steel pipe. Manufactured with double safety tread in accordance to EN 13451-2/AC standard. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

### OVERFLOW 316 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|-------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312411</b> | 1           | 12,500    | 0,247                 |
| • With 3 Stainless Steel Treads | <b>0312412</b> | 1           | 13,700    | 0,247                 |
| • With 4 Stainless Steel Treads | <b>0312413</b> | 1           | 15,100    | 0,247                 |
| • With 5 Stainless Steel Treads | <b>0312414</b> | 1           | 17,000    | 0,271                 |

### EASY ACCESS 316 MODEL WITH STAINLESS STEEL TREADS.

| Description                     | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|-------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312511</b> | 1           |           |                       |
| • With 3 Stainless Steel Treads | <b>0312512</b> | 1           |           |                       |
| • With 4 Stainless Steel Treads | <b>0312513</b> | 1           |           |                       |
| • With 5 Stainless Steel Treads | <b>0312514</b> | 1           |           |                       |



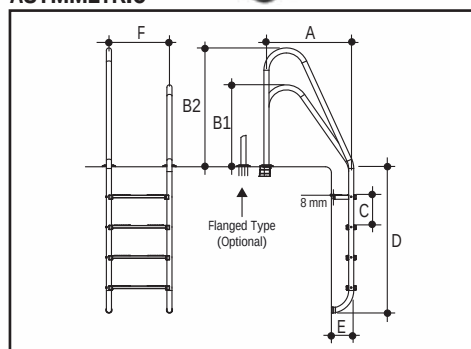
Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

## Pool Ladders - Commercial Pools



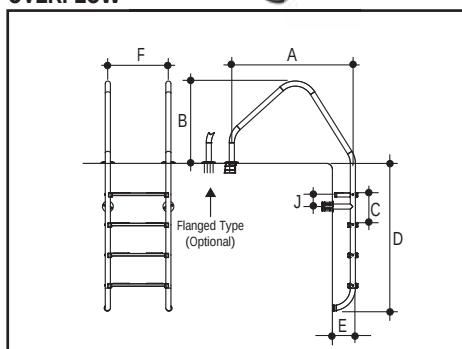
ASYMMETRIC



| Number of Treads | A   | B1  | B2  | C   | D    | E   | F   |
|------------------|-----|-----|-----|-----|------|-----|-----|
| 2                | 700 | 670 | 965 | 250 | 720  | 180 | 500 |
| 3                | 700 | 670 | 965 | 250 | 980  | 180 | 500 |
| 4                | 700 | 670 | 965 | 250 | 1260 | 180 | 500 |
| 5                | 700 | 670 | 965 | 250 | 1470 | 180 | 500 |



OVERFLOW



| Number of Treads | A    | B   | C   | D    | E   | F   |
|------------------|------|-----|-----|------|-----|-----|
| 2                | 1020 | 660 | 250 | 650  | 180 | 500 |
| 3                | 1020 | 660 | 250 | 900  | 180 | 500 |
| 4                | 1020 | 660 | 250 | 1240 | 180 | 500 |
| 5                | 1020 | 660 | 250 | 1425 | 180 | 500 |

500 mm width. The treads are made of AISI 304 grade stainless steel and feature anti-slip surface.

The handrails are made of Ø42 mm AISI 304 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

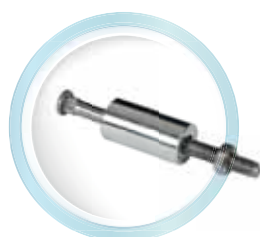
Manufactured with double safety tread in accordance to EN 13451-2/AC standard.

### ASYMMETRIC 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311811EU</b> | 1          |           |                       |
| • With 3 Stainless Steel Treads | <b>0311812EU</b> | 1          |           |                       |
| • With 4 Stainless Steel Treads | <b>0311813EU</b> | 1          |           |                       |
| • With 5 Stainless Steel Treads | <b>0311814EU</b> | 1          |           |                       |

### OVERFLOW 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg     | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|---------------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0311411EU</b> | 1          | <b>13,700</b> | <b>0,247</b>          |
| • With 3 Stainless Steel Treads | <b>0311412EU</b> | 1          | <b>14,900</b> | <b>0,247</b>          |
| • With 4 Stainless Steel Treads | <b>0311413EU</b> | 1          | <b>17,300</b> | <b>0,247</b>          |
| • With 5 Stainless Steel Treads | <b>0311414EU</b> | 1          | <b>19,200</b> | <b>0,271</b>          |



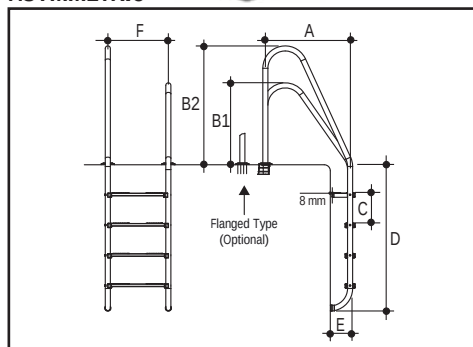
Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding.  
For ladders with zinc anode protection, please add "Z" at end of product code.

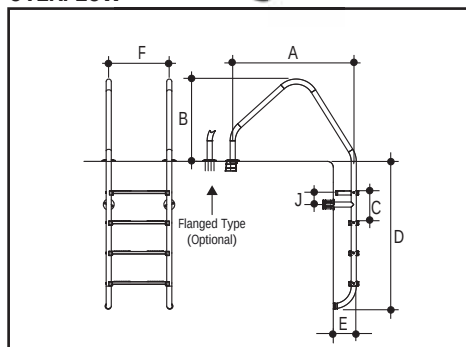
We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.



## Pool Ladders - Commercial Pools


**ASYMMETRIC**


| Number of Treads | A    | B   | C   | D    | E   | F   |
|------------------|------|-----|-----|------|-----|-----|
| 2                | 1020 | 660 | 250 | 650  | 180 | 500 |
| 3                | 1020 | 660 | 250 | 900  | 180 | 500 |
| 4                | 1020 | 660 | 250 | 1240 | 180 | 500 |
| 5                | 1020 | 660 | 250 | 1425 | 180 | 500 |


**OVERFLOW**


| Number of Treads | A   | B1  | B2  | C   | D    | E   | F   |
|------------------|-----|-----|-----|-----|------|-----|-----|
| 2                | 700 | 670 | 965 | 250 | 720  | 180 | 500 |
| 3                | 700 | 670 | 965 | 250 | 980  | 180 | 500 |
| 4                | 700 | 670 | 965 | 250 | 1260 | 180 | 500 |
| 5                | 700 | 670 | 965 | 250 | 1470 | 180 | 500 |

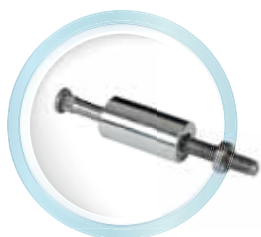
500 mm width. The treads are made of AISI 316 grade stainless steel and feature anti-slip surface. The handrails are made of Ø42 mm AISI 316 grade polished stainless steel pipe. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts. Manufactured with double safety tread in accordance to EN 13451-2/AC standard.

### ASYMMETRIC 316 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|-----------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312811EU</b> | 1          |           |                       |
| • With 3 Stainless Steel Treads | <b>0312812EU</b> | 1          |           |                       |
| • With 4 Stainless Steel Treads | <b>0312813EU</b> | 1          |           |                       |
| • With 5 Stainless Steel Treads | <b>0312814EU</b> | 1          |           |                       |

### OVERFLOW 316 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

| Description                     | Code             | Pieces/box | Weight Kg     | Volume m <sup>3</sup> |
|---------------------------------|------------------|------------|---------------|-----------------------|
| • With 2 Stainless Steel Treads | <b>0312411EU</b> | 1          | <b>14,100</b> | <b>0,247</b>          |
| • With 3 Stainless Steel Treads | <b>0312412EU</b> | 1          | <b>15,300</b> | <b>0,247</b>          |
| • With 4 Stainless Steel Treads | <b>0312413EU</b> | 1          | <b>16,700</b> | <b>0,247</b>          |
| • With 5 Stainless Steel Treads | <b>0312414EU</b> | 1          | <b>19,600</b> | <b>0,271</b>          |

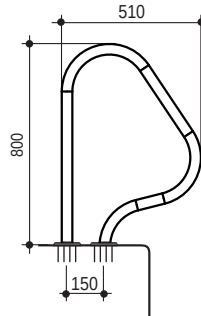


Zinc Anode

**PS:** It is functional with an anchor suitable for ladder grounding. For ladders with zinc anode protection, please add "Z" at end of product code.

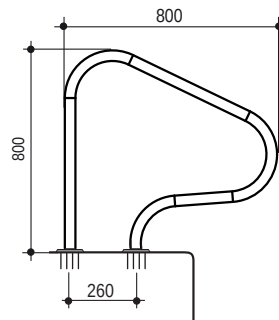
## Grab Rails for Split Model Pool Ladders

**Steep Grab Rail:** 510 x 800 mm. Made of Ø42 mm AISI 304 stainless steel pipe. Complete with fixing plates, bolts and bolt plugs.



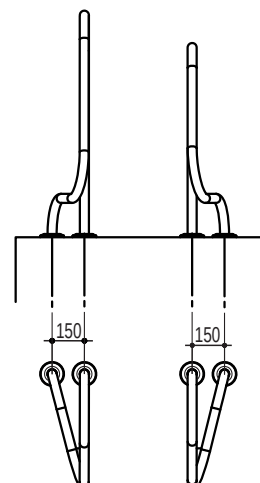
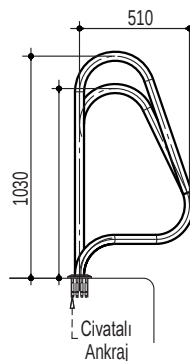
| Description | Code  | Pieces/box | Weight Kg | Volume m³ |
|-------------|-------|------------|-----------|-----------|
| Set of 2    | 03322 | 1          | 5,000     | 5,000     |

**Deep Grab Rail:** 800 x 800 mm. Made of Ø42 mm AISI 304 stainless steel pipe. Complete with fixing plates, bolts and bolt plugs.



| Description | Code  | Pieces/box | Weight Kg | Volume m³ |
|-------------|-------|------------|-----------|-----------|
| Set of 2    | 03323 | 1          | 5,000     | 5,000     |

**Cross Grab Rail:** Ø42 mm. Made of Ø42 mm AISI 304 stainless steel pipe. Complete with monoblock rectangular fixing plate, bolts and bolt plugs.



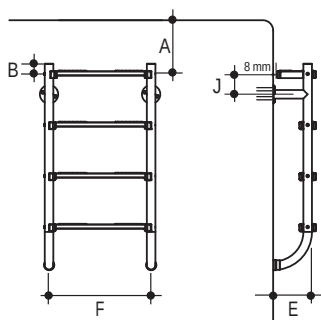
| Description | Code  | Pieces/box | Weight Kg | Volume m³ |
|-------------|-------|------------|-----------|-----------|
| Set of 2    | 03324 | 1          | 5,000     | 5,000     |

## Pool Ladders

### SPLIT 304 MODEL WITH STAINLESS STEEL TREADS.

500 mm width. Treads in AISI 304 grade stainless steel and anti-slip. Handrails made of Ø42 mm pipe are in AISI 304 grade polished stainless steel. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

| Number of Treads | A   | B  | C   | E   | F   | J   |
|------------------|-----|----|-----|-----|-----|-----|
| 2                | 250 | 50 | 250 | 190 | 500 | 100 |
| 3                | 250 | 50 | 250 | 190 | 500 | 100 |
| 4                | 250 | 50 | 250 | 190 | 500 | 100 |
| 5                | 250 | 50 | 250 | 190 | 500 | 100 |



| Description                     | Code           | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|----------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0311711</b> | 1           | 12,500    | 0,247     |
| • With 3 Stainless Steel Treads | <b>0311712</b> | 1           | 13,700    | 0,247     |
| • With 4 Stainless Steel Treads | <b>0311713</b> | 1           | 15,100    | 0,247     |
| • With 5 Stainless Steel Treads | <b>0311714</b> | 1           | 17,000    | 0,271     |

### SPLIT 316 MODEL WITH STAINLESS STEEL TREADS.

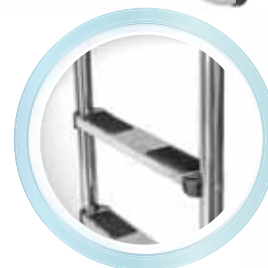
500 mm width. Treads in AISI 316 grade stainless steel and anti-slip. Handrails made of Ø42 mm pipe are in AISI 316 grade polished stainless steel. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.

| Description                     | Code           | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|----------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0312711</b> | 1           | 12,500    | 0,247     |
| • With 3 Stainless Steel Treads | <b>0312712</b> | 1           | 13,700    | 0,247     |
| • With 4 Stainless Steel Treads | <b>0312713</b> | 1           | 15,100    | 0,247     |
| • With 5 Stainless Steel Treads | <b>0312714</b> | 1           | 17,000    | 0,271     |

### SPLIT 304 MODEL WITH STAINLESS STEEL TREADS - FOR PUBLIC POOLS.

500 mm width. Treads in AISI 304 grade stainless steel and anti-slip. Handrails made of Ø42 mm pipe are in AISI 304 grade polished stainless steel. Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts. Manufactured with double safety tread in accordance to EN 13451- 2/AC standard.

| Description                     | Code             | Pieces/ box | Weight Kg | Volume m³ |
|---------------------------------|------------------|-------------|-----------|-----------|
| • With 2 Stainless Steel Treads | <b>0311711EU</b> | 1           | 12,900    | 0,247     |
| • With 3 Stainless Steel Treads | <b>0311712EU</b> | 1           | 14,100    | 0,247     |
| • With 4 Stainless Steel Treads | <b>0311713EU</b> | 1           | 15,500    | 0,247     |
| • With 5 Stainless Steel Treads | <b>0311714EU</b> | 1           | 17,400    | 0,271     |

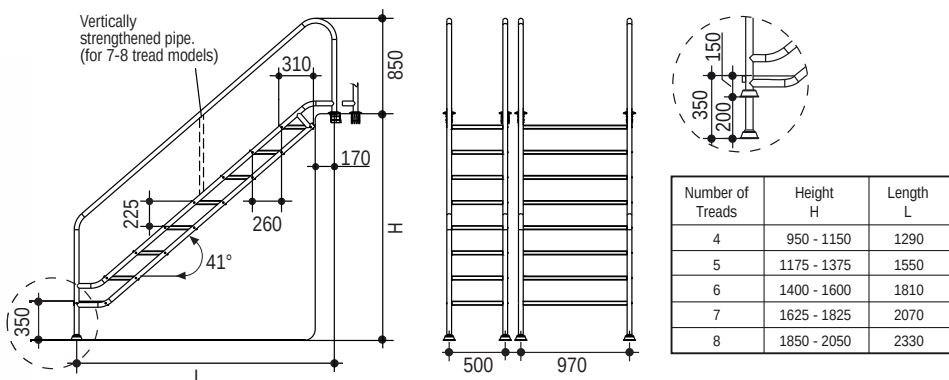


## Pool Ladders for Disabled Persons



### INCLINED 304 MODEL STAINLESS STEEL POOL LADDER - WIDTH = 500 mm.

For easy entry and exit in to and out from leisure or hydrotherapy pools for people not requiring a hydraulic lift chair. Handrails made of Ø42 mm pipe are in AISI 304 grade polished stainless steel. Complete with anti-slip stainless steel treads plastic anchors, anchor escutcheons, end caps, bolts and nuts.



| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 4 Stainless Steel Treads | <b>0311611</b> | 1          |           |                       |
| • With 5 Stainless Steel Treads | <b>0311612</b> | 1          |           |                       |
| • With 6 Stainless Steel Treads | <b>0311613</b> | 1          |           |                       |
| • With 7 Stainless Steel Treads | <b>0311614</b> | 1          |           |                       |
| • With 8 Stainless Steel Treads | <b>0311615</b> | 1          |           |                       |

PS: For 316 stainless steel P.A.P.

### INCLINED 304 MODEL STAINLESS STEEL POOL LADDER - WIDTH = 970 mm.

For easy entry and exit in to and out from leisure or hydrotherapy pools for people not requiring a hydraulic lift chair. Handrails made of Ø42 mm pipe are in AISI 304 grade polished stainless steel. Complete with anti-slip stainless steel treads plastic anchors, anchor escutcheons, end caps, bolts and nuts.



| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • With 4 Stainless Steel Treads | <b>0311621</b> | 1          |           |                       |
| • With 5 Stainless Steel Treads | <b>0311622</b> | 1          |           |                       |
| • With 6 Stainless Steel Treads | <b>0311623</b> | 1          |           |                       |
| • With 7 Stainless Steel Treads | <b>0311624</b> | 1          |           |                       |
| • With 8 Stainless Steel Treads | <b>0311625</b> | 1          |           |                       |

PS: For 316 stainless steel P.A.P.

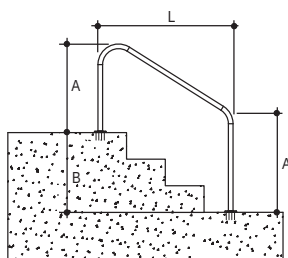




## Handrails for Concrete Steps

**IN-POOL HANDRAIL.** Made of AISI 304 grade polished stainless steel Ø42 mm pipe. Complete with fixing plates and screws.

| Description       | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------------|--------------|----------------|--------------|--------------|
| • Length: 1220 mm | <b>03311</b> | 1              | <b>7,000</b> | <b>0,237</b> |
| • Length: 1524 mm | <b>03312</b> | 1              | <b>8,000</b> | <b>0,261</b> |

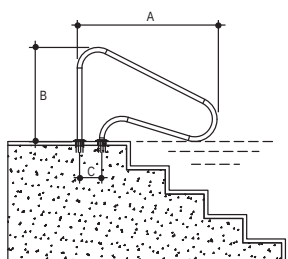


| L    | A   | B   |
|------|-----|-----|
| 1220 | 800 | 680 |
| 1524 | 800 | 855 |



**OUT-POOL HANDRAIL.** Made of AISI 304 grade polished St. steel Ø42 mm pipe. Complete with fixing plates and screws.

| Description     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-----------------|--------------|----------------|--------------|--------------|
| Length: 1250 mm | <b>03321</b> | 1              | <b>5,000</b> | <b>0,060</b> |



| A    | B   | C   |
|------|-----|-----|
| 1250 | 850 | 200 |



**LATERAL GRAB RAIL WITH FIXING PLATES.** Made of AISI 304 grade polished stainless steel Ø42 mm pipe. Complete with fixing plates and screws.

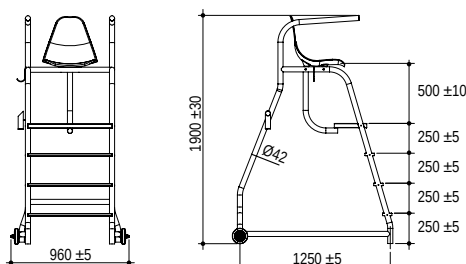
| Description     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-----------------|--------------|----------------|--------------|--------------|
| • Length: 0.5 m | <b>03331</b> | 1              | <b>2,000</b> | <b>0,019</b> |
| • Length: 1.0 m | <b>03332</b> | 1              | <b>3,000</b> | <b>0,037</b> |
| • Length: 2.0 m | <b>03333</b> | 1              | <b>7,500</b> | <b>0,072</b> |
| • Length: 2.5 m | <b>03334</b> | 1              | <b>9,000</b> | <b>0,089</b> |



### LIFEGUARD SEAT.

AISI 304 grade polished stainless steel Ø42 mm pipe.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|--------------|----------------|--------------|--------------|
| Model 2     | <b>14671</b> | 1              |              |              |



## Ladder Accessories



**LADDER ANCHOR.** Made of plastic for Ø42 mm pipe, grounding connection is optional.

| Description                      | Code            | Pieces/box | Weight Kg    | Volume m <sup>3</sup> |
|----------------------------------|-----------------|------------|--------------|-----------------------|
| • Solid plastic for Ø42 mm pipe. | <b>03201</b>    |            | <b>0,142</b> |                       |
| • Stainless steel anchor         | <b>03201S</b>   |            |              |                       |
| • Ditto, 316 K                   | <b>03201S01</b> |            |              |                       |

**PS:** Please place special order for anchor models with ground connection.



### ANCHOR ESCUTCHEON

| Description                                                      | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| Made of AISI 304 grade polished stainless steel, price per piece | <b>032021</b> |            |           |                       |



### LADDER TREADS

| Description                                                                                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| • Made of AISI 304 St. steel with anti-slip pad for Ø42 mm handrails, width 500 mm              | <b>032031</b>  | <b>1</b>   |           |                       |
| • Ditto, Inclined                                                                               | <b>0320311</b> | <b>1</b>   |           |                       |
| • Made of AISI 304 St. steel with anti-slip pad for Ø38 mm handrails, width 500 mm              | <b>032032</b>  | <b>1</b>   |           |                       |
| • Ditto, Inclined                                                                               | <b>0320321</b> | <b>1</b>   |           |                       |
| • Double Tread.Made of AISI 304 St. steel with anti-slip pad for Ø42 mm handrails, width 500 mm | <b>032033</b>  | <b>1</b>   |           |                       |
| • Ditto, Inclined                                                                               | <b>0320331</b> | <b>1</b>   |           |                       |



### ARTICULATED ANCHOR

| Description                                                            | Code         | Pieces/box | Weight Kg    | Volume m <sup>3</sup> |
|------------------------------------------------------------------------|--------------|------------|--------------|-----------------------|
| Made of AISI 304 grade St. steel for Ø42 mm handrails. Price per piece | <b>03210</b> |            | <b>0,602</b> |                       |

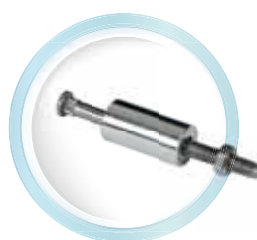


03204

03205

### END CAP

| Description                                                                                               | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Flexible for Ø42 mm pipe. Price per piece                                                               | <b>03204</b> |            |           |                       |
| • Swivel foot pad for Ø42 mm pipe. Angle can be adjusted by rotating the eye ball socket. Price per piece | <b>03205</b> |            |           |                       |



### ZINC ANODE FOR LADDER PROTECTION

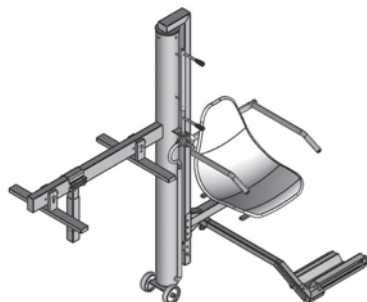
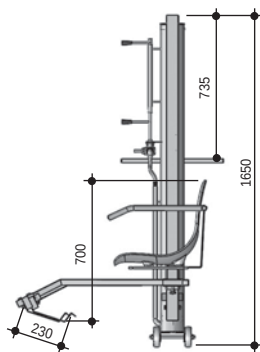
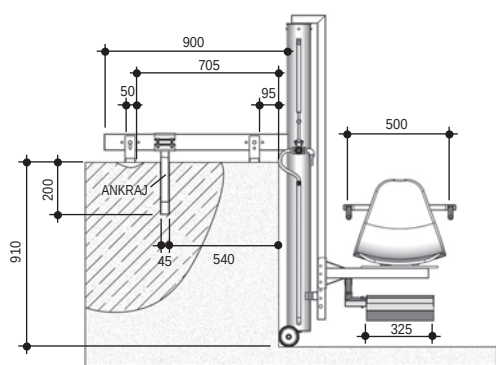
| Description                                       | Code         | Pieces/box | Weight Kg    | Volume m <sup>3</sup> |
|---------------------------------------------------|--------------|------------|--------------|-----------------------|
| Made of pure Zinc to be mounted under ladder step | <b>03208</b> |            | <b>0,098</b> |                       |

**PS:** It is functional with an anchor suitable for ladder grounding.

## Pool Lift for Disabilities

**Pool lift for disabilities:** Hydraulic lift made of AISI 316 stainless steel. Garden irrigation hose has to be connected to hydraulic lift. Required minimum water pressure is 3,5 kg/cm<sup>2</sup>. User friendly installation and can easily be adapted to existing pool.

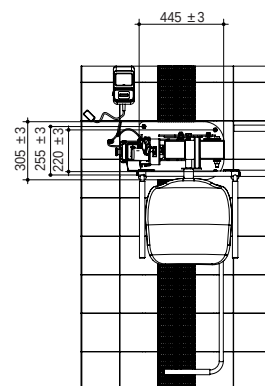
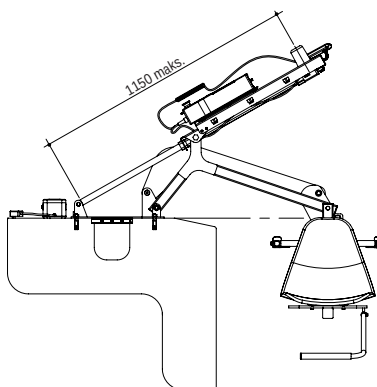
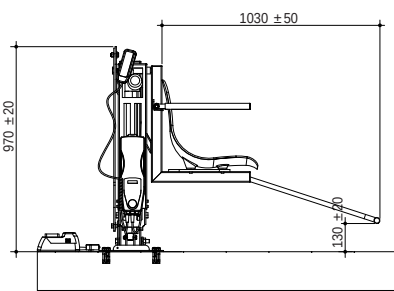
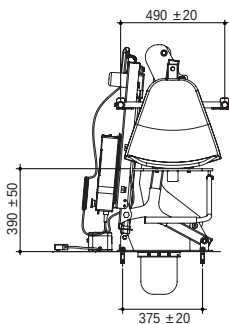
| Description                | Code  | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|-------|-------------|-----------|-----------------------|
| Pool lift for disabilities | 04101 | 1           |           |                       |



## Disabled Lift Rechargeable

**Disabled Lift Rechargeable:** The stainless steel rechargeable disabled elevator is crafted from high-quality materials with specific features for enhanced functionality and durability. Key attributes include corrosion resistance to water and high temperatures, a rechargeable and removable battery system, a digital battery charge indicator for user awareness, and a convenient charging device. The elevator is designed for practical installation, easily adaptable to existing pool systems. Overall, it presents a reliable, long-lasting, and user-friendly solution.

| Description                | Code  | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|-------|-------------|-----------|-----------------------|
| Disabled Lift Rechargeable | 04104 | 1           |           |                       |

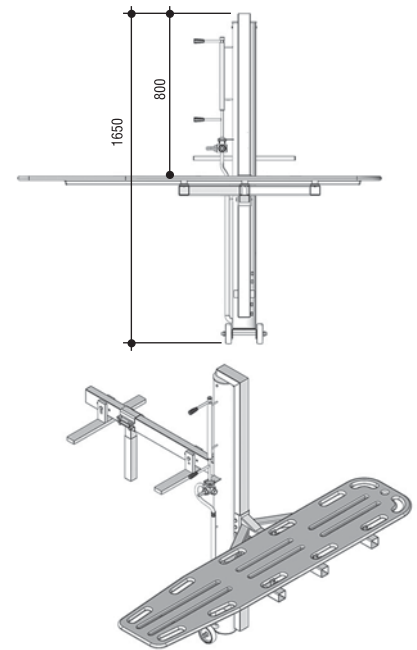
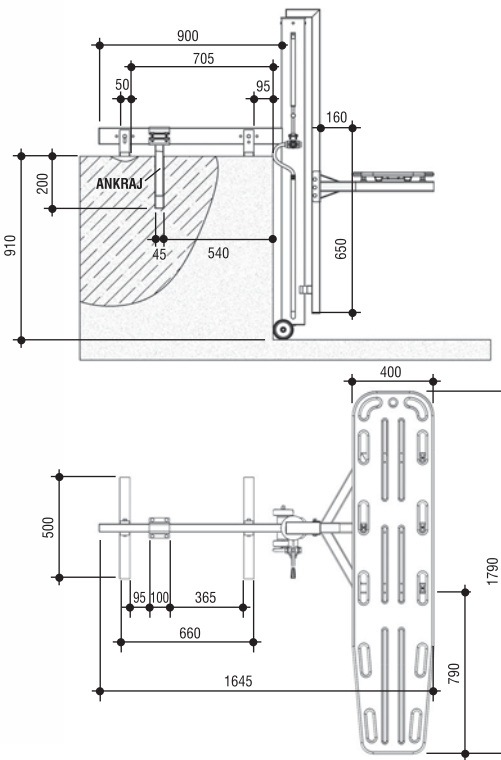


## Pool Lift for Disabilities - Stretcher



**Pool lift for disabilities:** Hydraulic lift made of AISI 304 stainless steel. Garden irrigation hose has to be connected to a hydraulic lift. Required minimum water pressure is 3,5 kg/cm<sup>2</sup>. User friendly installation and can easily be adapted to an existing pool.

| Description                            | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|-------|------------|-----------|-----------------------|
| Pool lift for disabilities - Stretcher | 04103 | 1          |           |                       |

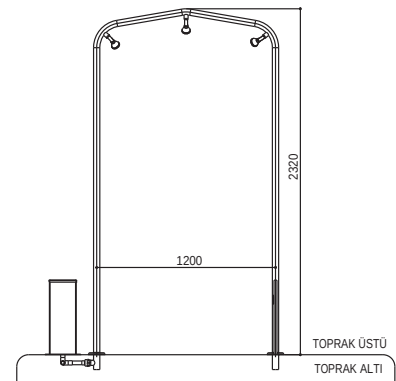
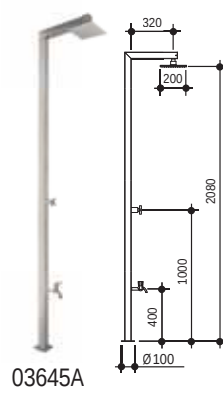
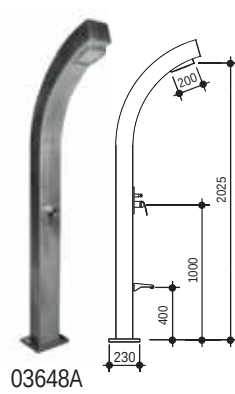
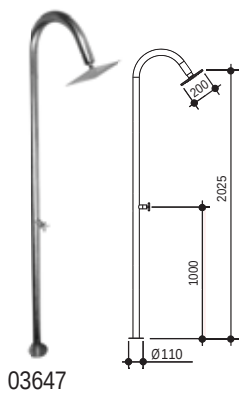
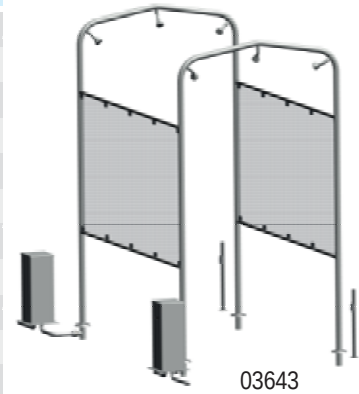




## Pool Showers

**Shower Tunnels.** For public pools, made of AISI 304 stainless steel. Complete with photocell and solenoid valve, associated with control column.

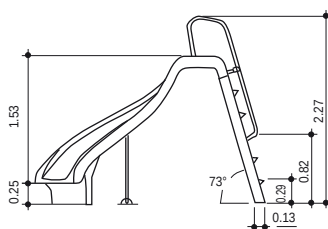
| Description                                                                           | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • 3 Shower 1 arch. Width: 1,2 m                                                       | <b>03641</b>  | 1          |           |                       |
| • 5 Shower 1 arch. Width: 1,2 m                                                       | <b>03642</b>  | 1          |           |                       |
| • 2 Arched. Each arch has 3 showers                                                   | <b>03643</b>  | 1          |           |                       |
| Width:1,2 m, Lateral acrylic transparent panels, Maximum height: 2,5 m, Lenght: 2,1 m |               |            |           |                       |
| Stainless Steel Showers                                                               |               |            |           |                       |
| • Single shower, box profile body                                                     | <b>03645</b>  | 1          |           |                       |
| • Same, also with foot washing tap.                                                   | <b>03645A</b> | 1          |           |                       |
| • Cobra shower, with foot washing tap.                                                | <b>03648A</b> | 1          |           |                       |
| • Single head shower, baston type.                                                    | <b>03647</b>  | 1          |           |                       |
| • 4 head shower, with foot washing tap.                                               | <b>03644</b>  | 1          |           |                       |
| • Same, with electric heater, hot and cold water mixing possible.                     | <b>03656</b>  | 1          |           |                       |



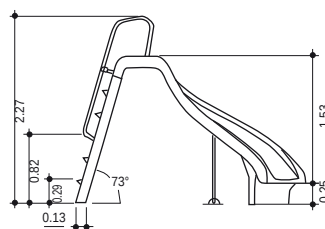
## Pool Slides

**SLIDES.** Pool slide made of FRP. Complete with the hose system to connect to the pool supply line. Handles are AISI 304 grade stainless steel.

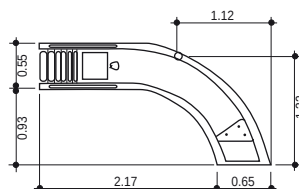
| Description              | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|--------------|------------|-----------|-----------------------|
| • Slide, curved to left  | <b>03520</b> | 1          | 83,000    | 2,913                 |
| • Slide, curved to right | <b>03521</b> | 1          | 83,000    | 2,913                 |



Slide, curved to left



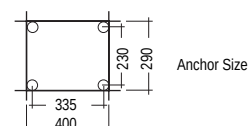
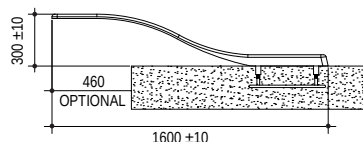
Slide, curved to right



## Diving Boards

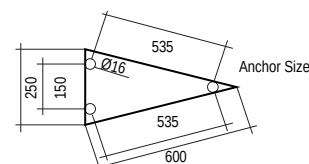
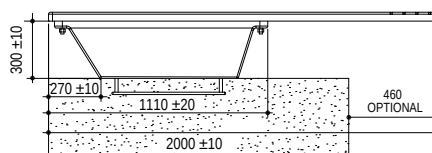
**S - DIVING BOARD** Made in laminated polyester and fiberglass.

| Description                          | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|--------------|------------|-----------|-----------------------|
| • Length: 1.60 m<br>• Height: 0.35 m | <b>03410</b> | 1          | 23,000    | 0,107                 |



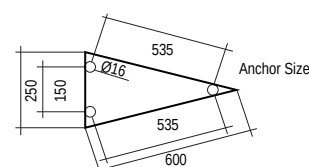
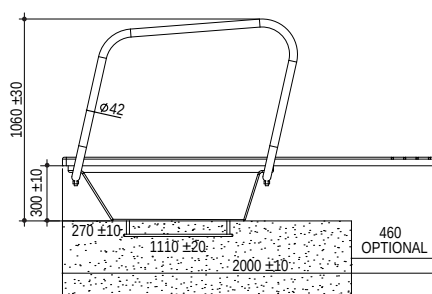
**CLASSIC 200 DIVING BOARD** Base and board made in laminated polyester and fiberglass.

| Description                                              | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Length: 2.00 m<br>• Height: 0.35 m<br>• Width : 0.40 m | <b>03420</b> | 1          | 29,000    | 0,196                 |



**CLASSIC 200 HR DIVING BOARD** Base and board made in laminated polyester and fiberglass. Complete with stainless steel handrails.

| Description                                              | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Length: 2.00 m<br>• Height: 0.35 m<br>• Width : 0.40 m | <b>03430</b> | 1          | 39,000    |                       |



## Stainless Steel Maintenance and Cleaning Chemicals

Complete box set including cleaning sponge and plastic gloves. Can be used for any kind of stainless steel.

| Description                                  | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------|---------------|------------|-----------|-----------------------|
| • Kit 1, Rust Remover + Protector            | <b>031001</b> | 1          |           |                       |
| • Kit 2, Rust Remover + Protector + Polisher | <b>031002</b> | 1          |           |                       |

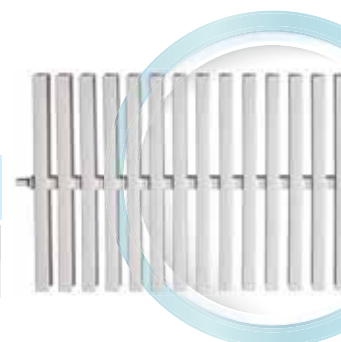


## Overflow Grating

### “MODEL 2018” Overflow Grating

Made of PP plastic; modular with a single joint. “I” shaped profile. Height: 33 mm.

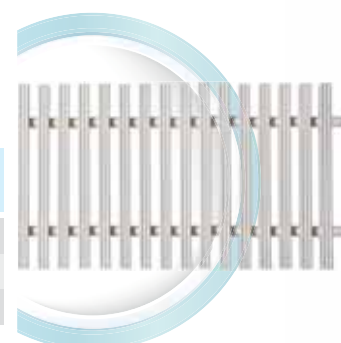
| Description                      | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------|----------------|----------------|--------------|--------------------------|
| • Width: 20 cm (price per meter) | <b>0372232</b> | 5 m            |              |                          |
| • Width: 25 cm (price per meter) | <b>0372332</b> | 5 m            |              |                          |



### MODEL 2001 OVERFLOW GRATING - DOUBLE JOINT

Made of PP plastic; modular with two joints. “I” shaped profile. Height: 25 mm. Price per meter.

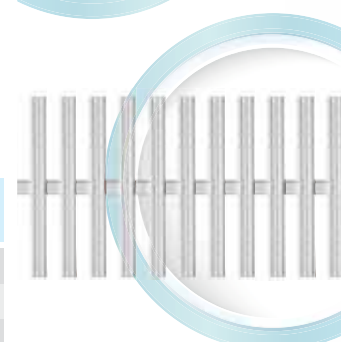
| Description                     | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|----------------|----------------|--------------|--------------------------|
| • Classical Design Width: 20 cm | <b>0372221</b> | 10 m           | 13,000       | 0,062                    |
| • Classical Design Width: 25 cm | <b>0372321</b> | 10 m           | 13,000       | 0,062                    |
| • Classical Design Width: 30 cm | <b>0372421</b> | 10 m           | 13,500       |                          |



### MODEL 2001 OVERFLOW GRATING - SINGLE JOINT

Made of PP plastic; modular with single joint. “I” shaped profile. Height: 25 mm. Price per meter.

| Description                     | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|----------------|----------------|--------------|--------------------------|
| • Classical Design Width: 15 cm | <b>0372211</b> | 10 m           | 11,900       | 0,044                    |
| • Classical Design Width: 20 cm | <b>0372212</b> | 10 m           | 11,500       | 0,062                    |
| • Classical Design Width: 25 cm | <b>0372312</b> | 10 m           | 13,100       | 0,062                    |



### “MODEL GEMAS-FUTURO” OVERFLOW GRATING

Modular, plastic product. Adaptable to all types of pool shapes. Height: 25 mm. Price per meter.

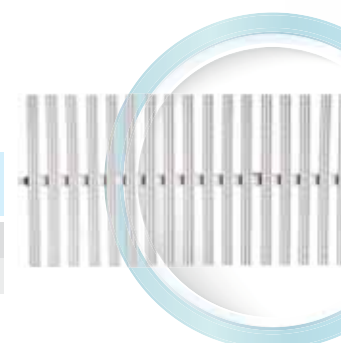
| Description                  | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|----------------|----------------|--------------|--------------------------|
| Modular Plastic Width: 20 cm | <b>037321K</b> | 10 m           | 15,400       | 0,067                    |



### “MONOBLOCK” Overflow Grating

Single Joint. six pieces, “T” shaped plastics, grating height: 22 mm. Price per meter.

| Description    | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|---------------|----------------|--------------|--------------------------|
| • Width: 20 cm | <b>037321</b> | 10 m           | 11,700       | 0,062                    |
| • Width: 25 cm | <b>037331</b> | 10 m           | 18,320       | 0,061                    |



## Overflow Grating



### “MODEL GEMAS SQUARE” OVERFLOW GRATING

Plastic modular, single joint. “I” shaped profile. Height: 25 mm.



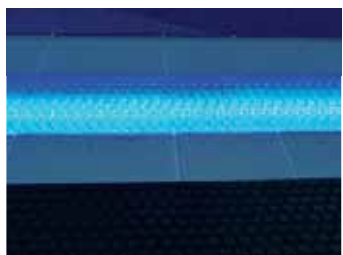
| Description                      | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|-----------------|------------|-----------|-----------------------|
| • Width: 20 cm (price per meter) | <b>0372212K</b> | 1          | 14,000    | 0,051                 |
| • Width: 25 cm (price per meter) | <b>0372213K</b> | 1          | 19,050    | 0,051                 |

## Overflow - For Strip Led Implementation



### “Model GEMAS - Transparent Squared” Overflow Grating

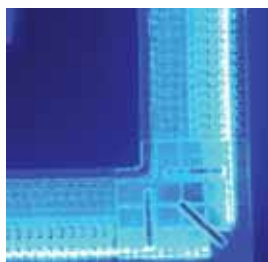
Made of polycarbonate, modular with single joint. “I” shaped profile. Squared upper surface. Height: 25 mm. Designed for strip LED implementation inside the overflow grating channel (It's recommended to use IP68 strip LED)



| Description                      | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|------------------|------------|-----------|-----------------------|
| • Width: 20 cm (price per meter) | <b>0372212KT</b> | 1          | 14,000    | 0,051                 |
| • Width: 25 cm (price per meter) | <b>0372213KT</b> | 1          | 19,050    | 0,051                 |



## Corner Tiles for Overflow Grating



### CORNER TILES 90° PLASTIC.

Corner Tile made of PP plastic for an angle of 90 Degrees.

| Description           | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|----------------|------------|-----------|-----------------------|
| • 25 cm               | <b>037431</b>  | 20         | 9,960     | 0,048                 |
| • 20 cm               | <b>037421</b>  | 25         | 8,800     | 0,038                 |
| • 25 cm - Transparent | <b>037431T</b> | 20         |           |                       |
| • 20 cm - Transparent | <b>037421T</b> | 25         |           |                       |
| • 15 cm               | <b>037411</b>  | 20         | 4,438     | 0,019                 |
| • 25 cm H:33 mm       | <b>037434</b>  | 20         |           |                       |
| • 20 cm H:33 mm       | <b>037433</b>  | 25         |           |                       |
| • 30 cm               | <b>037413</b>  |            |           |                       |



037434

037433



### CORNER TILES 45° PLASTIC.

Corner Tile made of PP plastic for an angle of 45 Degrees.

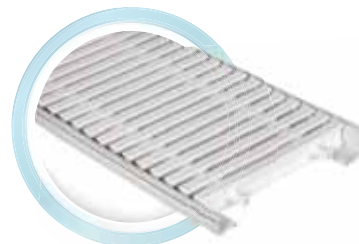
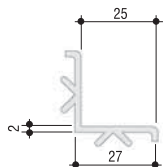
| Description           | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|----------------|------------|-----------|-----------------------|
| • 25 cm H:33 mm       | <b>037432</b>  | 20         | 6,950     | 0,042                 |
| • 20 cm H:33 mm       | <b>037422</b>  | 20         | 4,470     | 0,028                 |
| • 25 cm - Transparent | <b>037432T</b> | 20         |           |                       |
| • 20 cm - Transparent | <b>037422T</b> | 20         |           |                       |
| • 15 cm               | <b>037412</b>  | 10         | 1,636     | 0,008                 |
| • 30 cm               | <b>037414</b>  |            |           |                       |





## Grating Support Profile

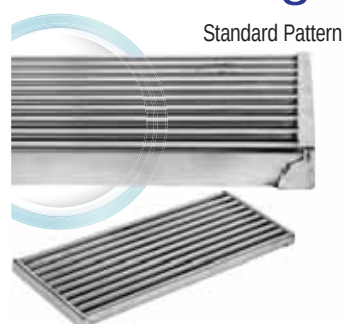
| Description                                                     | Code         | Pieces/box          | Weight Kg | Volume m³ |
|-----------------------------------------------------------------|--------------|---------------------|-----------|-----------|
| • Overflow Support Profile<br>PVC, 23 x 26 mm (Price per meter) | <b>03750</b> | 100 m<br>(2 m x 50) | 18,170    | 0,051     |
| • Same, 33 x 25 mm (Price per meter)                            | <b>03751</b> | 100 m (2 m x 50)    |           |           |



## Stainless Steel Overflow Gratings

Made of AISI 304 grade stainless steel.  
Length: 0,50 m monoblock grating. Standard antislip pattern.

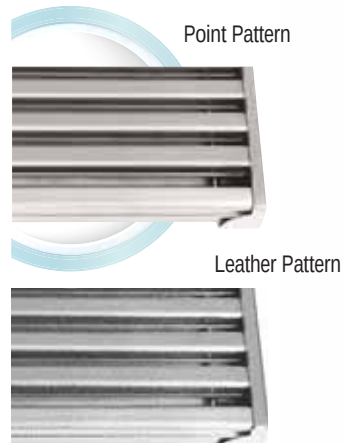
| Description                             | Code              | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------|-------------------|------------|-----------|-----------|
| Width: 25 cm (price per meter) - 2 pcs. | <b>0372221SS1</b> | 1          |           |           |



Made of AISI 316 grade stainless steel. Length: 0,50 m monoblock grating.  
Standard antislip pattern.

| Description                             | Code              | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------|-------------------|------------|-----------|-----------|
| Width: 25 cm (price per meter) - 2 pcs. | <b>0372221SS2</b> | 1          |           |           |

**PS:** Prices are for **Standard Pattern**. Prices of **Point and Leather Patterns** are 20% higher.



## Stainless Steel Corner Tiles for Overflow Gratings

Corner Tiles, 90° - Stainless Steel

| Description            | Code             | Pieces/box | Weight Kg | Volume m³ |
|------------------------|------------------|------------|-----------|-----------|
| • 25 cm AISI 304 grade | <b>037421SS1</b> |            |           |           |
| • 25 cm AISI 316 grade | <b>037421SS2</b> |            |           |           |



## Strainer for Overflow Gutter Drain



Made in stainless steel adjustable to drain pipes in gutter.

| Description                        | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|--------------|------------|-----------|-----------------------|
| • for Ø63 mm pipe                  | <b>03801</b> | 1          |           |                       |
| • for Ø75 mm pipe                  | <b>03802</b> | 1          |           |                       |
| • for Ø90 mm pipe                  | <b>03803</b> | 1          |           |                       |
| • for Ø110 mm pipe                 | <b>03804</b> | 1          |           |                       |
| • Plastic - for up to Ø110 mm pipe | <b>03811</b> | 1          |           |                       |



### OVERFLOW GUTTER DRAIN.

Made of white ABS plastic. 2,5" male - threaded, Ø63 mm inside. Stainless steel screws included.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>04150</b> | 50         | 11,000    | 0,067                 |

## Foot Bath



Foot washing bath, made of fiberglass reinforced polyester, for disinfection of feet before entering pool.

| Description                | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|--------------|------------|-----------|-----------------------|
| • 52,50 x 37,50 x 8,75 cm  | <b>03900</b> | 1          | 1,270     | 0,021                 |
| • 85,00 x 65,00 x 9,00 cm  | <b>03902</b> | 1          |           |                       |
| • 120,00 x 80,00 x 9,00 cm | <b>03901</b> | 1          |           |                       |



## Hatch for Engine Room

**Hatch for engine room:** Made of FRP, plastic hinged lid complete with steel reinforcements and locking mechanism.

| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • 50 x 50 cm   | <b>03911</b> | 1          | 7,000     | 0,040                 |
| • 75 x 75 cm   | <b>03912</b> | 1          | 14,000    | 0,080                 |
| • 100 x 100 cm | <b>03913</b> | 1          | 19,000    | 0,140                 |

| CODE  | Inner Size (cm) | Outer Size (cm) |
|-------|-----------------|-----------------|
| 03911 | 50 x 50         | 66 x 66         |
| 03912 | 75 x 75         | 88 x 88         |
| 03913 | 100 x 100       | 123 x 123       |



Inox handle with key lock

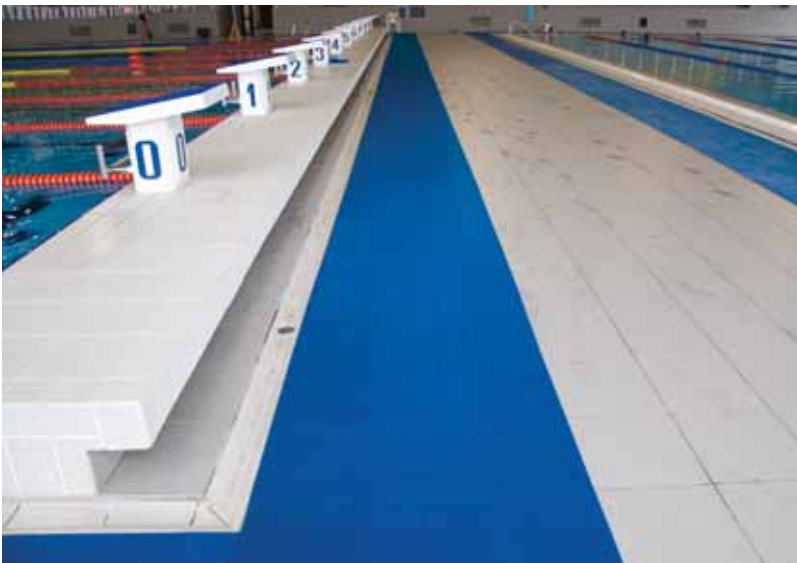
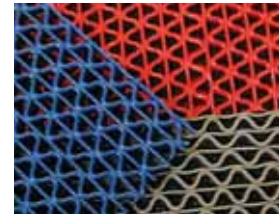


Double piston

## Pool Side Anti Slip MAT

Plastic anti slip MAT for pool decks. Width: 0,9 m. 15 m rolled.

| Description              | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|--------------|------------|-----------|-----------------------|
| • Red. Price per meter   | <b>03011</b> | 1 Roll     |           |                       |
| • Blue. Price per meter  | <b>03012</b> | 1 Roll     |           |                       |
| • Green. Price per meter | <b>03013</b> | 1 Roll     |           |                       |

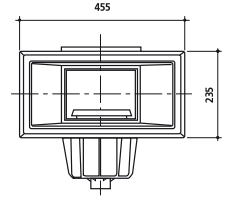
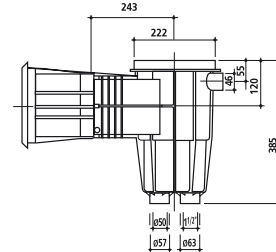
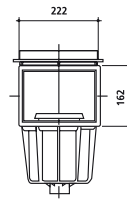
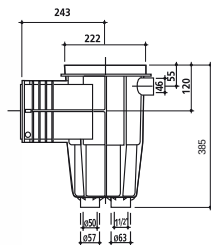


I.T.U. Olympic Pool / Istanbul



## Skimmers for Concrete Pools

All skimmer models are made in ABS plastic and equipped with “suction regulator” and locking mechanism of baskets against back pressure. Skimming by **“buoy float”** or **“floating weir”**. Suction port: 1,5" female threaded (2" also possible upon request), Ø63 mm external slip. Second port: Ø50 mm female slip. Overflow drainage: Ø40 mm female slip.



| Description                    | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|----------------|------------|-----------|-----------------------|
| <b>Standard</b>                |                |            |           |                       |
| • Standard squared lid skimmer | <b>04111</b>   | 1          | 3,036     | 0,054                 |
| • Ditto, w/floating weir       | <b>04111FW</b> | 1          | 2,840     | 0,054                 |



| Description                      | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|-----------------|------------|-----------|-----------------------|
| <b>Extended Throat (+ 10 cm)</b> |                 |            |           |                       |
| • Standard extended              | <b>04111E</b>   | 2          | 6,372     | 0,107                 |
| • Ditto, w/floating weir         | <b>04111EFW</b> | 2          | 5,942     | 0,107                 |



| Description                      | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|----------------|------------|-----------|-----------------------|
| <b>Wide Mouth</b>                |                |            |           |                       |
| • Wide mouth squared lid skimmer | <b>04112</b>   | 2          | 8,000     | 0,137                 |
| • Ditto, w/floating weir         | <b>04112FW</b> | 2          | 7,524     | 0,137                 |

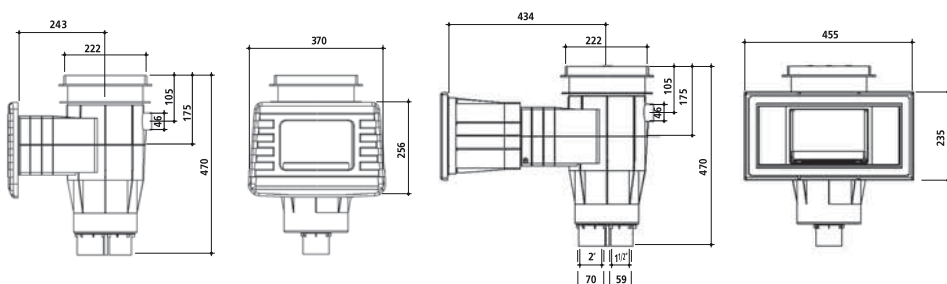


## Lux-Skimmers for Concrete Pools

All Lux-Skimmer models are made of ABS plastic and equipped with "suction regulator" and locking mechanism of baskets against back pressure. Skimming by "buoy float" or "floating weir". Suction port: 2" female threaded. Second port: 1.5" female threaded supplied with blind cap. Overflow drainage: Ø40 mm female slip.

### Additional Features:

- Child-proof decklid features safety locking mechanism.
- Extension collar allows for correction with uneven deck finishes.
- Locking basket design prevents basket floating due to back pressure.
- Locking vacuum adapter prevents adapter plate floating during suction cleaning.
- Extended throat facilitates convenient installation in the pool wall (Optional).
- Aesthetic face plate in the pool.



Locked basket detail



Lockable lid for child protection

| Description                 | Code           | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------|----------------|------------|-----------|-----------|
| <b>Lux Standard</b>         |                |            |           |           |
| • Mouth squared lid skimmer | <b>04121</b>   | 2          | 6,954     | 0,137     |
| • Ditto, w/floating weir    | <b>04121FW</b> | 2          | 6,530     | 0,137     |

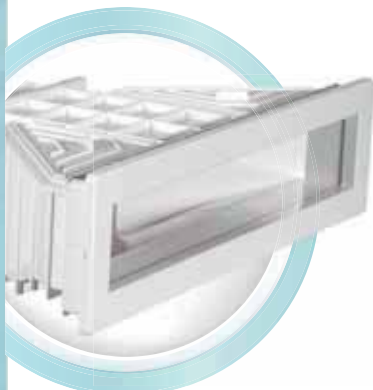
| Description                          | Code            | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------|-----------------|------------|-----------|-----------|
| <b>Lux Extended Throat (+ 10 cm)</b> |                 |            |           |           |
| • Lux standard extended              | <b>04121E</b>   | 2          | 4,350     | 0,108     |
| • Ditto, w/floating weir             | <b>04121EFW</b> | 2          | 4,150     | 0,108     |



| Description                          | Code           | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------|----------------|------------|-----------|-----------|
| <b>Lux Wide Mouth</b>                |                |            |           |           |
| • Lux wide mouth squared lid skimmer | <b>04122</b>   | 2          | 4,610     | 0,108     |
| • Ditto, w/floating weir             | <b>04122FW</b> | 2          | 4,378     | 0,108     |



## Elevated Wide Mouth Skimmers for Concrete Pools

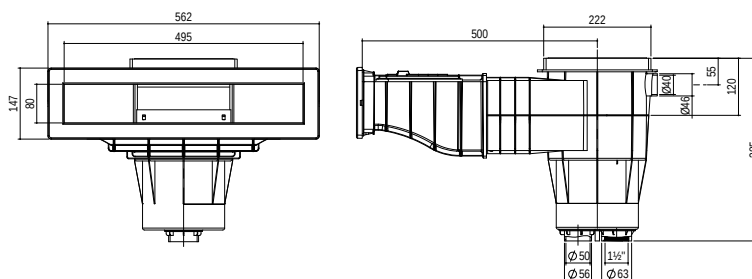


Elevated wide mouth for high water level

**Elevated Skimmer raises the pool water level by 5 cm compared to normal skimmers.**

All skimmer models are made in ABS plastic and equipped with "suction regulator" and locking mechanism of baskets against back pressure. Skimming by "buoy float" or "floating weir". Suction port: 1,5" female threaded (2" also possible upon request), Ø63 mm external slip. Second port: Ø50 mm female slip. Overflow drainage: Ø40 mm female slip.

| Description                                              | Code            | Pieces/ box | Weight Kg |
|----------------------------------------------------------|-----------------|-------------|-----------|
| • Elevated Standard Wide Mouth Skimmer                   | <b>04115FW</b>  | 1           |           |
| • Complete Elev. Std. Wide Skimmer Anthracite - RAL 7016 | <b>04115FWA</b> | 1           |           |
| • Complete Elev. Std. Wide Skimmer Beige - RAL 1015      | <b>04115FWB</b> | 1           |           |
| • Complete Elev. Std. Wide Skimmer Gray - RAL 7004       | <b>04115FWG</b> | 1           |           |



## Lux-Elevated Wide Mouth Skimmers for Concrete Pools



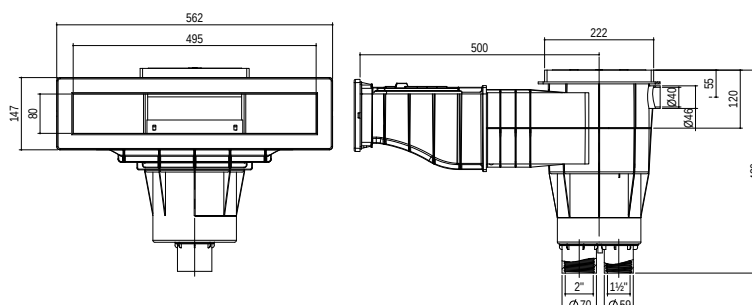
All Lux-Skimmer models are made of ABS plastic and equipped with "suction regulator" and locking mechanism of baskets against back pressure. Skimming by "buoy float" or "floating weir". Suction port: 2" female threaded. Second port: 1,5" female threaded supplied with blind cap. Overflow drainage: Ø40 mm female slip.

### Additional Features:

- Child-proof decklid features safety locking mechanism.
- Extension collar allows for correction with uneven deck finishes.
- Locking basket design prevents basket floating due to back pressure.
- Locking vacuum adapter prevents adapter plate floating during suction cleaning.
- Extended throat facilitates convenient installation in the pool wall (Optional).

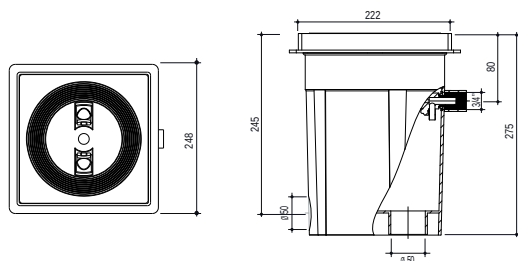


| Description                                             | Code            | Pieces/ box | Weight Kg |
|---------------------------------------------------------|-----------------|-------------|-----------|
| • Elevated Standard Wide Mouth Skimmer                  | <b>04125FW</b>  | 1           |           |
| • Complete Elev. Lux Wide Skimmer Anthracite - RAL 7016 | <b>04125FWA</b> | 1           |           |
| • Complete Elev. Lux Wide Skimmer Beige - RAL 1015      | <b>04125FWB</b> | 1           |           |
| • Complete Elev. Lux Wide Skimmer Gray - RAL 7004       | <b>04125FWG</b> | 1           |           |



## Skimmers - Level Regulator

**Automatic Level Regulator.** Body is made of ABS plastic. Complete with 3/8" plastic floating valve and Ø50 mm PVC slip connection, either side or bottom alternatively.



| Description                   | Code          | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------------|-------------|-----------|-----------------------|
| • Automatic Level Regulator   | <b>04120</b>  | 1           | 1,600     | 0,021                 |
| • Ditto, with locking decklid | <b>04120L</b> | 1           | 1,650     | 0,021                 |

## Skimmers - Optional Parts

**Face Plate for Concrete or Liner Standard Skimmer.** Made of ABS plastic.

| Description                                | Code            | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|-----------------|-------------|-----------|-----------------------|
| • Face Plate Skimmer Standard              | <b>0412102</b>  | 1           | 0,300     | 0,003                 |
| • Face Plate Skimmer Anthracite - RAL 7016 | <b>0412102A</b> | 1           | 0,300     | 0,003                 |
| • Face Plate Skimmer Beige - RAL 1015      | <b>0412102B</b> | 1           | 0,300     | 0,003                 |
| • Face Plate Skimmer Gray - RAL 7004       | <b>0412102G</b> | 1           | 0,300     | 0,003                 |



**Skimmer Extension Collar.** Made of ABS plastic for 4,5 cm vertical modular extension.

| Description                                      | Code             | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------|------------------|-------------|-----------|-----------------------|
| • Skimmer Extension Collar                       | <b>04111E01</b>  | 1           | 0,188     | 0,003                 |
| • Skimmer Extension Collar Anthracite - RAL 7016 | <b>04111E01A</b> | 1           | 0,188     | 0,003                 |
| • Skimmer Extension Collar Beige - RAL 1015      | <b>04111E01B</b> | 1           | 0,188     | 0,003                 |
| • Skimmer Extension Collar Gray - RAL 7004       | <b>04111E01G</b> | 1           | 0,188     | 0,003                 |



**Skimmer Horizontal Extension.** Made of ABS plastic. Compatible with all GEMAS skimmer models. Extends each model by 10,5 cm.

| Description                  | Code            | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|-----------------|-------------|-----------|-----------------------|
| Skimmer Horizontal Extension | <b>04111E10</b> | 1           |           |                       |



## Skimmers - Optional Parts



### Skimmer Angle Horizontal Extension.

Made of ABS plastic. Compatible with all GEMAS skimmer models. Each model (models can be added together) provides 30 mm extension in the middle axis and 5° inclined pool surface adaptations designed for polyester and slope pools.

| Description | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-----------------|------------|-----------|-----------------------|
|             | <b>04111E03</b> | 1          |           |                       |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



### Decklid with Safety Locking Mechanism. Made of ABS plastic.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
|             | <b>0412101</b> | 1          |           |                       |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



### Buoy Float. Made of ABS plastic. Complete with the ring.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
|             | <b>04110BF</b> | 1          | 0,364     | 0,006                 |

**PS.** Designed for replacing skimmer floating weir. Releases trapped debris when the pump stops.

## Return Inlets (Concrete Pools) - ABS



### Wall Inlet for Concrete Pools.

Injected of white ABS plastic with adjustable ball for alternative discharges.

Breaking tool



Ø14 mm ball 3 m<sup>3</sup>/h  
Ø20 mm ball 5 m<sup>3</sup>/h  
Ø25 mm ball 7 m<sup>3</sup>/h



04131S1

| Description                                              | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • 2" Male Threaded :<br>Ø50 mm internal slip connection. | <b>04131T</b>   | 10         | 1,000     | 0,006                 |
| • 2" Slip to be glued inside Ø63 mm<br>(10 atm) pipe.    | <b>04131S</b>   | 10         | 1,000     | 0,006                 |
| • 1,5" Slip to be glued inside<br>Ø50 mm (10 atm) pipe.  | <b>04131S1</b>  |            |           |                       |
| • Breaking Tool                                          | <b>04131T05</b> |            |           |                       |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



## Return Inlets (Concrete Pools) - ABS

**Wall Inlet for Concrete Pools**, according to EU 13451-1/4.8.3 Injected of white ABS plastic with protection and adjustable ball for alternative discharges.

Breaking tool



Ø14 mm ball 3 m³/h  
Ø20 mm ball 5 m³/h  
Ø25 mm ball 7 m³/h

| Description                                              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|----------------------------------------------------------|----------------|----------------|--------------|--------------|
| • 2" Male Threaded :<br>Ø50 mm internal slip connection. | <b>04131TP</b> | 10             | 1,100        | 0,006        |
| • 2" Slip to be glued<br>inside Ø63 mm (10 atm) pipe.    | <b>04131SP</b> | 10             | 1,060        | 0,006        |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite.  
Prices will be 10% more expensive.

### Suction Inlet for Concrete Pools.

| Description                                              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|----------------------------------------------------------|----------------|----------------|--------------|--------------|
| • 2" Male Threaded :<br>Ø50 mm internal slip connection. | <b>04134T</b>  | 10             | 0,900        | 0,006        |
| • 2" Slip to be glued<br>inside Ø63 mm (10atm) pipe.     | <b>04134S</b>  | 10             | 0,900        | 0,006        |
| • Slip to be glued<br>inside Ø50 mm (10atm) pipe.        | <b>04134S1</b> |                |              |              |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite.  
Prices will be 10% more expensive.

**Wall Conduit for Concrete Pools.** Injected of white ABS plastic. Pipe connection side is Ø63 mm externally and Ø50 mm internally. Overall length is 30 cm.

| Description                                                                                       | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|---------------------------------------------------------------------------------------------------|----------------|----------------|--------------|--------------|
| • 2" Male Threaded: Pool side 2" Female thr.                                                      | <b>04160T</b>  | 20             | 8,700        | 0,060        |
| • Ditto, with nozzle seat                                                                         | <b>04260T1</b> |                |              |              |
| • Ditto, back outlet 2" Male threaded                                                             | <b>04160T1</b> | 20             | 8,700        | 0,060        |
| • Ditto, with Protection plugs                                                                    | <b>04160TP</b> | 20             | 9,200        | 0,014        |
| • Pool side for slip<br>connection. (i.e same size with internal dia of Ø63 mm (10atm) PVC pipe.) | <b>04160S</b>  | 20             | 8,700        | 0,060        |



04134S1



## Return Inlets (Concrete Pools) - ABS



**Floor Inlet - Adjustable for Concrete Pools.** Injected of white ABS plastic, according to EU 13451-1/4.8.3" male threaded, Ø50 mm internal slip connection. Discharge can be regulated by means of an inner lid which can be screwed up and down.

| Description                                                    | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| • Flat Lid - 2" Male Threaded                                  | <b>04132TF</b> | 8          | 1,430     | 0,006                 |
| • Flat Lid - Slip, to be glued inside Ø63 mm (10 atm) pipe.    | <b>04132SF</b> | 8          | 1,400     | 0,006                 |
| • Conical Lid - 2" Male Threaded                               | <b>04132TC</b> | 8          | 1,300     | 0,006                 |
| • Conical Lid - Slip, to be glued inside Ø63 mm (10 atm) pipe. | <b>04132SC</b> | 8          | 1,600     | 0,006                 |

**Floor Inlet - Adjustable (AD) and Constant (CD) Discharge for Concrete Pools.** Made of ABS plastic. Distributes water at an angle of 45°. All slip connections are for 10 atm PVC pipes.

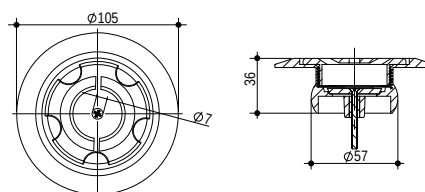
| Description             | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------|----------------|------------|-----------|-----------------------|
| • 2" Male Threaded - CD | <b>04133T</b>  | 10         | 0,930     | 0,007                 |
| • Ditto, AD             | <b>04133T4</b> |            |           |                       |
| • 2" Slip - CD          | <b>04133S</b>  | 10         | 0,912     | 0,007                 |
| • Ditto, AD             | <b>04132S4</b> |            |           |                       |
| • 1,5" Slip - CD        | <b>04133S1</b> |            |           |                       |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.

**Eccentric Floor Inlet** Special inlet nozzle to be installed inside Ø63-10 bar PVC pipe, for inclined pool bottom.

| Description    | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|----------------|------------|-----------|-----------------------|
| • 2" Slip - CD | <b>041331S</b> |            |           |                       |
| • 2" Slip - AD | <b>041321S</b> |            |           |                       |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



**Overflow Gutter Drain for Concrete Pools.** Made of white ABS plastic. 2½" male - threaded, Ø63 mm inside. Stainless steel screws included.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>04150</b> | 50         | 11,000    | 0,067                 |

**Balance Tank Basket.** Made of white ABS plastic. Adjustable up to Ø125 mm diameter PVC overflow pipes.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>04151</b> | 1          |           |                       |

## Junction Box

**Junction Box.** Made of white ABS plastic. Connections are for "05051" conduits.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>05040</b> | 8              | 2,610        | 0,016                    |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



## Main Drains (Concrete Pools) - ABS

**Circular Main Drain for Concrete Pools.** Made of ABS plastic. Grille fixed w/stainless steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection.

| Description              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------|----------------|----------------|--------------|--------------------------|
| • 1,5" Female Thread     | <b>04141T1</b> | 1              | 0,832        | 0,013                    |
| • 2" Female Thread       | <b>04141T2</b> | 1              | 0,800        | 0,013                    |
| • Ø50 mm Slip Connection | <b>04141S1</b> | 1              | 0,802        | 0,013                    |
| • Ø63 mm Slip Connection | <b>04141S2</b> | 1              | 0,776        | 0,013                    |
| • Ø75 mm Slip Connection | <b>04141S3</b> | 1              | 0,784        | 0,013                    |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



**Squared Main Drain.** Made of white ABS plastic. Grille fixed w/stainless steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection.

| Description                                                             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • 2" Female Thread                                                      | <b>04142T1</b>  | 1              | 1,360        | 0,013                    |
| • Ditto, but with extended thread of 5 cm length facilitating test plug | <b>04142T1E</b> | 1              | 1,400        | 0,013                    |
| • 2,5" Female Thread                                                    | <b>04142T2</b>  | 1              | 1,590        | 0,013                    |
| • 3" Female Thread                                                      | <b>04143T3</b>  | 1              | 1,520        | 0,013                    |
| • Ø63 mm Slip Connection                                                | <b>04142S1</b>  | 1              | 1,352        | 0,013                    |
| • Ø75 mm Slip Connection                                                | <b>04142S2</b>  | 1              | 1,250        | 0,013                    |
| • Ø90 mm Slip Connection                                                | <b>04142S3</b>  | 1              | 1,346        | 0,013                    |



## Grilles for Main Drain (Concrete Pools) - ABS

**Circular Grilles.** Made of ABS Plastic Circular Grille Ø186-242 mm. Complete with stainless steel screws necessary to fix the frame on concrete. Max. recommended drain pipe size: Ø63 mm.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
|             | <b>04143C</b> | 1              | 0,376        | 0,003                    |

**PS:** Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 15% more expensive.



## Grilles for Main Drain (Concrete Pools) - ABS



### Squared Grilles for Main Drain for Concrete Pools.

Made of ABS Plastic Squared Grille 26,5 x 26,5 cm. Complete with fixing screws. Max. recommended drain pipe size: Ø90 mm.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
|             | <b>04143R1</b> | 1          | 0,954     | 0,003                 |

PS: Full colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 15% more expensive.



**Squared Grilles for Main Drain for Concrete Pools.** Fiberglass reinforced polyester frame with ext. dimensions of 60 x 60 cm complete with fixing screws. Max. recommended drain pipe size : Ø225 mm.

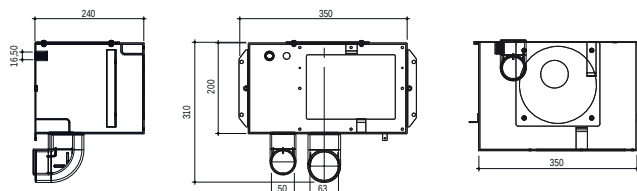
| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
|             | <b>04143R2</b> | 1          | 4,200     | 0,015                 |

## St. Steel Skimmers for Concrete Pools



### Stainless Steel Skimmer Body - Model 1.

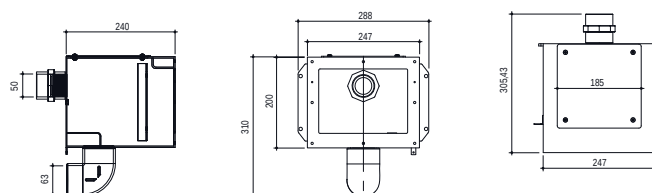
Made of AISI 304 quality stainless steel. Ø50 mm overflow. Skimming width: 190 mm, installation depth: 240 mm. Suction: Ø63 mm PVC. Floater installation option for water level regulation. Earth connection included. Complete with skimmer strainer basket 04111SS01 and level adjustable lid 04111SS02.



| Description           | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|-----------------|------------|-----------|-----------------------|
| • Model 1             | <b>04112SS</b>  | 1          | 6,510     | 0,040                 |
| • Ditto, with Floater | <b>04112SSF</b> | 1          | 6,710     | 0,040                 |

### Stainless Steel Skimmer Body for Concrete Pool - Model 2.

Made of AISI 304 quality stainless steel. Ø50 mm overflow. Skimming width: 190 mm, installation depth: 240 mm. Suction: Ø63 mm PVC. Earth connection included. Complete with skimmer strainer basket 04111SS01 and level adjustable lid 04111SS02.



| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| Model 2     | <b>04111SS</b> | 1          | 5,250     | 0,040                 |



## St. Steel Skimmers for Concrete Pools

**Stainless Steel Skimmer Strainer Basket for Concrete Pools.** Made of AISI 304 quality stainless Steel Complete with face plate for direct removal through skimmer mouth. (Applicable to Model 1 and Model 2).

| Description | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|------------------|----------------|--------------|--------------------------|
|             | <b>04111SS01</b> | 1              | 2,190        | 0,020                    |



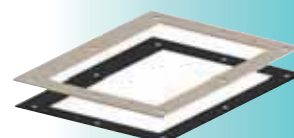
**Stainless Steel Level Adjustable Lid for Concrete Pools.** Made of AISI 304 Stainless steel Dimensions:180 x 180 mm. Height level can be adjustable from 60 to 110 mm.

| Description | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|------------------|----------------|--------------|--------------------------|
|             | <b>04111SS02</b> | 1              | 1,630        | 0,010                    |



**Stainless Steel Skimmer Flange Set for Liner Pools.** Made of AISI 304 Stainless steel. Complete with 2 gaskets and bolts.

| Description | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|------------------|----------------|--------------|--------------------------|
|             | <b>04211SS01</b> | 1              | 0,780        | 0,002                    |



## Solid Inox Inlets

Full Body made of Stainless Steel.

Ball for wall inlet is from transparent polycarbonate. SS ball is optional. Floor inlets are either adjustable (AD) or constant discharge (CD) types.

| Description                        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|------------------|----------------|--------------|--------------------------|
| • 304 Wall Inlet 2" Threaded       | <b>04131TSSM</b> | 1              |              |                          |
| • 304 Suction Inlet 2" Threaded    | <b>04134TSSM</b> | 1              |              |                          |
| • 304 Floor Inlet - CD 2" Threaded | <b>04133TSSM</b> | 1              |              |                          |
| • 304 Floor Inlet - AD 2" Threaded | <b>04135TSSM</b> | 1              |              |                          |

|                                    |                    |   |  |  |
|------------------------------------|--------------------|---|--|--|
| • 316 Return Inlet 2" Threaded     | <b>04131TSSM01</b> | 1 |  |  |
| • 316 Suction Inlet 2" Threaded    | <b>04134TSSM01</b> | 1 |  |  |
| • 316 Floor Inlet - CD 2" Threaded | <b>04133TSSM01</b> | 1 |  |  |
| • 316 Floor Inlet - AD 2" Threaded | <b>04135TSSM01</b> | 1 |  |  |



04131TSSM01



04134TSSM01



04133TSSM



04135TSSM

## Wall Inlet (Concrete Pools) - St. Steel Dressed



**Stainless Steel Wall Inlet for Concrete Pools.** Body is injected of white ABS plastic dressed with AISI 304 quality stainless steel plate. The butterfly of nozzle is made of solid inox inlets stainless steel and the sphere is of acrylic transparent plastic with adjustable ball for alternative discharges.

Breaking tool



Ø14 mm ball 3 m³/h

Ø20 mm ball 5 m³/h

Ø25 mm ball 7 m³/h

| Description                                          | Code            | Pieces/box | Weight Kg | Volume m³ |
|------------------------------------------------------|-----------------|------------|-----------|-----------|
| • 2" Male Threaded : Ø50 mm internal slip connection | <b>04131TSS</b> | 10         | 2,400     | 0,006     |
| • 2" Slip to be glued inside Ø63 mm pipe             | <b>04131SSS</b> |            |           |           |

### Stainless Steel Suction Inlet for Concrete Pools.

Body is injected of white ABS plastic dressed with AISI 304 quality stainless steel plate. The blind cap is made of solid inox inlets stainless steel.

| Description                                           | Code            | Pieces/box | Weight Kg | Volume m³ |
|-------------------------------------------------------|-----------------|------------|-----------|-----------|
| • 2" Male Threaded : Ø50 mm internal slip connection. | <b>04134TSS</b> | 10         | 3,572     | 0,007     |
| • 2" Slip to be glued inside Ø63 mm pipe              | <b>04134SSS</b> |            |           |           |

### Floor Inlet with Chrome Painted Stainless Steel Lid - Flow Adjustable.

Flat lid of AISI 304 quality stainless steel. Body in ABS plastic.

| Description                                                        | Code             | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------------------------------------|------------------|------------|-----------|-----------|
| • Flat Lid - 2" Male Threaded : Flat Lid AISI 304 Quality St.Steel | <b>04132TFSS</b> | 8          | 2,200     | 0,006     |
| • 2" Slip to be glued inside Ø63 mm pipe                           | <b>04132SFSS</b> |            |           |           |

### Stainless Steel Floor Inlet - Constant Flow.

Stainless Steel Floor Inlet - Constant Flow. Body in ABS plastic, front face is dressed with AISI 304 quality stainless steel sheet. The central part is solid AISI 304 quality stainless steel.

| Description                                          | Code            | Pieces/box | Weight Kg | Volume m³ |
|------------------------------------------------------|-----------------|------------|-----------|-----------|
| • 2" Male Threaded : Ø50 mm internal slip connection | <b>04133TSS</b> | 8          | 2,400     | 0,007     |
| • 2" Slip to be glued inside Ø63 mm pipe             | <b>04133SSS</b> |            |           |           |

## Main Drains (Concrete Pools) - St. Steel

**Circular Main Drain with St. Steel Grille for Concrete Pools.** Body made of ABS plastic. Stainless steel grille fixed w/st. steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection.

| Description          | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------|------------------|----------------|--------------|--------------------------|
| • 1,5" Female Thread | <b>04141T1SS</b> | 1              |              |                          |
| • 2" Female Thread   | <b>04141T2SS</b> | 1              |              |                          |
| • 1,5" glued         | <b>04141S1SS</b> | 1              |              |                          |
| • 2" glued           | <b>04141S2SS</b> | 1              |              |                          |
| • 2,5" glued         | <b>04141S3SS</b> | 1              |              |                          |



04141T1SS



04141S1SS

## Grilles for Main Drain (Concrete Pools) - St. Steel

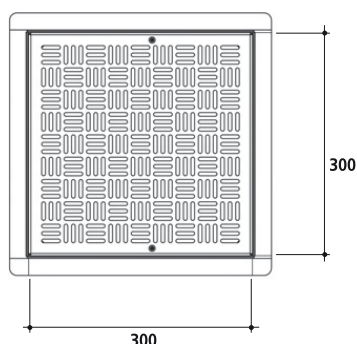
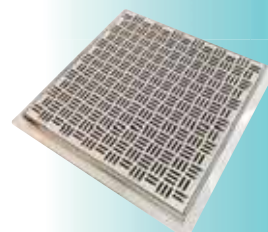
**Stainless steel circular grilles.** Made of AISI 304 quality stainless steel with stainless steel screws Ø186 - 242 mm.

| Description     | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|----------------|----------------|--------------|--------------------------|
| Circular Grille | <b>04143SS</b> | 1              | 0,258        | 0,003                    |



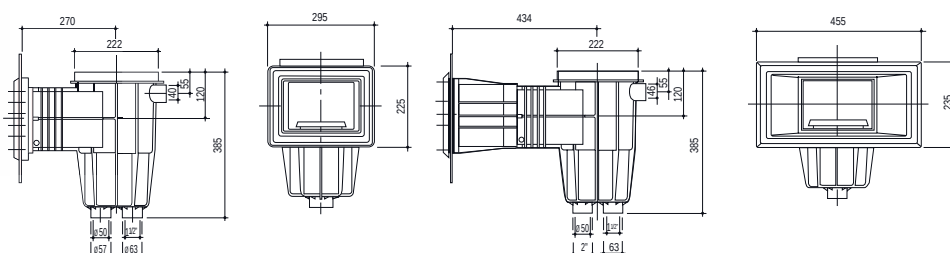
**St. Steel Squared Grilles for Main Drain for Concrete Pools.** Frame and grille made of AISI 304 quality stainless steel complete with fixing screws.

| Description          | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------|------------------|----------------|--------------|--------------------------|
| • 200 x 200 mm (out) | <b>04143RSS1</b> | 1              |              |                          |
| • 300 x 300 mm (out) | <b>04143RSS2</b> | 1              |              |                          |
| • 400 x 400 mm (out) | <b>04143RSS3</b> | 1              |              |                          |
| • 500 x 500 mm (out) | <b>04143RSS4</b> | 1              |              |                          |
| • 600 x 600 mm (out) | <b>04143RSS5</b> | 1              |              |                          |



## Skimmers for Liner Pools

All skimmer models are made of ABS plastic and equipped with “suction regulator” and locking mechanism basket against back pressure. Skimming by “**buoy float**” or “**floating weir**”. Suction port: 1,5" female threaded (2" also possible upon request), Ø63 mm external slip. Discharge port: Ø50 mm female slip. Overflow drainage: Ø40 mm female slip. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.



| Description                                    | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|-----------------|------------|-----------|-----------------------|
| <b>Standard Throat</b>                         |                 |            |           |                       |
| • Standard Squared Lid Skimmer                 | <b>04211</b>    | 1          | 4,104     | 0,054                 |
| • Ditto, W/Brass Cavities                      | <b>04211B</b>   | 1          | 4,142     | 0,054                 |
| • Standard Squared Lid Skimmer W/Floating Weir | <b>04211FW</b>  | 1          | 3,820     | 0,054                 |
| • Ditto, W/Brass Cavities                      | <b>04211BFW</b> | 1          | 3,986     | 0,054                 |

| Description                                    | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|------------------|------------|-----------|-----------------------|
| <b>Extension Throat (+ 10 cm)</b>              |                  |            |           |                       |
| • Standard Squared Lid Skimmer                 | <b>04211E</b>    | 2          | 8,504     | 0,107                 |
| • Ditto, W/Brass Cavities                      | <b>04211EB</b>   | 2          | 8,600     | 0,107                 |
| • Standard Squared Lid Skimmer W/Floating Weir | <b>04211EFW</b>  | 2          | 8,070     | 0,107                 |
| • Ditto, W/Brass Cavities                      | <b>04211EBFW</b> | 2          | 8,160     | 0,107                 |

| Description                                      | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------|-----------------|------------|-----------|-----------------------|
| <b>Wide Mouth</b>                                |                 |            |           |                       |
| • Wide Mouth Squared Lid Skimmer                 | <b>04212</b>    | 2          | 9,430     | 0,135                 |
| • Ditto, W/Brass Cavities                        | <b>04212B</b>   | 2          | 9,678     | 0,135                 |
| • Wide Mouth Squared Lid Skimmer W/Floating Weir | <b>04212FW</b>  | 2          | 9,012     | 0,135                 |
| • Ditto, W/Brass Cavities                        | <b>04212BFW</b> | 2          | 9,112     | 0,135                 |



## Lux Skimmers for Liner Pools

All Lux-Skimmer models are made of ABS plastic and equipped with “suction regulator” and locking mechanism basket against back pressure. Skimming by “**buoy float**” or “**floating weir**”. Suction port: 2" female threaded. Discharge port: 1,5" female threaded, supplied with blind cap. Overflow drainage: Ø40 mm female slip. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.

### Additional Features:

- Child-proof decklid features safety locking mechanism.
- Extension collar allows for correction of uneven deck finishes.
- Locking basket design prevents basket floating due to back pressure.
- Extended throat facilitates convenient installation in the pool wall. (Optional)
- Aesthetic face plate in the pool.

| Description                                           | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------------------------------------------------|-----------------|----------------|--------------|--------------|
| <b>Lux Standard Throat</b>                            |                 |                |              |              |
| • Lux Standard Squared Lid Skimmer                    | <b>04221</b>    | 2              | 9,150        | 0,137        |
| • Ditto, W/Brass Cavities                             | <b>04221B</b>   | 2              | 9,400        | 0,137        |
| • Lux Standard Squared Lid Skimmer<br>W/Floating Weir | <b>04221FW</b>  | 2              | 8,720        | 0,137        |
| • Ditto, W/Brass Cavities                             | <b>04221BFW</b> | 2              | 8,890        | 0,137        |

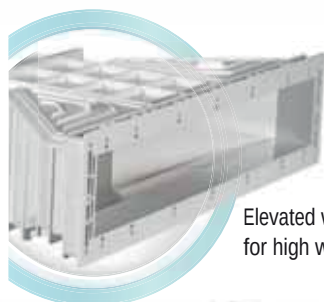
| Description                                           | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------------------------------------------------|------------------|----------------|--------------|--------------|
| <b>Lux Extension Throat (+ 10 cm)</b>                 |                  |                |              |              |
| • Lux Standard Squared Lid Skimmer                    | <b>04221E</b>    | 1              | 5,600        | 0,110        |
| • Ditto, W/Brass Cavities                             | <b>04221EB</b>   | 1              | 5,700        | 0,110        |
| • Lux Standard Squared Lid Skimmer<br>W/Floating Weir | <b>04221EFW</b>  | 1              | 4,350        | 0,110        |
| • Ditto, W/Brass Cavities                             | <b>04221EBFW</b> | 1              | 4,500        | 0,110        |

| Description                                             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|---------------------------------------------------------|-----------------|----------------|--------------|--------------|
| <b>Lux Wide Mouth</b>                                   |                 |                |              |              |
| • Lux Wide Mouth Squared Lid Skimmer                    | <b>04222</b>    | 1              | 5,296        | 0,110        |
| • Ditto, W/Brass Cavities                               | <b>04222B</b>   | 1              | 5,525        | 0,110        |
| • Lux Wide Mouth Squared Lid Skimmer<br>W/Floating Weir | <b>04222FW</b>  | 1              | 5,250        | 0,110        |
| • Ditto, W/Brass Cavities                               | <b>04222BFW</b> | 1              | 5,370        | 0,110        |

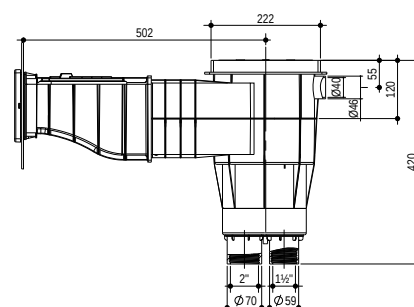
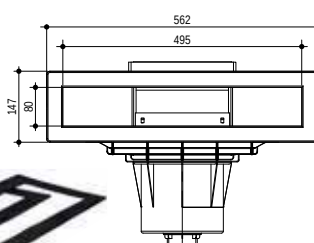


## Elevated Wide Mouth Skimmers for Liner Pools

**Elevated Skimmer raises the pool water level by 5 cm compared to normal skimmers.** All skimmer models are made of ABS plastic and equipped with "suction regulator" and locking mechanism basket against back pressure. Skimming by "buoy float" or "floating weir". Suction port: 1,5" female threaded (2" also possible upon request), Ø63 mm external slip. Discharge port: Ø50 mm female slip. Overflow drainage: Ø40 mm female slip. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.



Elevated wide mouth for high water level



Liner Flange, Gasket and Screws

## Lux-Elevated Wide Mouth Skimmers for Liner Pools

All Lux-Skimmer models are made of ABS plastic and equipped with "suction regulator" and locking mechanism basket against back pressure. Skimming by "buoy float" or "floating weir". Suction port: 2" female threaded. Discharge port: 1,5" female threaded, supplied with blind cap. Overflow drainage: Ø40 mm female slip. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.



**Additional Features:** • Child-proof decklid features safety locking mechanism. • Extension collar allows for correction with uneven deck finishes. • Locking basket design prevents basket floating due to back pressure. • Locking vacuum adapter prevents adapter plate floating during suction cleaning. • Extended throat facilitates convenient installation in the pool wall (Optional).



RAL 7016



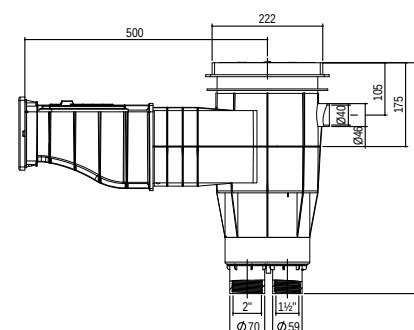
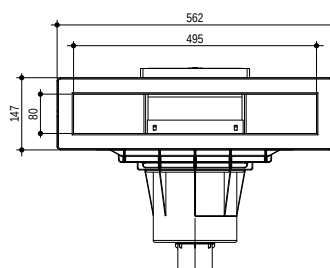
RAL 1015



RAL 7004

| Description                       | Code            | Pieces/ box | Weight Kg |
|-----------------------------------|-----------------|-------------|-----------|
| • Liner Pools with brass cavities | <b>04225BFW</b> | 1           |           |
| • Liner Pools wout brass cavities | <b>04225FW</b>  | 1           |           |

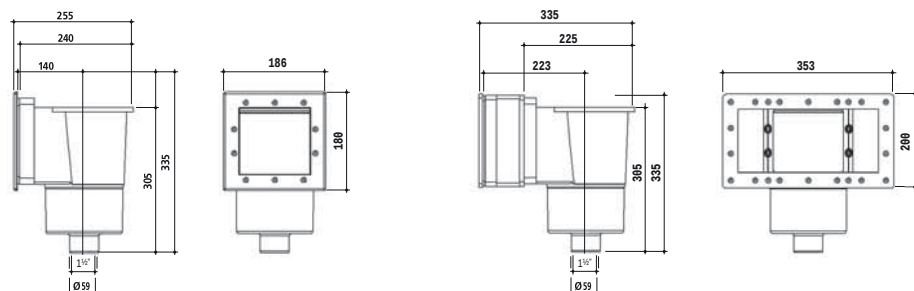
**PS:** Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey. Prices will be 15% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004



## Mini Skimmers for Liner Pools

All Skimmer models are made of ABS plastic. Suction port: Female threaded 1,5". Complete with vacuum adaptor, flange, gaskets and stainless steel screws.

| Description                         | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------|--------------|----------------|--------------|--------------------------|
| • Standard Mouth Square Lid Skimmer | <b>04213</b> | 8              | 19,500       |                          |
| • Wide Mouth Square Lid Skimmer     | <b>04214</b> | 8              | 27,500       |                          |



## Return Inlets (Liner Pools) - ABS

**Wall Inlet for Liner Pools.** Injected of white ABS plastic with adjustable ball for alternative discharges. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.

Breaking tool



Ø14 mm ball 3 m<sup>3</sup>/h  
Ø20 mm ball 5 m<sup>3</sup>/h  
Ø25 mm ball 7 m<sup>3</sup>/h

| Description                                           | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • 2" Male threaded :<br>Ø50 internal slip connection. | <b>04231T</b>   | 8              | 1,520        | 0,006                    |
| • Ditto, W/Brass Cavities                             | <b>04231BT</b>  | 8              | 1,682        | 0,006                    |
| • 2" Male threaded : Also 2" nut included             | <b>04231TN</b>  |                | 1,800        | 0,006                    |
| • Ditto, W/Brass Cavities                             | <b>04231BTN</b> | 8              | 1,934        | 0,006                    |
| • Breaking Tool                                       | <b>04131T05</b> |                |              |                          |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.

**Wall Inlet for Liner Pools.**

According to EU 13451-1/4.8.3 Injected of white ABS plastic with protection and adjustable ball for alternative discharges. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.

Breaking tool



Ø14 mm ball 3 m<sup>3</sup>/h  
Ø20 mm ball 5 m<sup>3</sup>/h  
Ø25 mm ball 7 m<sup>3</sup>/h

| Description                                           | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------|-------------------|----------------|--------------|--------------------------|
| • 2" Male threaded :<br>Ø50 internal slip connection. | <b>04231TP</b>    | 8              | 1,460        | 0,007                    |
| • Ditto, W/Brass Cavities                             | <b>04231BTP</b>   | 8              | 1,508        | 0,007                    |
| • 2" Male threaded : Also 2" nut included             | <b>04231TNP</b>   | 8              | 1,750        | 0,007                    |
| • Ditto, W/Brass Cavities                             | <b>04231BTNTP</b> | 8              | 1,806        | 0,007                    |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



04231BTG

RAL 7004



## Return Inlets (Liner Pools) - ABS

### Wall Conduit-Inlet.

Specially designed for concrete-shell liner pools. Injected of white ABS plastic with adjustable ball for alternative discharges. Complete with flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.

#### Breaking tool



Ø14 mm ball 3 m³/h

Ø20 mm ball 5 m³/h

Ø25 mm ball 7 m³/h

| Description                                | Code           | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------------|----------------|------------|-----------|-----------|
| • 2" Male threaded: Ø50 internal slip con. | <b>04231C</b>  | 8          | 1,676     | 0,006     |
| • Ditto, W/Brass Cavities                  | <b>04231CB</b> | 8          | 1,718     | 0,006     |

**Wall Conduit-Inlet for Liner Pools.** Specially designed for concrete-shell liner pools. Injected of white ABS plastic with adjustable ball for alternative discharges. Complete with flange, gaskets, stainless steel screws, front cover and back locking nut. Flange connections can be with brass cavities or plastic nests.

| Description                                       | Code            | Pieces/box | Weight Kg | Volume m³ |
|---------------------------------------------------|-----------------|------------|-----------|-----------|
| • 2" Male threaded: Ø50 internal slip connection. | <b>04231CN</b>  | 8          |           |           |
| • Ditto, W/Brass Cavities                         | <b>04231CNB</b> | 8          |           |           |

### Suction Inlet for Liner Pools,

injected of white ABS plastic. Complete with blind cap, flange, gaskets, stainless steel screws and front cover. Flange connections can be with brass cavities or plastic nests.

| Description                                                              | Code            | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------------------------------------------|-----------------|------------|-----------|-----------|
| • 2" Male Threaded: Injected of white ABS plastic.                       | <b>04234T</b>   | 8          | 1,500     | 0,006     |
| • Ditto, W/Brass Cavities                                                | <b>04234TB</b>  | 8          | 1,600     | 0,006     |
| • 2" Male Threaded: Injected of white ABS plastic. Also 2" nut included. | <b>04234TN</b>  | 8          | 1,520     | 0,006     |
| • Ditto, W/Brass Cavities                                                | <b>04234TNB</b> | 8          | 1,732     | 0,006     |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.

### Floor Inlet - Adjustable for liner pools.

White ABS plastic, according to EU 13451-174.8.3 regulations. 2" male threaded, Ø50 mm internal slip connection. Adjustable flow. Complete with flange gaskets and stainless steel screws.

| Description                      | Code            | Pieces/box | Weight Kg | Volume m³ |
|----------------------------------|-----------------|------------|-----------|-----------|
| • Flat Lid - 2" Male Threaded    | <b>04232TF</b>  | 4          | 1,270     | 0,007     |
| • Ditto, W/Brass Cavities        | <b>04232TFB</b> | 4          | 1,270     | 0,007     |
| • Conical Lid - 2" Male Threaded | <b>04232TC</b>  | 4          | 1,340     | 0,007     |
| • Ditto, W/Brass Cavities        | <b>04232TCB</b> | 4          | 1,308     | 0,007     |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.

### Clamping nut, 2".

White ABS plastic. 2" Femals threaded.

| Description                       | Code         | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------|--------------|------------|-----------|-----------|
| • Nut with gasket for wall inlets | <b>04237</b> | 35         | 1,474     | 0,006     |



## Main Drains for Liner Pools

**Circular Main Drain.** Made of white ABS plastic. Grille fixed with stainless steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection. Complete with flange, stainless steel screws and gaskets. **Flange height:** 17,20 mm.

| Description               | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------|-----------------|----------------|--------------|--------------------------|
| • 1,5" Female Thread      | <b>04241T1</b>  | 1              | 1,740        | 0,013                    |
| • Ditto, W/Brass Cavities | <b>04241T1B</b> | 1              | 1,130        | 0,013                    |
| • 2" Female Thread        | <b>04241T2</b>  | 1              | 1,134        | 0,013                    |
| • Ditto, W/Brass Cavities | <b>04241T2B</b> | 1              | 1,572        | 0,013                    |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



### Circular Main Drain.

Made of white ABS plastic. Grille fixed with stainless steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection. Complete with flange, stainless steel screws and gaskets. **Flange height:** 6,35 mm.

| Description               | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------|-----------------|----------------|--------------|--------------------------|
| • 1,5" Thread             | <b>04243T1</b>  | 1              | 1,034        | 0,013                    |
| • Ditto, W/Brass Cavities | <b>04243T1B</b> | 1              | 1,034        | 0,013                    |
| • 2" Thread               | <b>04243T2</b>  | 1              | 1,072        | 0,013                    |
| • Ditto, W/Brass Cavities | <b>04243T2B</b> | 1              | 1,072        | 0,013                    |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



**Circular Main Drain with St. Steel Grille for Concrete Pools.** Body made of ABS plastic. Stainless steel grille fixed w/st. steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection.

| Description          | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------|------------------|----------------|--------------|--------------------------|
| • 1,5" Female Thread | <b>04241T1SS</b> | 1              |              |                          |
| • 2" Female Thread   | <b>04241T2SS</b> | 1              |              |                          |



### Squared Main Drain.

Made of white ABS plastic. Grille fixed with stainless steel screws, Ø50 mm female slip blind connection at the bottom for hydrostatic valve connection. Complete with flange, stainless steel screws and gaskets.

| Description                                                               | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------------------------|------------------|----------------|--------------|--------------------------|
| • 2" Female Thread                                                        | <b>04242T1</b>   | 1              | 1,600        | 0,013                    |
| • Ditto, but with extended threaded of 5 cm length facilitating test plug | <b>04242T1E</b>  | 1              | 1,600        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242T1EB</b> | 1              | 1,600        | 0,013                    |
| • 2,5" Female Thread                                                      | <b>04242T2</b>   | 1              | 1,606        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242T2B</b>  | 1              | 1,606        | 0,013                    |
| • 3" Female Thread                                                        | <b>04242T3</b>   | 1              | 1,606        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242T3B</b>  | 1              | 1,606        | 0,013                    |
| • Ø63 mm Slip Connection                                                  | <b>04242A1</b>   | 1              | 1,600        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242A1B</b>  | 1              | 1,570        | 0,013                    |
| • Ø75 mm Slip Connection                                                  | <b>04242A2</b>   | 1              | 1,570        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242A2B</b>  | 1              | 1,570        | 0,013                    |
| • Ø90 mm Slip Connection                                                  | <b>04242A3</b>   | 1              | 1,570        | 0,013                    |
| • Ditto, W/Brass Cavities                                                 | <b>04242A3B</b>  | 1              | 1,570        | 0,013                    |

PS: Colored products can be ordered by adding "G" for Grey, "B" for Beige, "A" for Anthracite. Prices will be 10% more expensive.



# PROTECT YOUR FUTURE



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| 05 | Electrical Equipment | 118 |
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## Underwater Lights for Concrete Pools

New Generation

### "SlimLED"

#### Underwater Light without Niche, Silicone Filled, Single Color.

Frame made of ABS Plastic. Polycarbonate light body with a choice of LED quantities and powers, embedded into a special transparent silicone. Complete with epoxy PCB. 2 x 1,5 mm cable of 2,5 m length. 120° - IP68.

Wall mounting is done by fixing the light directly onto the pool wall with stainless steel screws and plugs. Optional wall mounting bracket is available. **2 Year Leakage Warranty.**

The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available on the market. **Max. operating temperature 30°.**



051130EY01

Optional wall mounting bracket

| Description                            | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|-------------------|------------|-----------|-----------------------|
| • 252 LED White - 50 W                 | <b>051140</b>     | 1          | 1,050     | 0,005                 |
| • 252 LED Daylight - 50 W              | <b>051141</b>     | 1          | 1,050     | 0,005                 |
| • 81 LED White - 35 W Aluminium PCB    | <b>051130</b>     | 1          | 1,050     | 0,005                 |
| • 81 LED Daylight - 35 W Aluminium PCB | <b>051131</b>     | 1          | 1,050     | 0,005                 |
| • Optional Wall Mounting Bracket       | <b>051130EY01</b> | 1          |           |                       |

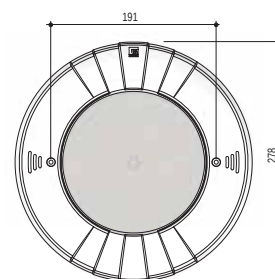
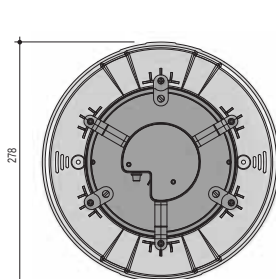
**Note:** Other Single Color prices are the same. The last digit of the product code should be changed to the following - for Turquoise 2, for Blue 3, for Red 4, for Green 5.

#### "SlimLED" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                            | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|---------------|------------|-----------|-----------------------|
| <b>Central Control</b>                 |               |            |           |                       |
| • 252 LED RGB, 36 W Aluminium PCB      | <b>051155</b> | 1          | 1,050     | 0,005                 |
| • 90 LED RGB-White, 36 W Aluminium PCB | <b>051152</b> | 1          | 1,050     | 0,005                 |
| • 81 LED RGB, 30 W                     | <b>051157</b> | 1          | 1,050     | 0,005                 |
| <b>Built-in Control</b>                |               |            |           |                       |
| • 252 LED RGB, 36 W Aluminium PCB      | <b>051153</b> | 1          | 1,050     | 0,005                 |
| • 90 LED RGB-White, 36 W Aluminium PCB | <b>051150</b> | 1          | 1,050     | 0,005                 |
| • 81 LED RGB, 30 W                     | <b>051156</b> | 1          | 1,050     | 0,005                 |





**"New Generation"**



## Underwater Lights for Concrete Pools

**"ECOSlimLED"**

**Underwater Light without Niche, Single Color.**

Frame made of ABS or Transparent Plastic. Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,5 m length. 120° - IP68. Wall mounting is done by fixing the light directly onto the pool wall with stainless steel screws and plugs. Optional wall mounting bracket is available.

The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available on the market. **Max. operating temperature 30°.**

| Description                      | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|-------------------|------------|-----------|-----------------------|
| • 72 LED White - 24 W            | <b>051130EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED Daylight - 24 W         | <b>051131EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED Turquoise - 20 W        | <b>051132EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED Blue - 20 W             | <b>051133EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED Red - 20 W              | <b>051134EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED Green - 20 W            | <b>051135EO</b>   | 1          | 0,835     | 0,005                 |
| • Optional Wall Mounting Bracket | <b>051130EY01</b> | 1          |           |                       |



**"ECOSlimLED" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

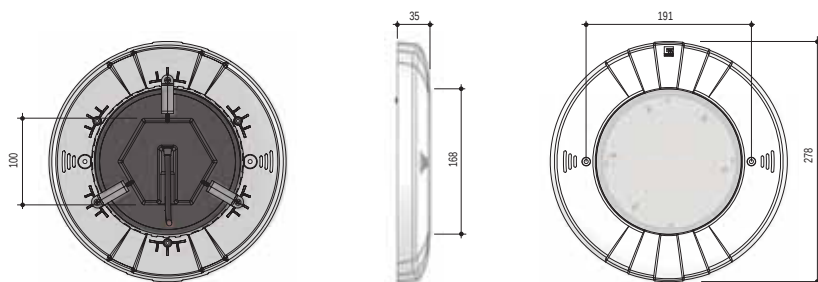
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                        | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|-------------------|------------|-----------|-----------------------|
| • 72 LED RGB-Built-in Control-20 W | <b>051150EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED RGB-Central Control-20 W  | <b>051152EO</b>   | 1          | 0,835     | 0,005                 |
| • 72 LED RGB-Self Control          | <b>051150SCEO</b> | 1          | 0,835     | 0,005                 |
| • Optional Wall Mounting Bracket   | <b>051130EY01</b> | 1          | 0,835     | 0,005                 |



051130EY01

Optional wall mounting bracket





## Underwater Lights for Concrete Pools



**NEW ! "New Generation"**

**ECOSlim2025 LED**

**Underwater Light without Niche, Single Color.**

Frame made of ABS or Transparent Plastic. Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,5 m length. 120° - IP68. Wall mounting is done by fixing the light directly onto the pool wall with stainless steel screws and plugs. Optional wall mounting bracket is available. **Max. operating temperature 30°.**

| Description                      | Code              | Pieces/box | Weight Kg | Volume m³ |
|----------------------------------|-------------------|------------|-----------|-----------|
| • 72 LED White - 24 W            | <b>051120EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED Daylight - 24 W         | <b>051121EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED Turquoise - 20 W        | <b>051122EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED Blue - 20 W             | <b>051123EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED Red - 20 W              | <b>051124EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED Green - 20 W            | <b>051125EO</b>   | 1          | 0,835     | 0,005     |
| • Optional Wall Mounting Bracket | <b>051130EY01</b> |            |           |           |



**"ECOSlim2025 LED" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                        | Code              | Pieces/box | Weight Kg | Volume m³ |
|------------------------------------|-------------------|------------|-----------|-----------|
| • 72 LED RGB-Built-in Control-20 W | <b>051126EO</b>   | 1          | 0,835     | 0,005     |
| • 72 LED RGB-Central Control-20 W  | <b>051127EO</b>   | 1          | 0,835     | 0,005     |
| • Optional Wall Mounting Bracket   | <b>051130EY01</b> |            |           |           |



**051130EY01**

Optional wall mounting bracket

## Underwater Lights for Concrete Pools

New Generation



### "MAXI-Clicker"

Underwater light without niche. Single color, frame made of ABS Plastic complete with 72 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68 Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise.**

### 2 Year Leakage Warranty.

The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market.

**This product is patented.**



Patented Bayonet "Click" System



Rear View



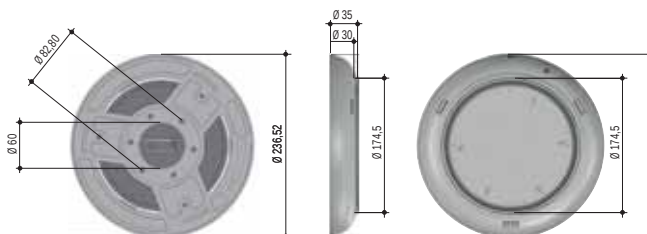
| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED White - 35 W Aluminium PCB    | <b>051230</b>  | 1          |           |                       |
| • 72 LED Daylight - 35 W Aluminium PCB | <b>051231</b>  | 1          |           |                       |
| • 72 LED Turquoise - 30 W              | <b>051232</b>  | 1          |           |                       |
| • 72 LED Blue - 30 W                   | <b>051233</b>  | 1          |           |                       |
| • 72 LED Red - 30 W                    | <b>051234</b>  | 1          |           |                       |
| • 72 LED Green - 30 W                  | <b>051235</b>  | 1          |           |                       |
| • 72 LED White - 24 W                  | <b>0512301</b> | 1          |           |                       |
| • 72 LED Daylight - 24 W               | <b>0512311</b> | 1          |           |                       |
| • 72 LED Turquoise - 20 W              | <b>0512321</b> | 1          |           |                       |
| • 72 LED Blue - 20 W                   | <b>0512331</b> | 1          |           |                       |
| • 72 LED Red - 20 W                    | <b>0512341</b> | 1          |           |                       |
| • 72 LED Green - 20 W                  | <b>0512351</b> | 1          |           |                       |

### "MAXI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - 30 W | <b>051236</b>  | 1          |           |                       |
| • 72 LED RGB - Center Control - 30 W   | <b>051237</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - 20 W | <b>0512361</b> | 1          |           |                       |
| • 72 LED RGB - Center Control - 20 W   | <b>0512371</b> | 1          |           |                       |



### "MAXI-Clicker" Underwater Light Colored Frame

Made of ABS. Different Color options can be adapted to all Maxi-Clicker Models.

| Description             | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------|------------------|------------|-----------|-----------------------|
| • Anthracite - RAL 7016 | <b>05120001A</b> | 1          |           |                       |
| • Beige - RAL 1015      | <b>05120001B</b> | 1          |           |                       |
| • Gray - RAL 7004       | <b>05120001G</b> | 1          |           |                       |
| • Stainless Steel 304   | <b>0512001SS</b> | 1          |           |                       |



**New Generation**



## Underwater Lights for Concrete Pools

**“MIDI-Clicker”**

**Underwater Light without Niche, Single Color.**

Designed for pool stairs, small pools and spas. Single color, frame made of ABS Plastic complete with 72 SMD LED.

Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the

bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR38 products available on the market. **This product is patented.**

| Description              | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|----------------|-------------|-----------|-----------------------|
| • 72 LED White - 10 W    | <b>051160E</b> | 1           |           |                       |
| • 72 LED Daylight - 10 W | <b>051161E</b> | 1           |           |                       |
| • 72 LED Turquoise - 9 W | <b>051162E</b> | 1           |           |                       |
| • 72 LED Blue - 9 W      | <b>051163E</b> | 1           |           |                       |
| • 72 LED Red - 9 W       | <b>051164E</b> | 1           |           |                       |
| • 72 LED Green - 9 W     | <b>051165E</b> | 1           |           |                       |



Patented Bayonet “Click” System

**“MIDI-Clicker” Underwater Light without Niche; Ditto, but RGB Changing Color.**

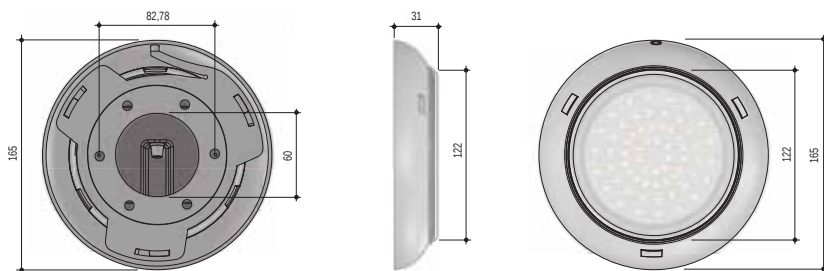
For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                          | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|----------------|-------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control -9 W | <b>051170E</b> | 1           |           |                       |
| • 72 LED RGB - Central Control -9 W  | <b>051171E</b> | 1           |           |                       |



Rear View



Wall Mounting Bracket

## Cable Conduit for Surface Mounted Lights

**“Sealed Cable-Concrete Transition”** Made of ABS. Complete with seal nut suitable for 2 x 0,75 mm cable passage, gasket, union and 2 stainless steel fixing screws.

**Can be used with all surface mounted pool lights for concrete pools.**

| Description | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|-------------|-----------|-----------------------|
|             | <b>0511175</b> | 1           | 1,882     | 0,016                 |



## Underwater Lights for Concrete Pools

*"New Generation"*



Product Video



### "MINI-Clicker"

#### Underwater Light without Niche, Single Color.

Designed for pool stairs, small pools and spas. Underwater light without niche. Single color, frame made of ABS Plastic complete with 36 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,0 m length. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, it is **very easy to fix the frame onto the bracket by a 30° clockwise turn. Just turn & click!** In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. **2 Year Leakage Warranty. This product is patented.**



Patented Bayonet  
"Click" System



Rear View



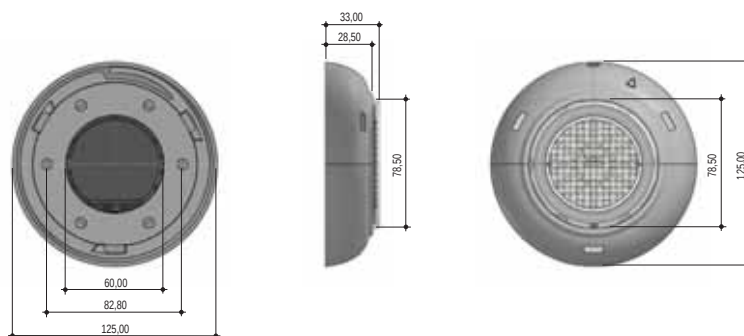
Wall Mounting Bracket

| Description              | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------------|------------|-----------|-----------------------|
| • 36 LED White - 7 W     | <b>051180</b> | 1          |           |                       |
| • 36 LED Daylight - 7 W  | <b>051181</b> | 1          |           |                       |
| • 36 LED Turquoise - 4 W | <b>051182</b> | 1          |           |                       |
| • 36 LED Blue - 4 W      | <b>051183</b> | 1          |           |                       |
| • 36 LED Red - 4 W       | <b>051184</b> | 1          |           |                       |
| • 36 LED Green - 4 W     | <b>051185</b> | 1          |           |                       |

### "MINI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns. For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                        | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|---------------|------------|-----------|-----------------------|
| • 36 LED RGB-Built-in Control -4 W | <b>051190</b> | 1          |           |                       |
| • 36 LED RGB-Central Control -4 W  | <b>051191</b> | 1          |           |                       |





**"New Generation"**

**NEW !**

**2 years  
Parts  
WARRANTY**



## Underwater Lights for Concrete Pools

**"Twister"**

**Underwater light without niche.**

Single color, frame made of ABS Plastic complete with 72 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68 Consists of wall bracket and the light w/frame. Installation for different pool types could be achieved easily as shown in the schemes below. The bracket facilitates adjusting the distance between light frame and pool wall. **It is very easy to fix the frame onto the bracket and to remove it just by a 30° clockwise turn. Just turn & click or remove!**  
**2 Year Leakage Warranty.**

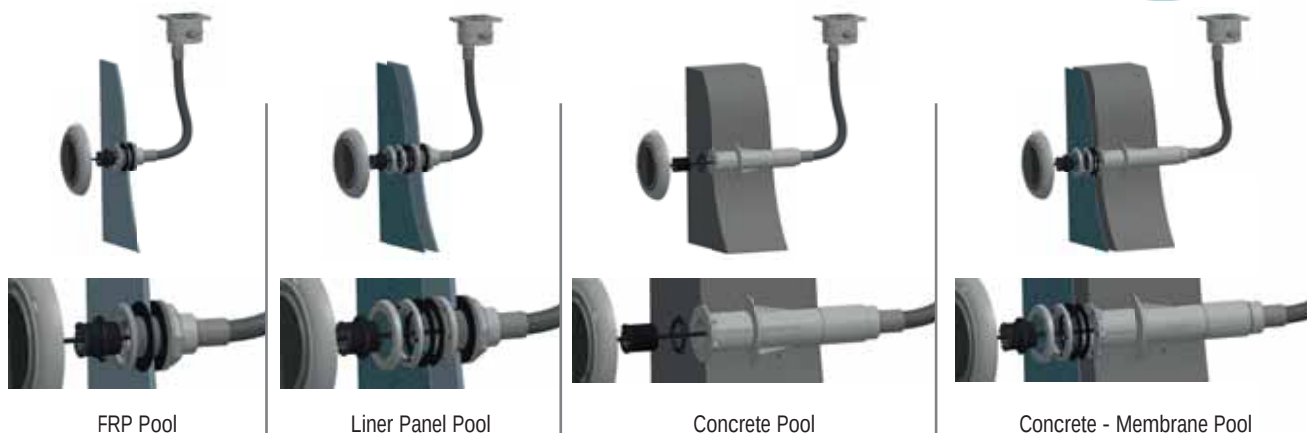
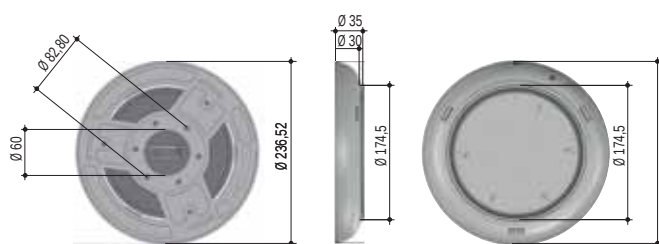
| Description               | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------|---------------|----------------|--------------|--------------------------|
| • 72 LED White - 24 W     | <b>051210</b> | 1              |              |                          |
| • 72 LED Daylight - 24 W  | <b>051211</b> | 1              |              |                          |
| • 72 LED Turquoise - 20 W | <b>051212</b> | 1              |              |                          |
| • 72 LED Blue - 20 W      | <b>051213</b> | 1              |              |                          |
| • 72 LED Red - 20 W       | <b>051214</b> | 1              |              |                          |
| • 72 LED Green - 20 W     | <b>051215</b> | 1              |              |                          |

**"Twister" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                         | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------|---------------|----------------|--------------|--------------------------|
| • 72 LED RGB-Built-in Control -20 W | <b>051216</b> | 1              |              |                          |
| • 72 LED RGB-Central Control -20 W  | <b>051217</b> | 1              |              |                          |



## Underwater Lights for Concrete Pools - St. Steel

AISI 304/316



### "SlimLED-INOX"

#### Underwater Light without Niche, Silicone Filled, Single Color.

Frame made of AISI 304 grade Stainless Steel. Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with Aluminium PCB. 2 x 1,5 mm cable of 2,5 m length. 120° - IP68. Wall mounting is done by screwing the wall mounting bracket directly to the pool wall. A single screw then attaches the light to the bracket making it easy to lift the light out of the pool. **2 Year Leakage Warranty. For AISI 316 grade stainless steel option, 01 should be added to the end of product codes below and 20% should be added to the price. Max. operating temperature 30°.**



| Description                | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|-----------------|------------|-----------|-----------------------|
| • 252 LED White - 50 W     | <b>051140SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Daylight - 50 W  | <b>051141SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Turquoise - 36 W | <b>051142SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Blue - 36 W      | <b>051143SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Red - 36 W       | <b>051144SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Green - 36 W     | <b>051145SS</b> | 1          | 1,100     | 0,005                 |

### "SlimLED-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.



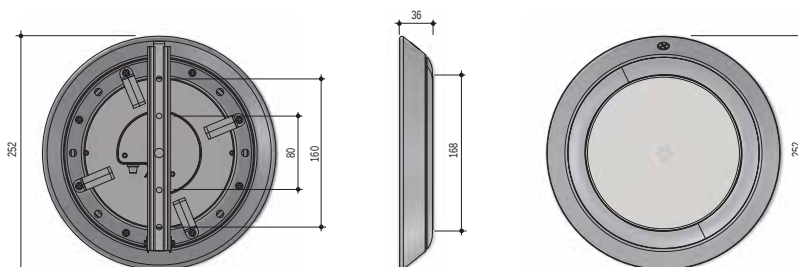
| Description                             | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-----------------|------------|-----------|-----------------------|
| • 252 LED RGB, 36 W - Built-in Control  | <b>051153SS</b> | 1          | 1,100     | 0,005                 |
| • 252 LED RGB, 36 W - Centrally Control | <b>051155SS</b> | 1          | 1,100     | 0,005                 |

**Note:** For RGB 81 LED and RGB 90 LED options with stainless steel frame, please add SS to the end of the product codes on page 122 and ask for price.

Fixing with Top Screw



Rear View



AISI 304/316

**New Generation**

## Underwater Lights for Concrete Pools - St. Steel

**"SlimLED-INOXCLICK"**

**Underwater Light without Niche, Silicone Filled, Single Color.**

Frame made of AISI 304 grade Stainless Steel. Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with Aluminium PCB. 2 x 1,5 mm cable of 2,5 m length. 120° - IP68. Wall mounting is done by screwing the wall mounting bracket directly to the pool wall. After the excess cable is wrapped, the light frame is easily slotted onto the mounting bracket (no screw required).



This allows for very easy removal of the light out of the pool. By means of a screw driver. **2 Year Leakage Warranty.** For AISI 316 grade stainless steel option, 01 should be added to the end of the product codes below and 20% should be added to the price. Max. operating temperature 30°.

| Description                | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|------------------|------------|-----------|-----------------------|
| • 252 LED White - 50 W     | <b>051140SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Daylight - 50 W  | <b>051141SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Turquoise - 36 W | <b>051142SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Blue - 36 W      | <b>051143SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Red - 36 W       | <b>051144SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED Green - 36 W     | <b>051145SSC</b> | 1          | 1,100     | 0,005                 |

**"SlimLED-INOXCLICK" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

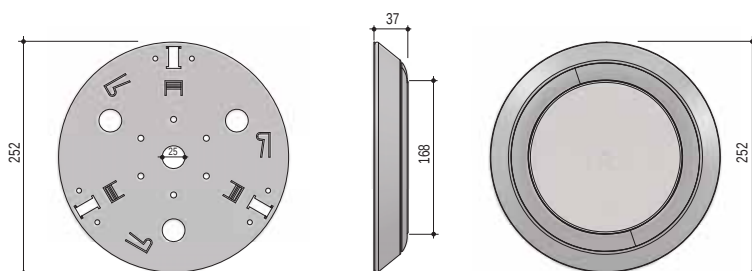
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                             | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|------------------|------------|-----------|-----------------------|
| • 252 LED RGB, 36 W - Built-in Control  | <b>051153SSC</b> | 1          | 1,100     | 0,005                 |
| • 252 LED RGB, 36 W - Centrally Control | <b>051155SSC</b> | 1          | 1,100     | 0,005                 |

**Note:** For "INOXCLICK" in RGB 81 LED and RGB 90 LED please add SSC to the end of the product codes on page 122 and ask for price.



Wall Mounting Bracket





## Underwater Lights for Concrete Pools - St. Steel

"New Generation"

AISS 304/316



Product Video

NEW!

2 years  
Parts  
WARRANTY



CE

### "MAXI-Clicker"

Underwater light without niche. Single color, **Frame** made of AISI 304 Stainless Steel complete with 72 SMD LED.

Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, it is very easy to fix the frame onto the bracket by a 30° clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.

The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market. This product is patented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, and 20% should be added to the price.



Patented Bayonet  
"Click" System



Rear View

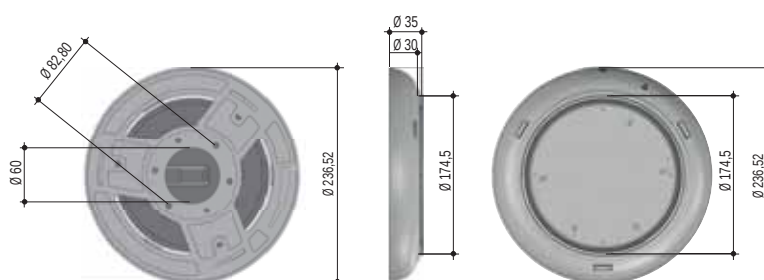
| Description                            | Code      | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|-----------|----------------|--------------|--------------------------|
| • 72 LED White - 35 W Aluminium PCB    | 051230SS  | 1              |              |                          |
| • 72 LED Daylight - 35 W Aluminium PCB | 051231SS  | 1              |              |                          |
| • 72 LED Turquoise - 30 W              | 051232SS  | 1              |              |                          |
| • 72 LED Blue - 30 W                   | 051233SS  | 1              |              |                          |
| • 72 LED Red - 30 W                    | 051234SS  | 1              |              |                          |
| • 72 LED Green - 30 W                  | 051235SS  | 1              |              |                          |
| • 72 LED White - 24 W                  | 0512301SS | 1              |              |                          |
| • 72 LED Daylight - 24 W               | 0512311SS | 1              |              |                          |
| • 72 LED Turquoise - 20 W              | 0512321SS | 1              |              |                          |
| • 72 LED Blue - 20 W                   | 0512331SS | 1              |              |                          |
| • 72 LED Red - 20 W                    | 0512341SS | 1              |              |                          |
| • 72 LED Green - 20 W                  | 0512351SS | 1              |              |                          |

### "MAXI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                            | Code      | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|-----------|----------------|--------------|--------------------------|
| • 72 LED RGB - Built-in Control - 30 W | 051236SS  | 1              |              |                          |
| • 72 LED RGB - Center Control - 30 W   | 051237SS  | 1              |              |                          |
| • 72 LED RGB - Built-in Control - 20 W | 0512361SS | 1              |              |                          |
| • 72 LED RGB - Center Control - 20 W   | 0512371SS | 1              |              |                          |





AISI 304/316



Product Video

**"New Generation"**



## Underwater Lights for Concrete Pools - St. Steel

**"MIDI-Clicker-INOX"**

**Underwater Light without Niche, Single Color.**

Designed for stairs, small pools and spas. **Frame** made of AISI 304 grade Stainless Steel. Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68 Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the fram onto the bracket by a 30° clockwise turn. Just turn & click!** In order to remove it,



**push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market. **This product is patented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, and 20% should be added to the price.**

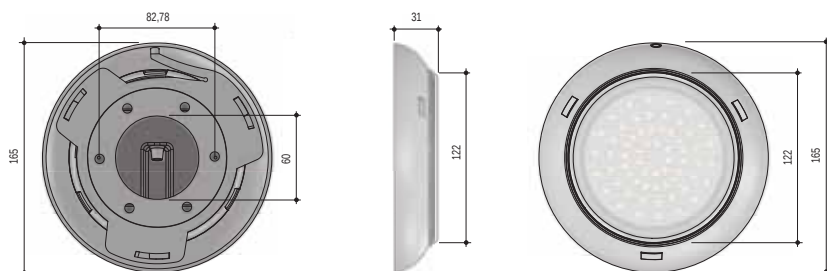
| Description              | Code             | Pieces/box | Weight Kg | Volume m³ |
|--------------------------|------------------|------------|-----------|-----------|
| • 72 LED White - 10 W    | <b>051160ESS</b> | 1          |           |           |
| • 72 LED Daylight - 10 W | <b>051161ESS</b> | 1          |           |           |
| • 72 LED Turquoise - 9 W | <b>051162ESS</b> | 1          |           |           |
| • 72 LED Blue - 9 W      | <b>051163ESS</b> | 1          |           |           |
| • 72 LED Red - 9 W       | <b>051164ESS</b> | 1          |           |           |
| • 72 LED Green - 9 W     | <b>051165ESS</b> | 1          |           |           |

**"MIDI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                          | Code             | Pieces/box | Weight Kg | Volume m³ |
|--------------------------------------|------------------|------------|-----------|-----------|
| • 72 LED RGB - Built-in Control -9 W | <b>051170ESS</b> | 1          |           |           |
| • 72 LED RGB - Central Control -9 W  | <b>051171ESS</b> | 1          |           |           |



Patented Bayonet  
"Click" System



Rear View



Wall Mounting Bracket

## Underwater Lights for Concrete Pools - AISI 304 St. Steel

New Generation

AISI 304/316



Product Video

### "MINI-Clicker-INOX"

#### Underwater Light without Niche, Single Color.

Designed for stairs, small pools and spas. **Frame** made of AISI 304 grade Stainless Steel. Complete with 36 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30°**

**clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market. **This product is patented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, and 20% should be added to the price.**



| Description              | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|-----------------|------------|-----------|-----------------------|
| • 36 LED White - 7 W     | <b>051180SS</b> | 1          |           |                       |
| • 36 LED Daylight - 7 W  | <b>051181SS</b> | 1          |           |                       |
| • 36 LED Turquoise - 4 W | <b>051182SS</b> | 1          |           |                       |
| • 36 LED Blue - 4 W      | <b>051183SS</b> | 1          |           |                       |
| • 36 LED Red - 4 W       | <b>051184SS</b> | 1          |           |                       |
| • 36 LED Green - 4 W     | <b>051185SS</b> | 1          |           |                       |



### "MINI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

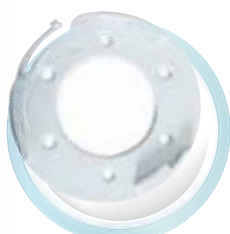
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                        | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|-----------------|------------|-----------|-----------------------|
| • 36 LED RGB-Built-in Control -4 W | <b>051190SS</b> | 1          |           |                       |
| • 36 LED RGB-Central Control -4 W  | <b>051191SS</b> | 1          |           |                       |

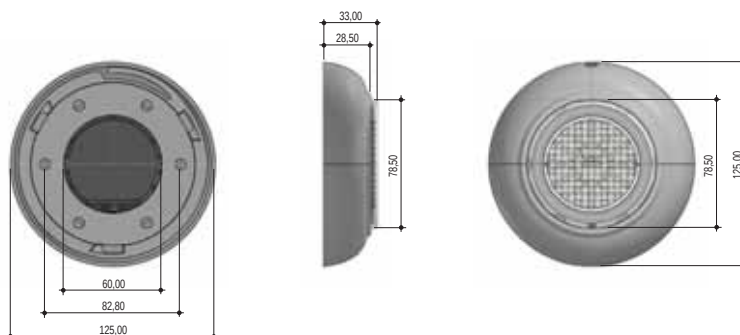
Patented Bayonet "Click" System



Rear View



Wall Mounting Bracket



**"New Generation"**



## Underwater Lights for Liner Pools

**"SlimLED"**

**Underwater Light without Niche, Silicone Filled, Single Color.**

Frame made of ABS Plastic. Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone.

Complete with epoxy PCB. 2 x 1,5 mm cable of 2,5 m length and Liner Pool Wall Mounting Kit (0521402). 120° - IP68. **2 Year Leakage Warranty.**

The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available on the market. **Max. operating temperature 30°.**

| Description                            | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|---------------|------------|-----------|-----------------------|
| • 252 LED White - 50 W                 | <b>052140</b> | 1          | 0,835     | 0,005                 |
| • 252 LED Daylight - 50 W              | <b>052141</b> | 1          | 0,835     | 0,005                 |
| • 81 LED White - 35 W Aluminium PCB    | <b>052130</b> | 1          | 0,835     | 0,005                 |
| • 81 LED Daylight - 35 W Aluminium PCB | <b>052131</b> | 1          | 0,835     | 0,005                 |

**Note:** Other Single Color prices are the same. The last digit of the product code should be changed to the following - for Turquoise 2, for Blue 3, for Red 4, for Green 5.



**"SlimLED" Underwater Light without Niche, Silicone Filled, RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                            | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|---------------|------------|-----------|-----------------------|
| <b>Centrally Control</b>               |               |            |           |                       |
| • 252 LED RGB, 36 W Aluminium PCB      | <b>052155</b> | 1          | 1,350     | 0,005                 |
| • 90 LED RGB-White, 36 W Aluminium PCB | <b>052152</b> | 1          | 1,350     | 0,005                 |
| • 81 LED RGB, 30 W                     | <b>052157</b> | 1          | 1,350     | 0,005                 |
| <b>Built-in Control</b>                |               |            |           |                       |
| • 252 LED RGB, 36 W Aluminium PCB      | <b>052153</b> | 1          | 1,350     | 0,005                 |
| • 90 LED RGB-White, 36 W Aluminium PCB | <b>052150</b> | 1          | 1,350     | 0,005                 |
| • 81 LED RGB, 30 W                     | <b>052156</b> | 1          | 1,350     | 0,005                 |



**"SlimLED" Underwater Light without Niche, Silicone Filled Mounting Kits.**

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------|------------------|------------|-----------|-----------------------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| • Polyester pool mounting kit (2" with nut)   | <b>0521403</b>   | 1          | 0,300     | 0,003                 |



051130EY01

Optional Wall Mounting Bracket



052160E01

## Underwater Lights for Liner Pools

"New Generation"



"MAXI-Clicker"

**Underwater Light without Niche, Single Color.**

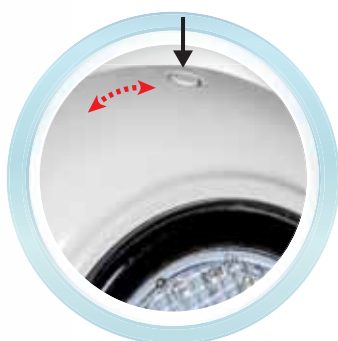
Frame made of ABS Plastic complete with 72 SMD LED.

Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length 120° - IP68. Consists of wall bracket and the light w/frame.

After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn.**

**Just turn & click! In order to remove it, push a screw driver on to the button**

**gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market. **This product is patented.**



Patented Bayonet "Click" System



Rear View



052160E01



05223003

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED White - 35 W Aluminium PCB    | <b>052230</b>  | 1          |           |                       |
| • 72 LED Daylight - 35 W Aluminium PCB | <b>052231</b>  | 1          |           |                       |
| • 72 LED Turquoise - 30 W              | <b>052232</b>  | 1          |           |                       |
| • 72 LED Blue - 30 W                   | <b>052233</b>  | 1          |           |                       |
| • 72 LED Red - 30 W                    | <b>052234</b>  | 1          |           |                       |
| • 72 LED Green - 30 W                  | <b>052235</b>  | 1          |           |                       |
| • 72 LED White - 24 W                  | <b>0522301</b> | 1          |           |                       |
| • 72 LED Daylight - 24 W               | <b>0522311</b> | 1          |           |                       |
| • 72 LED Turquoise - 20 W              | <b>0522321</b> | 1          |           |                       |
| • 72 LED Blue - 20 W                   | <b>0522331</b> | 1          |           |                       |
| • 72 LED Red - 20 W                    | <b>0522341</b> | 1          |           |                       |
| • 72 LED Green - 20 W                  | <b>0522351</b> | 1          |           |                       |

**"MAXI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.**

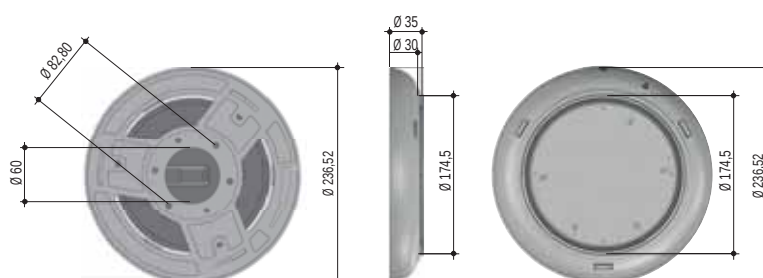
For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - 30 W | <b>052236</b>  | 1          |           |                       |
| • 72 LED RGB - Center Control - 30 W   | <b>052237</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - 20 W | <b>0522361</b> | 1          |           |                       |
| • 72 LED RGB - Center Control - 20 W   | <b>0522371</b> | 1          |           |                       |

**"MAXI-Clicker" Underwater Light without Niche, Mounting Kits.**

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------|------------------|------------|-----------|-----------------------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| • Polyester pool mounting kit (2" with nut)   | <b>05223003</b>  | 1          | 0,300     | 0,003                 |







**"New Generation"**



## Underwater Lights for Liner Pools

**"MIDI-Clicker"**

**Underwater Light without Niche, Single Color.**

Designed for stairs, small pools and spas. Frame made of ABS Plastic.

Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and

2 x 0,75 mm cable of 1 m length and Liner Pool Wall Mounting Kit (0521402).

120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on

pool wall by means of stainless steel screws, it is very easy to fix the frame onto

the bracket by a 30° clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.

| Description              | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED White - 10 W    | <b>052160E</b> | 1          |           |                       |
| • 72 LED Daylight - 10 W | <b>052161E</b> | 1          |           |                       |
| • 72 LED Turquoise - 9 W | <b>052162E</b> | 1          |           |                       |
| • 72 LED Blue - 9 W      | <b>052163E</b> | 1          |           |                       |
| • 72 LED Red - 9 W       | <b>052164E</b> | 1          |           |                       |
| • 72 LED Green - 9 W     | <b>052165E</b> | 1          |           |                       |

**"MIDI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.**

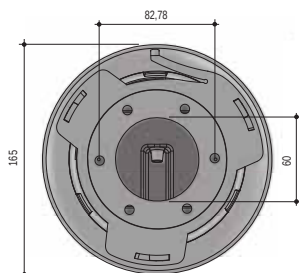
For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                          | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|----------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control -9 W | <b>052170E</b> | 1          |           |                       |
| • 72 LED RGB - Central Control -9 W  | <b>052171E</b> | 1          |           |                       |

**"MIDI-Clicker" Underwater Light without Niche Mounting Kits.**

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------|------------------|------------|-----------|-----------------------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| • Polyester pool mounting kit (2" with nut)   | <b>052160E03</b> | 1          | 0,300     | 0,003                 |



Patented Bayonet "Click" System



052160E01



052160E03

## Underwater Lights for Liner Pools

"New Generation"



Product Video

### "MINI-Clicker"

#### Underwater Light without Niche, Single Color.

Designed for stairs, small pools and spas. Underwater light without niche.

Single color, frame made of ABS Plastic complete with 36 SMD LED.

Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,0 m length.

120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on

pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn.**

**Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty. This product is patented.**



| Description              | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------------|------------|-----------|-----------------------|
| • 36 LED White - 7 W     | <b>052180</b> | 1          |           |                       |
| • 36 LED Daylight - 7 W  | <b>052181</b> | 1          |           |                       |
| • 36 LED Turquoise - 4 W | <b>052182</b> | 1          |           |                       |
| • 36 LED Blue - 4 W      | <b>052183</b> | 1          |           |                       |
| • 36 LED Red - 4 W       | <b>052184</b> | 1          |           |                       |
| • 36 LED Green - 4 W     | <b>052185</b> | 1          |           |                       |



Patented Bayonet  
"Click" System

#### "MINI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

| Description                        | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|---------------|------------|-----------|-----------------------|
| • 36 LED RGB-Built-in Control -4 W | <b>052190</b> | 1          |           |                       |
| • 36 LED RGB-Central Control -4 W  | <b>052191</b> | 1          |           |                       |



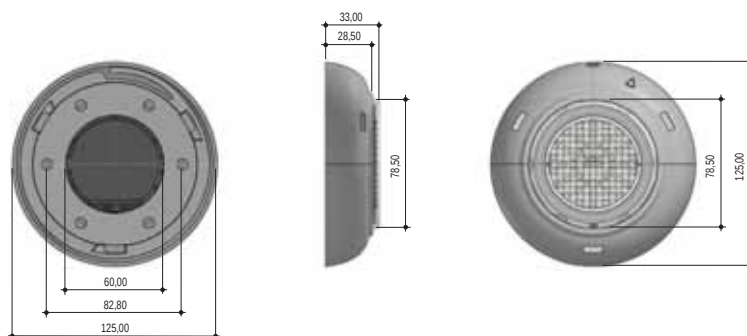
052160E01

#### "MINI-Clicker" Underwater Light without Niche, Mounting Kits.

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------|------------------|------------|-----------|-----------------------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| • Polyester pool mounting kit (2" with nut)   | <b>052180E03</b> | 1          | 0,300     | 0,003                 |



052180E03



AISI 304/316

**New Generation**

## Underwater Lights for Liner Pools - AISI 304 St. Steel

**"SlimLED-INOX"**

**Underwater Light without Niche, Silicone Filled, Single Color.**

Frame made of AISI 304 grade Stainless Steel. Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with Aluminium PCB. 2 x 1,5 mm cable of 2,5 m length. 120° - IP68. Wall mounting is done by screwing the wall mounting bracket directly to the pool wall. A single screw then attaches the light to the bracket



making it easy to lift the light out of the pool. **2 Year Leakage Warranty. For AISI 316 grade stainless steel option, 01 should be added to the end of product codes below and 20% should be added to the price. Max. operating temperature 30°.**

| Description                | Code            | Pieces/box | Weight Kg | Volume m³ |
|----------------------------|-----------------|------------|-----------|-----------|
| • 252 LED White - 50 W     | <b>052140SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED Daylight - 50 W  | <b>052141SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED Turquoise - 36 W | <b>052142SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED Blue - 36 W      | <b>052143SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED Red - 36 W       | <b>052144SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED Green - 36 W     | <b>052145SS</b> | 1          | 1,400     | 0,008     |



**"SlimLED-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.**

For built in PCB models there are 13 different lighting patterns.

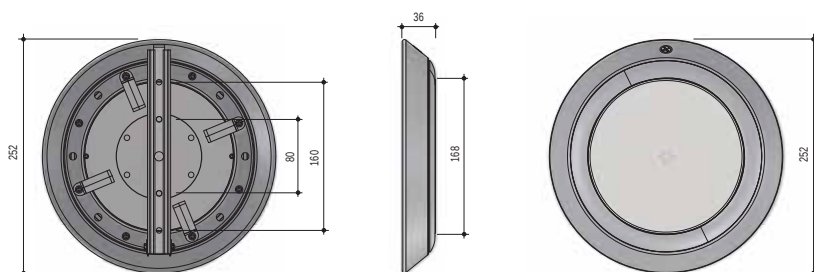
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                             | Code            | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------|-----------------|------------|-----------|-----------|
| • 252 LED RGB, 36 W - Built-in Control  | <b>052153SS</b> | 1          | 1,400     | 0,008     |
| • 252 LED RGB, 36 W - Centrally Control | <b>052155SS</b> | 1          | 1,400     | 0,008     |

**Note:** For RGB 81 LED and RGB 90 LED options with stainless steel frame, please add SS to the end of the product codes on page 127, request 'Liner Pool' and ask for price.



Rear View



Liner Wall Mount Bracket

## Underwater Lights for Liner Pools - AISI 304 St. Steel

"New Generation"

AISI 304/316

### "SlimLED-INOXCLICK"

**Underwater Light without Niche, Silicone Filled, Single Color.**

Frame made of AISI 304 grade Stainless Steel.

Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with Aluminium PCB. 2 x 1,5 mm cable of 2,5 m length and Liner Pool Wall Mounting Kit (0521402). 120° - IP68.

Wall mounting is done by screwing the wall mounting bracket directly to the pool wall. After the excess cable is wrapped, the light frame is easily slotted onto the mounting bracket (no screw required). This allows for very easy removal of the light out

of the pool. By means of a screw driver. **2 Year Leakage Warranty.** For AISI 316 grade stainless steel option, 01 should be added to the end of the product codes below and 20% should be added to the price. Max. operating temperature 30°.



Wall Mount Bracket

| Description                | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|------------------|------------|-----------|-----------------------|
| • 252 LED White - 50 W     | <b>052140SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED Daylight- 50 W   | <b>052141SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED Turquoise - 36 W | <b>052142SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED Blue - 36 W      | <b>052143SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED Red - 36 W       | <b>052144SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED Green - 36 W     | <b>052145SSC</b> | 1          | 1,400     | 0,008                 |

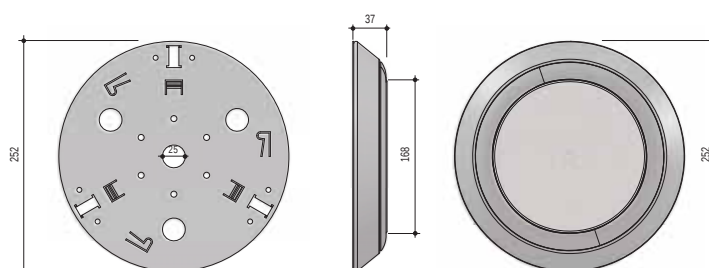
### "SlimLED-INOXCLICK" Underwater Light without Niche; Ditto, but RGB Changing Color.

For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                             | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|------------------|------------|-----------|-----------------------|
| • 252 LED RGB, 36 W - Built-in Control  | <b>052153SSC</b> | 1          | 1,400     | 0,008                 |
| • 252 LED RGB, 36 W - Centrally Control | <b>052155SSC</b> | 1          | 1,400     | 0,008                 |

**Note:** For "INOXCLICK" in RGB 81 LED and RGB 90 LED please add SSC to the end of the product codes on page 128, request 'Liner Pool' and ask for price.





AISI 304/316

**"New Generation"**



Product Video



## Underwater Lights for Liner Pools - St. Steel

**"MAXI-Clicker-INOX"**

**Underwater Light without Niche, Single Color.**

**Frame** made of AISI 304 Stainless Steel complete with 72 SMD LED.

Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1 m length and Liner Pool Wall Mounting Kit. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn.**

**Just turn & click! In order to remove it, push a screw driver on to the button gently and**

**turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR56 products available in the market. **This product is patented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, an 20% should be added to the price.**

| Description                            | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED White - 35 W Aluminium PCB    | <b>052230SS</b>  | 1          |           |                       |
| • 72 LED Daylight - 35 W Aluminium PCB | <b>052231SS</b>  | 1          |           |                       |
| • 72 LED Turquoise - 30 W              | <b>052232SS</b>  | 1          |           |                       |
| • 72 LED Blue - 30 W                   | <b>052233SS</b>  | 1          |           |                       |
| • 72 LED Red - 30 W                    | <b>052234SS</b>  | 1          |           |                       |
| • 72 LED Green - 30 W                  | <b>052235SS</b>  | 1          |           |                       |
| • 72 LED White - 24 W                  | <b>0522301SS</b> | 1          |           |                       |
| • 72 LED Daylight - 24 W               | <b>0522311SS</b> | 1          |           |                       |
| • 72 LED Turquoise - 20 W              | <b>0522321SS</b> | 1          |           |                       |
| • 72 LED Blue - 20 W                   | <b>0522331SS</b> | 1          |           |                       |
| • 72 LED Red - 20 W                    | <b>0522341SS</b> | 1          |           |                       |
| • 72 LED Green - 20 W                  | <b>0522351SS</b> | 1          |           |                       |

**"MAXI-Clicker-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.**

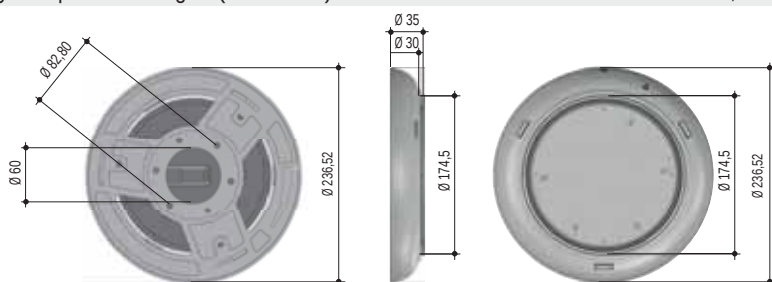
For built in PCB models there are 13 different lighting patterns.

For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                            | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - 30 W | <b>052236SS</b>  | 1          |           |                       |
| • 72 LED RGB - Center Control - 30 W   | <b>052237SS</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - 20 W | <b>0522361SS</b> | 1          |           |                       |
| • 72 LED RGB - Center Control - 20 W   | <b>0522371SS</b> | 1          |           |                       |

**"MAXI-Clicker" Underwater Light without Niche Mounting Kits.**

| Description                                 | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------|------------------|------------|-----------|-----------------------|
| Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| Polyester pool mounting kit (2" with nut)   | <b>05223003</b>  | 1          | 0,300     | 0,003                 |



Patented Bayonet "Click" System



052160E01



05223003

## Underwater Lights for Liner Pools - St. Steel

### "MIDI-Clicker-INOX"

#### Underwater Light without Niche, Single Color.

Designed for stairs, small pools and spas. **Frame** made of AISI 304 Stainless Steel complete with 72 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,0 m length and Liner Pool Wall Mounting Kit. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30°**

**clockwise turn. Just turn & click!** In order to remove it, push a screw driver on to the button gently

**and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR38 products available in the market. **This product is atented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, and 20% should be added to the price.**

"New Generation"

AISI 304/316



Product Video



| Description              | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED White - 10 W    | <b>052160ESS</b> | 1          |           |                       |
| • 72 LED Daylight - 10 W | <b>052161ESS</b> | 1          |           |                       |
| • 72 LED Turquoise - 9 W | <b>052162ESS</b> | 1          |           |                       |
| • 72 LED Blue - 9 W      | <b>052163ESS</b> | 1          |           |                       |
| • 72 LED Red - 9 W       | <b>052164ESS</b> | 1          |           |                       |
| • 72 LED Green - 9 W     | <b>052165ESS</b> | 1          |           |                       |



Patented Bayonet "Click" System

**"MIDI-Clicker-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.** For built in PCB models there are 13 different lighting patterns. For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                          | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control -9 W | <b>052170ESS</b> | 1          |           |                       |
| • 72 LED RGB - Central Control -9 W  | <b>052171ESS</b> | 1          |           |                       |



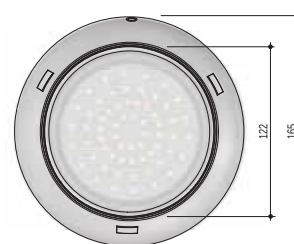
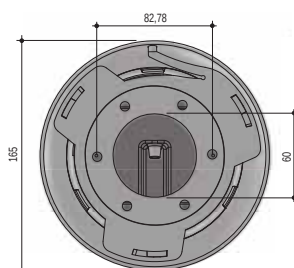
052160E01

#### "MIDI-Clicker" Underwater Light without Niche Mounting Kits.

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------|------------------|------------|-----------|-----------------------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003                 |
| • Polyester pool mounting kit (2" with nut)   | <b>052160E03</b> | 1          | 0,300     | 0,003                 |



052160E03



AISI 304/316

**"New Generation"**

## Underwater Lights for Liner Pools - AISI 304 St. Steel



Product Video



**"MINI-Clicker-INOX"**

**Underwater Light without Niche, Single Color.**

Designed for stairs, small pools and spas. **Frame** made of AISI 304 Stainless Steel complete with 72 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,0 m length and Liner Pool Wall Mounting Kit. 120° - IP68. Consists of wall bracket and the light w/frame. After fixing the bracket on pool wall by means of stainless steel screws, **it is very easy to fix the frame onto the bracket by a 30° clockwise turn.**

**Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30° counter clockwise. 2 Year Leakage Warranty.** The light, without the frame, can be used as a replacement bulb for LED conversion of all PAR38 products available in the market. **This product is patented. For 316 quality Stainless Steel option, 01 should be added to the end of product codes below, and 20% should be added to the price.**

| Description              | Code            | Pieces/box | Weight Kg | Volume m³ |
|--------------------------|-----------------|------------|-----------|-----------|
| • 36 LED White - 7 W     | <b>052180SS</b> | 1          |           |           |
| • 36 LED Daylight - 7 W  | <b>052181SS</b> | 1          |           |           |
| • 36 LED Turquoise - 4 W | <b>052182SS</b> | 1          |           |           |
| • 36 LED Blue - 4 W      | <b>052183SS</b> | 1          |           |           |
| • 36 LED Red - 4 W       | <b>052184SS</b> | 1          |           |           |
| • 36 LED Green - 4 W     | <b>052185SS</b> | 1          |           |           |



**"MINI-Clicker-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.** For built in PCB models there are 13 different lighting patterns. For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

| Description                        | Code            | Pieces/box | Weight Kg | Volume m³ |
|------------------------------------|-----------------|------------|-----------|-----------|
| • 36 LED RGB-Built-in Control -4 W | <b>052190SS</b> | 1          |           |           |
| • 36 LED RGB-Central Control -4 W  | <b>052191SS</b> | 1          |           |           |



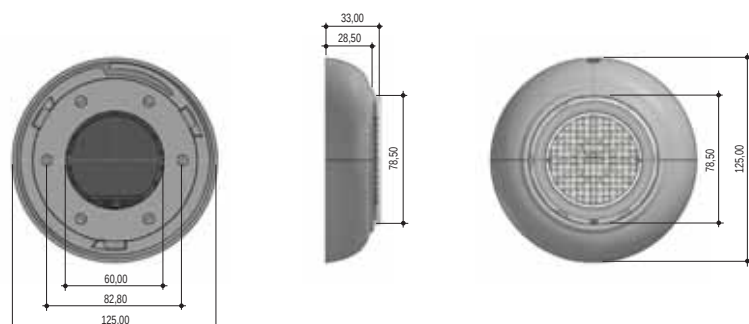
Patented Bayonet "Click" System

**"MINI-Clicker" Underwater Light without Niche Mounting Kits.**

| Description                                   | Code             | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------------|------------------|------------|-----------|-----------|
| • Liner panel pool mounting kit (2" with nut) | <b>052160E01</b> | 1          | 0,300     | 0,003     |
| • Polyester pool mounting kit (2" with nut)   | <b>052180E03</b> | 1          | 0,300     | 0,003     |



052160E01



052180E03



## Hang Over Underwater LED Light for Prefabricated Pools

### "Hang Over"

#### Underwater LED Light.

Hang Over Underwater LED Light specifically designed for DIY installation to above ground pools.

Complete with 50 W/12 V AC transformer, 5 + 2 meters cable. The product is ready to be connected to 220 V AC to start function. Easy DIY install with two screws to pool coping.

Optional elongation part (13,5 cm) to be used to install at deeper levels.

#### Technical Features:

- Special, elegant, stylish and patented design
- Easy snap mechanism by design
- In IP68 protection, class III
- Ability to direct connect 220-230 V / 50-60 Hz network line



"New Generation"



### "Hang Over" Underwater LED Light. Single Color.

| Description               | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------|---------|------------|-----------|-----------------------|
| • 72 LED White - 16 W     | 0511611 | 1          |           |                       |
| • 72 LED Daylight - 16 W  | 0511612 | 1          |           |                       |
| • 72 LED Turquoise - 13 W | 0511613 | 1          |           |                       |
| • 72 LED Blue - 13 W      | 0511614 | 1          |           |                       |
| • 72 LED Red - 13 W       | 0511615 | 1          |           |                       |
| • 72 LED Green - 13 W     | 0511616 | 1          |           |                       |

### "Hang Over" Underwater LED Light. RGB Changing Color

| Description                          | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|---------|------------|-----------|-----------------------|
| • 72 LED RGB-Built-in Control - 13 W | 0511711 | 1          |           |                       |



Easy DIY Installation



50W/12VAC Transformer





051111



## Underwater Lights for Concrete Pools - ABS

**“Standard 95”**

**Underwater Lights.** Frame made of ABS plastic, niche in white plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche.

| Description                             | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-------------------|------------|-----------|-----------------------|
| • Complete light, with 300 W/12 V PAR56 | <b>051111</b>     | 1          | 2,160     | 0,016                 |
| Complete light, with 20 W-63 SMD LED    | <b>051111LS</b>   | 1          |           |                       |
| • 051111, without cable                 | <b>051111C</b>    | 1          |           |                       |
| • 051111LS, without cable               | <b>051111LSC</b>  | 1          |           |                       |
| • 051111, without niche and cable       | <b>051111NC</b>   | 1          |           |                       |
| • 051111LS, without niche and cable     | <b>051111LSNC</b> | 1          |           |                       |
| • Niche                                 | <b>05111110S</b>  | 1          |           |                       |

**“Standard 2002” Underwater Lights.** Frame made of ABS plastic, niche in white plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche.

| Description                             | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-------------------|------------|-----------|-----------------------|
| • Complete light, with 300 W/12 V PAR56 | <b>051114</b>     | 1          | 2,160     | 0,016                 |
| • Complete light, with 20 W-63 SMD LED  | <b>051114LS</b>   | 1          |           |                       |
| • 051114, with locking                  | <b>051115</b>     | 1          |           |                       |
| • 051114LS, with locking                | <b>051115LS</b>   | 1          |           |                       |
| • 051114, without cable                 | <b>051114C</b>    | 1          |           |                       |
| • 051114LS, without cable               | <b>051114LSC</b>  | 1          |           |                       |
| • 051114, without cable and niche       | <b>051114NC</b>   | 1          |           |                       |
| • 051114LS, without cable and niche     | <b>051114LSNC</b> | 1          |           |                       |
| • Niche                                 | <b>05111410S</b>  | 1          |           |                       |
| • Modular niche extension               | <b>0511411</b>    | 1          |           |                       |

**“Standard 2004” Underwater Lights.** Frame made of ABS plastic, niche in white plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche.

| Description                             | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-------------------|------------|-----------|-----------------------|
| • Complete light, with 300 W/12 V PAR56 | <b>051118</b>     | 1          |           |                       |
| • Complete light, with 20 W-63 SMD LED  | <b>051118LS</b>   | 1          |           |                       |
| • 051118, with locking                  | <b>051119</b>     | 1          |           |                       |
| • 051118LS, with locking                | <b>051119LS</b>   | 1          |           |                       |
| • 051118, without cable                 | <b>051118C</b>    | 1          |           |                       |
| • 051118LS, without cable               | <b>051118LSC</b>  | 1          |           |                       |
| • 051118, without cable and niche       | <b>051118NC</b>   | 1          |           |                       |
| • 051118LS, without cable and niche     | <b>051118LSNC</b> | 1          |           |                       |
| • Niche                                 | <b>05111810S</b>  | 1          |           |                       |
| • Modular niche extension               | <b>0511411</b>    | 1          |           |                       |



051111LS



051114



051114LS



051119



0511411

## Underwater Lights for Concrete Pools - ABS



CE

051112LS

### “Standard 2006” Underwater Lights.

Frame made of ABS plastic, niche in white plastic.

Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche. Light is fixed to the niche with 2 front screws.

| Description                             | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-----------------|------------|-----------|-----------------------|
| • Complete Light, with 300 W/12 V PAR56 | <b>051112</b>   | 1          | 2,800     | 0,016                 |
| • Complete Light, with 20 W-63 SMD LED  | <b>051112LS</b> | 1          | 2,800     | 0,016                 |



05112

### “Mini 2008” Underwater Lights.

For concrete pools. Frame and niche made of ABS plastic. Complete with halogen or power led bulb, 2 m cable and special tightening tool.

| Description                      | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|-----------------|------------|-----------|-----------------------|
| • 50 W/12 V                      | <b>05112</b>    | 1          |           |                       |
| • 7 W/12 V with white SMD 36 LED | <b>05112LS</b>  | 1          |           |                       |
| • Niche                          | <b>0511212S</b> | 1          |           |                       |



05112SLS



05112T

### “Mini 2001” Underwater Lights.

Heat resistant plastic body, bottom outlet. Complete with 2 m. cable. 50 W/12 V bulb or power LED.

| Description                         | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------|-----------------|------------|-----------|-----------------------|
| • Slip type body with plastic frame | <b>05112S</b>   | 4          | 2,000     | 0,007                 |
| • 05112S, with 7 W/12 V SMD 36 LED  | <b>05112SLS</b> | 4          | 2,500     | 0,007                 |
| • 2" threaded with plastic frame    | <b>05112T</b>   | 4          | 2,100     | 0,007                 |
| • 05112T, with 7 W/12 V SMD 36 LED  | <b>05112TLS</b> | 4          | 2,500     | 0,007                 |

### Housing for Mini 2001 for Concrete Pools.

Complete with the special "no-leak" cable outlet.



| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
|             | <b>04160A</b> | 20         | 10,420    | 0,060                 |

### “No-leak” adaptor for cables.

Can be adhered to the back of the GEMAS Housing for Concrete Pools, or at the mouth of Ø 63 mm 10 atm PVC pipes. With cable gland seal.



| Description | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------------|------------|-----------|-----------------------|
|             | <b>0511200101S</b> | 1          |           |                       |



## Underwater Lights for Concrete Pools - S.S.

### “Standard 2002” Underwater Lights.

AISI 304 grade Stainless Steel Frame. Frame made of AISI 304 grade stainless steel, niche in white plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche.

| Description                       | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------|-------------------|----------------|--------------|--------------------------|
| • Complete Light                  | <b>051114SS</b>   | 1              | 2,790        | 0,016                    |
| • Complete Light, SMD LED version | <b>051114SSLS</b> | 1              |              |                          |



051114SSLS

### “Standard 95” Underwater Lights. AISI 304 Grade Stainless Steel Plated Frame.

Frame made of AISI 304 grade stainless steel plated ABS plastic, niche in white plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche.

| Description                       | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------|-------------------|----------------|--------------|--------------------------|
| • Complete Light                  | <b>051113SS</b>   | 1              | 2,646        | 0,016                    |
| • Complete Light, SMD LED version | <b>051113SSLS</b> | 1              |              |                          |



### Stainless Steel Frame For Underwater Lights.

Made of AISI 304 grade stainless steel. Can easily be adapted to existing ABS frames.

| Description                        | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|-------------------|----------------|--------------|--------------------------|
| • For “Flat” Light                 | <b>05111608</b>   | 1              |              |                          |
| • For “Standard 2002” Light        | <b>05111408</b>   | 1              |              |                          |
| • For “Mini 2008” Light            | <b>0511212508</b> | 1              |              |                          |
| • “Standard 2002” For Locked Light | <b>05111508</b>   | 1              |              |                          |
| • For “Standard 95” Light          | <b>05111108</b>   | 1              |              |                          |



05111608

### “Mini 2008” Underwater Lights.

Concrete pools, the frame is made of AISI 304 quality stainless steel and the housing is made of ABS plastic. Complete with halogen bulb or SMD LED bulb, 2 m cable and special clamping device.

| Description                  | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|-----------------|----------------|--------------|--------------------------|
| • Complete Light 50 W / 12 V | <b>05112C</b>   | 4              | 2,300        | 0,007                    |
| • Ditto, 7 W/12 V SMD 36 LED | <b>05112LSC</b> | 4              | 2,300        | 0,007                    |



05112C

### “Mini 2001” Underwater Lights.

Heat resistant plastic body, bottom outlet. Complete with 2 m. cable. 50 W/12 V bulb or 7 W SMD LED bulb.

| Description                           | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|------------------|----------------|--------------|--------------------------|
| • Slip type body with st. steel frame | <b>05112SC</b>   | 4              | 2,300        | 0,007                    |
| • Ditto, with white 36 LED            | <b>05112SCLS</b> | 4              |              |                          |
| • 2” threaded with st. steel frame    | <b>05112TC</b>   | 4              | 2,400        | 0,007                    |
| • Ditto, with white 36 LED            | <b>05112TCLS</b> | 4              |              |                          |



05112SC

## Underwater Lights for Liner Pools



052111B

### “Standard 95” Underwater Lights.

Frame made of ABS plastic, brass screw fittings, niche in white plastic.

Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche. Complete with flange, bolts and gaskets.

| Description                            | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|--------------------|------------|-----------|-----------------------|
| • Complete light with 300 W/12 V PAR56 | <b>052111B</b>     | 1          | 2,450     | 0,016                 |
| • Complete light with 20 W-63 SMD LED  | <b>052111BLS</b>   | 1          | 2,450     | 0,016                 |
| • 052111B, without cable               | <b>052111BC</b>    | 1          | 2,300     | 0,016                 |
| • 052111BLS, without cable             | <b>052111BLSC</b>  | 1          | 2,300     | 0,016                 |
| • 052111B, without niche and cable     | <b>052111BNC</b>   | 1          | 2,100     | 0,016                 |
| • 052111BLS, without niche and cable   | <b>052111BLSNC</b> | 1          | 2,100     | 0,016                 |
| • Niche                                | <b>05211101BSP</b> | 1          |           | 0,016                 |



052114B

### “Standard 2002” Underwater Lights.

Frame made of ABS plastic, brass screw fittings, niche in white plastic.

Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche. Complete with flange, bolts and gaskets.

| Description                             | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|--------------------|------------|-----------|-----------------------|
| • Complete light, with 300W/12V PAR56   | <b>052114B</b>     | 1          | 2,450     | 0,016                 |
| • Complete light, with 20W – 63 SMD LED | <b>052114BLS</b>   | 1          | 2,450     | 0,016                 |
| • 052114B, with locking mechanism       | <b>052115B</b>     | 1          | 2,700     | 0,016                 |
| • 052114BLS, with locking mechanism     | <b>052115BLS</b>   | 1          | 2,700     | 0,016                 |
| • 052114B, without cable                | <b>052114BC</b>    | 1          | 2,300     | 0,016                 |
| • 052114BLS, without cable              | <b>052114BLSC</b>  | 1          | 2,300     | 0,016                 |
| • 052114B, without niche and cable      | <b>052114BNC</b>   | 1          | 2,100     | 0,016                 |
| • 052114BLS, without niche and cable    | <b>052114BLSNC</b> | 1          | 2,100     | 0,016                 |
| • Niche                                 | <b>05211410BSP</b> | 1          |           | 0,016                 |



052118B

### “Standard 2004” Underwater Lights.

Frame made of ABS plastic, brass screw fittings, niche in white plastic.

Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche. Complete with flange, bolts and gaskets.

| Description                             | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|--------------------|------------|-----------|-----------------------|
| • Complete light, with 300W/12V PAR56   | <b>052118B</b>     | 1          | 2,450     | 0,016                 |
| • Complete light, with 20W – 63 SMD LED | <b>052118BLS</b>   | 1          | 2,450     | 0,016                 |
| • 052118B, with locking mechanism       | <b>052119B</b>     | 1          | 2,700     | 0,016                 |
| • 052118BLS, with locking mechanism     | <b>052119BLS</b>   | 1          | 2,700     | 0,016                 |
| • 052118B, without cable                | <b>052118BC</b>    | 1          | 2,300     | 0,016                 |
| • 052118BLS, without cable              | <b>052118BLSC</b>  | 1          | 2,300     | 0,016                 |
| • 052118B, without niche and cable      | <b>052118BNC</b>   | 1          | 2,100     | 0,016                 |
| • 052118BLS, without niche and cable    | <b>052118BLSNC</b> | 1          | 2,100     | 0,016                 |
| • Niche                                 | <b>05211810BSP</b> | 1          |           | 0,016                 |





## Underwater Lights for Liner Pools

### “Standard 2006” Underwater Lights.

Frame, niche and niche fittings made of ABS plastic. Complete with either 300 W/12 V PAR56 bulb with 2 x 4 mm cable of 2,5 m length or PAR56 SMD LED bulb with 2 x 0,75 mm cable of 1,5 m length. Choice of “Side” or “Bottom” cable outlet on the niche. Complete with flange, bolts and gaskets. Light is fixed to the niche with 2 front screws.

**Specially designed for panel type liner pools.** Complete with flange, bolts and gaskets.

| Description                    | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------|-----------------|----------------|--------------|--------------------------|
| • Complete Light               | <b>052112</b>   | 1              | 2,800        | 0,016                    |
| • Complete Light, with SMD LED | <b>052112LS</b> | 1              |              |                          |



052112

### “Mini 2008” Underwater Light for Concrete Pools.

For liner pools. Frame, niche and flange made of ABS plastic. Complete with halogen bulb or power LED, 2 m. cable and special locking tool.

| Description                   | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------|-----------------|----------------|--------------|--------------------------|
| • 50 W / 12 V                 | <b>05212B</b>   | 1              |              |                          |
| • 7 W / 12 V White SMD 36 LED | <b>05212BLS</b> | 1              |              |                          |
| • Niche                       | <b>0521212S</b> | 1              |              |                          |



05212B

### “Mini 2001” Underwater Light.

Heat resistant plastic body, bottom cable outlet, 2 m silicon cable. 50 W / 12 V.

| Description                       | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------|-----------------|----------------|--------------|--------------------------|
| • Slip body, plastic frame        | <b>05112S</b>   | 4              | 2,000        | 0,007                    |
| • Ditto, White SMD 36 LED         | <b>05112SLS</b> | 4              |              |                          |
| • 2" threaded body, plastic frame | <b>05112T</b>   | 4              | 2,100        | 0,007                    |
| • Ditto, White SMD 36 LED         | <b>05112TLS</b> | 4              |              |                          |



05112S

### Housing for Mini 2001 for Liner Pools.

For fixing the light to the pool wall. Complete with the "no-leak" cable adaptor, flange, screws and gaskets.

| Description             | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------|----------------|----------------|--------------|--------------------------|
| • Housing               | <b>04260A</b>  | 20             | 11,800       | 0,060                    |
| • Ditto, brass cavities | <b>04260AB</b> | 20             | 11,800       | 0,060                    |



### “Standart 2002” Underwater Light Colored Frame

Made of ABS. Different Color options can be adapted to all Standart 2002 Models. For Frame with “Locking Mechanism” Please the sixth digit of the code from “4” to “5”. Price only includes the frame, not the complete light.

| Description             | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------|-------------------|----------------|--------------|--------------------------|
| • Anthracite - RAL 7016 | <b>051114011A</b> | 1              |              |                          |
| • Beige - RAL 1015      | <b>051114011B</b> | 1              |              |                          |
| • Gray - RAL 7004       | <b>051114011G</b> | 1              |              |                          |



RAL 7016

RAL 1015

RAL 7004

## Technical Table For PAR56 LED Bulbs - Single Color

| Code            | Description                                            | LED Type           | # of LED   | Voltage (V) | AC V Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle | Case                 |
|-----------------|--------------------------------------------------------|--------------------|------------|-------------|----------------|--------------------------------------------|-------------|----------------------|
| <b>0541101</b>  | <b>Slim 252 SMD LED - White</b>                        | <b>SMD</b>         | <b>252</b> | <b>12</b>   | <b>50</b>      | <b>3536</b>                                | <b>120°</b> | <b>Polycarbonate</b> |
| 0541102         | Slim 252 SMD LED - Daylight                            | SMD                | 252        | 12          | 50             | 3536                                       | 120°        | Polycarbonate        |
| 0541103         | Slim 252 SMD LED - Turquoise                           | SMD                | 252        | 12          | 36             | 1011                                       | 120°        | Polycarbonate        |
| 0541104         | Slim 252 SMD LED - Blue                                | SMD                | 252        | 12          | 36             | 1011                                       | 120°        | Polycarbonate        |
| 0541105         | Slim 252 SMD LED - Red                                 | SMD                | 252        | 12          | 36             | 1011                                       | 120°        | Polycarbonate        |
| 0541106         | Slim 252 SMD LED - Green                               | SMD                | 252        | 12          | 36             | 1011                                       | 120°        | Polycarbonate        |
| <b>0541111</b>  | <b>Slim 81 SMD LED - White</b>                         | <b>SMD</b>         | <b>81</b>  | <b>12</b>   | <b>35</b>      | <b>2739</b>                                | <b>120°</b> | <b>Polycarbonate</b> |
| 0541112         | Slim 81 SMD LED - Daylight                             | SMD                | 81         | 12          | 35             | 2739                                       | 120°        | Polycarbonate        |
| 0541113         | Slim 81 SMD LED - Turquoise                            | SMD                | 81         | 12          | 30             | 1241                                       | 120°        | Polycarbonate        |
| 0541114         | Slim 81 SMD LED - Blue                                 | SMD                | 81         | 12          | 30             | 1241                                       | 120°        | Polycarbonate        |
| 0541115         | Slim 81 SMD LED - Red                                  | SMD                | 81         | 12          | 30             | 1241                                       | 120°        | Polycarbonate        |
| 0541116         | Slim 81 SMD LED - Green                                | SMD                | 81         | 12          | 30             | 1241                                       | 120°        | Polycarbonate        |
| <b>051130ER</b> | <b>ECOSlim 72 SMD LED - White</b>                      | <b>SMD</b>         | <b>72</b>  | <b>12</b>   | <b>24</b>      | <b>1614</b>                                | <b>120°</b> | <b>Polycarbonate</b> |
| 051131ER        | ECOSlim 72 SMD LED - Daylight                          | SMD                | 72         | 12          | 24             | 1614                                       | 120°        | Polycarbonate        |
| 051132ER        | ECOSlim 72 SMD LED - Turquoise                         | SMD                | 72         | 12          | 20             | 671                                        | 120°        | Polycarbonate        |
| 051133ER        | ECOSlim 72 SMD LED - Blue                              | SMD                | 72         | 12          | 20             | 671                                        | 120°        | Polycarbonate        |
| 051134ER        | ECOSlim 72 SMD LED - Red                               | SMD                | 72         | 12          | 20             | 671                                        | 120°        | Polycarbonate        |
| 051135ER        | ECOSlim 72 SMD LED - Green                             | SMD                | 72         | 12          | 20             | 671                                        | 120°        | Polycarbonate        |
| <b>051160E</b>  | <b>MIDI-Clicker 72 SMD LED - White</b>                 | <b>SMD</b>         | <b>72</b>  | <b>12</b>   | <b>10</b>      | <b>562</b>                                 | <b>120°</b> | <b>Polycarbonate</b> |
| 051161E         | MIDI-Clicker 72 SMD LED - Daylight                     | SMD                | 72         | 12          | 10             | 562                                        | 120°        | Polycarbonate        |
| 051162E         | MIDI-Clicker 72 SMD LED - Turquoise                    | SMD                | 72         | 12          | 9              | 181                                        | 120°        | Polycarbonate        |
| 051163E         | MIDI-Clicker 72 SMD LED - Blue                         | SMD                | 72         | 12          | 9              | 181                                        | 120°        | Polycarbonate        |
| 051164E         | MIDI-Clicker 72 SMD LED - Red                          | SMD                | 72         | 12          | 9              | 182                                        | 120°        | Polycarbonate        |
| 051165E         | MIDI-Clicker 72 SMD LED - Green                        | SMD                | 72         | 12          | 9              | 183                                        | 120°        | Polycarbonate        |
| <b>051180</b>   | <b>MINI-Clicker 36 SMD LED - White</b>                 | <b>SMD</b>         | <b>36</b>  | <b>12</b>   | <b>7</b>       | <b>550</b>                                 | <b>120°</b> | <b>Polycarbonate</b> |
| 051181          | MINI-Clicker 36 SMD LED - Daylight                     | SMD                | 36         | 12          | 7              | 550                                        | 120°        | Polycarbonate        |
| 051182          | MINI-Clicker 36 SMD LED - Turquoise                    | SMD                | 36         | 12          | 4              | 92                                         | 120°        | Polycarbonate        |
| 051183          | MINI-Clicker 36 SMD LED - Blue                         | SMD                | 36         | 12          | 4              | 92                                         | 120°        | Polycarbonate        |
| 051184          | MINI-Clicker 36 SMD LED - Red                          | SMD                | 36         | 12          | 4              | 92                                         | 120°        | Polycarbonate        |
| 051185          | MINI-Clicker 36 SMD LED - Green                        | SMD                | 36         | 12          | 4              | 92                                         | 120°        | Polycarbonate        |
| <b>0531101</b>  | <b>Single color PAR56 SMD with 63 LED - White</b>      | <b>SMD</b>         | <b>63</b>  | <b>12</b>   | <b>20</b>      | <b>1404</b>                                | <b>120°</b> | <b>Polycarbonate</b> |
| 0531102         | Single color PAR56 SMD with 63 LED - Daylight          | SMD                | 63         | 12          | 20             | 1404                                       | 120°        | Polycarbonate        |
| 0531103         | Single color PAR56 SMD with 63 LED - Turquoise         | SMD                | 63         | 12          | 16             | 550                                        | 120°        | Polycarbonate        |
| 0531104         | Single color PAR56 SMD with 63 LED - Blue              | SMD                | 63         | 12          | 16             | 550                                        | 120°        | Polycarbonate        |
| 0531105         | Single color PAR56 SMD with 63 LED - Red               | SMD                | 63         | 12          | 16             | 550                                        | 120°        | Polycarbonate        |
| 0531106         | Single color PAR56 SMD with 63 LED - Green             | SMD                | 63         | 12          | 16             | 550                                        | 120°        | Polycarbonate        |
| <b>0531111</b>  | <b>Single color PAR56 SMD with 252 LED - White</b>     | <b>SMD 2835</b>    | <b>252</b> | <b>12</b>   | <b>40</b>      | <b>3059</b>                                | <b>85°</b>  | <b>Polycarbonate</b> |
| 0531112         | Single color PAR56 SMD with 252 LED - Daylight         | SMD 2835           | 252        | 12          | 40             | 3059                                       | 85°         | Polycarbonate        |
| 0531113         | Single color PAR56 SMD with 252 LED - Turquoise        | SMD 2835           | 252        | 12          | 31             | 900                                        | 80°         | Polycarbonate        |
| 0531114         | Single color PAR56 SMD with 252 LED - Blue             | SMD 2835           | 252        | 12          | 31             | 900                                        | 80°         | Polycarbonate        |
| 0531115         | Single color PAR56 SMD with 252 LED - Red              | SMD 2835           | 252        | 12          | 31             | 900                                        | 80°         | Polycarbonate        |
| 0531116         | Single color PAR56 SMD with 252 LED - Green            | SMD 2835           | 252        | 12          | 31             | 900                                        | 80°         | Polycarbonate        |
| <b>0532311</b>  | <b>Single color PAR56 with 9 OSRAM Power LED-White</b> | <b>OSRAM POWER</b> | <b>9</b>   | <b>12</b>   | <b>20</b>      | <b>2409</b>                                | <b>80°</b>  | <b>Polycarbonate</b> |
| 0532312         | Single color PAR56 with 9 OSRAM Power LED-Daylight     | OSRAM POWER        | 9          | 12          | 20             | 2409                                       | 80°         | Polycarbonate        |
| 0532313         | Single color PAR56 with 9 OSRAM Power LED-Turquoise    | OSRAM POWER        | 9          | 12          | 23             | 893                                        | 80°         | Polycarbonate        |
| 0532314         | Single color PAR56 with 9 OSRAM Power LED-Blue         | OSRAM POWER        | 9          | 12          | 23             | 893                                        | 80°         | Polycarbonate        |
| 0532315         | Single color PAR56 with 9 OSRAM Power LED-Red          | OSRAM POWER        | 9          | 12          | 23             | 893                                        | 80°         | Polycarbonate        |
| 0532316         | Single color PAR56 with 9 OSRAM Power LED-Green        | OSRAM POWER        | 9          | 12          | 23             | 893                                        | 80°         | Polycarbonate        |
| <b>0532111</b>  | <b>Single color PAR56 with 18 Power LED - White</b>    | <b>POWER</b>       | <b>18</b>  | <b>12</b>   | <b>24</b>      | <b>1690</b>                                | <b>140°</b> | <b>Polycarbonate</b> |
| 0532112         | Single color PAR56 with 18 Power LED - Daylight        | POWER              | 18         | 12          | 24             | 1690                                       | 140°        | Polycarbonate        |
| 0532113         | Single color PAR56 with 18 Power LED - Turquoise       | POWER              | 18         | 12          | 24             | 848                                        | 140°        | Polycarbonate        |
| 0532114         | Single color PAR56 with 18 Power LED - Blue            | POWER              | 18         | 12          | 24             | 848                                        | 140°        | Polycarbonate        |
| 0532115         | Single color PAR56 with 18 Power LED - Red             | POWER              | 18         | 12          | 24             | 848                                        | 140°        | Polycarbonate        |
| 0532116         | Single color PAR56 with 18 Power LED - Green           | POWER              | 18         | 12          | 24             | 848                                        | 140°        | Polycarbonate        |
| <b>05321111</b> | <b>Single color PAR56 with 27 Power LED - White</b>    | <b>POWER</b>       | <b>27</b>  | <b>12</b>   | <b>36</b>      | <b>1038</b>                                | <b>140°</b> | <b>Polycarbonate</b> |
| 05321121        | Single color PAR56 with 27 Power LED - Daylight        | POWER              | 27         | 12          | 36             | 1038                                       | 140°        | Polycarbonate        |
| 05321131        | Single color PAR56 with 27 Power LED - Turquoise       | POWER              | 27         | 12          | 36             | 1038                                       | 140°        | Polycarbonate        |

## Technical Table For PAR56 LED Bulbs - Single Color

| Code            | Description                                         | LED Type     | # of LED  | Voltage (V) | AC V Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle | Case             |
|-----------------|-----------------------------------------------------|--------------|-----------|-------------|----------------|--------------------------------------------|-------------|------------------|
| 05321141        | Single color PAR56 with 27 Power LED - Blue         | POWER        | 27        | 12          | 36             | 1038                                       | 140°        | Polycarbonate    |
| 05321151        | Single color PAR56 with 27 Power LED - Red          | POWER        | 27        | 12          | 36             | 1038                                       | 140°        | Polycarbonate    |
| 05321161        | Single color PAR56 with 27 Power LED - Green        | POWER        | 27        | 12          | 36             | 1038                                       | 140°        | Polycarbonate    |
| <b>0532211</b>  | <b>Single color PAR56 with 18 Power LED - White</b> | <b>POWER</b> | <b>18</b> | <b>24</b>   | <b>46</b>      |                                            | <b>140°</b> | <b>Aluminium</b> |
| 0532212         | Single color PAR56 with 18 Power LED - Daylight     | POWER        | 18        | 24          | 46             |                                            | 140°        | Aluminium        |
| 0532213         | Single color PAR56 with 18 Power LED - Turquoise    | POWER        | 18        | 24          | 46             |                                            | 140°        | Aluminium        |
| 0532214         | Single color PAR56 with 18 Power LED - Blue         | POWER        | 18        | 24          | 46             |                                            | 140°        | Aluminium        |
| 0532215         | Single color PAR56 with 18 Power LED - Red          | POWER        | 18        | 24          | 46             |                                            | 140°        | Aluminium        |
| 0532216         | Single color PAR56 with 18 Power LED - Green        | POWER        | 18        | 24          | 46             |                                            | 140°        | Aluminium        |
| <b>05322111</b> | <b>Single color PAR56 with 27 Power LED - White</b> | <b>POWER</b> | <b>27</b> | <b>12</b>   | <b>70</b>      | <b>4225</b>                                | <b>140°</b> | <b>Aluminium</b> |
| 05322121        | Single color PAR56 with 27 Power LED - Daylight     | POWER        | 27        | 12          | 70             | 4225                                       | 140°        | Aluminium        |
| 05322131        | Single color PAR56 with 27 Power LED - Turquoise    | POWER        | 27        | 12          | 70             | 4225                                       | 140°        | Aluminium        |
| 05322141        | Single color PAR56 with 27 Power LED - Blue         | POWER        | 27        | 12          | 70             | 4225                                       | 140°        | Aluminium        |
| 05322151        | Single color PAR56 with 27 Power LED - Red          | POWER        | 27        | 12          | 70             | 4225                                       | 140°        | Aluminium        |
| 05322161        | Single color PAR56 with 27 Power LED - Green        | POWER        | 27        | 12          | 70             | 4225                                       | 140°        | Aluminium        |

## Technical Table For PAR56 LED Bulbs - RGB

| Code           | Description                                                                 | LED Type     | # of LED  | Voltage (V) | AC V Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle | Case             |
|----------------|-----------------------------------------------------------------------------|--------------|-----------|-------------|----------------|--------------------------------------------|-------------|------------------|
| 05115301       | Slim 252 SMD LED Built-in Control                                           | SMD          | 252       | 12          | 36             | 1011                                       | 120°        | Polycarbonate    |
| 05115501       | Slim 252 SMD LED Centrally Control                                          | SMD          | 252       | 12          | 36             | 1011                                       | 120°        | Polycarbonate    |
| 0541201        | Slim 90 SMD LED Built-in Control                                            | SMD          | 90        | 12          | 36             | 1081                                       | 120°        | Polycarbonate    |
| 0541202        | Slim 90 SMD LED Centrally Control                                           | SMD          | 90        | 12          | 36             | 1081                                       | 120°        | Polycarbonate    |
| 05115601       | Slim 81 SMD LED Built-in Control                                            | SMD          | 81        | 12          | 30             | 1241                                       | 120°        | Polycarbonate    |
| 05115701       | Slim 81 SMD LED Centrally Control                                           | SMD          | 81        | 12          | 30             | 1241                                       | 120°        | Polycarbonate    |
| 051150ER       | ECOSlim 72 SMD LED Bulbs with Built-in Control                              | SMD          | 72        | 12          | 20             | 671                                        | 120°        | Polycarbonate    |
| 051151ER       | ECOSlim 72 SMD LED Bulbs with Central Control                               | SMD          | 72        | 12          | 20             | 671                                        | 120°        | Polycarbonate    |
| 051236         | MAXI-Clicker 72 SMD LED Bulbs with Built-in Control                         | SMD          | 72        | 12          | 30             | 774                                        | 120°        | Polycarbonate    |
| 051237         | MAXI-Clicker 72 SMD LED Bulbs with Central Control                          | SMD          | 72        | 12          | 30             | 774                                        | 120°        | Polycarbonate    |
| 0512361        | MAXI-Clicker 72 SMD LED Bulbs with Built-in Control                         | SMD          | 72        | 12          | 20             | 671                                        | 120°        | Polycarbonate    |
| 0512371        | MAXI-Clicker 72 SMD LED Bulbs with Central Control                          | SMD          | 72        | 12          | 20             | 671                                        | 120°        | Polycarbonate    |
| 0532523        | MIDI-Clicker 72 SMD LED Bulbs with Built-in Control                         | SMD          | 72        | 12          | 9              | 184                                        | 120°        | Polycarbonate    |
| 0532524        | MIDI-Clicker 72 SMD LED Bulbs with Central Control                          | SMD          | 72        | 12          | 9              | 185                                        | 120°        | Polycarbonate    |
| 0532631        | MINI-Clicker 36 SMD LED Bulbs with Built-in Control                         | SMD          | 36        | 12          | 4              | 92                                         | 120°        | Polycarbonate    |
| 0532622        | MINI-Clicker 36 SMD LED Bulbs with Central Control                          | SMD          | 36        | 12          | 4              | 92                                         | 120°        | Polycarbonate    |
| 0531201        | RGB PAR56 SMD with 54 LED - Built-in Control System                         | SMD          | 54        | 12          | 16             | 550                                        | 120°        | Polycarbonate    |
| 0531202        | RGB PAR56 SMD with 54 LED - Central Control System                          | SMD          | 54        | 12          | 16             | 550                                        | 120°        | Polycarbonate    |
| 0531211        | RGB PAR56 SMD with 252 LED - Built-in Control System                        | SMD          | 252       | 12          | 31             | 900                                        | 120°        | Polycarbonate    |
| 0531212        | RGB PAR56 SMD with 252 LED - Central Control System                         | SMD          | 252       | 12          | 31             | 900                                        | 120°        | Polycarbonate    |
| 0532321        | PAR56 9 OSRAM Power LED Centrally Control                                   | OSRAM POWER  | 9         | 12          | 23             | 893                                        | 80°         | Polycarbonate    |
| 0532322        | PAR56 9 OSRAM Power LED Built-in Control                                    | OSRAM POWER  | 9         | 12          | 23             | 893                                        | 80°         | Polycarbonate    |
| 0532121        | PAR56 18 Power LED Bulbs with Built-in Control                              | POWER        | 18        | 12          | 24             | 848                                        | 140°        | Polycarbonate    |
| 0532721        | PAR56 18 Power LED Bulbs with Central Control                               | POWER        | 18        | 12          | 24             | 848                                        | 140°        | Polycarbonate    |
| <b>0532221</b> | <b>PAR56 with 18 Power LED - Built-in Control System with Alu. Body</b>     | <b>POWER</b> | <b>18</b> | <b>12</b>   | <b>46</b>      | <b>2226</b>                                | <b>140°</b> | <b>Aluminium</b> |
| <b>0532222</b> | <b>PAR56 with 18 Power LED - Central Control System with Alu. Body</b>      | <b>POWER</b> | <b>18</b> | <b>12</b>   | <b>46</b>      | <b>2226</b>                                | <b>140°</b> | <b>Aluminium</b> |
| 0532122        | PAR56 27 Power LED Bulbs with Built-in Control                              | POWER        | 27        | 12          | 36             | 1038                                       | 140°        | Polycarbonate    |
| 0532722        | PAR56 27 Power LED Bulbs with Central Control                               | POWER        | 27        | 12          | 36             | 1038                                       | 140°        | Polycarbonate    |
| 0532123        | RGBW PAR56 30 Power LED Built-in Control                                    | POWER        | 30        | 12          | 31             | 1779                                       | 120°        | Polycarbonate    |
| <b>0532223</b> | <b>RGB PAR56 with 27 Power LED - Built-in Control System with Alu. Body</b> | <b>POWER</b> | <b>27</b> | <b>12</b>   | <b>70</b>      | <b>4225</b>                                | <b>140°</b> | <b>Aluminium</b> |
| <b>0532224</b> | <b>RGB PAR56 with 27 Power LED - Central Control System with Alu. Body</b>  | <b>POWER</b> | <b>27</b> | <b>12</b>   | <b>70</b>      | <b>4225</b>                                | <b>140°</b> | <b>Aluminium</b> |
| 0532226        | RGBW PAR56 with 50 Power LED - Built-in Control System                      | POWER        | 30        | 12          | 50             | 2525                                       | 120°        | Polycarbonate    |

## SlimLED Bulbs for PAR56 Replacement - Single Color



**"New Generation"**

120° Light Spectrum



### "SlimLED" Underwater Light Bulb - Replacement - Single Color.

Embedded into special transparent silicone, polycarbonate light body with 252 LED, 2 x 1,5 cable of 2,5 m length 120° IP68. Complete with adapter set.

**2-year leakage warranty.** Can be used for the replacement of any existing PAR56 bulb on the market. 50.000 hours of life. **Max. operating temperature 30°.**

| "SLIMLED" BULBS |          |                   |                                          |             |
|-----------------|----------|-------------------|------------------------------------------|-------------|
| Color           | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| White           | 252      | 50                | 3536                                     | 120°        |
| Daylight        | 252      | 50                | 3536                                     | 120°        |
| Turquoise       | 252      | 36                | 1011                                     | 120°        |
| Blue            | 252      | 36                | 1011                                     | 120°        |
| Red             | 252      | 36                | 1011                                     | 120°        |
| Green           | 252      | 36                | 1011                                     | 120°        |

| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • White     | 0541101 | 1          |           |                       |
| • Daylight  | 0541102 | 1          |           |                       |
| • Turquoise | 0541103 | 1          |           |                       |
| • Blue      | 0541104 | 1          |           |                       |
| • Red       | 0541105 | 1          |           |                       |
| • Green     | 0541106 | 1          |           |                       |



### "SlimLED" Underwater Light Bulb - Replacement - Single Color.

Embedded into special transparent silicone, polycarbonate light body with 81 LED, 2 x 1,5 cable of 2,5 m length 120° IP68. Complete with adapter set. **2-year leakage warranty.** Can be used for the replacement of any existing PAR56 bulb on the market. 50.000 hours of life. **Max. operating temperature 30°.**

| "SLIMLED" BULBS |          |                   |                                          |             |
|-----------------|----------|-------------------|------------------------------------------|-------------|
| Color           | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| White           | 81       | 35                | 2739                                     | 120°        |
| Daylight        | 81       | 35                | 2739                                     | 120°        |
| Turquoise       | 81       | 30                | 1241                                     | 120°        |
| Blue            | 81       | 30                | 1241                                     | 120°        |
| Red             | 81       | 30                | 1241                                     | 120°        |
| Green           | 81       | 30                | 1241                                     | 120°        |

| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • White     | 0541111 | 1          |           |                       |
| • Daylight  | 0541112 | 1          |           |                       |
| • Turquoise | 0541113 | 1          |           |                       |
| • Blue      | 0541114 | 1          |           |                       |
| • Red       | 0541115 | 1          |           |                       |
| • Green     | 0541116 | 1          |           |                       |





## "New Generation"

120° Light Spectrum

## ECOSlimLED Bulbs for PAR56 Replacement - Single Color

### "ECOSlimLED" Underwater Light Bulb - Replacement - Single Color.

Polycarbonate light body complete with 72 SMD LED, epoxy PCB.

2 x 0,75 cable of 1,5 m length 120° IP68. Complete with adapter set. **2-year leakage warranty.** Can be used for the replacement of any existing PAR56 bulb on the market. 50.000 hours of life. **Max. operating temperature 30°.**



| Description | Code            | Pieces/ box | Weight Kg | Volume m³ |
|-------------|-----------------|-------------|-----------|-----------|
| • White     | <b>051130ER</b> | 1           |           |           |
| • Daylight  | <b>051131ER</b> | 1           |           |           |
| • Turquoise | <b>051132ER</b> | 1           |           |           |
| • Blue      | <b>051133ER</b> | 1           |           |           |
| • Red       | <b>051134ER</b> | 1           |           |           |
| • Green     | <b>051135ER</b> | 1           |           |           |

| "ECOSLIMLED" BULBS |          |                   |                               |             |
|--------------------|----------|-------------------|-------------------------------|-------------|
| Color              | # of LED | AC 12 V Power (W) | Light Intensity (lux = lm/m²) | Light Angle |
| White              | 72       | 24                | 1614                          | 120°        |
| Daylight           | 72       | 24                | 1614                          | 120°        |
| Turquoise          | 72       | 20                | 671                           | 120°        |
| Blue               | 72       | 20                | 671                           | 120°        |
| Red                | 72       | 20                | 671                           | 120°        |
| Green              | 72       | 20                | 671                           | 120°        |

## PAR56 LED Bulbs - Single Color -with SMD LED

120° Light Spectrum

### Single Color PAR56 with 63 SMD LED - 120°.

Polycarbonate body, AC-DC 11-14 V. 50.000 hours long life.

**2-year leakage warranty.**



| Description | Code           | Pieces/ box | Weight Kg | Volume m³ |
|-------------|----------------|-------------|-----------|-----------|
| • White     | <b>0531101</b> | 1           |           |           |
| • Daylight  | <b>0531102</b> | 1           |           |           |
| • Turquoise | <b>0531103</b> | 1           |           |           |
| • Blue      | <b>0531104</b> | 1           |           |           |
| • Red       | <b>0531105</b> | 1           |           |           |
| • Green     | <b>0531106</b> | 1           |           |           |

| 63 "SMD" LED BULBS |          |                   |                               |             |
|--------------------|----------|-------------------|-------------------------------|-------------|
| Color              | # of LED | AC 12 V Power (W) | Light Intensity (lux = lm/m²) | Light Angle |
| White              | 63       | 20                | 1511                          | 120°        |
| Daylight           | 63       | 20                | 1511                          | 120°        |
| Turquoise          | 63       | 16                | 550                           | 120°        |
| Blue               | 63       | 16                | 550                           | 120°        |
| Red                | 63       | 16                | 550                           | 120°        |
| Green              | 63       | 16                | 550                           | 120°        |

### Single Color PAR56 with 252, SMD LED - 120°.

Polycarbonate body, AC-DC 11-14 V. 50.000 hours long life.

| Description | Code           | Pieces/ box | Weight Kg | Volume m³ |
|-------------|----------------|-------------|-----------|-----------|
| • White     | <b>0531111</b> | 1           |           |           |
| • Daylight  | <b>0531112</b> | 1           |           |           |
| • Turquoise | <b>0531113</b> | 1           |           |           |
| • Blue      | <b>0531114</b> | 1           |           |           |
| • Red       | <b>0531115</b> | 1           |           |           |
| • Green     | <b>0531116</b> | 1           |           |           |

| 252 "SMD" LED BULBS |          |                   |                               |             |
|---------------------|----------|-------------------|-------------------------------|-------------|
| Color               | # of LED | AC 12 V Power (W) | Light Intensity (lux = lm/m²) | Light Angle |
| White               | 252      | 40                | 3059                          | 120°        |
| Daylight            | 252      | 40                | 3059                          | 120°        |
| Turquoise           | 252      | 31                | 900                           | 120°        |
| Blue                | 252      | 31                | 900                           | 120°        |
| Red                 | 252      | 31                | 900                           | 120°        |
| Green               | 252      | 31                | 900                           | 120°        |

**Note:** Bulbs with "Flat Transparent Glass" fronts are available, please add F to the end of the above product codes.

## PAR56 LED Bulbs - Single Color - With OSRAM LED



### OSRAM Single Color PAR56 9 Power LED Bulb.

Polycarbonate body, AC-DC 11-14 V. 50.000 hours long life.

All bulb circuits have heat sensitive **Automatic Current Control** to ensure long life. **2-year leakage warranty.**



80° Light Spectrum

| 9 PAR56 "POWER" LED BULBS |          |                   |                                            |             |
|---------------------------|----------|-------------------|--------------------------------------------|-------------|
| Color                     | # of LED | AC 12 V Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| White                     | 9        | 20                | 2409                                       | 80°         |
| Daylight                  | 9        | 20                | 2409                                       | 80°         |
| Turquoise                 | 9        | 23                | 893                                        | 80°         |
| Blue                      | 9        | 23                | 893                                        | 80°         |
| Red                       | 9        | 23                | 893                                        | 80°         |
| Green                     | 9        | 23                | 893                                        | 80°         |

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • White     | <b>0532311</b> | 1          |           |                       |
| • Daylight  | <b>0532312</b> | 1          |           |                       |
| • Turquoise | <b>0532313</b> | 1          |           |                       |
| • Blue      | <b>0532314</b> | 1          |           |                       |
| • Red       | <b>0532315</b> | 1          |           |                       |
| • Green     | <b>0532316</b> | 1          |           |                       |

## PAR56 LED Bulbs - Single Color - With Power LED



### Single Color PAR56 Lamp with 18 Power LED.

Polycarbonate body, AC-DC 11-14V. 50.000 hours - long life.

To ensure longer life, all the light circuits has heat sensitive **Automatic Current Control**. **2-year leakage warranty.**



140° Light Spectrum

| 18 PAR56 "POWER" LED BULBS |          |                   |                                            |             |
|----------------------------|----------|-------------------|--------------------------------------------|-------------|
| Color                      | # of LED | AC 12 V Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| White                      | 18       | 24                | 1690                                       | 140°        |
| Daylight                   | 18       | 24                | 1690                                       | 140°        |
| Turquoise                  | 18       | 24                | 848                                        | 140°        |
| Blue                       | 18       | 24                | 848                                        | 140°        |
| Red                        | 18       | 24                | 848                                        | 140°        |
| Green                      | 18       | 24                | 848                                        | 140°        |

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • White     | <b>0532111</b> | 1          |           |                       |
| • Daylight  | <b>0532112</b> | 1          |           |                       |
| • Turquoise | <b>0532113</b> | 1          |           |                       |
| • Blue      | <b>0532114</b> | 1          |           |                       |
| • Red       | <b>0532115</b> | 1          |           |                       |
| • Green     | <b>0532116</b> | 1          |           |                       |

## PAR56 LED Bulbs - Single Color - With Power LED

### Single color PAR56 with 27 Power LED Bulb.

Polycarbonate body, AC-DC 11-14V. 50.000 hours-long life.

To ensure longer life, all the light circuits has heat sensitive

**Automatic Current Control. 2-year leakage warranty.**

140° Light Spectrum



| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
| • White     | <b>05321111</b> | 1              |              |                          |
| • Daylight  | <b>05321121</b> | 1              |              |                          |
| • Turquoise | <b>05321131</b> | 1              |              |                          |
| • Blue      | <b>05321141</b> | 1              |              |                          |
| • Red       | <b>05321151</b> | 1              |              |                          |
| • Green     | <b>05321161</b> | 1              |              |                          |

| 27 PAR56 "POWER" LED BULBS |             |                         |                                                  |                |
|----------------------------|-------------|-------------------------|--------------------------------------------------|----------------|
| Color                      | #<br>of LED | AC 12 V<br>Power<br>(W) | Light<br>Intensity<br>(lux = lm/m <sup>2</sup> ) | Light<br>Angle |
| White                      | 27          | 36                      | 1038                                             | 140°           |
| Daylight                   | 27          | 36                      | 1038                                             | 140°           |
| Turquoise                  | 27          | 36                      | 1038                                             | 140°           |
| Blue                       | 27          | 36                      | 1038                                             | 140°           |
| Red                        | 27          | 36                      | 1038                                             | 140°           |
| Green                      | 27          | 36                      | 1038                                             | 140°           |

### Single color PAR56 with 27 Power LED Bulb.

Polycarbonate glass - **Aluminum injection body**, AC-DC 22-26V.

50.000 hours-long life. To ensure longer life, all the light circuits

has heat sensitive **Automatic Current Control. 2-year leakage**

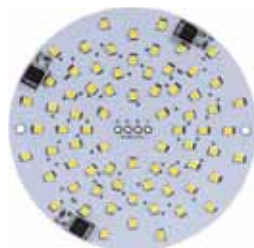
**warranty.**



| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
| • White     | <b>05322111</b> | 1              |              |                          |
| • Daylight  | <b>05322121</b> | 1              |              |                          |
| • Turquoise | <b>05322131</b> | 1              |              |                          |
| • Blue      | <b>05322141</b> | 1              |              |                          |
| • Red       | <b>05322151</b> | 1              |              |                          |
| • Green     | <b>05322161</b> | 1              |              |                          |

| 27 PAR56 "POWER" LED BULBS |             |                         |                                                  |                |
|----------------------------|-------------|-------------------------|--------------------------------------------------|----------------|
| Color                      | #<br>of LED | AC 24 V<br>Power<br>(W) | Light<br>Intensity<br>(lux = lm/m <sup>2</sup> ) | Light<br>Angle |
| White                      | 27          | 70                      | 4225                                             | 140°           |
| Daylight                   | 27          | 70                      | 4225                                             | 140°           |
| Turquoise                  | 27          | 70                      | 4225                                             | 140°           |
| Blue                       | 27          | 70                      | 4225                                             | 140°           |
| Red                        | 27          | 70                      | 4225                                             | 140°           |
| Green                      | 27          | 70                      | 4225                                             | 140°           |

## PAR38 LED Bulbs - Single Color - With SMD LED



Single Color 72 SMD LED bulb.

Polycarbonate body, AC-DC 11-14V. **2-year leakage warranty.**

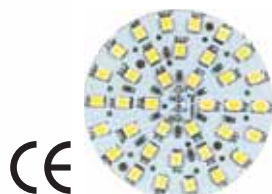


**30° Light Spectrum**  
**Automatic Current Control**

| 63 "SMD" LED BULBS |          |                   |                                          |             |
|--------------------|----------|-------------------|------------------------------------------|-------------|
| Color              | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| White              | 72       | 10                | 562                                      | 30°         |
| Daylight           | 72       | 10                | 562                                      | 30°         |
| Turquoise          | 72       | 9                 | 181                                      | 30°         |
| Blue               | 72       | 9                 | 181                                      | 30°         |
| Red                | 72       | 9                 | 182                                      | 30°         |
| Green              | 72       | 9                 | 183                                      | 30°         |

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • White     | <b>0532711</b> | 1          |           |                       |
| • Daylight  | <b>0532712</b> | 1          |           |                       |
| • Turquoise | <b>0532713</b> | 1          |           |                       |
| • Blue      | <b>0532714</b> | 1          |           |                       |
| • Red       | <b>0532715</b> | 1          |           |                       |
| • Green     | <b>0532716</b> | 1          |           |                       |

## Mini LED Bulbs - Single Color - With SMD LED



Single Color 36 SMD LED Lights.

AC-DC 11-14V. **Bare Circuit Bulb.** 50,000 hours-long life. **2-year leakage warranty.**



**90° Light Spectrum**

| 36 "SMD" LED BULBS |          |                   |                                          |             |
|--------------------|----------|-------------------|------------------------------------------|-------------|
| Color              | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| White              | 36       | 7                 | 550                                      | 140°        |
| Daylight           | 36       | 7                 | 550                                      | 140°        |
| Turquoise          | 36       | 4                 | 92                                       | 140°        |
| Blue               | 36       | 4                 | 92                                       | 140°        |
| Red                | 36       | 4                 | 92                                       | 140°        |
| Green              | 36       | 4                 | 92                                       | 140°        |

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • White     | <b>0532822</b> | 1          |           |                       |
| • Daylight  | <b>0532821</b> | 1          |           |                       |
| • Turquoise | <b>0532824</b> | 1          |           |                       |
| • Blue      | <b>0532823</b> | 1          |           |                       |
| • Red       | <b>0532825</b> | 1          |           |                       |
| • Green     | <b>0532826</b> | 1          |           |                       |

## Underwater STRIP LED Lights - IP68



Single Color LED Strip Lighting.

12 V strip IP68 LED 12 W. Width 10 mm, Thickness 5 mm. Standard roll Length is 5 m. Price below is per metre. Special sealed cable connection possible.



| Description                                | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|------------------|------------|-----------|-----------------------|
| • White - price per meter                  | <b>0534111</b>   |            |           |                       |
| • Daylight - price per meter               | <b>0534112</b>   |            |           |                       |
| • Blue - price per meter                   | <b>0534113</b>   |            |           |                       |
| • RGB - price per meter                    | <b>0534121</b>   |            |           |                       |
| • Aluminium Mounting Strip, w/opaque cover | <b>0534111C</b>  |            |           |                       |
| • Aluminium Mounting Strip, cap            | <b>0534111CC</b> |            |           |                       |

**Note:** LED Strip Light can be pre-assembled into the overflow channel profile. Please ask for price.



## SlimLED Bulbs for PAR56 Replacement - RGB

### "SlimLED" Underwater Light Bulb - Replacement Kit - RGB changing Color.

Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with 2 x 1,5 mm cable of 2,5 m length and adapter set. 120° - IP68. For built in PCB models there are 13 different lighting patterns. For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). **2-year leakage warranty.** The light can be used as a replacement bulb for LED conversion of all PAR56 products available on the market. 50,000 hours life.

**Max. operating temperature 30°.**

120° Light Spectrum



| Description                            | Code            | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|-----------------|-------------|-----------|-----------------------|
| • 252 Built-in Control replacement kit | <b>05115301</b> | 1           |           |                       |
| • 252 Central Control replacement kit  | <b>05115501</b> | 1           |           |                       |
| • 90 Built-in Control replacement kit  | <b>0541201</b>  | 1           |           |                       |
| • 90 Central Control replacement kit   | <b>0541202</b>  | 1           |           |                       |
| • 81 Built-in Control replacement kit  | <b>05115601</b> | 1           |           |                       |
| • 81 Central Control replacement kit   | <b>05115701</b> | 1           |           |                       |

| "SLIMLED" BULBS |          |              |                                            |             |
|-----------------|----------|--------------|--------------------------------------------|-------------|
| Color           | # of LED | AC Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.        | 252      | 36           | 1011                                       | 120°        |
| RGB C.I.        | 252      | 36           | 1011                                       | 120°        |
| RGB B.I.        | 90       | 36           | 1081                                       | 120°        |
| RGB C.I.        | 90       | 36           | 1081                                       | 120°        |
| RGB B.I.        | 81       | 30           | 1241                                       | 120°        |
| RGB C.I.        | 81       | 30           | 1241                                       | 120°        |

### "New Generation"

## "ECOSlimLED" Bulbs for PAR56 Replacement Kit - RGB

### "ECOSlimLED" Underwater Light Bulb - Replacement Kit - RGB changing Color.

Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,5 m length and adapter kit. 120° - IP68. For built in PCB models there are 13 different lighting patterns. For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). The light can be used as a replacement bulb for LED conversion of all PAR56 products available on the market.

**Max. operating temperature 30°.**

**2-year leakage warranty.**

120° Light Spectrum

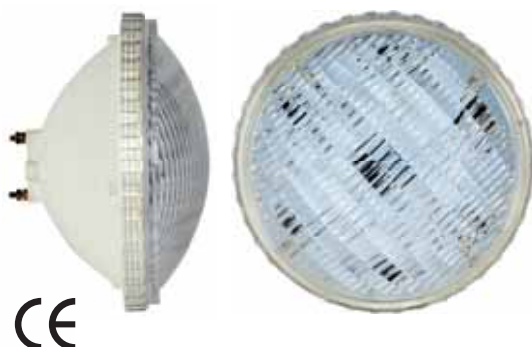


| Description                           | Code              | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------|-------------------|-------------|-----------|-----------------------|
| • 72 Built-in Control replacement kit | <b>051150ER</b>   | 1           |           |                       |
| • 72 Central Control replacement kit  | <b>051151ER</b>   | 1           |           |                       |
| • 72 Self Control replacement kit     | <b>051150ERSC</b> | 1           |           |                       |

| "ECOSLIMLED" BULBS |          |              |                                            |             |
|--------------------|----------|--------------|--------------------------------------------|-------------|
| Color              | # of LED | AC Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.           | 72       | 20           | 671                                        | 120°        |
| RGB C.I.           | 72       | 20           | 671                                        | 120°        |
| RGB S.C.           | 72       | 20           | 671                                        | 120°        |



## PAR56 LED Bulbs - RGB - With SMD LED



### Rainbow PAR56 LED bulb.

Polycarbonate body. For built-in PCB models RGB 13, for central PCB models RGB 16 different lighting patterns. Changing programs with switch on and off. For built-in control bulbs two-core cable infrastructure and for central PCB bulbs four-core or twocore cable infrastructure together with a central control pannel is required. It is recommended to use central control models to avoid synchronization problems in systems with more than 10 lamps, 50.000 hours long life. To ensure longer life, all the light circuits has heat sensitive **Automatic Current Control. 2-year leakage warranty.**

| PAR56 "SMD" LED BULBS |          |              |                                          |             |
|-----------------------|----------|--------------|------------------------------------------|-------------|
| Color                 | # of LED | AC Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.              | 54       | 16           | 550                                      | 120°        |
| RGB C.I.              | 54       | 16           | 550                                      | 120°        |

| Description                   | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|----------------|------------|-----------|-----------------------|
| • Rainbow 54 Built in Control | <b>0531201</b> | 1          |           |                       |
| • Rainbow 54 Central Control  | <b>0531202</b> | 1          |           |                       |

### 120° Light Spectrum



**Rainbow PAR56 LED bulb.** Polycarbonate body. For built-in PCB models RGB 13, for central PCB models RGB 16 different lighting patterns. Changing programs with switch on and off. For built-in control bulbs two-core cable infrastructure and for central PCB bulbs four-core or twocore cable infrastructure together with a central control panel is required. It is recommended to use central control models to avoid synchronization problems in systems with more than 10 lamps, 50.000 hours long life. **Self RCU control models has a built in PCB system with inside remote control reciever. With one remote, max 6 lights can work with synchronization. Remote control i not included in price of the bulb.** To ensure longer life, all the light circuits has heat sensitive **Automatic Current Control. 2-year leakage warranty.**

| PAR56 "SMD" LED BULBS |          |              |                                          |             |
|-----------------------|----------|--------------|------------------------------------------|-------------|
| Color                 | # of LED | AC Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.              | 252      | 31           | 900                                      | 120°        |
| RGB S.C.              | 252      | 31           | 454                                      | 120°        |
| RGB C.I.              | 252      | 31           | 900                                      | 120°        |

| Description                       | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|------------------|------------|-----------|-----------------------|
| • Rainbow 252 Built in Control    | <b>0531211</b>   | 1          |           |                       |
| • Rainbow 252 Self RCU Controlled | <b>0531211SC</b> | 1          |           |                       |
| • Rainbow 252 Central Control     | <b>0531212</b>   | 1          |           |                       |

**Note:** Bulbs with "Flat Transparent Glass" fronts are available, please add F to the end of the above product codes.



## PAR56 LED Bulbs - RGB - Power LED

### 80° Light Spectrum

#### Rainbow PAR56 LED bulb.

Polycarbonate body. For built-in PCB models RGB 13, for central PCB models RGB 16 different lighting patterns. Changing programs with switch on and off. For built-in control bulbs two-core cable infrastructure and for central PCB bulbs four-core or two-core cable infrastructure together with a central control panel is required. It is recommended to use central control models to avoid synchronization problems in systems with more than 10 lamps, 50.000 hours long life. To ensure longer life, all the light circuits has heat sensitive

**Automatic Current Control. 2-year leakage warranty.**



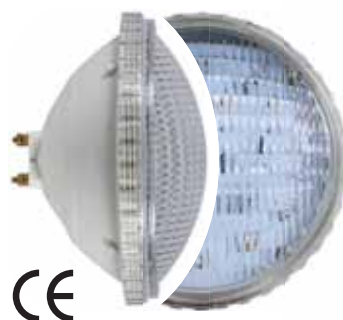
| Description                  | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|----------------|------------|-----------|-----------------------|
| • Rainbow 9 Built-in Control | <b>0532322</b> | 1          |           |                       |
| • Rainbow 9 Central Control  | <b>0532321</b> | 1          |           |                       |

**Note:** Bulbs with "Flat Transparent Glass" fronts are available, please add F to the end of the above product codes.

| PAR56 "POWER" LED BULBS |          |              |                                            |             |
|-------------------------|----------|--------------|--------------------------------------------|-------------|
| Color                   | # of LED | AC Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.                | 9        | 23           | 893                                        | 80°         |
| RGB C.I.                | 9        | 23           | 893                                        | 80°         |

### 140° Light Spectrum

| Description                   | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|----------------|------------|-----------|-----------------------|
| • Rainbow 18 Built in Control | <b>0532121</b> | 1          |           |                       |
| • Rainbow 18 Central Control  | <b>0532721</b> | 1          |           |                       |



| PAR56 "POWER" LED BULBS |          |              |                                            |             |
|-------------------------|----------|--------------|--------------------------------------------|-------------|
| Color                   | # of LED | AC Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.                | 18       | 24           | 848                                        | 140°        |
| RGB C.I.                | 18       | 24           | 848                                        | 140°        |

### 140° Light Spectrum

| Description                               | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------|----------------|------------|-----------|-----------------------|
| • Rainbow 27 Built in Control             | <b>0532122</b> | 1          |           |                       |
| • Rainbow 27 Central Control              | <b>0532722</b> | 1          |           |                       |
| • Rainbow 27 Built in Control - Alu. Body | <b>0532223</b> | 1          |           |                       |
| • Rainbow 27 Central Control - Alu. Body  | <b>0532224</b> | 1          |           |                       |

**Note:** Bulbs with "Flat Transparent Glass" fronts are available, please add F to the end of the above product codes.



| PAR56 "POWER" LED BULBS |          |              |                                            |             |
|-------------------------|----------|--------------|--------------------------------------------|-------------|
| Color                   | # of LED | AC Power (W) | Light Intensity (lux = lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.                | 27       | 36           | 1038                                       | 140°        |
| RGB C.I.                | 27       | 36           | 1038                                       | 140°        |
| RGB B.I.                | 27       | 70           | 4225                                       | 140°        |
| RGB C.I.                | 27       | 70           | 4225                                       | 140°        |

## PAR 56 LED BULBS - RGB

Brand New Concept

### Single and Multi Color with Power LED

140° Light Spectrum



White and RGB together

#### Rainbow 30 and Rainbow 50 PAR 56 LED Bulb - 140°.

Made of 18 RGB plus 12 white led. The Light can work not only with RGB led programs, but also with only white led lights. It also has an option to light the white leds, with RGB leds all together. In this case, the white light intensity can be maximized. Polycarbonate body. In Built-in PCB system, it is RGB 13+1 white, in Central PCB system, it is RGB 16+1 white different light patterns. On-off, enables changing the program. For built-in PCB systems 2 core cable, for Central PCB systems 4 core cable and central control panels are required. When there is more than 10 LED Bulbs, not to have problems in synchronisation during long hours of working, Central PCB Systems model should be chosen. To ensure longer life, all light circuits have heat sensitive **Automatic Current Control**. Light specifications on the table are with RGB and white leds working at the same time.

| PAR56 "POWER" LED BULBS |          |              |                                          |             |
|-------------------------|----------|--------------|------------------------------------------|-------------|
| Color                   | # of LED | AC Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| RGBW B.I.               | 30       | 31           | 1779                                     | 140°        |
| RGBW C.I.               | 30       | 50           | 2525                                     | 140°        |

#### Built in Control System Led Bulbs

| Description                   | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------|------------|-----------|-----------------------|
| • Rainbow 30                  | 0532123 | 1          |           |                       |
| • Rainbow 50 - Aluminium Body | 0532226 | 1          |           |                       |

## Power LED Bulb Lens



Power LED Lenses.



| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • 30° Lens  | 0532001 | 1          |           |                       |
| • 45° Lens  | 0532002 | 1          |           |                       |
| • 60° Lens  | 0532003 | 1          |           |                       |

## PAR38 LED Bulbs - RGB - SMD LED



120° Light Spectrum

#### Rainbow PAR38 72 SMD LED Bulb.

Polycarbonate body, RGB 16 different light alternatives, changing programmes with switch on and off.

50.000 hours long life. To ensure longer life, all the light circuits have heat sensitive **Automatic Current Control**. **2-year leakage warranty**.

| 72 PAR38 "SMD" LED BULBS |          |                   |                                          |             |
|--------------------------|----------|-------------------|------------------------------------------|-------------|
| Color                    | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.                 | 72       | 8                 | 316                                      | 120°        |
| RGB C.I.                 | 72       | 8                 | 316                                      | 120°        |

| Description              | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------|------------|-----------|-----------------------|
| • Built-in Control - 8 W | 0532523 | 1          |           |                       |
| • Central Control - 8 W  | 0532524 | 1          |           |                       |

## Mini LED - RGB - SMD LED

120° Light Spectrum

**Rainbow 36 SMD LED bulbs.** Different RGB light modes, AC-DC 11-14V. (Central control panel is obligatory for applications with multiple bulbs.)

| 36 "SMD" LED AMPULLER |          |                   |                                          |             |
|-----------------------|----------|-------------------|------------------------------------------|-------------|
| Color                 | # of LED | AC 12 V Power (W) | Light Intensity (lux=lm/m <sup>2</sup> ) | Light Angle |
| RGB B.I.              | 36       | 6                 | 75                                       | 120°        |
| RGB C.I.              | 36       | 6                 | 75                                       | 120°        |

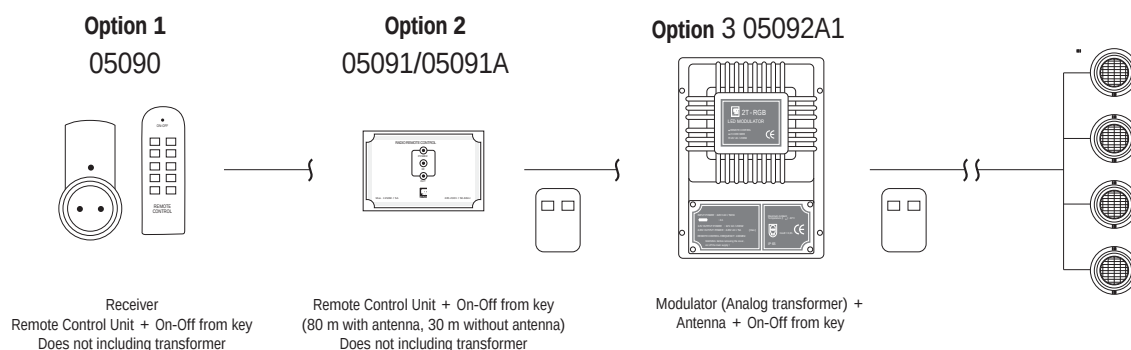
| Description              | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------|------------|-----------|-----------------------|
| • Built-in Control - 6 W | 0532631 | 1          |           |                       |
| • Central Control - 6 W  | 0532622 | 1          |           |                       |



## Single Color LED Bulbs - Control Systems

Single color LED lights used in swimming pools can be controlled with remote control systems. The control devices in question are divided into 2 main groups, with and without transformer. Transformer receivers (Modulator) can be analog or electronic transformers. Transformers are inside the antenna receiver unit. In cases where the capacity is not enough, the increase in capacity can be achieved with the help of additional transformers. There is an analog transformer control system on our list. An electronic transformer system can be made upon request.

### System Connection Scheme



## Single Color Bulb Control Panels and Remote Controls

**“Modulator for Single Color LED Light”** complete with 220 V input, 12 V output, radio wave-antenna remote control receiver, **200 W** analog transformer and 2 key remote control switch. It can be connected in parallel with the conventional transformer for added power. **It is installed with two-core cable.**

| Description                          | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|----------------|-------------|-----------|-----------------------|
| Modulator for Single Color LED Light | <b>05092A1</b> | 1           |           |                       |



### REMOTE CONTROL DEVICES FOR SINGLE COLOR LED LIGHTS

**Remote Control.** Used for LED lights with built-in PCB. Changes the program of a group of light easily by switching on and off, without going to the engine room. The reach of the model is 30 m without the antenna and 80 m with antenna. Power capacity for all of the models is 1,1 kW.

| Description                                         | Code             | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------------|------------------|-------------|-----------|-----------------------|
| • Receiver with the plug + remote control key       | <b>05090</b>     | 1           | 0,200     |                       |
| • In-line receiver + remote control key             | <b>05091</b>     | 1           |           |                       |
| • 05091, with antenna                               | <b>05091A</b>    | 1           |           |                       |
| • Remote Control Unit                               | <b>05091AY01</b> | 1           |           |                       |
| • Two Terminal Panel 2 with 4 button Remote Control | <b>05092A3</b>   | 1           |           |                       |
| • 05092A3's Panel Type                              | <b>05092A3P</b>  | 1           |           |                       |



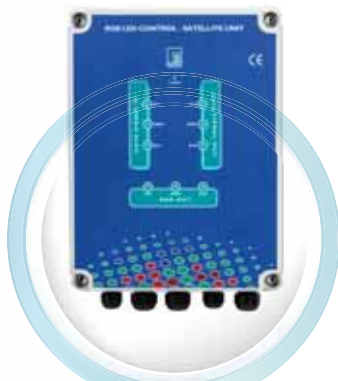
## RGB LED Bulbs - Control Systems



05073231



05073221



05073221S

LED lights with changing RGB colors and light attractions can be installed with different techniques. The basic difference between the lights is the method it uses to control the light changes and the harmony in the light attractions. This control can be maintained separately for every light by an integrated PCB (printed circuit board) as in built-in PCB models. Alternatively, there can be a central PCB installed in a central control panel, to regulate all the lights centrally.

Central PCB models are the definite solution to the synchronization problems that occur in multi-light systems (> 10 lamps) in long time operation. Hence they are recommended in multi-light systems. These kind of control panels are suitable for a limited number of lights. For larger quantities, adequate number of satellite panels should be installed.

Changing the light program of the lights is realized by switching the system on and off with a remote control. Before doing this, the system should be operating for at least 1-2 minutes. In lights with built-in PCB, all the lights are tied to a plug with remote control receiver

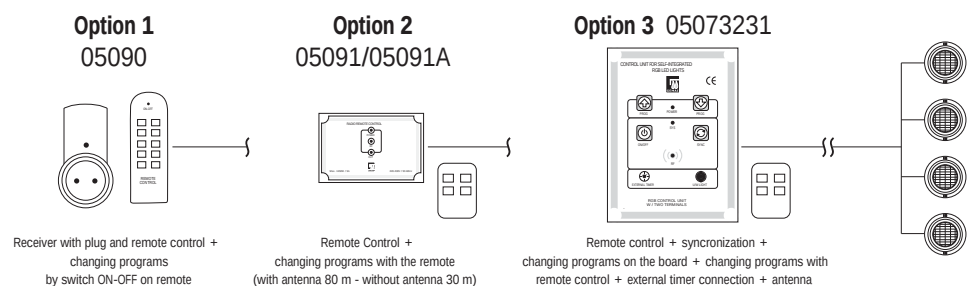
(1) or a board with a receiver

(2). These receivers make sure that the light program has changed for all the lights by switching them on and off with the command from the remote control. As the distances between the PCBs in the lights and the receiver are different, synchronization problem may occur in operations longer than 2 hours. In case of this problem, the system should be switched off, and be switched on again after 7-13 seconds. After this, all lights continue working simultaneously with the same program. There is also a special board

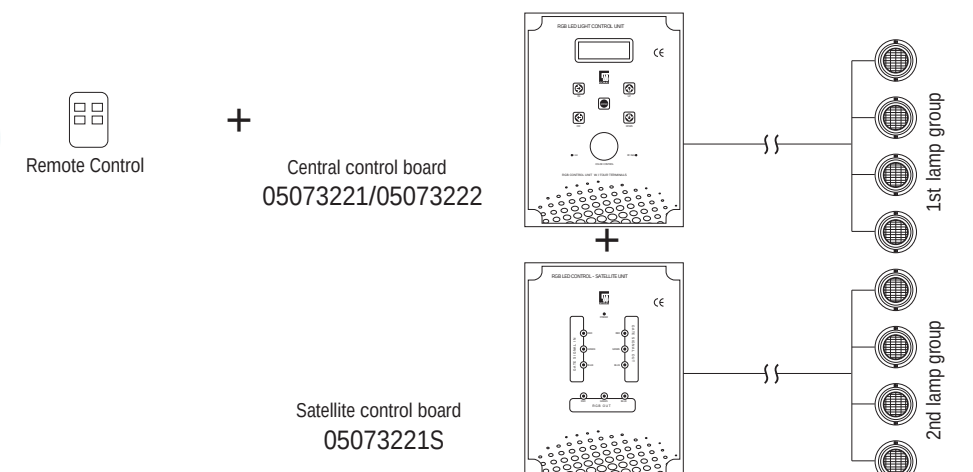
(3) that facilitates this synchronization. This board also has a remote control and receiver, and can control back and forth movement between light programs. An external timer can also be installed in this panel.

In central PCB systems receiver is installed within the board and controls a single central PCB. In this systems, the synchronization of the light programs never spoil.

### BUILT-IN PCB SYSTEM CONNECTION DIAGRAM



### CENTRAL PCB SYSTEM CONNECTION DIAGRAM



## RGB LED Lights Control Panels and Remote Control Devices

Light Modulator for RGB Color and Single Color Led Lights. Complete with 220 V input, 12 V output, radio remote control receiver, antenna and 4-key remote-control switch. Synchronization with one button, on-off button, reset button, program change buttons via control switch. **It is a 200 W Analog Transformer**, it can be connected in parallel with a conventional transformer for additional power. **Installed with two-core cable.**

| Description                             | Code              | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-------------------|-------------|-----------|-----------------------|
| • LED Modulator, for RGB LED            | <b>05092A</b>     | 1           |           |                       |
| • 4- Button Remote Control, for RGB LED | <b>05092A3Y01</b> | 1           |           |                       |



### Built-in Two-terminal Light modulators for RGB changing Color LED.

Complete with 220 V input-output, radio remote control receiver, antenna and 4-button remote control. Synchronization with a single button on the panel and the remote control (Panel 1) or only on the remote control (Panel 2). On-Off button, reset button, program change buttons. Connections for an external timer. **Installed with two-core cable. There is no Transformer on the panel, can be installed with analog or electronic transformers (= Satellite Panel).**

| Description                                         | Code            | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------------|-----------------|-------------|-----------|-----------------------|
| • Two Terminal Panel 1 with 4 button Remote Control | <b>05073231</b> | 1           |           |                       |
| • Two Terminal Panel 2 with 4 button Remote Control | <b>05092A3</b>  | 1           |           |                       |
| • 05092A3's Panel Type                              | <b>05092A3P</b> | 1           |           |                       |



05073231



05092A3



05092A3P

### Central Control Panel with Four Terminals for RGB LED Bulbs:

LED light control panel complete with 200 V inlet / 12 V outlet, **200 W electronic transformer**, remote control and radio wave receiver. Central control with 16 different light programs. Connections for external timer. **To be established with four core cable infrastructure.**

| Description                            | Code             | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|------------------|-------------|-----------|-----------------------|
| • Board I with four terminals          | <b>05073221</b>  | 1           |           |                       |
| • Satellite board*, for four terminals | <b>05073221S</b> | 1           |           |                       |

\* Electronic transformer.



05073221



05073221S

## Transformers - 230/12V



### 300 W / 230 - 12 V Outlet Transformer.

Housing made of heat resistant plastic. Gasket sealed lid. Input with glass fuse, outlet with special connection terminal. Complete with hardware necessary for fixing on the wall. Winding is completely sealed in polyurethane for humid rooms. IP65.

| Description                    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|--------------|------------|-----------|-----------------------|
| IP65 300 W / 230 - 12 V Outlet | <b>05073</b> | 1          | 4,000     | 0,003                 |

### 100 W / 230 - 12 V Outlet. Plastic housing, polyurethane isolation.

| Description                    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|--------------|------------|-----------|-----------------------|
| IP65 100 W / 230 - 12 V Outlet | <b>05067</b> | 1          |           | 0,007                 |

### 50 W / 220 - 12 V Outlet.

| Description                   | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|--------------|------------|-----------|-----------------------|
| IP65 50 W / 220 - 12 V Outlet | <b>05069</b> |            |           |                       |

### 300 W / 230 - 12 V Outlet. Housing made of resistant plastic. 220 V input with glass fuse.

| Description                          | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|---------------|------------|-----------|-----------------------|
| • IP20 300 W / 230 - 12 V Outlet     | <b>05074</b>  | 1          | 5,050     | 0,007                 |
| • Ditto, w/polyester isolation, IP65 | <b>05074P</b> | 1          | 6,250     | 0,007                 |
| • 400 W / 230 - 12 V Outlet          | <b>05078P</b> | 1          |           |                       |



### 2 X 300 W = 600 W / 230 - 12 V Outlet.

Housing made of heat resistant plastic. Two 300 W/12 V underwater lamp can be connected.

| Description                 | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------|--------------|------------|-----------|-----------------------|
| IP65, w/polyester isolation | <b>05063</b> | 1          | 7,200     | 0,008                 |

### 300 W / 230 - 13-14-15-16 V with cascade output. (No load through transformer).

Housing made of heat resistant durable plastic. Connection compartment has a sealed cover. Outlet with special connection terminals, 230 V input with glass fuse. Supplied with bolts + plugs to hang on the wall and spare glass fuse. Designed for installations where the lamp and transformer are remote. 2 x 6 cable type allows for connection up to 50 meters apart. Model 05062P is for highly humid engine rooms.

**Winding is completely insulated with polyurethane.** (See Selection Chart)

| Description     | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------|---------------|------------|-----------|-----------------------|
|                 | <b>05062</b>  | 1          | 6,100     | 0,007                 |
| Fully insulated | <b>05062P</b> | 1          | 7,800     | 0,007                 |

### 300 W-220/13"14"15"16" V OUTPUT, SELECTION TABLE FOR OUTPUT VOLTAGE (VOLTS) FOR CASCADE TRANSFORMER

| CABLE TYPE | DISTANCE BETWEEN TRAFO & LAMPS (m) |    |    |    |    |    |    |    |
|------------|------------------------------------|----|----|----|----|----|----|----|
|            | 3-6-9                              | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 2 x 4      | 13                                 | 15 | 15 | 16 | 16 | -  | -  | -  |
| 2 x 6      | -                                  | 13 | 13 | 14 | 14 | 15 | 16 | 16 |



## Transformers - 230/24V

**230 V - 24 V Outlet Transformer.** Plastic box, wall mounted.

| Description    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------------|----------------|--------------|--------------------------|
| • 150 W - IP20 | <b>05064</b> | 1              | 4,600        | 0,007                    |
| • 300 W - IP20 | <b>05065</b> | 1              | 5,900        | 0,007                    |



**600 W / 230 - 24 V Outlet Transformer.** Plastic box, wall mounted.

| Description                    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------|--------------|----------------|--------------|--------------------------|
| IP20 600 W / 230 - 24 V Outlet | <b>05066</b> | 1              | 7,400        | 0,008                    |

## Bulbs for Underwater Lights

**PAR38 - 150 W/24 V Bulb.**

| Description             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------|-----------------|----------------|--------------|--------------------------|
| PAR38 - 150 W/24 V Bulb | <b>05021001</b> | 12             | 4,916        | 0,003                    |



**100 W/12 V Halogen Bulb.**

| Description             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------|-----------------|----------------|--------------|--------------------------|
| 100 W/12 V Halogen Bulb | <b>05113002</b> |                |              |                          |



**50 W/12 V Halogen Bulb.**

| Description            | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------|----------------|----------------|--------------|--------------------------|
| 50 W/12 V Halogen Bulb | <b>0511207</b> | 50             | 2,000        | 0,007                    |



## Sandwich Gasket for Underwater Lights

**Sandwich gasket for underwater lights.**

| Description                        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|------------------|----------------|--------------|--------------------------|
| For Standard 2002 Underwater light | <b>05211401S</b> | 1              | 0,800        |                          |



## Installation Equipment for Underwater Lights



### Junction Box.

Made of white ABS plastic. Connections are for "05051" conduits. Two main and two back-up connections.

| Description  | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------|-------|------------|-----------|-----------------------|
| Junction Box | 05040 | 8          | 2,610     | 0,016                 |



05051

| Description                  | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|--------|------------|-----------|-----------------------|
| • Hose Conduit               | 05051  | 50         | 9,100     | 0,070                 |
| • Ditto, with threaded ends. | 05051T | 50         |           |                       |



05051T

### Hose Conduit.

Spiral wounded-transparent and blue PVC hose of 3/4".

| Description                    | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|-------|------------|-----------|-----------------------|
| • Transparent- price per meter | 05053 | 50         | 9,100     | 0,070                 |
| • Blue- price per meter        | 05054 | 50         | 5,200     |                       |



05111062

### Underwater Light Cable.

| Description                   | Code     | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|----------|------------|-----------|-----------------------|
| • 2 x 1,5 TTR price per meter | 05111062 | 100 m      |           |                       |
| • 2 x 4 TTR price per meter   | 0511106  | 100 m      | 21,200    |                       |
| • 2 x 6 TTR price per meter   | 05111061 | 100 m      | 30,400    |                       |



### Special tube used for underwater joints of the lamp cables.

Can be used with cables with a diameter between 1,2 - 3 mm. After the copper joint, the cable should be wrapped with electric band, and then be isolated with the underwater tube by heat treatment.

| Description                             | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|--------|------------|-----------|-----------------------|
| For Ø1,2 - 3 mm cables, price per meter | 050831 | 1          |           |                       |

## Electronic Switches

**Flow Switch, 1,5 m cable.**

| Description                    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------|--------------|----------------|--------------|--------------------------|
| • Flow Switch 1 (Floater Type) | <b>05081</b> | 1              |              |                          |
| • Flow Switch 2 (Paddle Type)  | <b>05083</b> | 1              |              |                          |

**Note:** Flow Switch 1 'Floater' gives a 'no flow' signal when the floater is in the horizontal position.



**Floater Switch.**

Made of PP. For on-off control of the level controlled device. 30 cm cable.

| Description    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------------|----------------|--------------|--------------------------|
| Floater switch | <b>05082</b> | 1              |              |                          |



**Pneumatic Switch.**

Up to 1 HP. Detects air flow or the absence of air flow through the button.

| Description      | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|---------------|----------------|--------------|--------------------------|
| Pneumatic Switch | <b>156871</b> | 1              |              |                          |



156871

## Wired and Wireless Remote Controls

**Pneumatic Switch Board.**

For threephase pumps up to 4 kW (excluding). Complete with contactor and fuse. Ready installed in plastic box.

| Description            | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------|--------------|----------------|--------------|--------------------------|
| Pneumatic switch board | <b>05080</b> | 1              | 0,748        | 0,003                    |



05080

**Pneumatic Button For Underwater Installations Through the Wall:**

For the control of electrical equipment inside the pool. Complete with special wall conduit + cable outlet. Can be used with 05080 to be effective up to 30 m.

| Description                     | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|---------------|----------------|--------------|--------------------------|
| Pneumatic Button For Underwater | <b>05080B</b> | 1              | 0,650        | 0,004                    |



05080B

**Wired Remote Control for Lighting and / or Pool Equipment.**

Used for remote wired control of lights, pumps, heaters or similar equipment. It has three outputs. Max for each output power capacity is 1.15 kW / 5 A. Cable distance is 3.0 m standard. Order for longer distances.

| Description                       | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------|--------------|----------------|--------------|--------------------------|
| • Three Function Button + Driver  | <b>15233</b> | 1              |              |                          |
| • Three Function Button           | <b>15231</b> | 1              |              |                          |
| • Single Function Button + Driver | <b>15234</b> | 1              |              |                          |
| • Single Function Button          | <b>15232</b> | 1              |              |                          |
| • Driver                          | <b>15230</b> | 1              |              |                          |



## Wired and Wireless Remote Controls



### Remote Controls for Led Lights or Pool Equipment.

Used for remote control of lamps, pumps, heaters or similar equipment. Single output. Max. power capacity is 1,15 kW / 5 A. Control range is 80 m in open air. There may be a reduction in range in underground engine rooms. Does not include a transformer.

| Description                              | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------|------------------|------------|-----------|-----------------------|
| • In-Line Receiver and Remote Control    | <b>05091A</b>    | 1          |           |                       |
| • Remote Control Handset only (2 button) | <b>05091AY01</b> | 1          |           |                       |



050701

### RS585-Wi-fi Modul

Used for remote wired control of lights, pumps, heaters or similar equipment. It has two outputs. Max for each output power capacity is 1,15 kW / 5 A. The control range is limited through internet browser by the Wi-Fi range. Controlled via screen commands with computers or smartphones through internet browser.

| Description       | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|---------------|------------|-----------|-----------------------|
| RS485-Wi-Fi Modul | <b>050701</b> | 1          |           |                       |

## Electrical Control Boards



050712T



050722T

### With contactor.

Electric control board; made of injection plastic, resistant to dust and impacts, closed type board with decorative look. For threephase and monophase pumps of up to 4 kW (exclusive). All boards have Siemens contactors and thermal magnetic switch board protection.

| Description                             | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|-----------------|------------|-----------|-----------------------|
| • 1 triphase pump + 1 group of lights   | <b>050711</b>   | 1          | 3,300     | 0,017                 |
| • Ditto, w/timer                        | <b>050711T</b>  | 1          | 3,500     | 0,017                 |
| • Ditto, w/200 W Analog Transformer     | <b>050711TT</b> | 1          |           | 0,017                 |
| • 1 triphase pump + 2 groups of lights  | <b>050712</b>   | 1          | 3,594     | 0,017                 |
| • Ditto, w/timer                        | <b>050712T</b>  | 1          | 3,725     | 0,017                 |
| • 2 triphase pumps + 2 groups of lights | <b>050713</b>   | 1          | 4,382     | 0,017                 |
| • Ditto, w/timer                        | <b>050713T</b>  | 1          | 4,580     | 0,017                 |

**Note:** Please ask for the price for your special boards.

| Description                            | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|-----------------|------------|-----------|-----------------------|
| • 1 Monophase Pump + 1 group of lights | <b>050721</b>   | 1          | 3,300     | 0,017                 |
| • Ditto, w/timer                       | <b>050721T</b>  | 1          | 3,500     | 0,017                 |
| • Ditto, w/200 W Analog Transformer    | <b>050721TT</b> | 1          |           | 0,017                 |
| • 1 Monophase Pump + 2 group of lights | <b>050722</b>   | 1          | 3,594     | 0,017                 |
| • Ditto, w/timer                       | <b>050722T</b>  | 1          | 3,725     | 0,017                 |
| • 2 Monophase Pump + 2 group of lights | <b>050723</b>   | 1          | 4,382     | 0,017                 |
| • Ditto, w/timer                       | <b>050723T</b>  | 1          | 4,580     | 0,017                 |

**Note:** For special panels with phase protection and circuit breakers etc, please ask for price.





## Pool Control Mono/Tri - Electronic Control Boards

**“POOL CONTROL MONO”.** Fully electronic, 7 segment display, pool electrical control panel. It controls single-phase pumps from 0.33 Hp to 2.0 Hp and 1 group of 100 W / 12 V lights (up to 4 pieces). Complete with 100 W or 200 W / 12 V Analogue transformer.

**“POOL CONTROL TRI”.** Fully electronic, 7 segment display, pool electrical control panel. It controls tri-phase pumps up to 0.33 Hp and 1 group of 100W / 12V lights (up to 4 pieces). Complete with 100 W or 200 W / 12 V Analogue transformer.

### Technical Specifications:

- Controlled automatic operation is possible for pumps and lights. While the system is operating, it can pass from automatic control to manual or manual control to automatic without interrupting the system.

- Wrong Connection Protection:** In case of a wrong connection in the connection box of the motor, it gives a short circuit warning and prevents the motor from starting. It stops the motor in case of a short circuit in the motor windings for any reason. (For example, the motor is submerged)

- Thermal Current Protection:** The current drawn by the motor can be defined with a precision between 10% and 50%. In case of excessive current out of tolerance, the motor is disabled.

- Closed Valve Protection:** It deactivates the motor using current control if the valves in the pump suction and / or discharge lines are closed by error. Thus, it eliminates the risk of damage caused by overheating.

- Ampere Reading:** It allows seeing the current drawn by the pump motor at any time. All controls are disabled in this mode.

- Working Time:** Possibility to see the total working time as year-month-day-hour-minute on the indicator from the first commissioning of the pump. Also uninterrupted working time display from last on.

- Time Counter:** Possibility to start-stop the pump automatically for the desired time with the help of the meter.

- Light Control and Toroidal Transformer:** 1 group 100 W or 200 W / 12 V light output and Toroidal transformer.

- Spare Pump Connection:** Possibility of conversion to spare pump with a button.



050731101

| Description                             | Code               | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------------|--------------------|----------------|--------------|--------------------------|
| • Pool Control Mono; (Max. 100 W)       | <b>0507311</b>     | 1              |              |                          |
| • 1 Pump (+ 1 spare)+ 1 Gr. Light       |                    |                |              |                          |
| • 050731, (Max. 200 W)                  | <b>0507312</b>     | 1              |              |                          |
| • Pool Control Tri; (Max. 100 W)        | <b>0507311T</b>    | 1              |              |                          |
| • 1 Pump (+ 1 spare)+ 1 Gr. Light       |                    |                |              |                          |
| • 0507311T, (Max. 200 W)                | <b>0507312T</b>    | 1              |              |                          |
| • Modul Control                         | <b>050731101</b>   | 1              |              |                          |
| • Modul Control w/smartphone Wi-Fi app. | <b>050731101WF</b> |                |              |                          |

**“IF THE POOL CONTROL MONO / TRI IS PURCHASED AND INSTALLED WITH GEMAS MONOPHASE PUMPS, THE PUMP WARRANTY PERIOD IS EXTENDED FOR 2 YEARS FREE OF CHARGE.”**

## ISAVAR - Pool Pump Frequency Inverter

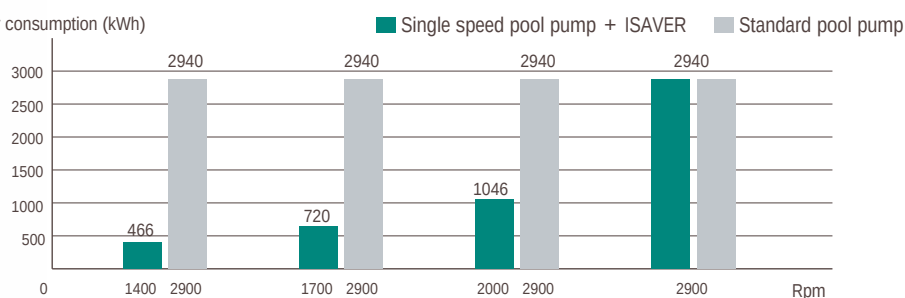
*"New Inverter Technology"*



**GEMAS "ISAVAR"** is the first "Touch Screen" frequency-inverter manufactured in the pool industry. By adjusting the running speed of the pool pump, it provides significant energy savings and operates silently. Additionally, it allows for automatic operation adjustment with different cycles within four time intervals throughout the day. The screen displays power consumption values corresponding to the set revolutions. It also offers the ability to adjust the speed during operation. Different models of the device are available for three-phase and single-phase motors (refer to the table for details). Max. capacity is 2,2 kW. The device includes dry contacts for various types of external controls. **PROVIDES SUBSTANTIAL ENERGY SAVINGS.**

| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • ISAVAR 1100  | 0111INV1100  | 1          |           |                       |
| • ISAVAR 1100C | 0111INV1100C | 1          |           |                       |
| • ISAVAR 2200  | 0111INV2200  | 1          |           |                       |
| • ISAVAR 2200C | 0111INV2200C | 1          |           |                       |

Power consumption (kWh)



ISAVAR Comparison Chart



(dBA)



### TECHNICAL SPECIFICATIONS

| MODEL           | ISAVAR 1100     | ISAVAR 2200    | ISAVAR 1100C  | ISAVAR 2200C  |
|-----------------|-----------------|----------------|---------------|---------------|
| Operating Temp. | -10 ~ 40°C      | -10 ~ 40°C     | -10 ~ 40°C    | -10 ~ 40°C    |
| Input Power     | 1ph AC          | 1ph AC         | 1ph AC        | 1ph AC        |
| Input Voltage   | 220V ~ 240V     | 220V ~ 240V    | 220V ~ 240V   | 220V ~ 240V   |
| Frequency       | 50 Hz           | 50 Hz          | 50 Hz         | 50 Hz         |
| Output Voltage  | Mono, 0 ~ 240V  | Mono, 0 ~ 240V | Tri, 0 ~ 240V | Tri, 0 ~ 240V |
| Output Power    | Max 1.1kW       | Max 2.2kW      | Max 1.1kW     | Max 2.2kW     |
| Output Current  | Max 6A          | Max 12A        | Max 4.5A      | Max 8A        |
| Pump Type       | Monophase       | Monophase      | Triphase      | Triphase      |
| Speed Range     | 1200 ~ 2900 rpm |                |               |               |

## Control Boards - Level Control

**LEVEL CONTROL BOARD;** Full electronic balance tank level regulator control system. Complete with electronic floater.

### Technical Characteristics:

- **Overflow Control:** In case of an overflow of balance tank, sends signal to sound alarm system and/or balance tank suction motorised valve, alarms and/or prevents the overflow.
- **Lower Level Control:** When there is no water in the balance tank, sends signal to pump contactor and terminates the pump operation.
- **Upper Level Control:** In case a water shortage in the balance tank, device controls the solenoid valve of the main water line and automatically delivers water to the system.



### MODELS:

**Level Control I,** Automatic water top up.

Complete with 3/4" solenoid valve and 1 electronic floater.

**Level Control II,** Automatic water top up and overflow alarm.

Complete with 3/4" solenoid valve, 2 electronic floater and sound alarm.

**Level Control III,** water top up, lower level and overflow alarm.

3/4" solenoid valve, 3 electronic floaters and sound alarm.

**Overflow Control,** Can be supplied by Ø50 or Ø63 motorized ball valve addition.



| Description                   | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|----------------|------------|-----------|-----------------------|
| • Level Control I             | <b>050741</b>  | 1          | 0,500     | 0,002                 |
| • Level Control II            | <b>050742</b>  | 1          |           |                       |
| • Level Control III           | <b>050743</b>  | 1          |           |                       |
| <b>For Overflow Control;</b>  |                |            |           |                       |
| • Ø50 mm motorized ball valve | <b>131115M</b> | 1          |           |                       |
| • Ø63 mm motorized ball valve | <b>131116M</b> | 1          |           |                       |



## Automatic pH - Redox Controller



06311N



06312N



06311E



Sensor holder

### GEMAS POOL DIRECTOR 2023 (Automatic pH-Redox Controller).

Complete with electrodes, electrode cables, flow cell and buffer solutions. Microprocessor controlled. Installed on a 507x705 plastic panel which has reservations for dosing pumps. **Dosing pumps are not included in the price. Please order dosing pumps with necessary capacities additionally.**

#### Technical Features:

- Microprocessor technology
- Touch-operated keypad
- ON-OFF and rational operation modes can be selected for pH and ORP separately
- Automatic calibration with chosen calibration solution
- Optional heat sensor
- Optional dosing pump level control
- Optional flow switch for flow control
- RS232 or RS485 outlets for optional DATA transfer



05083



05082

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • Pool Director - with board           | <b>06311N</b>  | 1          |           |                       |
| • Pool Director - w/out board          | <b>06312N</b>  | 1          |           |                       |
| • Additional heat sensor               | <b>063212N</b> | 1          |           |                       |
| • Additional dosing pump level control | <b>05082</b>   | 1          |           |                       |
| • Additional flow switch               | <b>05083</b>   | 1          |           |                       |

### GEMAS POOL DIRECTOR 2023 ECO (Automatic pH-Redox Controller)

Complete with two 1.5 lt/h or 3,0 lt/h - 1 bar peristaltic dosing pumps, electrodes, electrode cable, sensor holder, fixing accessories and buffer solutions. Microprocessor controlled.

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • Pool Director Eco, 1,5 lt/h          | <b>06310E</b>  | 1          |           |                       |
| • Pool Director Eco, 3,0 lt/h          | <b>06311E</b>  | 1          |           |                       |
| • Additional heat sensor               | <b>063212N</b> | 1          |           |                       |
| • Additional dosing pump level control | <b>05082</b>   | 1          |           |                       |
| • Additional flow switch               | <b>05083</b>   | 1          |           |                       |

## Free-Chlorine and pH Controller



**GEMAS pH and Free Chlorine Controller.** Free-chlorine and pH electrode fully assembled on the panel. Complete with flow switch, flow meter with proximity switch, acrylic Flow Cell, pHFree Chlorine - Temperature Sensors, Calibration solutions and Mounting Kit. IP65 protection, Residual chlorine ppm (= mg/l), redox (= mV) and pH measurement and control system. It can be remotely controlled from the mobile phone with the optional Wi-Fi module. It also shows instant water temperature. Dosage pumps can be mounted on the panel. **Dosing pumps are not included in the price. Please order dosing pumps with necessary capacities additionally.**

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>06420</b> | 1          |           |                       |

Free chlorine and pH in public swimming pools according to DIN 19643 (additionally REDOX should be preferred.) Automatic Control System is compulsory. FCL sensor is amperometric. Ionselective sensor can be produced upon request.

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## Free-Chlorine and pH Controller

### GEMAS pH, Redox and Free Chlorine Controller.

Free-chlorine and pH electrode fully assembled on the panel. Complete with flow switch, flow meter with proximity switch, acrylic Flow Cell, pH-Redox - Free Chlorine - Temperature Sensors, Calibration solutions and Mounting Kit. IP65 protection, Residual chlorine ppm (= mg/l), redox (= mV) and pH measurement and control system. It can be remotely controlled from the mobile phone with the optional Wi-Fi module. It also shows instant water temperature. Dosage pumps can be mounted on the panel. **Dosing pumps are not included in the price. Please order dosing pumps with necessary capacities additionally.**

| Description | Code  | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|-------------|-----------|-----------------------|
|             | 06422 | 1           |           |                       |

Free chlorine and pH in public swimming pools according to DIN 19643 (additionally REDOX should be preferred.) Automatic Control System is compulsory. FCL sensor is amperometric. Ionselective sensor can be produced upon request.



## Monoblock Automatic Control Systems with Dosing Pumps

**GEMAS Monoblock Measurement and Dosing Unit.** IP65 digital indicator, Complete with 10 l/h - 2 bar dosage pump integrated pH and ORP dosage units, sensors, sensor holders, calibration solutions. Assembled on panel.

### Technical Specifications:

- Microcontroller technology
- Automatic calibration with the selected calibration fluid
- Optional dosing pump level controls
- "Flow Switch" for optional flow control

| Description | Code    | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|-------------|-----------|-----------------------|
|             | 065MD03 | 1           |           |                       |

**GEMAS Monoblock Measurement and Dosing Unit.** IP65, digital indicator, integrated with 10 l/h - 2 bar dosage pumps. Complete with sensor, sensor holders, calibration solutions. PVC pump body, ceramic valve.

| Description | Code    | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|-------------|-----------|-----------------------|
| • pH        | 065MD01 | 1           | 3,164     | 0,009                 |
| • ORP       | 065MD02 | 1           | 3,156     | 0,009                 |



## GEMAS Solenoid Dosing Pumps

### GEMAS ANALOGUE SOLENOID DOSING PUMP

GEMAS Solenoid Dosing Pump 10 lt/5 bar. Membrane- Analog. Manually adjustable from 10% to 100%.

### GEMAS pH and ORP SOLENOID DOSING PUMP

GEMAS Solenoid Dosing Pump pH and ORP Control 10lt/5bar. 10LT/5 BAR Solenoid dosing pump. Complete with pH sensor, sensor holder, calibration solutions. Microcontroller technology, automatic calibration with calibration liquids, Optional dosing pump level controls, Flow Switch for optional flow control.

| Description                   | Code     | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|----------|-------------|-----------|-----------------------|
| • Analog Solenoid Dosing Pump | 06GM1005 | 1           |           |                       |
| • pH Solenoid Dosing Pump     | 065GM01  | 1           |           |                       |
| • ORP Solenoid Dosing Pump    | 065GM02  | 1           |           |                       |

**NEW !**



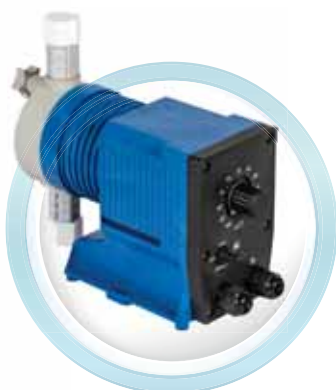
06GM1005 065GM01 065GM02

## Dosing Pumps



**GEMAS Dosing Pump.** Membrane type. Analogue. Manually adjustable from 10% to 100%.

| Description         | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------|-----------------|------------|-----------|-----------------------|
| • 2 lt / h - 12 Bar | <b>06MD0212</b> | 1          | 3,092     | 0,009                 |
| • 3 lt / h - 11 Bar | <b>06MD0311</b> | 1          | 3,092     | 0,009                 |
| • 5 lt / h - 9 Bar  | <b>06MD0509</b> | 1          | 3,092     | 0,009                 |
| • 8 lt / h - 5 Bar  | <b>06MD0805</b> | 1          | 3,092     | 0,009                 |
| • 10 lt / h - 4 Bar | <b>06MD1004</b> | 1          | 3,092     | 0,009                 |
| • 15 lt / h - 2 Bar | <b>06MD1502</b> | 1          | 3,092     | 0,009                 |



**GEMAS Vertical Dosing Pumps.** Membrane type. Analogue. Manually adjustable from 10% to 100%. Easily mounted on the chemical container.

| Description         | Code               | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------|--------------------|------------|-----------|-----------------------|
| • 2 lt / h - 12 Bar | <b>06T1202AB11</b> | 1          | 3,092     | 0,009                 |
| • 6 lt / h - 8 Bar  | <b>06T0806AB11</b> | 1          | 3,092     | 0,009                 |
| • 11 lt / h - 3 Bar | <b>06T0311AB11</b> | 1          | 3,092     | 0,009                 |
| • 22 lt / h - 2 Bar | <b>06T0222AB11</b> | 1          | 3,092     | 0,009                 |



**GEMAS Dosing Pump.** Peristaltic type. Analogue. Manually adjustable from 10% to 100%.

| Description          | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------|-----------------|------------|-----------|-----------------------|
| • 1,5 lt / h - 1 Bar | <b>06PD0302</b> | 1          |           |                       |
| • 3 lt / h - 1 Bar   | <b>06PD0301</b> | 1          |           |                       |

## Dosing Pumps Capacity Calculation

**Choosing the Dosing Pump:**

**A- Daily Chlorine Requirement:**

1- Loss From Swimmers: The number of swimmers should be determined or estimated. This number should be considered according to busiest day. Daily loss per swimmer in mediterranean region is 10 gr/day.

2- Loss From Sun Light (The Destructive effects of UV light on chlorine): This loss is on average 2,5 gr per each pool m<sup>3</sup> in mediterranean belt.

**Daily Chlorine Requirement (gr) =** The Number of Swimmers x 10 gr + Pool Volume (m<sup>3</sup>) x 2,5 gr For example: The Pool that 250 swimmer's daily use and 1000 m<sup>3</sup> pool volume. Daily Chlorine Requirement = 250 x 10 gr + 1000 m<sup>3</sup> x 2,5 gr/m<sup>3</sup> = 5000 gr

**B- Determining The Capacities of Chlorine and Dosing Pumps:**

**\* Minimum Dosing Pump Capacity (l/h) =** Daily Chlorine Requirement (gr/day) x 0,0015 It depends on the fact that the determined capacity equals to the daily need of chlorine with %12 sodium hypochlorid get dosed 12 hours period. If dosing period is wanted to be shortened, the capacity should be increased with same level of shortening. For example; dosing period is chosen at 8 hours, total capacity 12/8 = 1,5 times increased. The same capacity is also enough for PH pump. Pump pressure loss should be chosen minimum 2 bars.

**C- Determining The Capacity of Flocculant Dosing Pump:**

Flocculant should be dosed as far as possible from filter. It's suggested to be dosed from pump outlet.

**\* Minimum Capacity of Dosing Pump:** Pool Circulation Flow (m<sup>3</sup>/h) x 0,002 The dosing that technically required is to give enough quantity continuously. Too much and too fast dosing would cause blur of the pool water. Pump pressure loss should be chosen minimum 2 bars. For example; a pool which has 100 m<sup>3</sup> flow, flocculant dosing pump capacity (l/h) = 100 m<sup>3</sup>/h x 0,002 = 0,2 l/h. In this case the dosing pump which has 2 l/h capacity should work with 10%.

## Chemical Drums

**Polythene Chemical Drums.**

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| • 100 l     | <b>06811</b> | 1              | 5,086        | 0,145                    |
| • 200 l     | <b>06812</b> | 1              | 8,110        | 0,285                    |



## Chemical Drum Mixers

**Manual Mixer.** Made of PVC Plastic.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06831</b> | 1              | 0,260        | 0,001                    |



**Motorized Fast Mixer.** Made of PVC plastic. 1400 rpm speed fast mixer.  
0.18 KW / 220 V / 50 Hz. Shaft length: 600 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Fast Mixer  | <b>06832</b> | 1              | 10,260       | 0,137                    |



**Motorized Slow Mixer.** Made of PVC plastic. 70 rpm speed slow mixer.  
0.13 KW / 220 V / 50 Hz. Shaft length: 600 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Slow Mixer  | <b>06833</b> | 1              |              |                          |



06832

06833

## Spare Parts for Control Systems - Sensors

**pH ELECTRODE** : Complete with cable and, BNC socket.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06611</b> | 1              | 0,124        | 0,0006                   |



**REDOX ELECTRODE** : Complete with cable and, BNC socket.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06612</b> | 1              | 0,920        | 0,0006                   |



**Free Chlorine Electrode**, ion selective. 0 - 5 ppm measuring range.

| Description                               | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------|----------------|----------------|--------------|--------------------------|
| • F.C. Electrode Amperometric (Open cell) | <b>0642004</b> | 1              |              |                          |



## Spare Parts for Control Systems - Others



Heat sensor with 1,5 m cable

| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
|             | 063212N | 1          |           |                       |



PVC FLOW CELL : Ø20 mm, single.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 06631 | 1          | 0,048     |                       |



06633

Electrode Cell, Double.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
| • Single    | 06632 | 1          |           |                       |
| • Double    | 06633 | 1          | 0,980     |                       |



0642015



0642016

Electrode Chamber, Made of injected, triple - Flow Rate Controlled - Complete w/proximity switch.

| Description                           | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------|---------|------------|-----------|-----------------------|
| • Electrode Chamber for flow, pH, ORP | 0642015 | 1          |           |                       |
| • Electrode Chamber for FCL           | 0642016 | 1          |           |                       |



Sensor Holder Made of PVC. Easy connection Ø63 PVC Tube by Ø63 Tee. Also includes Ø63-Ø50 mm reducer for Ø50 mm pipe installation.

| Description                          | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|---------|------------|-----------|-----------------------|
| Sensor Holder for pH and ORP sensors | 0642017 | 1          |           |                       |



06511



06512

Redox Buffer Solution

| Description      | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|-------|------------|-----------|-----------------------|
| • 220 mv - 50 cc | 06511 | 1          | 0,032     |                       |
| • 468 mv - 50 cc | 06512 | 1          | 0,032     |                       |



06521



06522

pH Buffer Solution

| Description    | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|-------|------------|-----------|-----------------------|
| • pH 4 - 50 cc | 06521 | 1          | 0,032     |                       |
| • pH 7 - 50 cc | 06522 | 1          | 0,026     |                       |



Dosing pump level control with 1,5 m cable

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 05082 | 1          |           |                       |



05081

05083

Flow switch, 1,5 m cable

| Description                    | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|-------|------------|-----------|-----------------------|
| • Flow Switch 1 (Floater type) | 05081 | 1          |           |                       |
| • Flow Switch 2 (Paddle type)  | 05083 | 1          |           |                       |

PS. 05081 Can be used as floater switch. It will give signal only on open mode not on vertical mode.

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## Tablet Chlorine Dosing Systems

### CHLORINE DISPENSERS

Made of ABS plastic, floating type tablet chlorine dosing float. Adjustable dosing amount.

| Description                           | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|------------------|----------------|--------------|--------------------------|
| • Chlorine Dispenser Model 1-7 Tablet | <b>0619027</b>   | 1              | 0,290        | 0,004                    |
| • Chlorine Dispenser Model 2-6 Tablet | <b>0611504</b>   | 1              | 0,358        | 0,008                    |
| • Chlorine Dispenser Model 3-6 Tablet | <b>06190701</b>  | 1              |              |                          |
| • Chlorine Dispenser Model 4-6 Tablet | <b>06190701T</b> | 1              |              |                          |
| • With thermometer.                   |                  |                |              |                          |



**GEMAS CLT-167 CHLORINATOR.** ABS body, 2 kg tablet capacity. Dosage adjustment on the device. Used for pools of maximum 95 m<sup>3</sup> capacity. Off-line model can be installed in the pool circulation line with an easy by-pass.

| Description                                | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------|-------------------|----------------|--------------|--------------------------|
| • Off - Line                               | <b>069CLT167A</b> | 1              | 1,130        | 0,012                    |
| • On - Line                                | <b>069CLT167B</b> | 1              | 0,962        | 0,012                    |
| • Chlorinator Base, Inox for wall mounting | <b>069CLT01</b>   | 1              |              |                          |

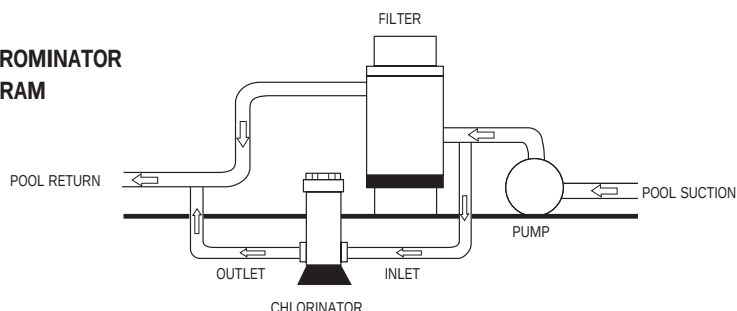


**GEMAS CLT-168 CHLORINATOR.** ABS body, 4 kg tablet capacity. Dosage adjustment on the device. Used for pools of maximum 150 m<sup>3</sup> capacity. Off-line model can be installed in the pool circulation line with an easy by-pass.

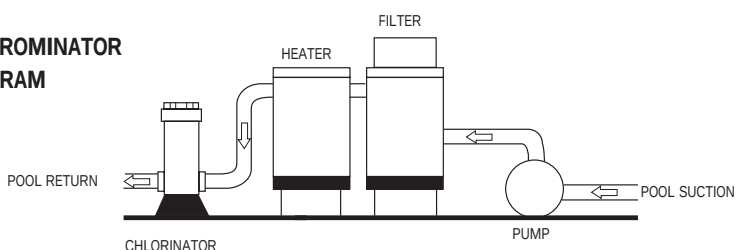
| Description  | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------|-------------------|----------------|--------------|--------------------------|
| • Off - Line | <b>069CLT168A</b> | 1              | 1,748        | 0,017                    |
| • On - Line  | <b>069CLT168B</b> | 1              | 1,626        | 0,017                    |



### OFFLINE CHLORINATOR/BROMINATOR ASSEMBLY DIAGRAM



### ONLINE CHLORINATOR/BROMINATOR ASSEMBLY DIAGRAM



## Chemical Drums

### Polythene Chemical Drums.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| • 100 l     | <b>06811</b> | 1              | 5,086        | 0,145                    |
| • 200 l     | <b>06812</b> | 1              | 8,110        | 0,285                    |



## Chemical Drum Mixers

### Manual Mixer. Made of PVC Plastic.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06831</b> | 1              | 0,260        | 0,001                    |



### Motorized Fast Mixer. Made of PVC plastic. 1400 rpm speed fast mixer. 0.18 KW / 220 V / 50 Hz. Shaft length: 600 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Fast Mixer  | <b>06832</b> | 1              | 10,260       | 0,137                    |



### Motorized Slow Mixer. Made of PVC plastic. 70 rpm speed slow mixer. 0.13 KW / 220 V / 50 Hz. Shaft length: 600 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Slow Mixer  | <b>06833</b> | 1              |              |                          |

## Spare Parts for Control Systems - Sensors

### pH ELECTRODE : Complete with cable and, BNC socket.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06611</b> | 1              | 0,124        | 0,0006                   |



### REDOX ELECTRODE : Complete with cable and, BNC socket.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>06612</b> | 1              | 0,920        | 0,0006                   |



### Free Chlorine Electrode, ion selective. 0 - 5 ppm measuring range.

| Description                               | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------|-----------------|----------------|--------------|--------------------------|
| • Membrane Replacement                    | <b>06420011</b> | 1              |              |                          |
| • Membrane Electrolite, 50 cc Free        | <b>06420012</b> | 1              |              |                          |
| Chlorine Electrode ion selective          | <b>0642001</b>  | 1              | 0,920        | 0,0006                   |
| • F.C. Electrode Amperometric (Open cell) | <b>0642004</b>  | 1              |              |                          |



## Puritron GSCN Salt-Water Chlorinators



Salt Water Chlorinators produce chlorine by electrolysis of pool water with salinity of teardrop. The device has a periodic cleaning cycle process (by switching polarity) against calcification inside electrode cell. Numerical screen shows the operation power by percentage and current value in amperes. According to total hardness of the pool water, Switching Polarity Cycle could be set from 1 to 8 hours. Factory Setting is once in every 6 hours. Device saves the total operation time as well as **measuring and showing salinity level**. **New design box facilitates easy access at the front panel for service**. **Wifi control over MODBUS is possible optionally by means of auxiliary connection**. **Electrodes are made of titanium and have a 14.000 hours long life**. It can be installed to every existing pool. All models can be used in seawater. The recommended salinity rate is 4000 ppm (4kg/m<sup>3</sup>). The approximate salinity in sea water is 35.000 ppm.

| Description                | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|---------------|------------|-----------|-----------------------|
| • Puritron GSCN-10, 10 g/h | <b>064253</b> | 1          |           |                       |
| • Puritron GSCN-15, 15 g/h | <b>064243</b> | 1          |           |                       |
| • Puritron GSCN-20, 20 g/h | <b>064263</b> | 1          |           |                       |
| • Puritron GSCN-30, 30 g/h | <b>064273</b> | 1          |           |                       |
| • Puritron GSCN-50, 50 g/h | <b>064293</b> | 1          |           |                       |

| Model              | Pool Volume (m <sup>3</sup> ) | Cl Prod. (g/h) | Salt (kg/m <sup>3</sup> ) | Voltage (VAC) | Voltage (VDC) | Current DC (A) | Energy Consumption (W) |
|--------------------|-------------------------------|----------------|---------------------------|---------------|---------------|----------------|------------------------|
| Puritron GSCN - 10 | 0 - 50                        | 10             | 4,0                       | 220           | 24            | 2,0            | 50                     |
| Puritron GSCN - 15 | 15 - 75                       | 15             | 4,0                       | 220           | 24            | 3,0            | 75                     |
| Puritron GSCN - 20 | 40 - 100                      | 20             | 4,0                       | 220           | 24            | 4,0            | 100                    |
| Puritron GSCN - 30 | 90 - 150                      | 30             | 4,0                       | 220           | 24            | 6,0            | 150                    |
| Puritron GSCN - 50 | 150 - 250                     | 50             | 4,0                       | 220           | 24            | 10,0           | 250                    |



### pH Kontrollü

In addition to above Salt Chlorinator specifications, the required software are added to enable automatic pH control. The new compact design allows a monobloc peristaltic pH dosing pump (1.5 lt/h-1 bar) embedded to chlorinator unit. Complete with sensor holder pH sensor and required pipe fittings. 2 X 16 LCD screen, water temperature measurement options.. Please ask price for larger capacity dosing pumps.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • Puritron GSCN-101, pH Control | <b>0642532</b> | 1          |           |                       |
| • Puritron GSCN-151, pH Control | <b>0642432</b> | 1          |           |                       |
| • Puritron GSCN-201, pH Control | <b>0642632</b> | 1          |           |                       |
| • Puritron GSCN-301, pH Control | <b>0642732</b> | 1          |           |                       |
| • Puritron GSCN-501, pH Control | <b>0642932</b> | 1          |           |                       |



### pH Control Panel

Supplied as a complete system, including an integrated pH control Membrane-type dosing unit with preferred capacity, pH sensor, sensor holder, calibration solutions, all pre-assembled and mounted on a panel.

| Description                           | Code          | Pieces/box |
|---------------------------------------|---------------|------------|
| • Puritron GSCN-101, pH Control Panel | <b>064153</b> | 1          |
| • Puritron GSCN-151, pH Control Panel | <b>064143</b> | 1          |
| • Puritron GSCN-201, pH Control Panel | <b>064163</b> | 1          |
| • Puritron GSCN-301, pH Control Panel | <b>064173</b> | 1          |
| • Puritron GSCN-501, pH Control Panel | <b>064193</b> | 1          |

## Puritron GSCN Salt-Water Chlorinators

### pH & Redox Control

In addition to Salt Chlorinator specifications, the required software are added to enable automatic pH and ORP control. The new compact design allows a monobloc peristaltic pH dosing pump embedded to chlorinator unit. Complete with sensor holder pH and ORP sensor and required pipe fittings. 4 X 20 LCD screen, water tempeture measurement options. Please ask price for larger capacity dosing pumps. (0642932 model is produced with 3lt/h - 1bar pump)

| Ürün                                    | Kod           | Stand. Paket | Ağırlık Kg | Hacim m³ |
|-----------------------------------------|---------------|--------------|------------|----------|
| • Puritron GSCN-102, pH & Redox Control | <b>064254</b> | 1            |            |          |
| • Puritron GSCN-152, pH & Redox Control | <b>064244</b> | 1            |            |          |
| • Puritron GSCN-202, pH & Redox Control | <b>064264</b> | 1            |            |          |
| • Puritron GSCN-302, pH & Redox Control | <b>064274</b> | 1            |            |          |
| • Puritron GSCN-502, pH & Redox Control | <b>064294</b> | 1            |            |          |



Sensor holder

### pH & Redox Control Panel

Complete with integrated pH and ORP dosing unit with preferred dosing pump, pH sensor, sensor holder, calibration solutions. Mounted on the panel.

| Description                                   | Code          | Pieces/ box |
|-----------------------------------------------|---------------|-------------|
| • Puritron GSCN-102, pH & Redox Control Panel | <b>064154</b> | 1           |
| • Puritron GSCN-152, pH & Redox Control Panel | <b>064144</b> | 1           |
| • Puritron GSCN-202, pH & Redox Control Panel | <b>064164</b> | 1           |
| • Puritron GSCN-302, pH & Redox Control Panel | <b>064174</b> | 1           |
| • Puritron GSCN-502, pH & Redox Control Panel | <b>064194</b> | 1           |



For electrode 50g/h models



For electrode 10-15-20-30 gr/h models



## Puritron On-Line Salt-Water Chlorinators



Product Video

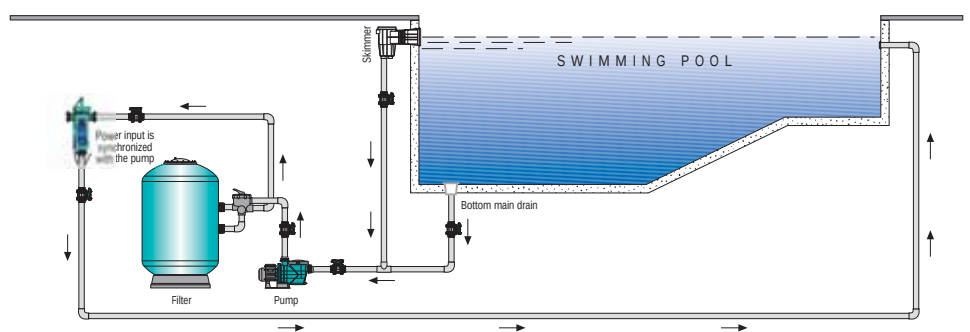
**“On-Line”** devices with a monobloc body that produce chlorine from salt using electrolysis, providing salt concentration in the pool water at the same rate as tear salinity. The device has self-clean feature in order to clean electrode against calcification at periodic intervals. Digital screen; temperature value of water; LED display screen shows the working percentage rate. Automatic polarity changing of the electrodes for cleaning purposes which can be adjusted between 1-8 hours according to the hardness level of the water. The factory setting is every 6 hours. During operation, the flow cell is illuminated by colored LEDs. LEDs change color during polarity change. In the event of an alarm, the red-light flashes. The device records the total working hours in its memory.

**Electrodes are made of titanium and have an average life of 14,000 hours.** It can be easily installed in any existing pool. The device can be mounted on the right or left side, depending on preference. All models can also be used with seawater. Recommended min. salinity rate is 4,000 ppm (4 kg/m<sup>3</sup>). The salinity rate in sea waters is 35.000 ppm on average.

| Description         | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------|-----------------|------------|-----------|-----------------------|
| • Puritron GSCOL-10 | <b>0642500L</b> | 1          | 5,650     | 0,035                 |
| • Puritron GSCOL-15 | <b>0642550L</b> | 1          | 5,650     | 0,035                 |
| • Puritron GSCOL-20 | <b>0642600L</b> | 1          | 5,650     | 0,035                 |
| • Puritron GSCOL-30 | <b>0642700L</b> | 1          | 5,650     | 0,035                 |

| Model                  | Pool Volume (m <sup>3</sup> ) | Cl Prod. (g/h) | Salt (kg/m <sup>3</sup> ) | Voltage (VAC) | Voltage (VDC) | Current DC (A) | Energy Consumption (W) |
|------------------------|-------------------------------|----------------|---------------------------|---------------|---------------|----------------|------------------------|
| Puritron GSC, GSCOL-10 | 0 - 50                        | 10             | 4,0                       | 220           | 24            | 2,0            | 50                     |
| Puritron GSC, GSCOL-15 | 15 - 75                       | 15             | 4,0                       | 220           | 24            | 3,0            | 75                     |
| Puritron GSC, GSCOL-20 | 40 - 100                      | 20             | 4,0                       | 220           | 24            | 4,0            | 100                    |
| Puritron GSC, GSCOL-30 | 90 - 150                      | 30             | 4,0                       | 220           | 24            | 6,0            | 150                    |

### INSTALLATION DIAGRAM:



## Salt for Salt-Chlorine Generators



| Description           | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|--------------|------------|-----------|-----------------------|
| • Granule Salt, 25 kg | <b>02317</b> | 1          |           |                       |
| • Tablet Salt, 25 kg  | <b>02318</b> | 1          |           |                       |

## Puritron Salt-Water Chlorinators

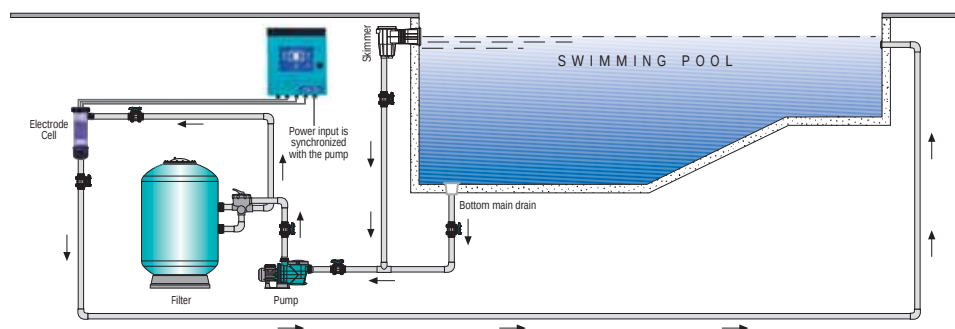
Designed for midsize hotel and apartment complex pools. The device produces chlorine by electrolysis of pool water with salinity of teardrop. It has a standard cleaning cycle process against calcification. **Electrodes are made of titanium and have a 20.000 hours long life.** Corrosion resist stainless steel body. Electrodes cell made of methacrylate and transparent. It has a LCD screen. Device is switched mode. All models can be used with seawater.

| Description          | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------|--------------|------------|-----------|-----------------------|
| • Puritron GSC - 75  | <b>06435</b> | 1          | 15,000    |                       |
| • Puritron GSC - 100 | <b>06436</b> | 1          | 20,000    |                       |
| • Puritron GSC - 150 | <b>06437</b> | 1          | 25,000    |                       |

| Model  | Pool Volume (m <sup>3</sup> ) | Chlorine Production (g/h) | Voltage (VAC) | Voltage (VDC) | Current (A) | Power Consumption (W) | PVC Pipe (mm) | Weight (kg) | Device Dimensions (mm) | Cell Measurements (mm) |
|--------|-------------------------------|---------------------------|---------------|---------------|-------------|-----------------------|---------------|-------------|------------------------|------------------------|
| GSC75  | 200 - 250                     | 75                        | 220           | 24 max.       | 100         | 350                   | 63            | 15          | 300x250x150            | 140 x 531              |
| GSC100 | 250 - 300                     | 100                       | 220           | 24 max.       | 150         | 500                   | 90            | 20          | 300x250x150            | 140 x 531              |
| GSC150 | 300 - 350                     | 150                       | 220           | 24 max.       | 200         | 670                   | 90            | 25          | 300x250x150            | 140 x 531              |

**Note:** The above pool capacities have been calculated with the principle that the pool operates for 12-14 hours per day.

### INSTALLATION DIAGRAM:



### Salt - Water Chlorinator Capacity Measurement:

#### A- Daily Chlorine Requirement:

1- Loss From Swimmers: The number of swimmers should be determined or estimated. This number should be considered according to busiest day. Daily lost per swimmer in mediterranean Region is 10 gr/day.

2- Loss From Sun Light (The Destructive effects of UV light on chlorine): This lost is on average 2,5 gr per each pool m<sup>3</sup> in mediterranean belt.

**Daily Chlorine Requirement (gr) =** The Number of Swimmers x 10 gr + Pool Volume (m<sup>3</sup>) x 2,5 gr  
For example: The Pool that 250 swimmer's daily use and 1000 m<sup>3</sup> pool volume.  
Daily Chlorine Requirement = 250 x 10 gr + 1000 m<sup>3</sup> x 2,5 gr/m<sup>3</sup> = 5000 gr

With 12 hours filtration = 5000 gr/12h = 416 gr/h ► GSC 500

With 24 hours filtration = 5000 gr/24h = 200 gr/h ► GSC 250



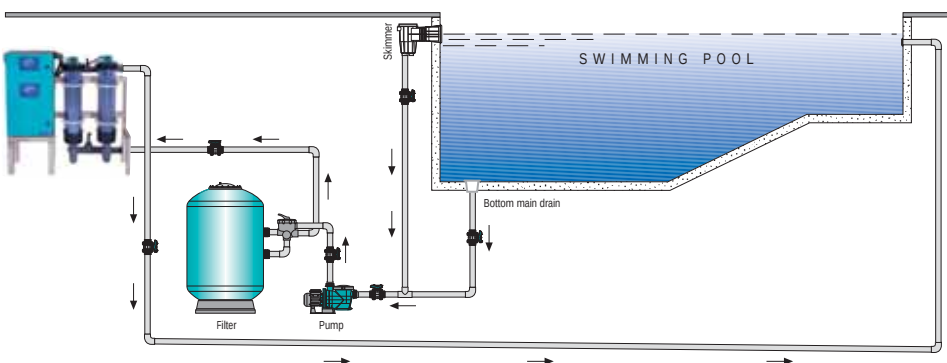
## Puritron-GSC Salt - Water Chlorinators

Designed for large public and competition pools. The device produces chlorine by electrolysis of pool water with salinity of teardrop. It has a standart cleaning cycle process against calcification. **Electrodes are made of titanium and have 20.000 hours long life.** Corrosion resistant stainless steel frame. Transparent electrode cells made of PVC. It has a graphical LCD screen. Device is switched mode. All models can be used with seawater. In addition to all above specifications, this device has electronic current control as well as heat and flow control.

| Description           | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|--------------|------------|-----------|-----------------------|
| • Puritron GSC - 250  | <b>06438</b> | 1          | 40,000    |                       |
| • Puritron GSC - 500  | <b>06439</b> | 1          | 60,000    |                       |
| • Puritron GSC - 750  | <b>06440</b> | 1          | 80,000    |                       |
| • Puritron GSC - 1000 | <b>06446</b> | 1          | 100,000   |                       |

| Model   | Chlorine Production (g/h)<br>(5kg/m <sup>3</sup> salt) | Voltage (VAC) | Voltage (VDC) | Current (A) | Power Consumption (W) | PVC Pipe (mm) | Cell Measurements (mm) |
|---------|--------------------------------------------------------|---------------|---------------|-------------|-----------------------|---------------|------------------------|
| GSC250  | 250                                                    | 220           | 24 max.       | 50          | 1.350                 | 63            | 750 x 450 x 900        |
| GSC500  | 500                                                    | 220           | 24 max.       | 100         | 2.540                 | 63            | 1000 x 450 x 900       |
| GSC750  | 750                                                    | 220           | 24 max.       | 150         | 3.900                 | 90            | 1250 x 450 x 900       |
| GSC1000 | 1000                                                   | 220           | 24 max.       | 200         | 5.000                 | 90            | 1500 x 450 x 900       |

### INSTALLATION DIAGRAM:



Electrode cells made of transparent PVC tube





# Galatasaray Kalamis Facilities

## Indoor Swimming Pool, Sponsored by Gemas;

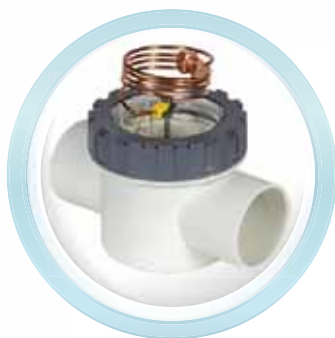
### Automatically controlled with a Gemas Puritron & “GSC 500” and “Pool Director”





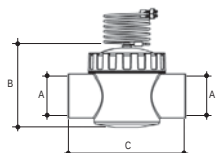
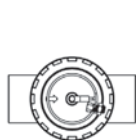
## Salt-Water Chlorinators - Anodic Protection

In pools using salt-chlorine generators, installation of this device is used to prevent electrolytic corrosion of stainless-steel materials. The electric connection is made to the pump's control panel ground/earth point.



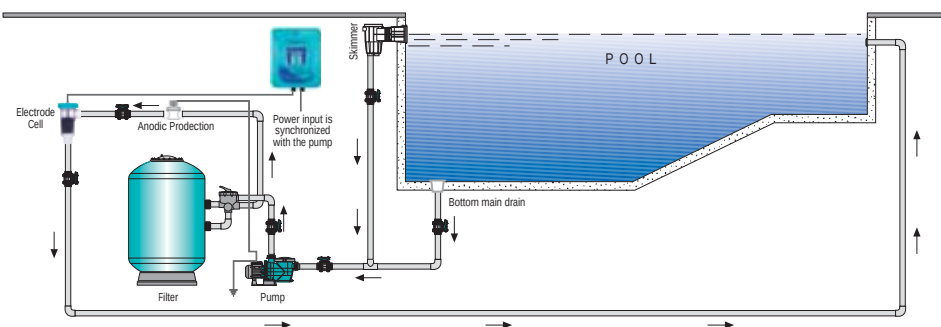
- Easy to install.
- Provides "Electric Shock" protection in fiberglass pools.
- Maximum 4 bars - 63 body
- Transparent cover for anode control
- Pure zinc, its average life is 3 years

| Description            | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------|--------------|------------|-----------|-----------------------|
| Ø 63 Anodic Protection | <b>06423</b> | 1          |           |                       |



| TYPE     | DIMENSIONS |     |     |     |
|----------|------------|-----|-----|-----|
|          | CONNECTION | A   | B   | C   |
| GDF50-1E | 63 mm      | Ø63 | 129 | 190 |

### INSTALLATION DIAGRAM:



## Salt-Water Chlorinators - Electrode Cleaning

"SCALEX" Anti-Lime for Salt Chlorine Generators. One of the common problems in pools using a salt-chlorine generator is calcification on the electrode. This problem is often encountered especially in pools using hard water or sea water. In such cases, regular use of SCALEX provides a definitive solution.

Initial dose: 2,5 l/100 m<sup>3</sup> pool water.

This dose should be doubled in pools using hard water.

Consecutive use dose 2,5 l/6 months.



| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 5 l       | <b>075327</b> | 1          | 5,000     | 0,001                 |
| • 10 l      | <b>075328</b> | 1          | 10,000    | 0,007                 |
| • 20 l      | <b>075329</b> | 1          | 20,000    | 0,028                 |

## Salt-Water Chlorinators - Spare Parts

| Description                                                                                                                                                | Code      | Pieces/<br>box |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|
|  GSC10 Bipolar Electrode <b>(Old)</b>                                     | 06430YE01 | 1              |
|  GSC15 Electrode Cell-Yellow Solid Electrode Connection <b>(Old)</b>      | 06428YE01 | 1              |
|  GSC20 Bipolar Electrode <b>(Old)</b>                                     | 06425YE01 | 1              |
|  GSC30 Bipolar Electrode <b>(Old)</b>                                     | 06426YE01 | 1              |
|  GSC Electrode Housing Nut <b>(Old)</b>                                   | 0643103   | 1              |
|  GSC Electrode Oring <b>(Old)</b>                                         | 0643105   | 1              |
|  GSC Electrode Connection Cable <b>(Old)</b>                              | 0643113   | 1              |
|  GSC10 Bipolar Electrode (with Pin) <b>(New)</b>                          | 06430YE   | 1              |
|  GSC15 Electrode Cell-Yellow (with Pin) Electrode Connection <b>(New)</b> | 06428YE   | 1              |
|  GSC20 Bipolar Electrode (with Pin) <b>(New)</b>                         | 06425YE   | 1              |
|  GSC30 Bipolar Electrode (with Pin) <b>(New)</b>                        | 06426YE   | 1              |
|  GSC Electrode Housing Nut <b>(New)</b>                                 | 0643117   | 1              |
|  GSC Electrode Oring <b>(New)</b>                                       | 860488    | 1              |
|  GSC Electrode Connection Cable <b>(New)</b>                            | 0643104   | 1              |
|  GSC 10-20-30 Electrode Housing                                         | 0643102   | 1              |
|  GSC 230 VAC Cable                                                      | EB71549   | 1              |
|  GSC 50 Electrode                                                       | 0643401   | 1              |
|  GSC 75 Electrode                                                       | 0643501   | 1              |
|  GSC 100 Electrode                                                      | 0643601   | 1              |
|  GSC 150 Electrode                                                      | 0643701   | 1              |
|  GSC 250-500 Electrode                                                  | 0643801   | 1              |
|  GSC 50-100 Electrode Housing                                           | 0643402   | 1              |
|  GSC 75-150 Electrode Housing                                           | 0643403   | 1              |



Old Electrode



Nut for Old Electrode



New Electrode



Nut for New Electrode

## Ultraviolet UV-C Disinfection Systems



06NTUV40T

Ultraviolet disinfection systems work with the principle of lethal effects of 220-280 nm wave length ultraviolet lights on living organisms. This wave-length ultraviolet lights require a certain contact time to kill microorganisms by destroying their cell walls. The UV devices are designed to provide this contact time according to the given flow rate.

UV radiation is considered in 4 spectrum: UV-A, UV-B, UV-C and vacuum UV. UV-C spectrum is used for water disinfection with the wave length as specified above.

### Advantages of UV-C System :

- Reduces Chlorine and chemical consumption by 50% - 80%.
- Effective for all microorganisms.
- Eliminates all the side effects caused by chlorine (skin irritation, eye burn, allergy, asthma and similar side effects)
- Destroys all bound chlorine compounds (= chloramines) and other harmful organic compounds.
- Reduces all chemical usage and leaves no harmful waste in water.
- Low operating cost, and eco-friendly technology.

Devices below are designed for private pools.

All models are 316L quality stainless steel body and enables + 35% radiation efficiency. Devices are complete with **timers** that shows bulb operating life. Device gives warning when bulb completes their lifespan. Also, there is a **flow switch (circuit breaker)** at the outlet of 130 watt device that disables the bulb when pool circulation stops. The **AMALGAM** bulb that provides the most effective UV-C radiation is used in this model. Max. operating pressure is 2 bar. Bulb lifespan is 9.000 hours.



06NTUV130TF

| Description                                                              | Code               | Pieces/box |
|--------------------------------------------------------------------------|--------------------|------------|
| • Pool UV-C 40 Device with Timer up to 40 m <sup>3</sup>                 | <b>06NTUV40T</b>   | 1          |
| • Pool UV-C 75 Device, with Timer up to 75 m <sup>3</sup>                | <b>06NTUV75T</b>   | 1          |
| • Pool UV-C 130 Device, with Timer, Flow Switch up to 150 m <sup>3</sup> | <b>06NTUV130TF</b> | 1          |

| Technic Specifications             | NT-UV40-T           | NT-UV75-T           | NT-UV130-TF         |
|------------------------------------|---------------------|---------------------|---------------------|
| Pool Volume (m <sup>3</sup> )      | 40                  | 75                  | 150                 |
| Max. Flow Rate (m <sup>3</sup> /h) | 20                  | 25                  | 30                  |
| Max. Working Pressure (bar)        | 3                   | 3                   | 3                   |
| Diameter (mm)                      | 72                  | 72                  | 72                  |
| Length (cm)                        | 60                  | 100                 | 100                 |
| Outlet Diameter (mm)               | 63-50               | 63-50               | 63-50               |
| Stainless Steel                    | 316L                | 316L                | 316L                |
| Electronic Ballast                 | 120-240V AC 50/60Hz | 120-240V AC 50/60Hz | 120-240V AC 50/60Hz |
| Max. Current (Amp)                 | 0,27                | 0,5                 | 1,1                 |
| Bulb Power (W)                     | 40                  | 75                  | 130                 |
| Wave Length (nm)                   | 253,7               | 253,7               | 253,7               |
| Timer                              | Available           | Available           | Available           |
| Bulb Change Warning                | Available           | Available           | Available           |
| Flow Switch                        | -                   | -                   | Available           |
| Chemical Usage Decrease            | 80%                 | 80%                 | 80%                 |
| Weigh (Kg)                         | 4                   | 5                   | 5,5                 |
| Package Size (mm)                  | 260 x 110 x 550     | 280 x 150 x 1010    | 280 x 150 x 1010    |

## Ultraviolet UV-C Disinfection Systems

**Blue lagoon**

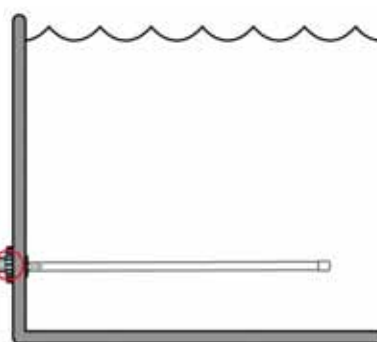


**This UV-C device is designed for Water Tanks.** It's complete with 10 meters cable and installation kit. In case of any problem of installation to wall, it can be placed freely into water tank. It is resistant to sea water. Tank connection set is not included in price.

| Description                    | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|------------------|------------|-----------|-----------------------|
| • UV-C Device, for Water Tanks | <b>06C100120</b> | 1          |           |                       |
| • UV-C Device Montage Kit      | <b>06C100121</b> | 1          |           |                       |



Tank Connection Set



| Technic Specifications              | B714404039581               |
|-------------------------------------|-----------------------------|
| Diameter (mm)                       | 35                          |
| Length (cm)                         | 80                          |
| Electronic Ballast                  | 230V AC 50/60Hz             |
| Max. Current (Amp)                  | 0,57                        |
| Bulb Power (Watt)                   | 75                          |
| Wave Length                         | 253,7                       |
| Bulb Voltage (V)                    | 97                          |
| Bulb Current (Amp)                  | 0,80                        |
| UV-C 100h output (W)                | 25                          |
| μW/cm <sup>2</sup> 1 meter distance | 230                         |
| Bulb Type                           | Van Erp UV-C Budget 75 Watt |
| Weigh (Kg)                          | 2                           |
| Package Size (mm)                   | 70 x 220 x 840              |

## Ozone Generators - CORONA DISCHARGE



06421 - 06424

**GEMAS HYDROZONE Corona Discharge Ozone Generators.** The ozone generated is vacuumed and introduced to the system by injector. Operates with free air suction. Complete with the injector with by-pass valve water trap, flow meter and active carbon filtration for discharge ozone (see.pg 186). Installation of static mixer is recommended. (see.pg 186).

| Description           | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|--------------|------------|-----------|-----------------------|
| • HOZ CD-05, 5 gr/h   | <b>06421</b> | 1          |           |                       |
| • HOZ CD-15, 15 gr/h* | <b>06424</b> | 1          |           |                       |
| • HOZ CD-08, 8 gr/h   | <b>06451</b> | 1          |           |                       |
| • HOZ CD-25, 25 gr/h* | <b>06452</b> | 1          |           |                       |

(\* Must be installed with oxygen concentrator.)



**GEMAS HYDROZONE Corona Discharge Compact Ozone Systems.** 5 g/h capacity, complete with jet pump, automatic gas discharge valve, PVC contact tank, deoxygenation active carbon tank, injector, PVC water trap tank, PVC base and column. Complete with necessary mechanical and electrical installation. It can be use with oxygen concentrator.

| Description                   | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------------|------------|-----------|-----------------------|
| HOZ CD-05, 5gr/h Compact Unit | <b>06421C</b> | 1          |           |                       |



## Ozone Generators - CORONA DISCHARGE

### GEMAS HYDROZONE Corona Discharge COMPACT Ozone Systems.

For 15 gr/h and higher models must be installed with; oxygen concentrator, ozone resistant deozone contact tank, automatic gas discharge valve and excessive ozone-destructive filter. Below you can see the package systems that are easy to install existing pools. Required amount of quartz sand, and automatic pH and ORP control systems are included in the package price.

| Description                         | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------|---------------|----------------|--------------|--------------------------|
| • HOZ CDP-15, 15 gr/h-2" connection | <b>06424P</b> | 1              |              |                          |
| • HOZ CDP-20, 20 gr/h-2" connection | <b>06425P</b> | 1              |              |                          |
| • HOZ CDP-50, 50 gr/h-3" connection | <b>06427P</b> | 1              |              |                          |



## Oxygen Concentrator

| Description                       | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------|---------------|----------------|--------------|--------------------------|
| • 5 l/h (for 5 - 20 gr/h devices) | <b>064201</b> | 1              |              |                          |
| • 10 l/h (for 50 gr/h devices)    | <b>064203</b> | 1              |              |                          |



## Oxygen Cone

It can be used effectively in all application areas where oxygen need is critical (waste water treatment plants, dam lakes where water is supplied, rivers, lakes and ponds open to eutrophication and pollution in recreational areas, fish farming farms, which have a critical place in the food chain, etc.). It is a specially designed unit that can maximize the oxygenation level (super oxygenation) in the said environments at very high rates compared to its equivalents.

| Description                                   | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Ø900 mm Oxygen Cone Max Op. Pressure 2 bar  | <b>064400</b> | 1              |              |                          |
| • Ø1000 mm Oxygen Cone Max Op. Pressure 2 bar | <b>064401</b> | 1              |              |                          |
| • Ø1200 mm Oxygen Cone Max Op. Pressure 2 bar | <b>064402</b> | 1              |              |                          |
| • Ø1400 mm Oxygen Cone Max Op. Pressure 2 bar | <b>064403</b> | 1              |              |                          |
| • Ø1600 mm Oxygen Cone Max Op. Pressure 2 bar | <b>064404</b> | 1              |              |                          |



## Ozone Injectors

**Ozone Injectors.** The ozone generated is vacuumed and introduced to the system by injectors. Operates with free air suction. It is made of PVDF materials and resistant to all kinds of chemicals.

| Description                                           | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------|--------------|----------------|--------------|--------------------------|
| • Venture-3/4"-1/4", center 1-3 m <sup>3</sup> /h     | <b>06441</b> | 1              |              |                          |
| • Venture-1"-1/2", center 3-10 m <sup>3</sup> /h      | <b>06442</b> | 1              |              |                          |
| • Venture-1 1/4"-1/2", center 10-25 m <sup>3</sup> /h | <b>06443</b> | 1              |              |                          |
| • Venture-2"-1/4", center 30-50 m <sup>3</sup> /h     | <b>06444</b> | 1              |              |                          |



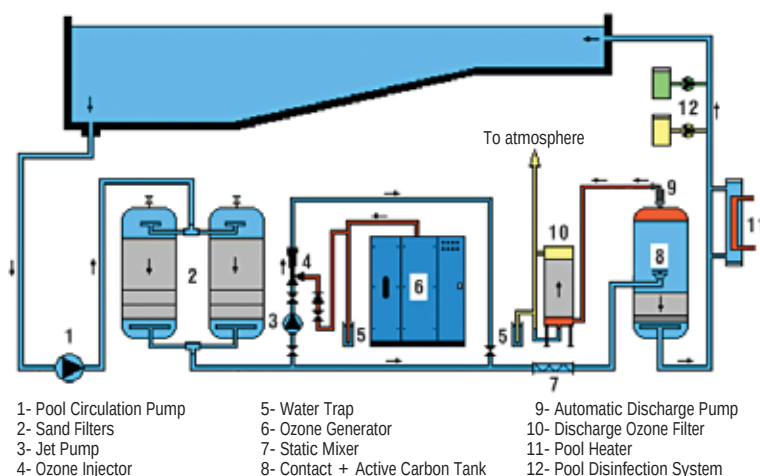
## Ozone Generators - CORONA DISCHARGE



| Ozone Capacity (g/h)        | Pool Flow Rate (m³/h) |           | Recommended Pool Volume (m³) |           | Contact + Deoxygenation Tank Diameter Ø (mm) - h (mm) |
|-----------------------------|-----------------------|-----------|------------------------------|-----------|-------------------------------------------------------|
|                             | Partial Flow          | Full Flow | Partial Flow                 | Full Flow |                                                       |
| 15                          | 75                    | 15        | 375                          | 75        | Ø 615 - 1550                                          |
| 25                          | 150                   | 25        | 750                          | 150       | Ø 1250 - 2500                                         |
| 40                          | 200                   | 40        | 1000                         | 200       | Ø 1400 - 2500                                         |
| 50                          | 250                   | 50        | 1250                         | 250       | Ø 1400 - 2500                                         |
| (Average Circ Time: 5 Hrs.) |                       |           |                              |           |                                                       |

PS: Above values must increase 10% for indoor pools.

### Full flow ozone system: with contact and deoxygenation tank



### OZONE DOSAGE:

|             |                                                 |
|-------------|-------------------------------------------------|
| UP to 32°C: | 0,8 g/m³ per system flow (For middle busy pool) |
|             | 1,0 g/m³ per system flow (For busy pool)        |
| Above 32°C: | 1,2 g/m³ per system flow (For middle busy pool) |
|             | 1,5 g/m³ per system flow (For busy pool)        |

Ozone Contact Time: 2 min.

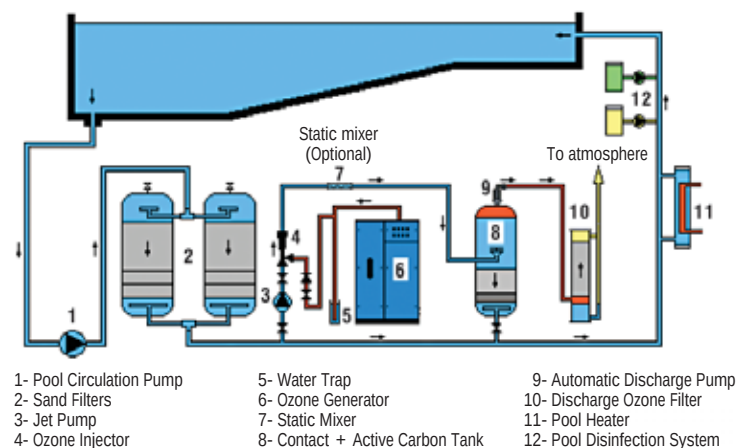
Active Carbon Dept: Min. 500 mm



WATER TRAP  
(Pls. see 186)

### Partial flow ozone system: with contact and deoxygenation tank

Partial Flowrate: 20% of Total Flowrate



STATIC MIXER  
(Pls. see 186)

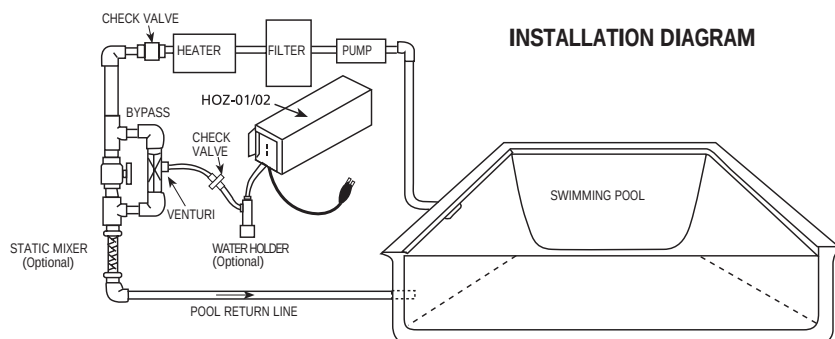
## Ozone Generators with UV Method

### GEMAS HYDROZONE OZONE GENERATOR (With UV Method).

The ozone generated is vacuumed and introduced to the system by venturi. Complete with venturi + by-pass valve. Can be easily installed in existing swimming pools. Recommended for residential pools.



| Description                                    | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|--------------|-------------|-----------|-----------------------|
| • HOZ-01, up to 90 m <sup>3</sup> - 0,248 g/h  | <b>06411</b> | 1           | 13,000    | 0,051                 |
| • HOZ-02, up to 150 m <sup>3</sup> - 0,437 g/h | <b>06412</b> | 1           | 14,000    | 0,051                 |



### UV-Ozone Spare Bulb For GEMAS HYDROZONE Ozone Generator.

| Description | Code          | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|-------------|-----------|-----------------------|
|             | <b>064101</b> | 1           | 0,616     | 0,003                 |



**Water Trap for Ozone Generator.** Prevents back flow of water to the device when the system is shut down.

| Description | Code          | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|-------------|-----------|-----------------------|
|             | <b>064102</b> | 1           |           |                       |
|             | <b>064103</b> | 1           |           |                       |



064102

064103

**Static Mixer.** Provides evenly diffusion of ozone in water flow.

| Description | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|-------------|-----------|-----------------------|
| • 1,5"      | <b>0641031</b> | 1           |           |                       |
| • 2"        | <b>0641032</b> | 1           |           |                       |
| • 2,5"      | <b>0641033</b> | 1           |           |                       |
| • 3"        | <b>0641034</b> | 1           |           |                       |



0641031

**GEMAS CORONA Ozone Discharge Valve.** Ozone resistant.

| Description           | Code           | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|----------------|-------------|-----------|-----------------------|
| 0,5, 316 Inox Floater | <b>0641041</b> | 1           | 0,616     | 0,003                 |



## Ozone + Ultraviolet Combined Disinfection Systems

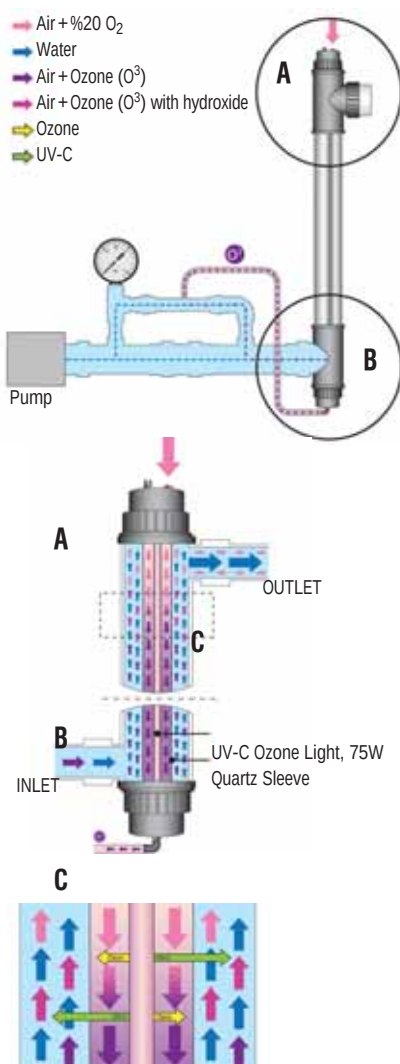


With the Ozone + UV Device; ozone generated inside special wave length UV bulb is vacuumed and introduced to the system by injector and transferred into pool circulation. On the other hand, it can execute the disinfection process by direct radiation to pool water from the same ozone bulb's quartz housing. Device is complete with the bypass valve and injector. It can easily be installed into existing pool installations. Device body is 316L stainless steel.

It has timer, and gives signal when bulb's lifespan is over. Bulb power is 75 Watt, radiation power is 25 Watt, and Ozone output is 0,6 g/h.

The recommended pool capacity by the manufacturer is 75 m<sup>3</sup>. It can reduce the chlorine usage up to 90%. Ozone helps destroying sun cream, cosmetics, urine, and sweat in the water. After these process UV-C exposed pool water eliminates the residual ozone through disinfection.

| Description                    | Code       | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|------------|------------|-----------|-----------------------|
| Ozon + UV-C Device (Gemas OEM) | 06NTUV87TO | 1          | 7,700     |                       |



| Technic Specifications              | NT-UV87-T0          |
|-------------------------------------|---------------------|
| Pool Volume (m <sup>3</sup> )       | 90                  |
| Max. Flow Rate (m <sup>3</sup> /h)  | 25                  |
| Max. Working Pressure (bar)         | 3                   |
| Diameter (mm)                       | 72                  |
| Length (cm)                         | 100                 |
| Outlet Diameter (mm)                | 63                  |
| Stainless Steel                     | 316L                |
| Electronic Ballast                  | 120-240V AC 50/60Hz |
| Max. Current (Amp)                  | 0,60                |
| Bulb Power (W)                      | 87                  |
| Wave Length (nm)                    | 253,7               |
| Bulb Voltage (V)                    | 97                  |
| Bulb Current (Amp)                  | 0,90                |
| UV-C 100 h outlet (W)               | 25                  |
| μW/cm <sup>2</sup> 1 meter distance | 144                 |
| Bulb Type                           | Ozone lamp 87 W     |
| Ozone                               | Exist - 0,6 gr/h    |
| Setting Time                        | Exist               |
| Bulb Change Warning                 | Exist               |
| Chemical Usage Decrease             | 95%                 |
| Weigh (Kg)                          | 7,7                 |
| Package Size (mm)                   | 370 x 130 x 1110    |



## Floating - Solar Copper Ionization System



### Solar Clear, Copper + Zinc Alloyed Ionization System.

Works with solar battery. Max pool volume 120 m<sup>3</sup>. Decreases the chlorine or equivalents oxidation disinfection requirement approximately 80%. It can be used with UV and/or Dechloramin for Chlorine-Free applications in residential pools. It should not be used in liner/membrane pools due to Coppers dispersing agent impact on synthetic materials. It's not obliged to use flocculant or algicide, because Copper having positive effect on algae and flocculation. On the high degrees of water hardness, the product will act as a softening agent as it collects lime on its anode. But the anode must be cleaned periodically with wire brush inside the package. Complete with wire brush and strip copper test device. Ideal copper concentration is 0,5 ppm. Permanently use necessary on above 70 m<sup>3</sup> pool but it can be used halftime on smaller pools. Min. Copper concentration must be 0,3 ppm. Electrode lifetime can be change by use approximately 12 to 24 months.

| Description | Code | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|------|------------|-----------|-----------------------|
| Solar Clear | 0601 | 1          |           |                       |

## Solar Copper Ionization System Spares



0601Y01



0601Y02

| Description              | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------|------------|-----------|-----------------------|
| • Anode                  | 0601Y01 | 1          |           |                       |
| • Filter                 | 0601Y02 | 1          |           |                       |
| • Screw                  | 0601Y03 | 1          |           |                       |
| • Stripe Copper Test Kit | 0834    | 1          |           |                       |
| • Wire Brush             | 0601Y04 | 1          |           |                       |



0601Y02

### Dechloramin use recommended with SOLAR CLEAR

**“DECHLORAMIN”.** Granulated active oxygen compound for chloramine destruction. After shocking, the pool can be used by bathers within a very short time. Alternative to the required small amount of chlorine in ozone pools.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
| • 1 kg      | 07611 | 1          | 1,000     | 0,002                 |
| • 5 kg      | 07612 | 1          | 5,000     | 0,009                 |
| • 25 kg     | 07613 | 1          | 10,000    | 0,023                 |



07613

|                    |                                    |                           |                                                                |
|--------------------|------------------------------------|---------------------------|----------------------------------------------------------------|
| <b>DECHLORAMIN</b> | Non-chlorine Shock Treatment Agent | For Clarifying Pool Water | 100 gr/week to 10 m <sup>3</sup> pool water (Residential pool) |
|                    |                                    |                           | 150 gr/week to 10 m <sup>3</sup> pool water (Public pool)      |

# POOL EQUIPMENT POOL EQUIPMENT



07 Pool Chemicals

08 Test Kits

192

201



## Water Disinfection

### “FASTCHLOR” Stabilized Dichlorine Granular, 56%.

Quick dissolving stabilized granular dichlorine with 56% or 60% chlorine content.



| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
| • 5 kg      | 071111 | 1          | 5,000     | 0,006                 |
| • 10 kg     | 071112 | 1          | 10,000    | 0,012                 |
| • 15 kg     | 071113 | 1          | 15,000    | 0,017                 |
| • 25 kg     | 071116 | 1          | 25,000    | 0,033                 |
| • 30 kg     | 071114 | 1          | 30,000    | 0,033                 |
| • 50 kg     | 071115 | 1          | 50,000    | 0,057                 |

### “FASTCHLOR 100” Stabilized Trichlorine Granular, 90%.

Slow dissolving stabilized granular trichlorine with 90% chlorine content.



| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
| • 5 kg      | 071131 | 1          | 5,000     | 0,006                 |
| • 10 kg     | 071132 | 1          | 10,000    | 0,012                 |
| • 15 kg     | 071133 | 1          | 15,000    | 0,017                 |
| • 25 kg     | 071136 | 1          | 25,000    | 0,033                 |
| • 30 kg     | 071134 | 1          | 30,000    | 0,033                 |
| • 50 kg     | 071135 | 1          | 50,000    | 0,057                 |

### “TABCHLOR” Stabilized Trichlorine Tablet, 200 gr 90%.

Slow dissolving stabilized trichlorine with 90% chlorine content in 200 gr tablet form.



| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • 5 kg      | 0712311 | 1          | 5,000     | 0,006                 |
| • 10 kg     | 0712312 | 1          | 10,000    | 0,012                 |
| • 15 kg     | 0712313 | 1          | 15,000    | 0,017                 |
| • 20 kg     | 0712314 | 1          | 20,000    | 0,022                 |
| • 50 kg     | 0712315 | 1          | 50,000    | 0,057                 |

### “TABCHLOR-Multi” Stabilized Trichlorine Tablet, 200 gr.

Slow dissolving stabilized Trichlorine. Algicide and flocculant.



| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • 5 kg      | 0714241 | 1          | 5,000     | 0,006                 |
| • 10 kg     | 0714244 | 1          | 10,000    | 0,012                 |
| • 15 kg     | 0714242 | 1          | 15,000    | 0,017                 |
| • 20 kg     | 0714246 | 1          | 25,000    | 0,022                 |
| • 50 kg     | 0714243 | 1          | 50,000    | 0,057                 |

## Water Disinfection and Chlorine Stabilizer

### “CALCIUM HYPOCHLORITE” 70%

| Description      | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|---------------|----------------|--------------|--------------------------|
| • 40 kg Granular | <b>071125</b> | 1              | 40,000       | 0,044                    |
| • 40 kg Tablet   | <b>071226</b> | 1              | 40,000       | 0,044                    |



### “FASTCHLOR L”.

Sodium hypochlorite with 12% active chlorine content.

| Description    | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|---------------|----------------|--------------|--------------------------|
| • 10 l / 12 kg | <b>071311</b> | 1              | 10,000       | 0,012                    |
| • 20 l / 25 kg | <b>071313</b> | 1              | 20,000       | 0,028                    |
| • 25 l / 30 kg | <b>071315</b> | 1              | 25,000       | 0,044                    |
| • 30 l / 36 kg | <b>071312</b> | 1              | 30,000       | 0,044                    |



### CHLORSTAB isocyanuric acid - chlorine stabilizer.

It can be used with FASTCHLOR L, Calcium Hypochlorite and Salt-Water Chlorinators. Reduces chlorine consumption by 10%.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 5 kg      | <b>075391</b> | 1              | 5,000        | 0,008                    |
| • 10 kg     | <b>075392</b> | 1              | 10,000       | 0,017                    |
| • 20 kg     | <b>075393</b> | 1              | 20,000       | 0,023                    |
| • 50 kg     | <b>075395</b> | 1              | 50,000       | 0,057                    |



|           |                  |                     |                                                                                                                |
|-----------|------------------|---------------------|----------------------------------------------------------------------------------------------------------------|
| CHLORSTAB | Isocyanuric acid | Chlorine Stabilizer | 5 kg first dose for 100 m <sup>3</sup> pool water<br>Following doses according to<br>test results max. 100 ppm |
|-----------|------------------|---------------------|----------------------------------------------------------------------------------------------------------------|



## Non-Chlorine Shock Treatment



### “DECHLORAMIN”.

Granulated active oxygen compound for chloramine destruction. After shocking, the pool can be used by bathers within a very short time. Alternative to the required small amount of chlorine in ozone pools.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| • 5 kg      | 07612 | 1              | 5,000        | 0,006                    |
| • 10 kg     | 07617 | 1              | 10,000       | 0,011                    |
| • 25 kg     | 07613 | 1              | 25,000       | 0,027                    |



### “OXYTRONE”

Granulated active oxygen compound for chloramine destruction. After shocking, the pool can be used by bathers within a very short time. Alternative to the required small amount of chlorine in ozone pools.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 5 kg      | 071151 | 1              | 5,000        | 0,006                    |
| • 10 kg     | 071152 | 1              | 10,000       | 0,011                    |
| • 25 kg     | 071153 | 1              | 25,000       | 0,027                    |



### “CHLORINE-OUT”

Reset the Total Chlorine of pool water in pools with high Combined Chlorine problems or pools with high chlorine. To reduce the Total Chlorine of 100 m<sup>3</sup> pool water by 1 ppm, dissolve 300 gr of Chlorine-Out in water and add to the pool water.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 5 kg      | 071144 | 1              | 5,000        | 0,006                    |
| • 10 kg     | 071145 | 1              | 10,000       | 0,011                    |
| • 25 kg     | 071146 | 1              | 25,000       | 0,027                    |

## pH Regulators



### “pH (-) DOWN”.

Granular acid to reduce and stabilize pH level.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 7 kg      | 072111 | 1              | 7,000        | 0,006                    |
| • 15 kg     | 072112 | 1              | 15,000       | 0,017                    |
| • 25 kg     | 072113 | 1              | 25,000       | 0,023                    |
| • 50 kg     | 072114 |                | 50,000       | 0,043                    |



### “pH (-) DOWN L”.

Granular acid to reduce and stabilize pH level.

| Description    | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------|----------------|--------------|--------------------------|
| • 10 l / 12 kg | 072121 | 1              | 12,000       | 0,012                    |
| • 20 l / 25 kg | 072123 | 1              | 25,000       | 0,028                    |
| • 25 l / 30 kg | 072124 | 1              | 30,000       | 0,044                    |
| • 30 l / 36 kg | 072122 | 1              | 36,000       | 0,044                    |

## pH Regulators

**“pH (-) DOWN HCl”** Liquid pH reducer and limescale remover. (30% Hydrochloric acid)

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 10 l      | <b>072126</b> | 1              | 10,000       | 0,014                    |
| • 25 l      | <b>072125</b> | 1              | 25,000       | 0,028                    |
| • 30 l      | <b>072129</b> | 1              | 30,000       | 0,044                    |
| • 35 l      | <b>072128</b> | 1              | 35,000       | 0,044                    |



**“pH (+) UP”.**

Alkaline in powder form to increase and stabilize pH level.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 4 kg      | <b>072211</b> | 1              | 4,000        | 0,006                    |
| • 10 kg     | <b>072212</b> | 1              | 10,000       | 0,012                    |
| • 25 kg     | <b>072218</b> | 1              | 25,000       | 0,022                    |



## Algicides

**“ALGEX”.**

Liquid Algicide and bactericide for destruction of algae.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 5 l       | <b>073111</b> | 1              | 5,000        | 0,007                    |
| • 10 l      | <b>073112</b> | 1              | 10,000       | 0,014                    |
| • 20 l      | <b>073114</b> | 1              | 20,000       | 0,028                    |
| • 30 l      | <b>073113</b> | 1              | 30,000       | 0,044                    |



**“ALGEX PROTECTOR”.**

Liquid Algicide and bactericide against algae growth.

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • 5 l       | <b>073311</b> | 1              | 5,000        | 0,007                    |
| • 10 l      | <b>073312</b> | 1              | 10,000       | 0,014                    |
| • 20 l      | <b>073314</b> | 1              | 20,000       | 0,028                    |
| • 30 l      | <b>073313</b> | 1              | 30,000       | 0,044                    |



## Algicides

A BRAND NEW KIND OF ALGICIDE



### “STARVEX” Anti Phosphate.

Starvex is an ECO-friendly chemical which destroys algae chain by binding and destructing the phosphate in the water. It does not cause turbidity in pool water. It can be used with all pool chemicals. **DOSING RATES ARE VERY LOW.**

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 5 l       | <b>075381</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>075382</b> | 1          | 10,000    | 0,014                 |
| • 20 l      | <b>075383</b> | 1          | 20,000    | 0,028                 |
| • 30 l      | <b>075384</b> | 1          | 30,000    | 0,044                 |

For Phosphate Test Kit, Please see Test Kits Section.

|         |        |          |                                                                              |
|---------|--------|----------|------------------------------------------------------------------------------|
| STARVEX | Liquid | Algicide | 1 l dose for 50 m <sup>3</sup> pool water.<br>0,5 l dose in following weeks. |
|---------|--------|----------|------------------------------------------------------------------------------|

## Flocculant



### “PUREFLOCK L”. Highly Effective Liquid Flocculant.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| • 5 l       | <b>07411</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>07422</b> | 1          | 10,000    | 0,014                 |
| • 20 l      | <b>07424</b> | 1          | 20,000    | 0,028                 |
| • 30 l      | <b>07423</b> | 1          | 30,000    | 0,044                 |



### “PUREFLOCK C”.

Cartridges Flocculant for continuous clarifying treatment.

| Description               | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------|--------------|------------|-----------|-----------------------|
| Box contains 8 cartridges | <b>07421</b> | 1          | 1,280     | 0,003                 |



### “MULTIFLOCK C”.

Cartridges Flocculant and algicide for continuous clarifying treatment.

| Description               | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------|--------------|------------|-----------|-----------------------|
| Box contains 8 cartridges | <b>07430</b> | 1          | 1,280     | 0,003                 |



### “CLEARFLOCK GEL” Gel Flocculant.

| Description                     | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|--------------|------------|-----------|-----------------------|
| • Box contains 4 gel cartridges | <b>07425</b> | 1          | 0,30      |                       |
| • Box contains 1 gel cartridges | <b>07427</b> | 1          | 0,65      |                       |

07425

07427



### “ACTIVE FLOCK” Liquid.

“ACTIVE FLOCK” Liquid. Floating partides in the pool water are catched by the sand filter. No sediments on the pool bottom.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 5 l       | <b>074241</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>074242</b> | 1          | 10,000    | 0,014                 |
| • 20 l      | <b>074243</b> | 1          | 20,000    | 0,028                 |
| • 30 l      | <b>074244</b> | 1          | 30,000    | 0,044                 |

## Flocculant

### “MIRACLEAR” Super Shock Clarifier.

It enables the suspended particles in the pool water to be held inside the filter. Miraclear does not make sediment on the floor of the pool. Single dose in every 3 or 4 week is enough. It's a fast and an effective solution to cloudy pools.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 5 l       | 075371 | 1              | 5,000        | 0,007                    |
| • 10 l      | 075372 | 1              | 10,000       | 0,014                    |
| • 20 l      | 075373 | 1              | 20,000       | 0,028                    |
| • 30 l      | 075374 | 1              | 30,000       | 0,044                    |



## Filter and Cell Care

### “CALCEX FILTER”.

Descaling and cleansing agent for periodical maintenance of sand filters and cell.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 1 kg      | 07521  | 1              | 1,000        | 0,001                    |
| • 4 kg      | 07522  | 1              | 4,000        | 0,006                    |
| • 10 kg     | 07523  | 1              | 10,000       | 0,012                    |
| • 5 l       | 075319 | 1              | 5,000        |                          |
| • 10 l      | 075320 | 1              | 10,000       |                          |



## Prevention of Lime Sedimentation in Hard Pool Waters

### “CALSTAB”.

Stabilizes hardness prevents scaling on pool surfaces.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| • 5 l       | 07551 | 1              | 5,000        | 0,007                    |
| • 10 l      | 07552 | 1              | 10,000       | 0,014                    |
| • 20 l      | 07556 | 1              | 20,000       | 0,028                    |
| • 30 l      | 07553 | 1              | 30,000       | 0,044                    |



## Electrode Cleaning for Salt-Chlorine Generators

### “SCALEX” Anti-Lime for Salt-Chlorine Generators.

Initial dose: 2,5 l/100 m<sup>3</sup> pool water. This figure should be doubled in pools using hard water. Consecutive use dose: 2.5 l/6 months.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 5 kg      | 075327 | 1              | 5,000        | 0,007                    |
| • 10 kg     | 075328 | 1              | 10,000       | 0,014                    |
| • 20 kg     | 075329 | 1              | 20,000       | 0,028                    |



## Foot and Surface Disinfection

### “FUNGEX”. Fungicidal disinfectant.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| • 10 l      | 07541 | 1              | 10,000       | 0,014                    |
| • 30 l      | 07542 | 1              | 30,000       | 0,044                    |





## Pool Surface Cleaning



**“SCALEX POOL” Limescale Removal - effective when the pool is “FULL”**

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 5 kg      | <b>075323</b> | 1          | 5,000     | 0,001                 |
| • 10 kg     | <b>075324</b> | 1          | 10,000    | 0,007                 |
| • 20 kg     | <b>075325</b> | 1          | 20,000    | 0,028                 |



**“CALCEX POOL”.**

Descaling cleaner to eliminate calcium deposits on the pool basin. When pool is empty.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 1 l       | <b>075311</b> | 1          | 1,000     | 0,001                 |
| • 5 l       | <b>075312</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>075313</b> | 1          | 10,000    | 0,012                 |
| • 20 l      | <b>075315</b> | 1          | 20,000    | 0,028                 |
| • 30 l      | <b>075314</b> | 1          | 30,000    | 0,044                 |



**“SOOT-OFF”.**

Cleaner for removing grease and dirt at the water rim.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 1 l       | <b>075321</b> | 1          | 1,000     | 0,001                 |
| • 5 l       | <b>075322</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>075333</b> | 1          | 10,000    | 0,014                 |
| • 20 l      | <b>075334</b> | 1          | 20,000    | 0,028                 |



**“CLEAN GROUTING”** Grouting cleaner.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 1 l       | <b>075341</b> | 1          | 1,000     | 0,001                 |
| • 5 l       | <b>075342</b> | 1          | 5,000     | 0,007                 |



**“MORTAR-OFF”** Mortar cleaner.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 1 l       | <b>075351</b> | 1          | 1,000     | 0,001                 |
| • 5 l       | <b>075352</b> | 1          | 5,000     | 0,007                 |

## Winter Care



**“POOLWIC”.**

For Winter Care against algae growth and calcium deposits.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| • 5 l       | <b>07511</b> | 1          | 5,000     | 0,007                 |
| • 10 l      | <b>07512</b> | 1          | 10,000    | 0,014                 |
| • 20 l      | <b>07514</b> | 1          | 20,000    | 0,028                 |
| • 30 l      | <b>07513</b> | 1          | 30,000    | 0,044                 |

## GEMAS POOL CHEMICALS DOSING INSTRUCTIONS

| PRODUCT              | DESCRIPTION                        | FUNCTION                               | DOSAGE                                                                                                                                                  |
|----------------------|------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| FASTCHLOR            | Stabilized Granular Dichlorine     | Disinfection                           | 0,5 kg/day for 100 m <sup>3</sup> pool water (Public pools)<br>0,5 kg/week for 100 m <sup>3</sup> pool water (Residential pools)                        |
|                      |                                    | Shocking                               | 0,6-1 kg/15day for 100 m <sup>3</sup> pool water (Public pools)<br>0,6-1 kg/month for 100 m <sup>3</sup> pool water (Residential pools)                 |
| FASTCHLOR 100        | Stabilized Granular Trichlorine    | Disinfection                           | 0,35 kg/day for 100 m <sup>3</sup> pool water (Public pools)<br>0,35 kg/week for 100 m <sup>3</sup> pool water (Residential pools)                      |
| TABCHLOR 200 gr      | Stabilized Trichlorine Tablet      | Disinfection                           | 1 Tablet for 30 m <sup>3</sup> pool water (once 10-12 days)                                                                                             |
| H.TRICHLOR T 200 gr  | Stabilized Trichlorine Tablet      | Disinfection                           | 1 Tablet for 30 m <sup>3</sup> pool water (once 10-12 days)                                                                                             |
| CALCIUM HYPOCHLORITE | %70 Granular/Tablet                | Disinfection                           | 200 gr/day for 100 m <sup>3</sup> pool water                                                                                                            |
| BROMINE              | Bromine Tablet                     | Disinfection                           | 400 gr/day for 30 m <sup>3</sup> pool water                                                                                                             |
| FASTCHLOR L          | Sodium Hypochlorite %12            | Disinfection                           | 2,5-5 liters/day for 100 m <sup>3</sup> pool water                                                                                                      |
| CHLORSTAB            | Isocyanuric Acid                   | Chlorine Stabilizer                    | 5 kg first dose for 100 m <sup>3</sup> pool water. Following doses according to test results max. 100 ppm                                               |
| DECHLORAMIN          | Non-chlorine Shock Treatment Agent | For clarifying pool water              | 100 gr/week for 10 m <sup>3</sup> pool water (Residential pools)                                                                                        |
|                      |                                    |                                        | 150 gr/week for 10 m <sup>3</sup> pool water (Public pools)                                                                                             |
| OXYTRONE             | Granular                           | Oxygen based organic cleaner           | 1000-1300 gr/week dose per 100 m <sup>3</sup> pool water (Residential pools)<br>1500-1800 gr/week dose per 100 m <sup>3</sup> pool water (Public pools) |
| CHLORINE-OUT         | Granular                           | Chlorine and chlorine remover          | 300 gr dose per 100 m <sup>3</sup> pool water to reduce total chlorine by 1 ppm                                                                         |
| pH (-) DOWN          | Granular                           | pH Down                                | 1 kg for 100 m <sup>3</sup> pool water decreases pH by 0,1 unit                                                                                         |
| pH (-) DOWN L        | Liquid                             | pH Down                                | 1 liter for 100 m <sup>3</sup> pool water decreases pH by 1 unit                                                                                        |
| pH (-) DOWN HCl      | Liquid                             | pH Reduce and Limescale cleaner        | 1 l dose per 100 m <sup>3</sup> pool water reduces pH by 0,1 and alkalinity by 0,23 ppm                                                                 |
| pH (+) UP            | Granular                           | pH Up                                  | 1 kg for 100 m <sup>3</sup> pool water increases pH by 0,1 unit                                                                                         |
| ALGEX                | Liquid                             | Algicide                               | First dosage of 1,5 liters. Weekly dosage of 0,5 liter afterwards (outdoor pool)                                                                        |
|                      |                                    |                                        | First dosage of 1,5 liters. Weekly dosage of 0,3 liter afterwards (indoor pool)                                                                         |
| ALGEX PROTECTOR      | Liquid                             | Algicide                               | First dosage of 1,5 liters. Weekly dosage of 0,5 liter afterwards (outdoor pool)                                                                        |
| STARVEX              | Liquid                             | Algicide                               | 1 l dose for 50 m <sup>3</sup> pool water. 0,5 l dose in following weeks.                                                                               |
| PUREFLOCK L          | Liquid                             | Flocculant                             | 30-200 ml/day for 100 m <sup>3</sup> pool water                                                                                                         |
| CLEARFLOCK GEL       | Mold Gel                           | Gel Flocculant                         |                                                                                                                                                         |
| PUREFLOCK C          | Cartridge                          | Flocculant                             | 1 cartridge/5-7 days for 60 m <sup>3</sup> pool water                                                                                                   |
| MULTIFLOCK C         | Cartridge                          | Flocculant + Anti-Algae                | 1 cartridge/5-7 days for 60 m <sup>3</sup> pool water                                                                                                   |
| ACTIVE FLOCK         | Liquid                             | Polisher                               | 100 m <sup>3</sup> pool water 30-200 ml/day                                                                                                             |
| MIRACLEAR            | Liquid                             | Super Shock Clarifier                  | 1 l first dose for 100 m <sup>3</sup> pool water. Same dose in following 3-4 week.                                                                      |
| CALCEX FILTER        | Granular                           | Anti Calcification                     | 1 kg/15-30 days for each m <sup>3</sup> of filter volume                                                                                                |
| CALSTAB              | Liquid                             | Hardness Stabilization                 | 100-400 ml for 10 m <sup>3</sup> pool water.                                                                                                            |
| CALCEX POOL          | Liquid                             | Descaling Cleaner on Surface           | Can be diluted at ratio of 1/5 or 1/10. Should be waited maximum 15 minutes.                                                                            |
| SCALEX POOL          | Liquid                             | For Cleaning Lime on Pool Surface      | 2,5-5 l per 100 m <sup>3</sup> pool water                                                                                                               |
| SCALEX               | Liquid                             | Anti-Lime for Salt-Chlorine Generators | 2,5 l first dose to 100 m <sup>3</sup> pool water 375 ml/month or 2,5 l/6 month                                                                         |
| SOOT-OFF             | Liquid                             | Grease and dirt remover                | Can be diluted at ratio of 1/5 or 1/10.                                                                                                                 |
| CLEAN GROUTING       | Liquid                             | Grout cleaning                         | Can be diluted 1/5 or 1/10. Wait for 2-3 minutes and brush.                                                                                             |
| MORTAR-OFF           | Liquid                             | Mortar cleaning                        | Apply on mortar. Brush with heavy duty bristles.                                                                                                        |
| POOLWIC              | Liquid                             | Winter Care Product                    | 3 - 5 liter (According to hardness) to 100 m <sup>3</sup> pool Re-dose in 2 months.                                                                     |

## Pool Problems and Solutions



| PROBLEM                                            | CAUSE                                                                                             | EFFECT                                              | SOLUTION                                                                                |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| Dull looking cloudy water                          | Low chlorine stabilizer (cyanuric acid) high (>100 ppm)                                           | The first stage of algae growth                     | Adjust pH with FASTCHLOR L and shock chlorination                                       |
| On walls, pipes, filters, etc. stone formation     | pH high, CaCO <sub>3</sub> Solubility exceeded, alkalinity high                                   | Pipes blocked increase in filter pressure           | pH should be adjusted continuously                                                      |
| Eye and skin irritation                            | Unsuitable pH, ineffective chlorine due to chlorination with high amount                          | Increase in the amount of pollution                 | Adjust pH with FASTCHLOR and shocking chlorination                                      |
| Constantly in an eye-catching level chlorine smell | Free chlorine low, due to false shock chlorination stabilizer and bound chlorine, high (>0.2 ppm) | Insufficient disinfection                           | Free chlorine should be 0.8-2.0 ppm and correct shock chlorination must be done         |
| Foaming in pool water                              | High-dose algicide use and organic pollution                                                      | Cost increase                                       | Shock chlorination and use fresh water                                                  |
| Non shiny water                                    | Filtration low pH high                                                                            | Insoluble suspended matter increase by amount       | Check the filter, decrease pH                                                           |
| Colorful but clear water                           | Metal ions are present in the water                                                               | Metal oxidation                                     | Adjust pH with FASTCHLOR shocking chlorinate and use CALSTAB ion holder                 |
| Bleaching in hair, clothing, vinyl coatings        | Chlorine level is too high, free chlorine incorrectly measured                                    | Cost increase due to excessive chlorine consumption | Lower the chlorine level                                                                |
| Colored particles present in the water             | Low pH and corrosion                                                                              | Metal oxidation                                     | Raise pH                                                                                |
| Green blurry water, slippery surfaces and algae    | Low chlorine level too much stabilizer                                                            | Algae growth                                        | Adjust pH, perform shock chlorination                                                   |
| Green or brown algae                               | Lower free chlorine in water                                                                      | Inadequate disinfection and algae re-production     | Adjust pH with FASTCHLOR shocking chlorine, use antialgae. Brush the surfaces and clean |

## Water Parameters of Pool Water

- (1) It is checked in the pools where chlorine compounds with stabilizers are used for disinfection of water.
- (2) Hydrogen peroxide should be within the range of 40-80 when "hydrogen peroxide + biguanide" is used for disinfection of water. In this case it is acceptable that pH 8.2, ammonium 1.5 and total level of alkalinity suitable up to level 220. No free chlorine measurement is done in these pools but hydrogen peroxide and biguanide are measured.
- (3) It is checked in the pools where Chlorine and chlorinated compounds are used for water disinfection.
- (4) It is the exact required level where Ozone, UV, chlorine dioxide and other disinfection systems are used in the pools for water disinfection.  
NOTE: Hydrogen peroxide, biguanide and free chlorine measurements are made on pool site.  
Our company reserves the right to make changes in all listed products without notifying the customer.

### Annex-1 Chemical Properties

| Parameter                                               | Analysis Range | Unit | Limit Values |         |
|---------------------------------------------------------|----------------|------|--------------|---------|
|                                                         |                |      | Minimum      | Maximum |
| Cyanuric acid <sup>(1)</sup>                            | Once a month   | mg/l | -            | 100     |
| Biguanid <sup>(2)</sup>                                 |                |      | 2            | 30      |
| Hydrogen peroxide <sup>(2)</sup>                        |                |      | 40           | 80      |
| pH <sup>(2)</sup>                                       |                |      | 6,5          | 7,8     |
| Ammonium <sup>(2)</sup>                                 |                |      |              | 0,5     |
| Nitrite                                                 |                |      |              | 0,5     |
| Nitrate                                                 |                |      |              | 50      |
| Copper                                                  |                |      |              | 1       |
| Aluminum                                                |                |      |              | 0,2     |
| Total alkalinity <sup>(2)</sup> (CaCO <sub>3</sub> )    |                |      | 30           | 180     |
| Bound chlorine <sup>(3)</sup>                           |                |      |              | 0,2     |
| Indoor swimming pool water free chlorine <sup>(3)</sup> |                |      | 1            | 1,5     |
| Open swimming pool water free chlorine <sup>(3)</sup>   |                |      | 1            | 3       |
| Free chlorine <sup>(4)</sup>                            |                |      | 0,3          | 0,6     |

## Test Kits with Liquid Reagents

### TEST KIT FOR CHLORINE AND pH WITH LIQUID REAGENTS.

Complete with 25 cc OTO and PHENOL RED Liquid reagents.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>08211</b> | 1              | 0,170        |                          |



### LIQUID REAGENTS

| Description            | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------|---------------|----------------|--------------|--------------------------|
| • CHLORINE OTO - 25 cc | <b>082111</b> | 1              | 0,028        |                          |
| • PHENOL RED - 25 cc   | <b>082112</b> | 1              | 0,028        |                          |



### TOTAL HARDNESS TEST KIT. By titration method.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>08221</b> | 7              | 1,120        | 0,006                    |



## Test Kits with Tablet Reagents

### TEST KIT WITH TABLETS.

For Free Chlorine and pH. Includes 10 pieces of test agents.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>08111</b> | 10             | 0,160        | 0,0004                   |



### TEST KIT FOR CHLORINE/BROMINE, pH & ALKALINITY

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| PT 500      | <b>08131</b> | 1              | 0,160        | 0,0004                   |





## Stick Test Kits



### AQUACHECK "YELLOW" STICK TEST KITS.

Indicates pH, Free Chlorine, Total Alkalinity and Cyanuric Acid Level. Colormetric based measure system. Includes 50 pieces of test sticks.

| Description                     | Code | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|------|------------|-----------|-----------------------|
| AQUACHECK YELLOW - For 50 Tests | 0831 | 1          | 0,050     | 0,0008                |



### POOL ID STRIP SALINITY TEST KIT.

It measures salinity between 0 - 8000 ppm. There are 20 pieces of test strips in the box.

| Description       | Code | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|------|------------|-----------|-----------------------|
| SALINITY TEST KIT | 0835 | 1          |           |                       |

## Electronic Photometer - Test Strips & Readers



### AQUACHECK "TRUTEST" DIGITAL TEST STRIPS & READER.

pH, free chlorine and total alkalinity. After the AQUACHECK TRUTEST test strips are immersed in the pool water, the measurement is made by placing it on the TruTest device. It eliminates the risk of making wrong measurements due to users distinguishing colours incorrectly. It reports on the left of the screen that the measured values are low, ideal or high. Keeps the last 9 measurements in its memory. For bromine measurement, multiply the Chlorine measurement obtained by 2.2. Works with 2 alkaline batteries.

| Description                        | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|-------|------------|-----------|-----------------------|
| • AQUACHECK TRUTEST                | 0841  | 1          | 0,236     | 0,0018                |
| • AQUACHECK TRUTEST                | 08411 | 1          | 0,042     | 0,0008                |
| • Replacement Test Strips - 50 pcs |       |            |           |                       |

## Photometer Test Kits



### "POOLLAB"

Photometric test kit. Total / Bound Chlorine, Ph, Alkalinity, Cyanuric Acid, Total Hardness, Active Oxygen, Bromine, Chlordioxide, Ozone, Hydrogen peroxide can be measured.

There are reagents for the first four parameters in the kit. Other reagents should be purchased extra on request. It can be connected to a **smartphone** via Bluetooth.

When the test results are synchronized, the software and the preloaded chemicals in the application will suggest the required dose. The user can print these results.

The poolab, which is an IP68 rated device, can be safely submersed into the body of water to be sampled.

| Description        | Code | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------|------|------------|-----------|-----------------------|
| POOLLAB 5 in 1 kit | 0844 | 1          |           |                       |

## Photometer Test Kits

### “POOLLAB 2.0”

Poollab 2.0 Photometric Tester. It can measure 24 different parameters. It can measure 3 parameters at the same time with 3 chambers side by side. With IP68 protection, it allows easy sampling by immersing it in the pool water. It automatically synchronizes with Labcom software over the Cloud with Bluetooth and Wi-fi features. Test results are recorded under the account names determined by the user. With the LabCom software, the results can be printed out, the active chlorine in the water or the required chemical doses can be calculated. Complete with tablets for pH, Total Chlorine, Free Cloe, Alkalinity and Cyanuric Acid Tests.



| Description | Code | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------|------|-------------|-----------|-----------------------|
| POOLLAB 2.0 | 0845 | 1           |           |                       |

### “PRIMELAB” Multitest.

Photometric test kit. Options with 5 in 1 kit which measures Total/Combined Chlorine, pH, Alkalinity, Total Hardness and Cyanuric Acid. Pro kit includes parameters Total / Combined Chlorine, Bromine, pH, Alkalinity, Cyanuric Acid, Ammonify, Nitrite, Nitrat, Copper, Aluminium, Hidrogen Peroxide, Biguanide, Color and Turbidity). Complete with all necessary agents calibration and measurement equipment and carrier case. For spare part agent prices, please see page 201. It can be connected via bluetooth to smartphones, tablets and PCs.

The necessary chemical dosages and comments to the test results are given as suggestions with the help of software or application.



| Description           | Code | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|------|-------------|-----------|-----------------------|
| • Primelab 5 in 1 Kit | 0848 | 1           |           |                       |
| • Primelab Pro Kit    | 0849 | 1           |           |                       |
| • Parameter Addition  | 0843 |             |           |                       |

## Test Kits With Disc Comparator

With 5 in 1 kit, Free chlorine, pH, total alkalinity, total hardness and cyanuric acid are measured. The result is given by comparing the sample color with color disc. Complete with all agents, sample tubes and carrier bag.

| Description                                | Code | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|------|-------------|-----------|-----------------------|
| • 5 in 1 Test Kit , with disc comparator   | 0850 | 1           |           |                       |
| • Phosphate Test Kit, with disc comparator | 0851 | 1           |           |                       |



0850



0851

## Tablet Reagents



**“DPD1 FREE CHLORINE REAGENT.** (1 Folio includes 10 tablets)

| Description           | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|-----------------|------------|-----------|-----------------------|
| • DPD1 – Folio        | <b>081111</b>   | 50         | 0,128     | 0,001                 |
| • Box inc. 500 pcs    | <b>0811111</b>  | 1          | 0,170     | 0,0009                |
| • Box inc. 1000 pcs.. | <b>08111112</b> | 1          |           |                       |



**PHENOL RED REAGENT.** (1 Folio includes 10 tablets)

| Description           | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|----------------|------------|-----------|-----------------------|
| • Phenol Red – Folio  | <b>081112</b>  | 50         | 0,128     | 0,001                 |
| • Box inc. 500 pcs    | <b>0811121</b> | 1          |           |                       |
| • Box inc. 1000 pcs.. | <b>0811122</b> | 1          |           |                       |

**DPD3 DEPENDENT CHLORINE AGENT.** (1 Folio includes 10 tablets)

| Description           | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------|----------------|------------|-----------|-----------------------|
| • DPD3 – Folio        | <b>081113</b>  | 50         | 0,128     | 0,001                 |
| • Box inc. 500 pcs    | <b>0811131</b> | 1          | 0,170     | 0,0009                |
| • Box inc. 1000 pcs.. | <b>0811132</b> | 1          |           |                       |

## Photometer Tablet Reagents

**Below spare agents for 250 pieces packages. PLS. ASK PRICE.**

| Description            | Description              |
|------------------------|--------------------------|
| <b>TABLET REAGENTS</b> |                          |
| Alkalinity - M         | Chlor dioxide - Glycine  |
| Cholorine - DPD1       | Total Hardness           |
| Cholorine - DPD3       | Iron                     |
| Cyanuric Acid          | Phosphate - No:1         |
| Calcium Hardness       | Phosphate - No:2         |
| pH - Phenol Red        | Sodium Hypochloride 1    |
| Aluminium - No:1       | Sodium Hypochloride 2    |
| Aluminium - No:2       | Sulphate                 |
| Ammonia - No:1         | Urea - Amonia No:1       |
| Ammonia - No:2         | Urea - Amonia No:2       |
| Bromine - DPD1         | Zinc - Copper Zinc       |
| Bromine - Glycine      | Zinc - EDTA              |
| Copper - No:1          |                          |
| Copper - No:2          | <b>LIQUID REAGENTS</b>   |
| Nitrite                | Hydrogen Peroxide - No:1 |
| Ozone - DPD1           | Hydrogen Peroxide - No:2 |
| Ozone - DPD2           | Nitrate - No:1           |
| Ozone - DPD3           | Nitrate - No:2           |
| PHMB                   | Chlorine - No:1          |
| Chloramine DPD1        | Chlorine - No:2          |
| Chloramine DPD2        | Chlorine - No:3          |
| Chloramine DPD3        | Iron - No:1              |
| Chloride - No:1        | Iron - No:2              |
| Chloride - No:2        | pH                       |
| Chlor dioxide - DPD1   | Urea - No:3              |
|                        | Urea - No:4              |

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## “Residential” Robotic Pool Cleaners

### PLECOS “S2” ROBOTIC POOL CLEANERS.

The Plecus S2 is designed for residential pools up to 12 m in length. It features a 24 V motor unit and an 18 m cable. The cleaning cycle duration is 2 hours, and it has an automatic program for optimal pool cleaning. The S2 cleans the pool surface, walls, and waterline. It adjusts the vacuum according to slipperiness during climbing on the walls to prevent slipping. **With the patented POWERSTREAM technology, it offers effective movement and maneuvering features.** The active brush moves twice as fast as the robot, removing algae and bacteria from the walls and bottom. The S2 operates in standard cleaning mode with a new generation energy-saving power unit. It has a 2-layer filtering system with a cartridge filter for finer debris and a net filter for coarse dust. **The S2 comes with a warranty period of 3 years.**



| Description                 | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------|--------|------------|-----------|-----------------------|
| “S2” Automatic Pool Cleaner | 091187 | 1          | 12,000    |                       |

### PLECOS “M4” ROBOTIC POOL CLEANERS.

The Plecus M4 is suitable for home pools between 10-12 m in length. It features a self-powered 24 V motor with a low micron cartridge or mesh filter. It comes with an 18 m cable and has a flow rate of 16 m<sup>3</sup>/h. The cleaning period is 2.5 hours, and it is self-programmed and microprocessor-controlled for optimal pool cleaning. The M4 climbs the pool walls up to the waterline and offers weekly programming with the options 'once a day, every two days, and every three days' via the power supply unit. With smartphone application, it provides manual use and weekly programming via the Internet. It includes triple active brushes and easy interchangeable filter panels. **GYROSCOPE technology advanced system ensures accurate scanning for systematic coverage of floor, walls and waterline. Without caddy. The warranty period is 3 years.**



| Description                   | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|---------|------------|-----------|-----------------------|
| • “M4” Automatic Pool Cleaner | 091188  | 1          | 24,000    |                       |
| • “M4” Caddy                  | 091188C | 1          |           |                       |

## “Cordless” Robotic Pool Cleaners

### PLECOS “FREE” ROBOTIC POOL CLEANERS.

Elevate Your Cordless Pool Cleaning Experience. With the app, you can see the filter status, choose between customized cleaning programs and activate Eco-Mode to enjoy a clean pool for 1-2 weeks on a single charge. The Click-Up™ allows you to stop the robot mid-cycle and to call it to climb up for easy removal. The Plecus FREE is suitable for pools with PVC, fiberglass, and stone surfaces, mosaic and ceramic tiles. This robot is the perfect choice for a sparkling clean pool with minimal effort and maximum results. **The warranty period is 3 years.**



| Description                              | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------|--------|------------|-----------|-----------------------|
| “FREE” Automatic Pool Cleaner - Cordless | 091192 | 1          | 12,000    |                       |

## Automatic Pool Cleaners for Commercial Pools

### PLECOS "W9i" ROBOTIC POOL CLEANERS.

The Plecos W9i is effective for pools up to 20 m in length. It features a double motion axle for pool scanning and comes with 70-micron permanent or disposable filters. The W9i has a 24 m cable, a 24 V motor, a flow rate of 16 m<sup>3</sup>/h, and a 3-hour cleaning cycle duration. It includes a patented swivel system to prevent cable damage. Climbing interval is 8 minutes. **Comes with a caddy. The warranty period is 2 years.**

| Description                  | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|---------------|----------------|--------------|--------------------------|
| "W9i" Automatic Pool Cleaner | <b>091190</b> | 1              | 23,000       |                          |



### PLECOS "W10" ROBOTIC POOL CLEANERS.

The Plecos W10 is user-friendly and suitable for pools up to 25 m in length. It features a double motion axle for efficient pool scanning in 4 hours and comes with 70-micron permanent or disposable filters. The W10 has a 24 m cable, a 24V motor, a flow rate of 16 m<sup>3</sup>/h, and a 3-hour cleaning cycle duration. It includes a patented swivel system to prevent cable damage. Climbing interval is 8 minutes. **The warranty period is 3 years.**

| Description                  | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|----------------|----------------|--------------|--------------------------|
| "W10" Automatic Pool Cleaner | <b>091189</b>  | 1              | 25,000       |                          |
| "W10" Caddy                  | <b>091189C</b> | 1              |              |                          |



## Automatic Pool Cleaners for Commercial Pools

### PLECOS "W30XL" ROBOTIC POOL CLEANER.

The Plecos W30XL is designed for commercial pools up to 60 m in length. It comes with 50-micron filters in three different types: standard, coarse, and disposable. The W30XL includes a caddy, a user-friendly interactive control panel, and a remote control. It guarantees 100% pool scanning using navigation technology unique to automatic pool cleaners. The cleaner can memorize four different pools, and it comes with a **warranty period of 2 years**.



| Description                | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|--------|------------|-----------|-----------------------|
| "W30XL" Auto. Pool Cleaner | 091191 | 1          | 101,000   | 0,150                 |



Crystal clear pools with the 21st century technology

## "Plecos W30XL"



**W30XL**, is the new generation automatic pool cleaner of **PLECOS**; the sector of automatic pool cleaners **W30XL** is designed specifically for the systematic and stable cleaning of the olympic pools as a highly professional robot compared to all other robots in the market.



Plecos W30 XL



50 microns filter system



Digital control panel



Remote control device



W30XL entrance to pool.



W30XL can be controlled remotely.

**Active Brush System:** Hard brushes of polyethylene plastic brushes and rubs the pool and prevents algae and bacteria. Small brushes on the sides reaches to every edge, corner and water line.

**Scanning Method:** **W30XL** has a navigation brain unique in the market which guarantees 100% scanning.

**Filtration:** Automatic pool cleaners cleans the pool with their integrated filters. This is an advantage compared to manual cleaners which uses the pool filter, as they cause faster blockage of the filter. This results with more back washing, so more loss of water and chemicals. As all other automatic pool cleaners

**W30XL** is environmentally-friendly and economic in this sense. Moreover, with 40 m<sup>3</sup>/h vacuum rate and 50 micron filter **W30XL** offers you much more than manual cleaning.

**MMI:** All the control of the robot is realized with the interactive digital interface panel which is called MMI. With this state of the art device you may set all the parameters of the robot, give comment for delayed start up in order to wait for the sedimentation of dirt on the floor, or give comment for automatically going in and out of the water. You may also control the robot manually with the remote control. Although **W30XL** is a heavy duty robot, it is the leading public pool cleaner in the market with the highest performance/cost ratio in the market and with the easiness of its use and maintenance.

## Rechargeable Cordless Vacuum Cleaner

### RECHARGEABLE CORDLESS VACUUM CLEANER.

It is an ideal pool cleaner for all types and sizes of pools, which can be carried by hand with a long and telescopic pole, without the need for a hose and electrical cable, and operates with a rechargeable battery. The product is equipped with a removable brush head, which can conveniently brush the floor, walls and corners of the pool. This device with a battery capacity of 2500mAh can be used for up to 60 minutes without running out of charge. Replaceable-removable brush head. Besides its own 2 meter telescopic pole, it can also be used with Gemas telescopic poles with clip. 2 years warranty.



Product is compatible for all sizes of GEMAS telescopic poles with clip.



Removable brush head



60 min. battery capacity

| Description                          | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|--------|------------|-----------|-----------------------|
| Rechargeable Cordless Vacuum Cleaner | 091230 | 1          | 2,000     |                       |

PS: Compatible with all GEMAS Telescopic Poles

## Automatic Suction Pool Cleaner

### GEMAS "S250 AUTOMATIC SUCTION POOL CLEANER".

Operates on hydraulic vacuuming principle. Complete with 11 m special hose.



| Description            | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------|-------|------------|-----------|-----------------------|
| S250 Automatic Cleaner | 09123 | 1          | 6,290     | 0,069                 |



### HOSE FOR GEMAS "S250 AUTOMATIC SUCTION POOL CLEANER". 1 m

| Description | Code     | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------|------------|-----------|-----------------------|
| S250 Hose   | 09123Y01 | 1          |           |                       |



## Compact Suction Cleaner Unit - Cartridge Filter

### Compact Suction Cleaner.

Assembled on a st. steel wheel caddy, complete with cartridge filter, monophase self-priming pump, Poolvac manual cleaner, hose, telescopic pole and checkvalve. Fuse and 18 m cable included. Designed for pools which do not have suction inlet. Can be used as a filtration unit as well.

| Description                           | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|--------|----------------|--------------|--------------------------|
| • 11 m <sup>3</sup> /h - 0,75 HP Pump | 093101 | 1              | 37,000       |                          |
| • 16 m <sup>3</sup> /h - 1 HP Pump    | 093102 | 1              | 40,000       |                          |



## Compact Suction Cleaner Unit - Sand Filter

### Compact Suction Cleaner.

Assembled on a st. steel wheel caddy, complete with sand filter, filtration media, monophase self-priming pump, Poolvac manual cleaner, hose, telescopic pole. Fuse and 18 m cable included. Designed for pools which do not have suction inlet. Can be used as a filtration unit as well. Sand is included in the price.

| Description                                    | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------|--------|----------------|--------------|--------------------------|
| 6 m <sup>3</sup> /h. Sand Filter - 0,5 HP Pump | 093103 | 1              |              |                          |

**PS:** Please ask price for larger capacities.



## Manual Pool Cleaners



### GEMAS "POOLVAC" Pool Cleaner.

For concrete pools. Anodized aluminum body.

| Description                              | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------|----------------|------------|-----------|-----------------------|
| • With butterfly nut, 1 1/2" -L = 346 mm | <b>092111</b>  | 1          | 2,382     | 0,012                 |
| • With butterfly nut, 1 1/2" -L = 456 mm | <b>092112</b>  | 1          | 3,094     | 0,015                 |
| • With clip, 1 1/2" -L = 346 mm          | <b>092121</b>  | 1          | 2,388     | 0,012                 |
| • With clip, 1 1/2" -L = 456 mm          | <b>092122</b>  | 1          | 3,220     | 0,015                 |
| • With butterfly nut, 2" -L = 456 mm     | <b>0921121</b> | 1          | 3,060     | 0,015                 |
| • With clip, 2" -L = 456 mm              | <b>0921122</b> | 1          | 3,128     | 0,015                 |



### GEMAS "FOLD-VAC" Pool Cleaner.

For concrete pools. Aluminum body can be folded. Efficient cleaning is provided at pool corners and edges. Each model is 1,5" and 2" hose connection with clip.

| Description      | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|---------------|------------|-----------|-----------------------|
| • Width: 35,5 cm | <b>092211</b> | 1          | 3,000     | 0,017                 |
| • Width: 45,5 cm | <b>092212</b> | 1          | 3,500     | 0,018                 |



### GEMAS "POOLKING" Pool Cleaner.

For concrete pools with wide dimensions. Aluminum body. Wheel group and hose connection made of chromated bronze and stainless steel. 2" Hose connection. Cleaner scanning width, L = 80 cm

| Description                       | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|--------------|------------|-----------|-----------------------|
| • Pull Type                       | <b>09213</b> | 1          | 10,008    | 0,020                 |
| • With fork for using with Handle | <b>09214</b> | 1          | 11,516    | 0,032                 |



### GEMAS "LEAF" Pool Cleaner.

Plastic body with brush. No wheels, for liner and concrete pools. Operates with water jet. 1,5" hose connection with clip. Ø38 cm body dia.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
|             | <b>09222</b>  | 1          | 0,860     |                       |
| Spare bag   | <b>092221</b> | 1          |           |                       |

## Manual Pool Cleaners - Liner

### GEMAS "LUXVAC" POOL CLEANER.

Plastic Body. Brushes on body for concrete and liner pools. 1,5" hose connection. Pole connection is with clip. Control on top for vacuum strength.

| Description         | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------|-------|----------------|--------------|--------------------------|
| Luxvac Pool Cleaner | 09215 | 1              |              |                          |



### GEMAS "TRIANGLE" POOL CLEANER.

Plastic glare body. Brushes on body for concrete and liner pools. 1,5" hose connection. Pole connection is with clip.

| Description           | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------|-------|----------------|--------------|--------------------------|
| Triangle Pool Cleaner | 09217 | 1              | 1,380        | 0,013                    |



### GEMAS "BUTTERFLY" POOL CLEANER.

Plastic Body. Brushes on body for concrete and liner pools. 1,5" hose connection. Pole connection is with clip.

| Description                           | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|-------|----------------|--------------|--------------------------|
| • Butterfly Pool Cleaner              | 09218 | 1              | 0,868        | 0,007                    |
| • Butterfly Pool Cleaner - Side Brush | 09219 | 1              | 1,048        | 0,008                    |



### GEMAS "HEAVY-DUTY FLEX" POOL CLEANER.

Plastic Body. 2500 gr weight for heavy duty usage. Wheels with Adjustable height. Suitable for both concrete and liner pools d38 mm hose connection. Pole connection with clip. 1,5" hose connection.

| Description                   | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------|---------|----------------|--------------|--------------------------|
| • Heavy-Duty Flex             | 09224   | 1              |              |                          |
| • Ditto, with brush on bottom | 09225   | 1              |              |                          |
| • Metallic Handle             | 0922401 | 1              |              |                          |



**NEW !**



### GEMAS "FLEX" POOL CLEANER.

| Description                | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------|-------|----------------|--------------|--------------------------|
| • Flex Pool Cleaner        | 09220 | 1              |              |                          |
| • Ditto, with side brushes | 09223 | 1              |              |                          |



### "AQUAQUIK" POOL AND SPA CLEANER.

Manual cleaner with hand pump for easy cleaning in pools and spas. Works without hose. Package is complete with flat scoop, brush, wide and narrow suction heads and wall assembly part. Length:140 cm. Dia: 7,5 cm

| Description    | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|-------|----------------|--------------|--------------------------|
| Pool & SPA VAC | 09216 | 1              | 1,418        | 0,060                    |



## Vacuum Hoses



### GEMAS VACUUM HOSE.

Economic blue and white colored, 30 m roll. Without adapter.

| Description                       | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|--------------|------------|-----------|-----------------------|
| • D.38 mm, 1,5"- Price per meter. | <b>09511</b> | 30         | 4,992     | 0,152                 |
| • D.50 mm, 2"- Price per meter.   | <b>09512</b> | 30         | 7,696     | 0,298                 |



### GEMAS VACUUM HOSE.

Blue or white colored. Different lengths of D.38 mm, special hose adapter included. Sold in box.

| Description   | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------|---------------|------------|-----------|-----------------------|
| • 1,5" - 8 m  | <b>095111</b> | 1          | 2,784     | 0,073                 |
| • 1,5" - 10 m | <b>095112</b> | 1          | 3,112     | 0,073                 |
| • 1,5" - 12 m | <b>095113</b> | 1          | 3,340     | 0,073                 |
| • 1,5" - 15 m | <b>095114</b> | 1          | 3,932     | 0,073                 |



### GEMAS VACUUM HOSE.

Blue or white colored. Different lengths of D.50 mm, special hose adapter included. Sold in box.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • 2" - 12 m | <b>095121</b> | 1          | 4,646     | 0,127                 |
| • 2" - 15 m | <b>095122</b> | 1          | 5,372     | 0,127                 |
| • 2" - 18 m | <b>095123</b> | 1          | 6,098     | 0,127                 |



### GEMAS "EVAPOOL VACUUM HOSE".

Economic blue striped, white colored. 30 m rolls.

| Description                       | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|---------------|------------|-----------|-----------------------|
| • D.38 mm, 1,5"- Price per meter. | <b>09511E</b> | 30 m       |           |                       |
| • D.50 mm, 2"- Price per meter.   | <b>09512E</b> | 30 m       |           |                       |



### GEMAS "EVAPOOL VACUUM HOSE".

Blue striped, white colored. Different lengths of D.38 mm. With special adapter. Sold in box.

| Description   | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------|----------------|------------|-----------|-----------------------|
| • 1,5" - 8 m  | <b>09511E1</b> |            |           |                       |
| • 1,5" - 10 m | <b>09511E2</b> |            |           |                       |
| • 1,5" - 12 m | <b>09511E3</b> |            |           |                       |
| • 1,5" - 15 m | <b>09511E4</b> |            |           |                       |



### GEMAS "EVAPOOL VACUUM HOSE".

Blue striped, white colored. Different lengths of D.50 mm. With special adapter. Sold in box.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • 2" - 12 m | <b>09512E1</b> |            |           |                       |
| • 2" - 15 m | <b>09512E2</b> |            |           |                       |
| • 2" - 18 m | <b>09512E4</b> |            |           |                       |



## Hose Adapters and Clips

### GEMAS LINK CONNECTOR.

For connection of Ø38 mm hose to "04134" suction inlet, in white ABS plastic. 1,5" threaded.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>09821</b> | 20             | 0,812        | 0,006                    |



### BULLDOG CLIP. For hose fixing, in stainless steel.

| Description               | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------|--------------|----------------|--------------|--------------------------|
| • For Ø38 mm. (1,5") hose | <b>09831</b> | 100            | 3,000        | 0,001                    |
| • For Ø50 mm. (2") hose   | <b>09832</b> | 50             | 1,800        | 0,002                    |



### GEMAS HOSE CUFFS. In flexible PVC plastic, threaded inside.

| Description                                  | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------|--------------|----------------|--------------|--------------------------|
| • For Ø38 mm. (1,5") hose                    | <b>09811</b> | 120            | 6,000        | 0,028                    |
| • For Ø50 mm. (2") hose                      | <b>09812</b> | 120            | 7,200        | 0,028                    |
| • For both Ø38 mm and Ø50 mm Gemas Eva hose. | <b>09813</b> | 120            | 10,800       | 0,064                    |
| • For both Ø38 mm and Ø50 mm Gemas hose.     | <b>09814</b> | 120            | 10,800       | 0,064                    |



### GEMAS THREADED HOSE CUFFS. In PVC plastic, 1,5" male threaded.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| For Ø38 mm. | <b>09841</b> |                | 0,040        |                          |



### GEMAS HOSE COLLECTION WHEEL.

Made of ABS plastic. 15 m of D.38 Hose collection capacity.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Hose wheel  | <b>09513</b> | 1              | 2,678        | 0,044                    |



### GEMAS LEAF TRAP.

Transparent body. Designed to assemble on vacuum hose. Can be cleaned easily. Complete with hose connections, Ø38 mm. (please ask adaptors for Ø50 mm).

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| Leaf Trap   | <b>09851</b> | 1              |              |                          |



## Leaf Scoops



**GEMAS LEAF SCOOP IN PLASTIC.** Fixing with clip.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 09710 | 12         | 3,350     | 0,053                 |



**GEMAS LEAF SKIMMER IN PLASTIC.** Fixing with clip.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 09720 | 12         | 3,780     | 0,053                 |



**GEMAS "LUX" LEAF SCOOP IN PLASTIC.** Fixing with clip.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 09730 | 12         | 7,950     | 0,085                 |



**GEMAS "ECONOMIC" LEAF SCOOP IN PLASTIC.** Fixing with clip.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 09740 | 12         |           |                       |



## Pool Brushes

### GEMAS VACUUM BRUSH IN PLASTIC.

Pool wall brush, standard. With hose connection.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|-------|----------------|--------------|--------------|
|             | 09624 | 1              |              |              |



### GEMAS WALL BRUSH IN PLASTIC. Pool wall brush, 60 cm, standard.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|-------|----------------|--------------|--------------|
|             | 09622 | 1              |              |              |



### GEMAS WALL BRUSH IN PLASTIC. Pool wall brush, 90 cm, standard.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|-------|----------------|--------------|--------------|
|             | 09623 | 1              |              |              |



### GEMAS CURVED BRUSH IN PLASTIC. Pool wall brush, 46 cm, standard.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|-------|----------------|--------------|--------------|
|             | 09620 | 1              | 0,348        | 0,002        |



### GEMAS FLOOR BRUSH IN PLASTIC.

| Description    | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|----------------|-------|----------------|--------------|--------------|
| • Flat 12,5 cm | 09611 |                |              |              |
| • Flat 26 cm   | 09626 | 2              | 0,244        | 0,002        |



### GEMAS ALGAE BRUSH WITH STAINLESS STEEL BRISTLES.

| Description    | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|----------------|-------|----------------|--------------|--------------|
| • W = 12,50 cm | 09612 | 1              | 0,160        | 0,001        |
| • W = 25,00 cm | 09613 | 1              | 0,304        | 0,002        |



### GEMAS CORNER BRUSH. Corner Brush. Circular. Plastic.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|-------|----------------|--------------|--------------|
|             | 09640 | 1              | 0,114        | 0,001        |



## Auxiliary Cleaning Equipment



**GEMAS SCRUBBING PAD.** With plastic handle.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09633 |                |              |                          |



**GEMAS SCRUBBING PAD.** Plastic.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09632 |                | 0,050        | 0,050                    |



**GEMAS "LUX" LEAF SCOOP IN PLASTIC.** Fixing with clip.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09630 |                | 0,296        | 0,001                    |



**GEMAS PUMICE.** Plastic clip body. Used for algae cleaning between ceramics.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09631 |                | 0,096        |                          |



**GEMAS LIFEGUARD HOOK.** Aluminum.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09800 |                | 0,408        | 0,044                    |



**GEMAS LIFEGUARD RING.** Plastic.

| Description             | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------|-------|----------------|--------------|--------------------------|
| • Big Life Buoy 440x700 | 09809 | 1              |              |                          |
| • Small Life Buoy       | 09810 | 1              |              |                          |



**GEMAS LIFEGUARD RING - WALL HANG PART.** Stainless Steel.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
|             | 09815 | 1              |              |                          |



## Telescopic Handles

### TELESCOPIC HANDLES.

In anodized aluminium (natural or gold color). Connection via clip or butterfly nut.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-------------|--------------|----------------|--------------|--------------|
| • 1 x 1,5 m | <b>09410</b> | 1              | 0,430        | 0,159        |
| • 1 x 3 m   | <b>09420</b> | 1              | 0,890        | 0,312        |
| • 2 x 2 m   | <b>09430</b> | 1              | 1,100        | 0,220        |
| • 2 x 2,4 m | <b>09490</b> | 1              | 1,600        | 0,261        |
| • 2 x 3 m   | <b>09440</b> | 1              | 1,500        | 0,323        |
| • 3 x 1,5 m | <b>09450</b> | 1              | 1,300        | 0,169        |
| • 3 x 2 m   | <b>09460</b> | 1              | 1,540        | 0,220        |
| • 3 x 3 m   | <b>09470</b> | 1              | 2,200        | 0,328        |
| • 3 x 6 m   | <b>09480</b> | 1              | 4,200        | 0,630        |



09420



09430

### TELESCOPIC HANDLE.

Aluminum, blue anodized. Stripy lower body.

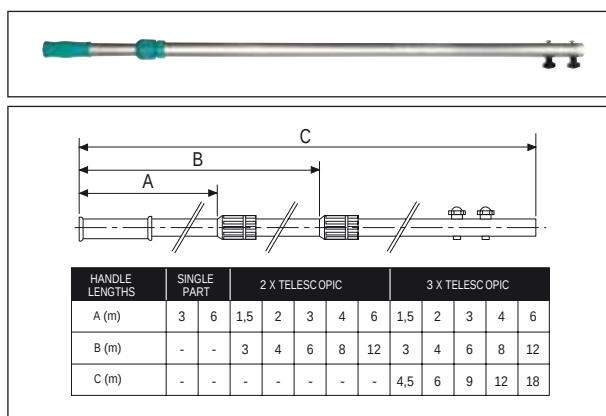
| Description      | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|------------------|--------------|----------------|--------------|--------------|
| • 2 x 1,8 m      | <b>09489</b> | 1              | 0,800        | 0,262        |
| • 2 x 2,4 m      | <b>09491</b> | 1              | 1,000        | 0,262        |
| • 2 x 3,0 m Blue | <b>09492</b> | 1              |              |              |



09489



09491



### WALL HANG SET FOR TELESCOPIC HANDLE.

Made of Plastic. Complete with screws.

| Description   | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|---------------|--------------|----------------|--------------|--------------|
| Wall Hang Set | <b>09400</b> | 1              | 0,160        | 0,001        |



## Pool Thermometers



### Pool Thermometers, floating.

| Description                            | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|--------------|------------|-----------|-----------------------|
| • Thermometer - Floating Type (Duck)   | <b>10414</b> | 24         |           |                       |
| • Thermometer - Floating Type (Fish)   | <b>10412</b> | 24         |           |                       |
| • Thermometer - Floating Type (Turtle) | <b>10415</b> | 24         |           |                       |



### Pool Thermometer, to be connected to the ladder.

| Description                     | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|--------------|------------|-----------|-----------------------|
| • Thermometer - Floating Type   | <b>10411</b> | 1          | 0,090     |                       |
| • To be connected to the ladder | <b>10421</b> | 1          | 0,068     |                       |



### Pool Thermometer, floating and circular scaled, Ø190 mm.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>10431</b> | 1          | 0,298     | 0,010                 |



### Digital Pool Thermometer with Solar Battery, Ø80 mm.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>10432</b> | 1          | 0,140     | 0,001                 |

## Pool Ice Barrier



**Pool Ice Barrier.** Made of Plastic. 49 x 24 cm size floating barrier is arrayed all around the pool perimeter. Protects the pool coating by absorbing the expansion of freezing at very low atmospheric temperature.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| Ice Barrier | <b>1297105</b> | Piece      |           |                       |

## Pool Heat Pumps

### GEMAS Heat Pump.

Uses the extant heat in the air for 80% of the total energy required to heat up the pool. Consumes electrical energy only for the 20% of the required heat.

- Operational costs are 80% lower compared to natural gas. System can be used for heating or cooling. It is the only solution for shock pools.
- The heat exchanger that transfers energy from air to water is made of titanium. It can be installed in the pools with sea water.
- An electronic-digital control board on the device that also shows the temperature of the water.
- Heating or cooling modes are also selected with the help of this board.
- The heat pump can easily be installed on the extant pool installations without any infrastructural problems.
- The heat pump is designed to change the water temperature by  $\pm 12^{\circ}\text{C}$  in 5 days when the outside temperature  $20^{\circ}\text{C}$ .
- Using a solar pool cover that provides isolation will shorten the time and reduce energy consumption.
- The heat pump does not work efficiently when the ambient temperature is below  $10^{\circ}\text{C}$ .



101313



101315



101317



101320

| Description                         | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------|---------------|------------|-----------|-----------------------|
| • 030MS3 - Heating/Cooling, 12,6 kW | <b>101313</b> | 1          |           |                       |
| • 040MS3 - Heating/Cooling, 18,9 kW | <b>101314</b> | 1          |           |                       |
| • 060MS3 - Heating/Cooling, 25,2 kW | <b>101315</b> | 1          |           |                       |
| • 080MS3 - Heating/Cooling, 33,8 kW | <b>101317</b> | 1          |           |                       |
| • 100MS3 - Heating/Cooling, 42 kW   | <b>101318</b> | 1          |           |                       |
| • 120MS3 - Heating/Cooling, 50,4 kW | <b>101320</b> | 1          |           |                       |

### ATTENTION! :

Below pool volumes are valid during the heating period (1 may - 15 september) for the conditions when the system is on for 15 hours a day and the pool is covered with an isolated cover during the night. If these conditions cannot be fulfilled, a larger model is recommended.

| Model                            | FPHC              | 030T        | 045T         | 060T3        | 080T3        | 100T3         | 120T3         |
|----------------------------------|-------------------|-------------|--------------|--------------|--------------|---------------|---------------|
| Cooling gas                      |                   | R410A       | R410A        | R410A        | R410A        | R410A         | R410A         |
| Heating Capacity*                | kW                | 12,6        | 18,9         | 25,2         | 33,0         | 42,0          | 50,4          |
| COP* A:24/W:28                   | W/W               | 5,5         | 5,5          | 5,5          | 5,5          | 5,5           | 5,5           |
| Input Power*                     | kW                | 2,29        | 3,44         | 4,58         | 6,11         | 7,64          | 9,16          |
| Input Current*                   | A                 | 10,4        | 15,6         | 8,7          | 11,6         | 14,5          | 17,4          |
| Heating Capacity**               | kW                | 10,5        | 15,8         | 21,0         | 28,0         | 35,0          | 42,0          |
| COP** A:15/W:28                  | W/W               | 4,6         | 4,6          | 4,6          | 4,6          | 4,6           | 4,6           |
| Input Power**                    | kW                | 2,28        | 3,43         | 4,57         | 6,09         | 7,61          | 9,13          |
| Input Current**                  | A                 | 10,4        | 15,6         | 8,7          | 11,6         | 14,5          | 17,3          |
| Havuz Hacmi ****                 | m <sup>3</sup>    | 30          | 50           | 65           | 80           | 130           | 180           |
| Cooling Capacity (A35W28)        | kW                | 7,5         | 11,3         | 15,0         | 20,0         | 25,0          | 30,0          |
|                                  | BTU/h             | 25590       | 38385        | 51180        | 68240        | 85300         | 102360        |
| COP A:35/W:28                    | W/W               | 2,8         | 2,8          | 2,8          | 2,8          | 2,8           | 2,8           |
| Input Power                      | kW                | 2,68        | 4,02         | 5,36         | 7,14         | 8,93          | 10,71         |
| Input Current                    | A                 | 13,4        | 20,1         | 10,7         | 14,3         | 17,9          | 21,4          |
| Power Supply                     | V/PH/Hz           | 220/1/50    | 220/1/50     | 380/3/50     | 380/3/50     | 380/3/50      | 380/3/50      |
| Compressor                       |                   | Rotary      | Rotary       | Scroll       | Scroll       | Scroll        | Scroll        |
| Compressor Qty                   |                   | 1           | 1            | 1            | 2            | 2             | 2             |
| Fan Qty                          |                   | 1           | 1            | 1            | 2            | 2             | 2             |
| Noise                            | dB(A)             | 52          | 54           | 55           | 58           | 60            | 62            |
| Water Out let/Water In let       | inch              | 1-1/2"      | 1-1/2"       | 1-1/2"       | 2"           | 2"            | 2"            |
| Water Flow Volume                | m <sup>3</sup> /h | 3,61        | 5,42         | 7,22         | 9,63         | 12,04         | 14,45         |
| Water Pressure Drop              | kpa               | 15          | 16           | 16           | 18           | 18            | 18            |
| Fan Direction                    |                   | Vertical    | Vertical     | Vertical     | Vertical     | Vertical      | Vertical      |
| Unit Net Dimensions (L/M/H)      | mm                | 640/590/790 | 710/660/940  | 810/660/940  | 810/660/990  | 1450/730/1135 | 1450/730/1335 |
| Unit Shipping Dimensions (L/M/H) | mm                | 680/630/910 | 750/700/1060 | 850/700/1060 | 850/700/1110 | 1520/750/1290 | 1520/750/1490 |
| Net Weight                       | kg                | 80          | 98           | 113          | 240          | 260           | 280           |
| Shipping Weight                  | kg                | 88          | 120          | 125          | 270          | 290           | 310           |

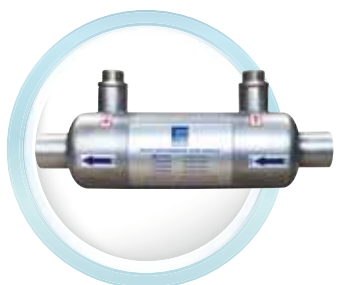
## Pool Heat Pumps



### Models with Inverter:

| Description                                      | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------|---------------|------------|-----------|-----------------------|
| • FIP7S - Heating: 7.80 kW / Cooling, 4.30 kW    | <b>101325</b> | 1          |           |                       |
| • FIP10S - Heating: 10.60 kW / Cooling, 5.90 kW  | <b>101326</b> | 1          |           |                       |
| • FIP13S - Heating: 13.70 kW / Cooling, 7.30 kW  | <b>101327</b> | 1          |           |                       |
| • FIP17S - Heating: 17.20 kW / Cooling, 9.50 kW  | <b>101329</b> | 1          |           |                       |
| • FIP21S - Heating: 21.40 kW / Cooling, 11.60 kW | <b>101334</b> | 1          |           |                       |
| • FIP30S - Heating: 30.00 kW / Cooling, 15.90 kW | <b>101335</b> | 1          |           |                       |

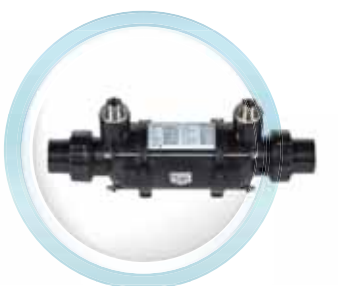
## Heat Exchangers, Shell & Tube Type



### GEMAS Heat Exchangers, Shell and Tube Type.

Made of AISI 316 quality Stainless Steel. Max. pressure 10 bars. Operated by 90-70 °C hot water from the boiler. Connection cuffs are not included.

| Description                                              | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • 22.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75  | <b>101210</b>   | 1          |           |                       |
| • 35.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75  | <b>101211</b>   | 1          |           |                       |
| • 40.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75  | <b>101217</b>   | 1          |           |                       |
| • 65.000 kcal/h Conn.: Pool side 1,5"- boiler side 1"    | <b>101212</b>   | 1          |           |                       |
| • 80.000 kcal/h Conn.: Pool side 2"- boiler side 1"      | <b>101218</b>   | 1          |           |                       |
| • 90.000 kcal/h Conn.: Pool side 2"- boiler side 2x1"    | <b>101213</b>   | 1          |           |                       |
| • 110.000 kcal/h Conn.: Pool side 2"- boiler side 1"     | <b>101219</b>   | 1          |           |                       |
| • 180.000 kcal/h Conn.: Pool side 2"- boiler side 2x1,5" | <b>101214</b>   | 1          |           |                       |
| • 220.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"   | <b>101220</b>   | 1          |           |                       |
| • 250.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"   | <b>101215</b>   | 1          |           |                       |
| • 330.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"   | <b>101221</b>   | 1          |           |                       |
| • 400.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"   | <b>101216</b>   | 1          |           |                       |
| • St. Steel Wall Clampset                                | <b>10121101</b> | 1          |           |                       |



Heat Exchangers, Shell and Tube Type. With plastic body, AISI 316/Titanium-Corrugated Metal Coil. The plastic body is resistant to high pressure and corrosion. It is attractive in terms of cost advantage and quality. It works with hot water (90/70°C) from the boiler. Max. pressure: Primary (boiler side) circuit 6 bar, secondary (poolside) 2 bar. Connection fittings are ABS, O-rings are silicone.

| Description                                    | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|----------------|------------|-----------|-----------------------|
| • D-KWT 25, 25 kW - 21,500 kcal/h, AISI 316    | <b>101201</b>  | 1          |           |                       |
| • D-KWT 45, 45 kW - 39,560 kcal/h, AISI 316    | <b>101202</b>  | 1          |           |                       |
| • D-KWT 85, 85 kW - 78,260 kcal/h, AISI 316    | <b>101203</b>  | 1          |           |                       |
| • D-KWT 105, 105 kW - 108,360 kcal/h, AISI 316 | <b>101204</b>  | 1          |           |                       |
| • D-KWT 25, Titanium                           | <b>101201T</b> | 1          |           |                       |
| • D-KWT 45, Titanium                           | <b>101202T</b> | 1          |           |                       |
| • D-KWT 85, Titanium                           | <b>101203T</b> | 1          |           |                       |
| • D-KWT 105, Titanium                          | <b>101204T</b> | 1          |           |                       |





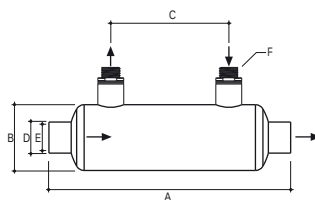
## Heat Exchangers, Shell & Tube Type

| Model                    |        | D-KWT 25            | D-KWT 45            | D-KWT 85            | D-KWT 105           |
|--------------------------|--------|---------------------|---------------------|---------------------|---------------------|
| Heating Capacity         | kw     | 25                  | 45                  | 91                  | 126                 |
| Heating Capacity         | kcal/h | 21.500              | 39.560              | 78.260              | 108.360             |
| Temperature difference   | °C     | 70 = 0.36 kW/°C     | 70 = 0.66 kW/°C     | 70 = 1.3 kW/°C      | 70 = 1.8 kW/°C      |
| Area                     | m²     | 0.09                | 0.15                | 0.33                | 0.54                |
| Flow Primary*            | m³/h   | 2                   | 2                   | 2                   | 2                   |
| Flow Secondary*          | m³/h   | 8                   | 10                  | 12                  | 15                  |
| Pressure Loss Primary*   | bar    | 0.10                | 0.15                | 0.28                | 0.36                |
| Pressure Loss Secondary* | bar    | 0.11                | 0.15                | 0.22                | 0.30                |
| Max. Pressure Primary*   | bar    | 6                   | 6                   | 6                   | 6                   |
| Max. Pressure Secondary* | bar    | 2                   | 2                   | 2                   | 2                   |
| Outer Body               |        | PP 30% Fiberglass   | PP 30% Fiberglass   | PP 30% Fiberglass   | PP 30% Fiberglass   |
| Connection Socket        |        | ABS                 | ABS                 | ABS                 | ABS                 |
| O-ring                   |        | Silicon             | Silicon             | Silicon             | Silicon             |
| Spiral Hose              |        | AISI 316 / Titanium | AISI 316 / Titanium | AISI 316 / Titanium | AISI 316 / Titanium |
| Weight                   | kg     | 1.8                 | 2.2                 | 3.6                 | 5.3                 |
| Packaging Volume         | m³     | 0.079               | 0.095               | 0.162               | 0.233               |

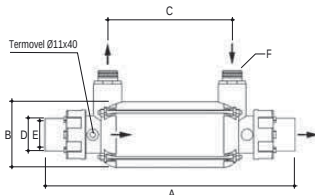
\*Primary: Heating fluid, Secondary: Heating fluid (Pool water)

\*\*The technical value table above also applies to Gemas Shell and Tube Type Heat Exchangers.

| Heat Exchanger Type     | Dimensions |        |        |           |        |      |
|-------------------------|------------|--------|--------|-----------|--------|------|
|                         | A (mm)     | B (mm) | C (mm) | D         | E (mm) | F    |
| 101210 - 22.000 kcal/h  | 350        | 110    | 135    | D.63-PN10 | 50     | 3/4" |
| 101217 - 40.000 kcal/h  | 420        | 110    | 205    | D.63-PN10 | 50     | 3/4" |
| 101212 - 65.000 kcal/h  | 665        | 110    | 450    | D.63-PN10 | 50     | 1"   |
| 101218 - 80.000 kcal/h  | 710        | 110    | 495    | D.63-PN10 | 50     | 1"   |
| 101219 - 110.000 kcal/h | 1020       | 110    | 805    | D.63-PN10 | 50     | 1"   |



| Heat Exchanger Type        | Dimensions |        |        |           |        |      |
|----------------------------|------------|--------|--------|-----------|--------|------|
|                            | A (mm)     | B (mm) | C (mm) | D         | E (mm) | F    |
| D-KWT25 AISI 316/Titanium  | 345        | 110    | 135    | D.63-PN10 | 50     | 3/4" |
| D-KWT45 AISI 316/Titanium  | 415        | 110    | 205    | D.63-PN10 | 50     | 3/4" |
| D-KWT85 AISI 316/Titanium  | 705        | 110    | 495    | D.63-PN10 | 50     | 1"   |
| D-KWT105 AISI 316/Titanium | 1015       | 110    | 805    | D.63-PN10 | 50     | 1"   |

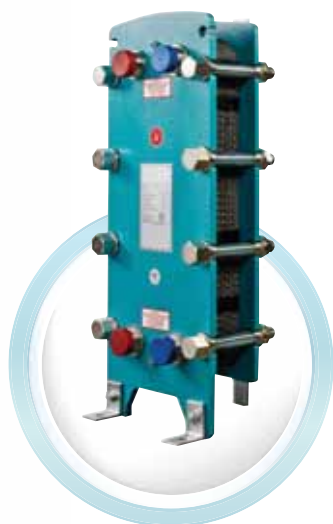


### Shell & Tube Type Heat Exchanger Selection Chart

| Model                  | D-KWT 25   |            |            | D-KWT 45   |            |            | D-KWT 85   |            |            | D-KWT 105  |            |            |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Pool Water             | 20 °C      | 24 °C      | 28 °C      | 20 °C      | 24 °C      | 28 °C      | 20 °C      | 24 °C      | 28 °C      | 20 °C      | 24 °C      | 28 °C      |
| Heating Capacity       | 25 kW      | 23,5 kW    | 22,1 kW    | 46 kW      | 43,4 kW    | 40,7 kW    | 91 kW      | 85,8 kW    | 80,6 kW    | 126 kW     | 118,8 kW   | 111,6 kW   |
| Primary Input/Output   | 90/79 °C   | 90/79,6 °C | 90/80,2 °C | 90/69,6 °C | 90/70,8 °C | 90/72 °C   | 90/49,6 °C | 90/52 °C   | 90/54,2 °C | 90/34 °C   | 90/37,3 °C | 90/40,5 °C |
| Secondary Input/Output | 20/22,7 °C | 24/26,5 °C | 28/30,4 °C | 20/24 °C   | 24/27,8 °C | 28/31,5 °C | 20/26,5 °C | 24/30,2 °C | 28/33,8 °C | 20/27,2 °C | 24/30,8 °C | 28/34,4 °C |
| Heating Capacity       | 21,5 kW    | 20 kW      | 18,6 kW    | 39 kW      | 36,4 kW    | 33,7 kW    | 78 kW      | 72,8 kW    | 67,6 kW    | 108 kW     | 100,8 kW   | 93,6 kW    |
| Primary Input/Output   | 80/70,5 °C | 80/71,2 °C | 80/71,8 °C | 80/62,8 °C | 80/64 °C   | 80/65,1 °C | 80/45,5 °C | 80/47,8 °C | 80/50,1 °C | 80/32,3 °C | 80/35,5 °C | 80/38,7 °C |
| Secondary Input/Output | 20/22,3 °C | 24/26,2 °C | 28/30 °C   | 20/23,4 °C | 24/27,1 °C | 28/30,9 °C | 20/25,6 °C | 24/29,2 °C | 28/32,9 °C | 20/26,2 °C | 24/29,8 °C | 28/33,4 °C |
| Heating Capacity       | 18 kW      | 16,5 kW    | 15,1 kW    | 32 kW      | 29,4 kW    | 26,7 kW    | 65 kW      | 59,8 kW    | 54,6 kW    | 90 kW      | 82,8 kW    | 75,6 kW    |
| Primary Input/Output   | 70/62 °C   | 70/62,8 °C | 70/63,4 °C | 70/55,9 °C | 70/57 °C   | 70/58,3 °C | 70/41,4 °C | 70/43,7 °C | 70/46 °C   | 70/30,4 °C | 70/33,6 °C | 70/36,7 °C |
| Secondary Input/Output | 20/21,9 °C | 24/25,8 °C | 28/29,6 °C | 20/22,8 °C | 24/26,5 °C | 28/30,3 °C | 20/24,7 °C | 24/28,3 °C | 28/31,9 °C | 20/25,2 °C | 24/28,8 °C | 28/32,4 °C |
| Heating Capacity       | 14,5 kW    | 13 kW      | 11,6 kW    | 25 kW      | 22,4 kW    | 19,7 kW    | 52 kW      | 46,8 kW    | 41,6 kW    | 72 kW      | 64,8 kW    | 57,6 kW    |
| Primary Input/Output   | 60/53,6 °C | 60/54,3 °C | 60/54,9 °C | 60/49 °C   | 60/50,2 °C | 60/51,4 °C | 60/37,2 °C | 60/39,5 °C | 60/41,8 °C | 60/28,4 °C | 60/31,6 °C | 60/34,8 °C |
| Secondary Input/Output | 20/21,6 °C | 24/25,4 °C | 28/29,2 °C | 20/22,1 °C | 24/25,9 °C | 28/29,7 °C | 20/23,7 °C | 24/27,4 °C | 28/31 °C   | 20/24,1 °C | 24/27,7 °C | 28/31,3 °C |
| Heating Capacity       | 11 kW      | 9,5 kW     | 8,1 kW     | 18 kW      | 15,4 kW    | 12,7 kW    | 39 kW      | 33,8 kW    | 28,6 kW    | 54 kW      | 46,8 kW    | 39,6 kW    |
| Primary Input/Output   | 50/45,2 °C | 50/45,9 °C | 50/46,5 °C | 50/42,1 °C | 50/43,3 °C | 50/44,5 °C | 50/33 °C   | 50/35,2 °C | 50/37,5 °C | 50/26,4 °C | 50/29,6 °C | 50/32,7 °C |
| Secondary Input/Output | 20/21,2 °C | 24/25 °C   | 28/28,9 °C | 20/21,5 °C | 24/25,3 °C | 28/29,1 °C | 20/22,8 °C | 24/26,4 °C | 28/30,1 °C | 20/23,1 °C | 24/26,7 °C | 28/30,3 °C |

## Plate Heat Exchangers - High Pressure Drop

**GEMAS Stainless Steel Plate Heat Exchanger.** Made of AISI 316 quality stainless steel with nitril or EPDM seal exchangers. Operated by 90-70°C hot water from boiler. Max. pressure 10 bars - Max. heat 130°C. Pressure loss from boiler and pool is 5 mwh.

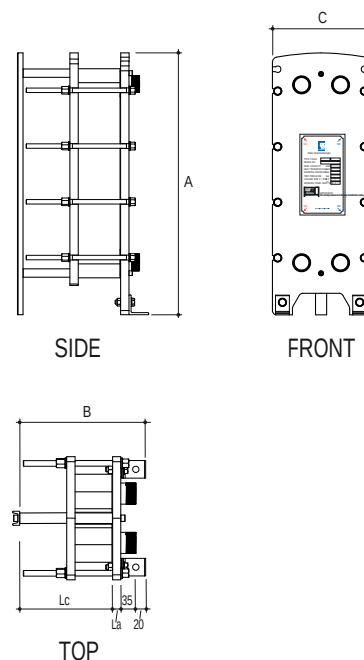
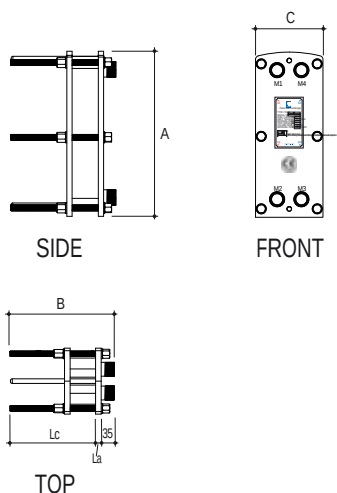


101260 Optional

| Description                          | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|---------------|------------|-----------|-----------------------|
| • 30,000 kcal/h, 504 Body, 5 Pl.     | <b>101251</b> | 1          |           |                       |
| • 40,000 kcal/h, 504 Body, 6 Pl.     | <b>101252</b> | 1          |           |                       |
| • 50,000 kcal/h, 504 Body, 7 Pl.     | <b>101253</b> | 1          |           |                       |
| • 60,000 kcal/h, 504 Body, 8 Pl.     | <b>101254</b> | 1          |           |                       |
| • 70,000 kcal/h, 504 Body, 10 Pl.    | <b>101255</b> | 1          |           |                       |
| • 80,000 kcal/h, 504 Body, 10 Pl.    | <b>101256</b> | 1          |           |                       |
| • 90,000 kcal/h, 504 Body, 12 Pl.    | <b>101257</b> | 1          |           |                       |
| • 100,000 kcal/h, 504 Body, 12 Pl.   | <b>101258</b> | 1          |           |                       |
| • 125,000 kcal/h, 504 Body, 16 Pl.   | <b>101259</b> | 1          |           |                       |
| • 150,000 kcal/h, 504 Body, 20 Pl.   | <b>101261</b> | 1          |           |                       |
| • 175,000 kcal/h, 504 Body, 24 Pl.   | <b>101262</b> | 1          |           |                       |
| • 200,000 kcal/h, 514 Body, 10 Pl.   | <b>101263</b> | 1          |           |                       |
| • 250,000 kcal/h, 514 Body, 12 Pl.   | <b>101264</b> | 1          |           |                       |
| • 300,000 kcal/h, 514 Body, 14 Pl.   | <b>101265</b> | 1          |           |                       |
| • 325,000 kcal/h, 514 Body, 14 Pl.   | <b>101266</b> | 1          |           |                       |
| • 400,000 kcal/h, 514 Body, 18 Pl.   | <b>101267</b> | 1          |           |                       |
| • 500,000 kcal/h, 514 Body, 22 Pl.   | <b>101268</b> | 1          |           |                       |
| • 600,000 kcal/h, 514 Body, 28 Pl.   | <b>101269</b> | 1          |           |                       |
| • Thermostat and Solenoid Automation | <b>101260</b> | 1          |           |                       |

504 BODY

514 BODY



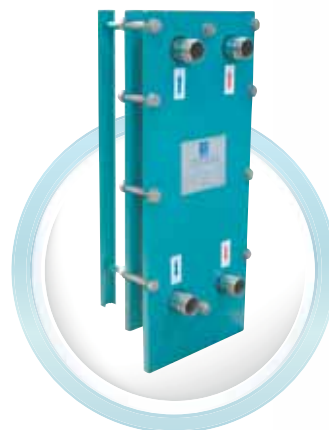
| Body Model | A (mm) | B (mm)            | C (mm) |
|------------|--------|-------------------|--------|
| 504 BODY   | 490    | La + Lc + 35      | 200    |
| 514 BODY   | 942    | La + Lc + 40 + 20 | 350    |

## Plate Heat Exchangers - Low Pressure Drop

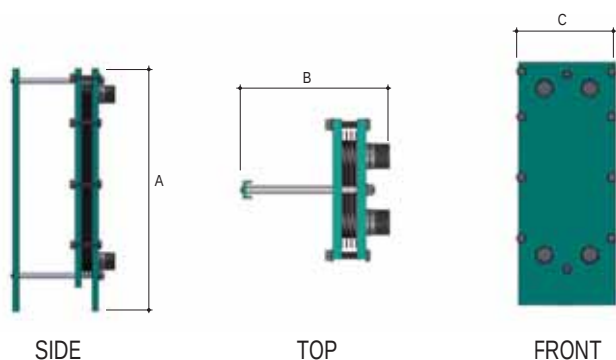
### GEMAS Plate Heat Exchangers.

Plates made of AISI 316 quality stainless steel, with nitril or EPDM gaskets. Body plates are 20 mm and painted over galvanization. Operated by 90-70°C hot water from boiler. Max Pressure 10 bar - Max temperature 130°C. Pressure losses from the sides of the pool and boiler are shown separately for each capacity.

| Description                                                                                           | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • 40,000 kcal/h: Pool side 1,02 mwh -<br>Boiler side 1,00 mwh 2,00 - 2,00 m <sup>3</sup> /h 6 pl.     | <b>101231</b> | 1              | 34,500       |                          |
| • 65,000 kcal/h: Pool side 1,16 mwh -<br>Boiler side 1,20 mwh 3,20 - 3,30 m <sup>3</sup> /h 8 pl.     | <b>101232</b> | 1              | 35,900       |                          |
| • 90,000 kcal/h: Pool side 1,28 mwh -<br>Boiler side 1,29 mwh 4,50 - 4,60 m <sup>3</sup> /h 10 pl.    | <b>101233</b> | 1              | 64,000       |                          |
| • 110,000 kcal/h: Pool side 1,21 mwh -<br>Boiler side 1,90 mwh 5,50 - 5,60 m <sup>3</sup> /h 11 pl.   | <b>101234</b> | 1              | 65,200       |                          |
| • 130,000 kcal/h: Pool side 1,18 mwh -<br>Boiler side 1,71 mwh 6,50 - 6,60 m <sup>3</sup> /h 13 pl.   | <b>101235</b> | 1              | 85,600       |                          |
| • 150,000 kcal/h: Pool side 1,55 mwh -<br>Boiler side 1,60 mwh 7,50 - 7,70 m <sup>3</sup> /h 14 pl.   | <b>101236</b> | 1              | 87,200       |                          |
| • 180,000 kcal/h: Pool side 1,65 mwh -<br>Boiler side 1,70 mwh 9,00 - 9,20 m <sup>3</sup> /h 16 pl.   | <b>101237</b> | 1              | 87,200       |                          |
| • 225,000 kcal/h: Pool side 1,58 mwh -<br>Boiler side 1,63 mwh 11,00 - 11,00 m <sup>3</sup> /h 20 pl. | <b>101238</b> | 1              | 88,800       |                          |
| • 300,000 kcal/h: Pool side 1,63 mwh -<br>Boiler side 1,97 mwh 15,00 - 15,40 m <sup>3</sup> /h 25 pl. | <b>101239</b> | 1              |              |                          |
| • 400,000 kcal/h: Pool side 1,71 mwh -<br>Boiler side 1,97 mwh 20,00 - 20,50 m <sup>3</sup> /h 33 pl. | <b>101240</b> | 1              |              |                          |
| • 500,000 kcal/h: Pool side 1,81 mwh -<br>Boiler side 1,87 mwh 25,00 - 26,00 m <sup>3</sup> /h 41 pl. | <b>101241</b> | 1              |              |                          |
| • 700.000 kcal/h: Pool side 1,14 mwh -<br>Boiler side 1,88 mwh 27,00 - 36,00 m <sup>3</sup> /h 62 pl. | <b>101242</b> | 1              |              |                          |



101260 Optional

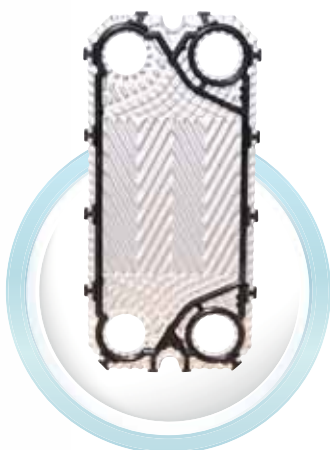
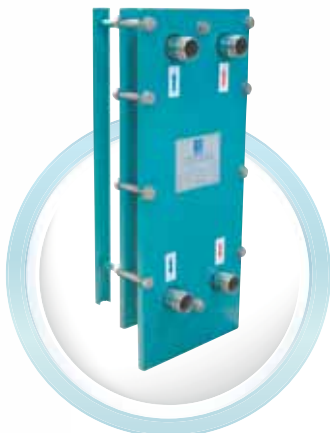


| Code                       | A (mm) | B (mm) | C (mm) |
|----------------------------|--------|--------|--------|
| 101231<br>101232<br>101233 | 580    | 255    | 290    |
| 101234<br>101235<br>101236 |        | 280    |        |
| 101237<br>101238<br>101239 |        | 330    |        |
| 101240<br>101241<br>101242 |        | 355    |        |

## Plate Heat Exchangers-Titanium-Low Pressure Drop

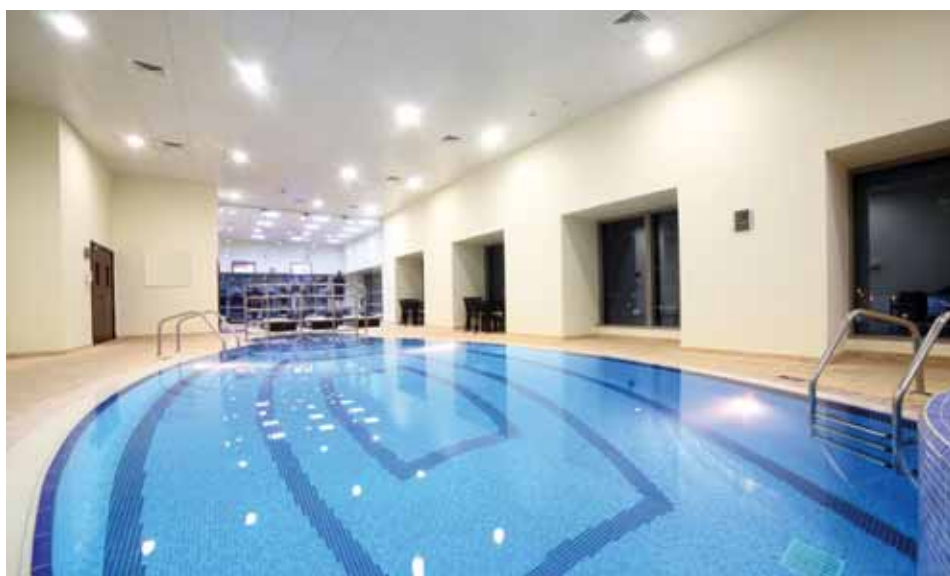
### GEMAS Titanium Plate Exchanger.

Titanium plates resistant to sea water. Seals of nitrile or EPDM. Operated by 90-70°C hot water from boiler. Max pressure 10 bars, max temperature 130°C. Pressure losses from the side of the pool and the boiler are shown below separately for each capacity.



| Description                                                                                           | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| • 40,000 kcal/h: Pool side 1,02 mwh -<br>Boiler side 1,00 mwh 2,00 - 2,00 m <sup>3</sup> /h 6 pl.     | <b>101231T</b> | 1          | 34,500    |                       |
| • 65,000 kcal/h: Pool side 1,16 mwh -<br>Boiler side 1,20 mwh 3,20 - 3,30 m <sup>3</sup> /h 8 pl.     | <b>101232T</b> | 1          | 35,900    |                       |
| • 90,000 kcal/h: Pool side 1,28 mwh -<br>Boiler side 1,29 mwh 4,50 - 4,60 m <sup>3</sup> /h 10 pl.    | <b>101233T</b> | 1          | 64,000    |                       |
| • 110,000 kcal/h: Pool side 1,21 mwh -<br>Boiler side 1,90 mwh 5,50 - 5,60 m <sup>3</sup> /h 11 pl.   | <b>101234T</b> | 1          | 65,200    |                       |
| • 130,000 kcal/h: Pool side 1,18 mwh -<br>Boiler side 1,71 mwh 6,50 - 6,60 m <sup>3</sup> /h 13 pl.   | <b>101235T</b> | 1          | 85,600    |                       |
| • 150,000 kcal/h: Pool side 1,55 mwh -<br>Boiler side 1,60 mwh 7,50 - 7,70 m <sup>3</sup> /h 14 pl.   | <b>101236T</b> | 1          | 87,200    |                       |
| • 180,000 kcal/h: Pool side 1,65 mwh -<br>Boiler side 1,70 mwh 9,00 - 9,20 m <sup>3</sup> /h 16 pl.   | <b>101237T</b> | 1          | 87,200    |                       |
| • 225,000 kcal/h: Pool side 1,58 mwh -<br>Boiler side 1,63 mwh 11,00 - 11,00 m <sup>3</sup> /h 20 pl. | <b>101238T</b> | 1          | 88,800    |                       |
| • 300,000 kcal/h: Pool side 1,63 mwh -<br>Boiler side 1,97 mwh 15,00 - 15,40 m <sup>3</sup> /h 25 pl. | <b>101239T</b> | 1          |           |                       |
| • 400,000 kcal/h: Pool side 1,71 mwh -<br>Boiler side 1,97 mwh 20,00 - 20,50 m <sup>3</sup> /h 33 pl. | <b>101240T</b> | 1          |           |                       |
| • 500,000 kcal/h: Pool side 1,81 mwh -<br>Boiler side 1,87 mwh 25,00 - 26,00 m <sup>3</sup> /h 41 pl. | <b>101241T</b> | 1          |           |                       |
| • 700,000 kcal/h: Pool side 1,14 mwh -<br>Boiler side 1,88 mwh 27,00 - 36,00 m <sup>3</sup> /h 62 pl. | <b>101242T</b> | 1          |           |                       |

**Option (101260):** Complete with solenoid valve, thermostat and thermostat cap for automation-€650.





## Electrical Heaters

### GEMAS Heatrone PRO

Electrical Heater with plastic body made of fiberglass reinforced PP. Triphase. Complete with magnetic contactors, thermal switch and flow switch. Control board has seven segment digital thermostat and led indicator for operation, as well as power control. Heating elements made of AISI 316 Stainless Steel. Timer is optional. Please add "O" at the end of existing code when ordering.

**NEW !**



| Description               | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------|--------------|-------------|-----------|-----------------------|
| • 9 kW Electrical Heater  | <b>10121</b> | 1           |           |                       |
| • 12 kW Electrical Heater | <b>10122</b> | 1           |           |                       |
| • 15 kW Electrical Heater | <b>10123</b> | 1           |           |                       |
| • 18 kW Electrical Heater | <b>10124</b> | 1           |           |                       |

### GEMAS Heatrone PRO-Ti

Ditto, but heating elements made of Titanium.

**NEW !**



| Description               | Code          | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------|---------------|-------------|-----------|-----------------------|
| • 9 kW Electrical Heater  | <b>10121T</b> | 1           |           |                       |
| • 12 kW Electrical Heater | <b>10122T</b> | 1           |           |                       |
| • 15 kW Electrical Heater | <b>10123T</b> | 1           |           |                       |
| • 18 kW Electrical Heater | <b>10124T</b> | 1           |           |                       |

### GEMAS Heatrone PRO-MINI

Electrical Heater with plastic body made of fiberglass reinforced PP. Complete with magnetic contactors, thermal switch and flow switch. Control board has seven segment digital thermostat and led indicator for operation, as well as power control. Heating elements made of AISI 316 Stainless Steel. Timer is optional. Please add "O" at the end of existing code when ordering.

**NEW !**



10020  
10021

10022  
10024

| Description                         | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------|--------------|-------------|-----------|-----------------------|
| • 1 kW Electrical Heater (Monofaze) | <b>10020</b> | 1           |           |                       |
| • 2 kW Electrical Heater (Monofaze) | <b>10021</b> | 1           |           |                       |
| • 3 kW Electrical Heater (Trifaze)  | <b>10022</b> | 1           |           |                       |
| • 6 kW Electrical Heater (Trifaze)  | <b>10024</b> | 1           |           |                       |

### GEMAS Heatrone PRO-MINI - Ti

Ditto, but heating elements made of Titanium.

**NEW !**



10020T  
10021T

10022T  
10024T

| Description                         | Code          | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------|---------------|-------------|-----------|-----------------------|
| • 1 kW Electrical Heater (Monofaze) | <b>10020T</b> | 1           |           |                       |
| • 2 kW Electrical Heater (Monofaze) | <b>10021T</b> | 1           |           |                       |
| • 3 kW Electrical Heater (Trifaze)  | <b>10022T</b> | 1           |           |                       |
| • 6 kW Electrical Heater (Trifaze)  | <b>10024T</b> | 1           |           |                       |



## Pool Thermometers

### Pool Thermometers, floating.

| Description                            | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|--------------|----------------|--------------|--------------------------|
| • Thermometer - Floating Type (Duck)   | <b>10414</b> | 24             |              |                          |
| • Thermometer - Floating Type (Fish)   | <b>10412</b> | 24             |              |                          |
| • Thermometer - Floating Type (Turtle) | <b>10415</b> | 24             |              |                          |



### Pool Thermometer, to be connected to the ladder.

| Description                     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|--------------|----------------|--------------|--------------------------|
| • Thermometer - Floating Type   | <b>10411</b> | 1              | 0,090        |                          |
| • To be connected to the ladder | <b>10421</b> | 1              | 0,068        |                          |



### Pool Thermometer, floating and circular scaled, Ø190 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>10431</b> | 1              | 0,298        | 0,010                    |



### Digital Pool Thermometer with Solar Battery, Ø80 mm.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>10432</b> | 1              | 0,140        | 0,001                    |



## Dehumidifiers

**GEMAS Dehumidifier.** Provides energy-saving humid control for indoor swimming pool. Allows adjusting desired humidity rate with digital hygrometer.

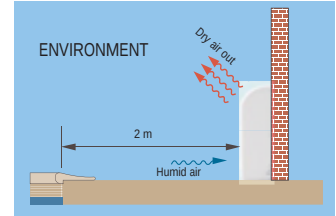


10231



10234

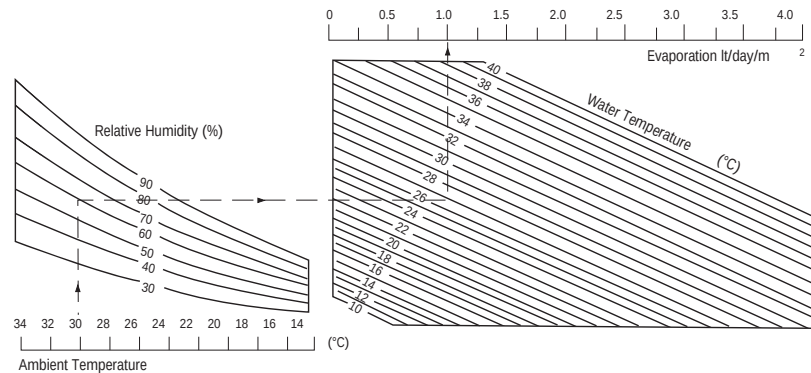
- Quite operation,
- HP Buster Technology,
- R410A Eco-Friendly Gas,
- Installation on basement or wall,
- Plastic Case,
- Optional Electrical Heater.



| Description                 | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------|--------------|------------|-----------|-----------------------|
| • Model MDH75A / 75 l/day   | <b>10231</b> | 1          | 57,000    | 0,244                 |
| • Model MDH90A / 90 l/day   | <b>10236</b> | 1          | 64,000    | 0,336                 |
| • Model MDH125A / 125 l/day | <b>10234</b> | 1          | 66,000    | 0,336                 |
| • Model MDH170A / 170 l/day | <b>10235</b> | 1          | 79,000    | 0,427                 |

**Note:** Test Conditions - 30°C ambient temperature, 80% relative humidity.

**Determination Chart for Daily Evaporation in Indoor Pool Areas**



| Model                                  | MDH75A          | MDH90A          | MDH125A         | MDH170A         |
|----------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Capacity (kg/24sa) 30°C/70% humidity*  | 75              | 90              | 125             | 170             |
| Heat Retention (kW) 30°C/70% humidity* | 3.2             | 4               | 5               | 8.2             |
| Noise Level (dB(A))                    | 48              | 50              | 50              | 52              |
| Air Flow (m³/h)                        | 600             | 1200            | 1200            | 1800            |
| Input Energy                           | 220V/1ph/50Hz   | 220V/1ph/50Hz   | 220V/1ph/50Hz   | 220V/1ph/50Hz   |
| Operation Power (kW)                   | 1.30            | 1.60            | 2.00            | 2.92            |
| Current (A)                            | 5.9             | 7.3             | 9.1             | 13.3            |
| Start Current (A)                      | 25              | 34              | 42              | 63              |
| Water Inlet (inch)                     | 3/4             | 3/4             | 3/4             | 3/4             |
| Water Outlet (inch)                    | 3/4             | 3/4             | 3/4             | 3/4             |
| Drainage (mm Dış Çap)                  | 16              | 16              | 16              | 16              |
| Operation Temperature (°C)             | 5 ~ 35          | 5 ~ 35          | 5 ~ 35          | 5 ~ 35          |
| Compressor Protection                  | 3 minutes delay | 3 minutes delay | 3 minutes delay | 3 minutes delay |
| Defrost Mode                           | Automatic       | Automatic       | Automatic       | Automatic       |
| Cooler                                 | R410A           | R410A           | R410A           | R410A           |
| Compressor                             | Rotary          | Rotary          | Rotary          | Rotary          |
| Net / Gross Weight (kg)                | 52/57           | 57/64           | 59/66           | 70/79           |
| Net Dimensions (mm)                    | 905x243x673     | 1288x243x673    | 1288x243x673    | 1672x243x673    |
| Package Dimensions (mm)                | 1015x315x765    | 1395x315x765    | 1395x315x765    | 1775x315x765    |



## Heat Requirement Chart For Miscellaneous Pools

| Pool Dimensions<br>(m) | Pool<br>Volume<br>(m³) | Heat Requirement (kcal/h) ( $\div 0,86 = \text{Watt}$ ) |        |        |                                 |         |        |                                |         |        |                                 |         |         |
|------------------------|------------------------|---------------------------------------------------------|--------|--------|---------------------------------|---------|--------|--------------------------------|---------|--------|---------------------------------|---------|---------|
|                        |                        | Wind Sheltered Pools                                    |        |        |                                 |         |        | Open Pools                     |         |        |                                 |         |         |
|                        |                        | $\Delta t = 5^{\circ}\text{C}$                          |        |        | $\Delta t = 10^{\circ}\text{C}$ |         |        | $\Delta t = 5^{\circ}\text{C}$ |         |        | $\Delta t = 10^{\circ}\text{C}$ |         |         |
|                        |                        | 24 h                                                    | 48 h   | 72 h   | 24 h                            | 48 h    | 72 h   | 24 h                           | 48 h    | 72 h   | 24 h                            | 48 h    | 72 h    |
| 4,00 x 8,00 x 1,50     | 48                     | 22385                                                   | 20215  | 18277  | 37660                           | 26030   | 22153  | 30642                          | 25641   | 23974  | 40644                           | 30642   | 27308   |
| 5,00 x 10,00 x 1,50    | 75                     | 34977                                                   | 27164  | 24560  | 50606                           | 34978   | 29769  | 47878                          | 40064   | 37459  | 63506                           | 47878   | 42669   |
| 6,00 x 12,00 x 1,50    | 108                    | 50368                                                   | 39116  | 35365  | 72872                           | 50368   | 42867  | 68944                          | 57692   | 53942  | 91448                           | 68944   | 61443   |
| 8,00 x 16,00 x 1,50    | 192                    | 89543                                                   | 69539  | 62872  | 129551                          | 89543   | 76208  | 122567                         | 102564  | 95896  | 189040                          | 142520  | 109232  |
| 12,50 x 25,00 x 1,50   | 469                    | 218663                                                  | 169800 | 153513 | 367895                          | 218664  | 186088 | 299288                         | 250425  | 224137 | 461645                          | 348010  | 266713  |
| 12,50 x 25,00 x 1,80   | 563                    | 277035                                                  | 179594 | 160041 | 355563                          | 238250  | 199146 | 318875                         | 260209  | 240667 | 436188                          | 318875  | 279771  |
| 16,00 x 35,00 x 1,50   | 840                    | 391751                                                  | 304236 | 275064 | 566783                          | 391752  | 333408 | 536231                         | 448716  | 419544 | 711263                          | 536232  | 477888  |
| 20,00 x 40,00 x 1,50   | 1200                   | 559645                                                  | 434622 | 392948 | 809690                          | 559645  | 476297 | 766045                         | 641023  | 599348 | 1016090                         | 766045  | 682697  |
| 25,00 x 50,00 x 1,50   | 1875                   | 874445                                                  | 679098 | 613982 | 1265141                         | 874445  | 744214 | 1196946                        | 1001598 | 936482 | 1587641                         | 1196945 | 1066714 |
| 25,00 x 50,00 x 2,00   | 2500                   | 1004678                                                 | 744214 | 657393 | 1525604                         | 1004677 | 831035 | 1327177                        | 1066714 | 979892 | 1848104                         | 1327177 | 1153535 |

### Instructions:

- 1- Above values are calculated with assumption of 24 hr of boiler operation. These values needs to be increased (x 24/work hours) in cases where boiler works less.
- 2- Exchanger capacities on the price list are for 90/70 °C boiler water temperature. Selected exchanger capacities needs to be increased for lower boiler water temperatures.
- 3- Values on the chart are approximate and can vary according to pool's construction and coating
- 4-  $\Delta t$  = Preferred temperature increase for pools.
- 5- Above time values for preferred temperature increase. Installation capacity needs to be increased for decreasing operation time values.
- 6- Using the "solar air-bubble cover" during the heating process, provides energy saving. (>50)
- 7- Same type of cover decreases humidity by %50 at indoor pools.

# POOL PARTS



|    |                    |     |
|----|--------------------|-----|
| 11 | Water Attractions  | 239 |
| 12 | Winter Pool Covers | 256 |



## Water Cascade - Acrylic - RGB LED

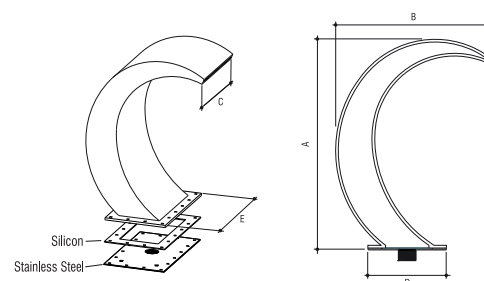
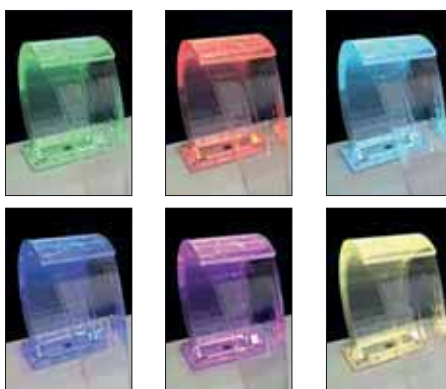


### Acrylic Water Curtain.

Made of transparent acrylic. Complete with stainless steel bottom mounting plate, gasket, screws and nuts. Different light animations are created with RGB LED. Transformer remote control unit is not included in the price. Color change can be achieved with on-off.

| Description                                          | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • WF300LED - 1,5"                                    | <b>11194</b>    | 1          |           |                       |
| • WF301LED - 2,0"                                    | <b>11195</b>    | 1          |           |                       |
| • Four-terminal control unit for RGB LEDs Panel type | <b>05092A4P</b> | 1          |           |                       |

**PS:** It must be used with a dedicated 1 HP Streamer pump.



### TECHNICAL CHARACTERISTICS

| MODEL      | Ø    | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Power (W) | Voltage (VDC) |
|------------|------|--------|--------|--------|--------|--------|-----------|---------------|
| WF-300 LED | 1.5" | 603    | 423.5  | 320    | 236    | 416    | 12.0      | 12            |
| WF-301 LED | 2.0" | 750    | 540.6  | 395    | 280    | 500    | 13.0      | 12            |

## Water Cascade

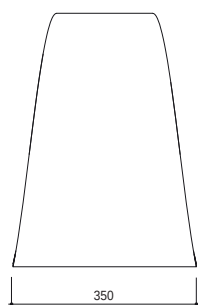


### Mini Cobra Water Cascade.

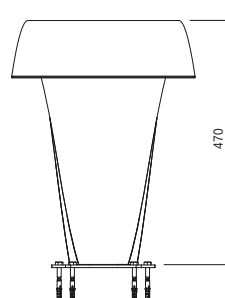
Made of AISI 304 grade stainless steel. Connection 1,5" female threaded. Complete with bolts and plugs.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>11190</b> | 1          |           |                       |

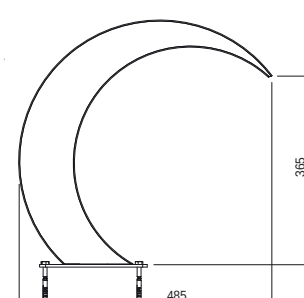
**PS:** It must be used with a dedicated 1 HP Streamer pump.



Top view



Front view



Side view

We reserve our right to change all or part of the features of the articles or contents of this document, without prior notice.

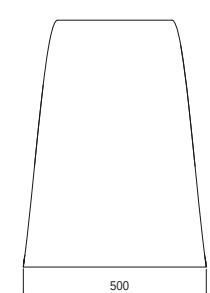
## Water Cascade

### Midi Cobra Water Cascade.

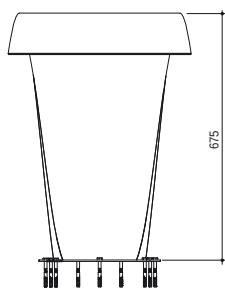
Made of AISI 304 grade stainless steel. Connection 2" female threaded. Complete with bolts and plugs.

| Description                 | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------|--------------|----------------|--------------|--------------------------|
| • Midi 1 - h = 575 x 500 mm | <b>11191</b> | 1              |              |                          |
| • Midi 2 - h = 900 x 600 mm | <b>11193</b> | 1              |              |                          |

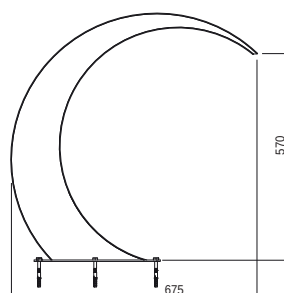
**PS:** It must be used with a dedicated 2 HP Streamer pump.



Top view



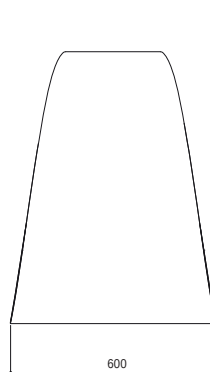
Front view



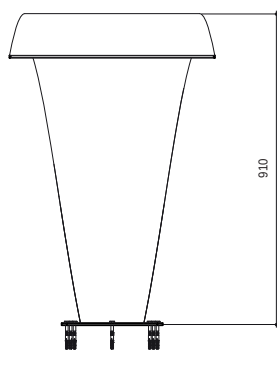
Side view



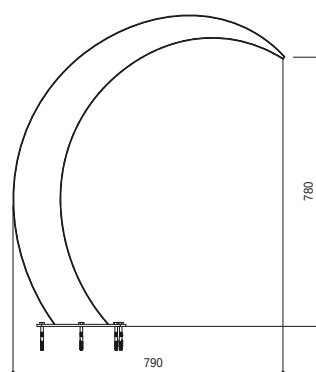
11191



Top view



Front view



Side view



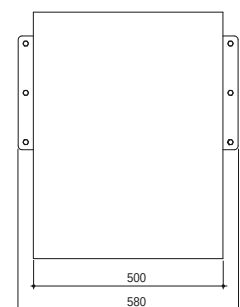
11193

### Niagara Water Cascade.

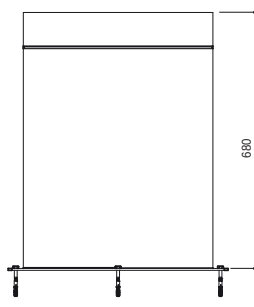
Made of AISI 304 grade stainless steel. Connection 2" female threaded. Complete with bolts and plugs.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>11192</b> | 1              |              |                          |

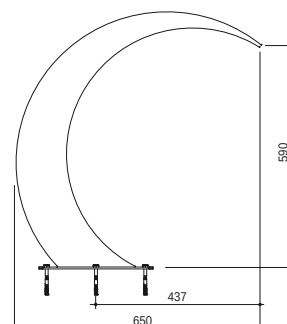
**PS:** It must be used with a dedicated 2 HP Streamer pump.



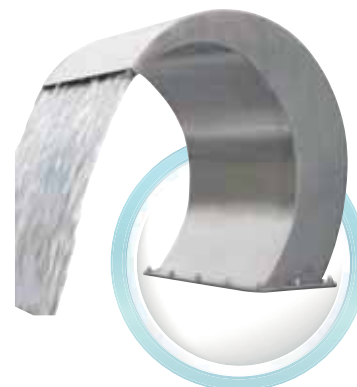
Top view



Front view



Side view





## Water Cascade

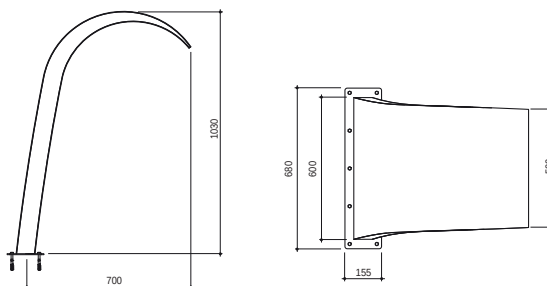
### Arcade - Lux Water Cascade.

Made of AISI 304 grade stainless steel. 2" female threaded connection. Complete with bolt and plugs.



| Description      | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|--------------|------------|-----------|-----------------------|
| • 500 mm cascade | <b>11150</b> | 1          |           |                       |
| • 600 mm cascade | <b>11151</b> | 1          |           |                       |

**PS:** It must be used with a dedicated 3 HP Streamer pump.



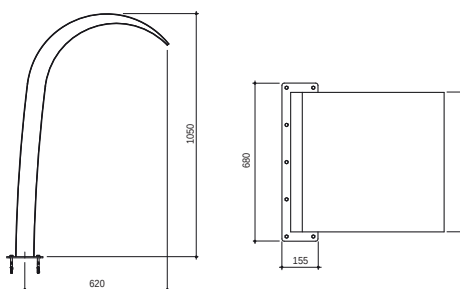
### Arcade - Water Cascade.

Made of AISI 304 grade stainless steel. 2" female threaded connection. Complete with bolt and plugs.



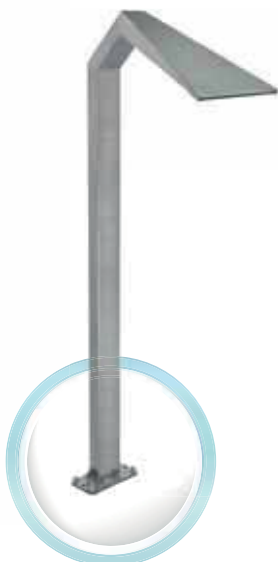
| Description      | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|--------------|------------|-----------|-----------------------|
| • 400 mm cascade | <b>11160</b> | 1          | 30,300    |                       |
| • 600 mm cascade | <b>11161</b> | 1          |           |                       |

**PS:** It must be used with a dedicated 3 HP Streamer pump.



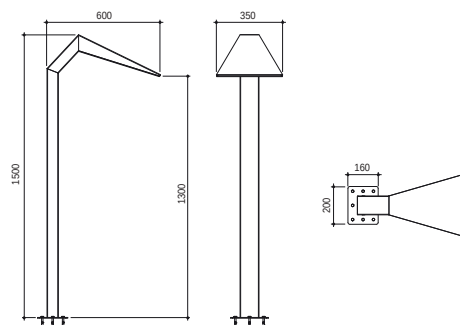
### Delta - Water Cascade.

Made of AISI 304 grade stainless steel. 2" female threaded connection. Complete with bolt and plugs.



| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| 350 mm cascade | <b>11170</b> | 1          | 12,400    |                       |

**PS:** It must be used with a dedicated 3 HP Streamer pump.



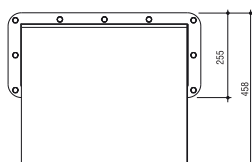
## Water Cascade

### Floor Waterfall.

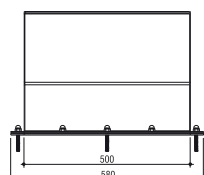
Made of AISI 304 grade stainless steel. Connection 2" female threaded.  
Complete with bolts and plugs.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>11200</b> | 1              |              |                          |

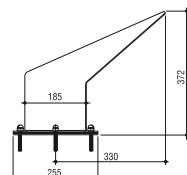
**PS:** It must be used with a dedicated 3 HP Streamer pump.



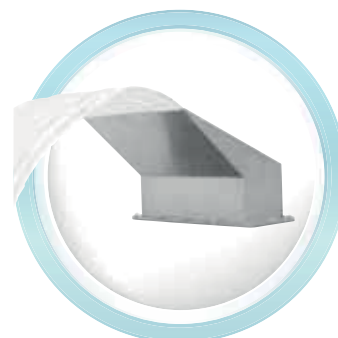
Top view



Front view



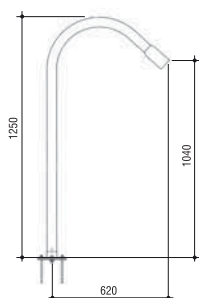
Side view



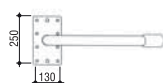
### Water Jet.

| Description                                                                | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------------------------------------|--------------|----------------|--------------|--------------------------|
| • Ø50 body made of AISI 304 grade stainless steel. Exchangeable jet mouth. | <b>11140</b> | 1              |              |                          |
| • Jet No 1                                                                 | <b>11141</b> | 1              |              |                          |
| • Jet No 2                                                                 | <b>11142</b> | 1              |              |                          |
| • Jet No 3                                                                 | <b>11143</b> | 1              |              |                          |
| • Jet No 4                                                                 | <b>11144</b> | 1              |              |                          |

**PS:** It must be used with a dedicated 3 HP Streamer pump.



Side view



Top view



Jet No 1



Jet No 2



Jet No 3



Jet No 4



## Water Cascade - Wall Type

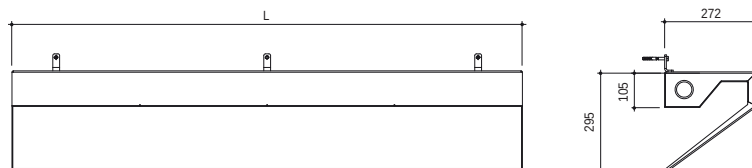
### Wall Waterfall.

Made of AISI 304 grade stainless steel. Connection 2 x 1,5" female threaded. Complete with bolts and plugs.



| Description  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------|--------------|------------|-----------|-----------------------|
| • L = 1 m.   | <b>11110</b> | 1          |           |                       |
| • L = 1,5 m. | <b>11111</b> |            |           |                       |

**PS:** It must be used with a dedicated 1 - 1 1/2 HP Streamer pump.



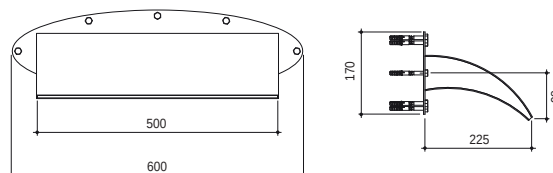
### Tortum Water Cascade.

Made of AISI 304 grade stainless steel. Connection 1,5" female threaded. Complete with bolts and plugs.



| Description  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------|--------------|------------|-----------|-----------------------|
| • L = 0,3 m. | <b>11112</b> | 1          |           |                       |
| • L = 0,5 m. | <b>11113</b> | 1          |           |                       |

**PS:** It must be used with a dedicated 3/4 - 1 HP Streamer pump.



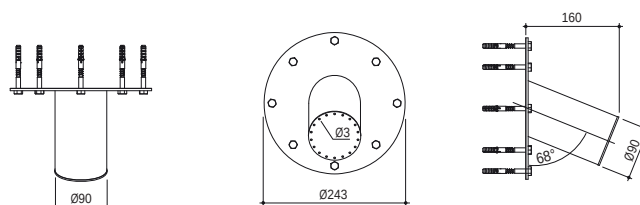
### Wall Shower.

Made of AISI 304 grade stainless steel. Connection 1,5" female threaded. Complete with bolts and plugs. Recommended to be used with 05080 pneumatic button.



| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>11121</b> | 1          |           |                       |

**PS:** It must be used with a dedicated 0,75 HP Streamer pump.

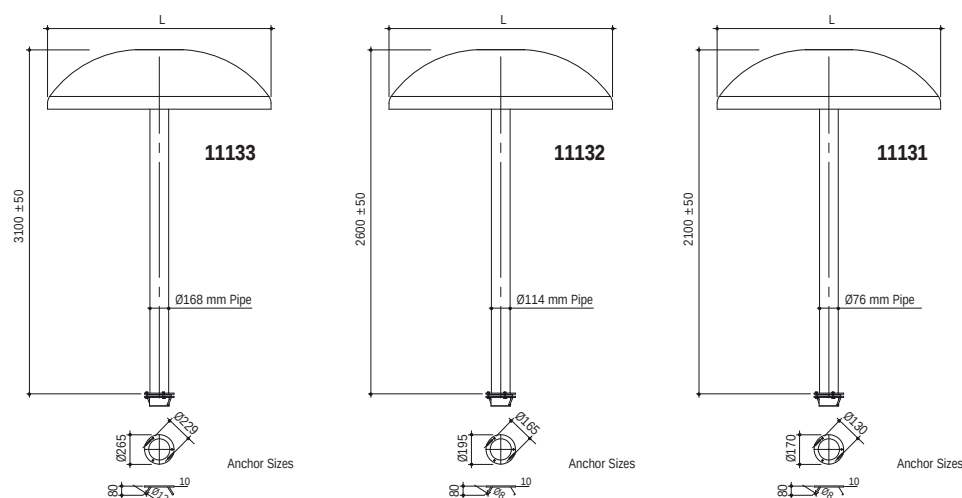


## Water Cascade - Mushroom Type

### Mushroom Cascade.

FRP mushroom with AISI 304 grade stainless steel pivot, flanged at both ends.

| Description                                                        | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------------------------------|--------------|----------------|--------------|--------------------------|
| • Mushroom Cascade L = Ø2000 mm:<br>Requires 150 m <sup>3</sup> /h | <b>11133</b> | 1              |              |                          |
| • Mushroom Cascade L = Ø1600 mm:<br>Requires 80 m <sup>3</sup> /h  | <b>11132</b> | 1              | 53,000       | 1,190                    |
| • Mushroom Cascade L = Ø1000 mm:<br>Requires 40 m <sup>3</sup> /h  | <b>11131</b> | 1              |              |                          |



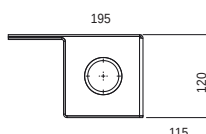
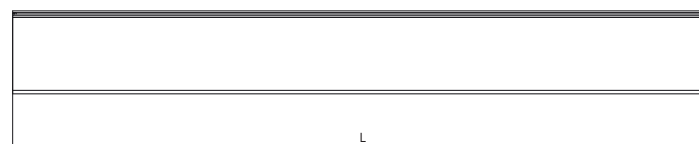
## Water Cascade - Wall Type - Stainless Steel

### "Pool Waterfall".

Made of AISI 304 grade stainless steel. Connection 2 x 1,5" female threaded.

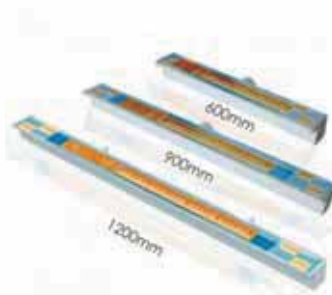
| Description                     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------|--------------|----------------|--------------|--------------------------|
| • Model HS01 - L = 0,30 m width | <b>11180</b> | 1              |              |                          |
| • Model HS02 - L = 0,50 m width | <b>11181</b> | 1              |              |                          |
| • Model HS03 - L = 1,00 m width | <b>11182</b> | 1              |              |                          |
| • Model HS04 - L = 1,50 m width | <b>11183</b> | 1              |              |                          |

**PS:** Suggested pumps are Streamer Mini 0,33 HP, 0,5 HP, 0,75 HP ve 1 HP respectively.





## Water Cascade - Wall Type - LED



### “LED RGB COLORED POOL WATERFALL”.

Two models for different water effects. It has a remote control. Revitalizes your pool. It is one of the most beautiful aesthetic properties for pools and SPAs. While creating a water movement in your pool, relaxing water adds elegance and style to your pool and massages your back. It provides vivid colors with its RGB LED unit that can be activated when desired. With a choice between 2 different water cascading models

- Rainfall or Waterfall Arc, offering visual interest, relaxing sound and a unique waterfall view.

### Features:

- Two different widths: 25 mm and 150 mm. Suitable for different wall sizes.
- Three different lengths: 600 mm, 900 mm and 1200 mm
- LED strip lighting is powered by external 12V DC, which is safe and reliable.
- LEDs can be operated with a panel or remote control and there are 10 different lighting patterns.

### LED Pool Waterfall Control Box

The LED strip is placed in the unit (instead of using fiber optics) the light falls as close as possible to the water. This design provides water illumination falling into a wonderful pool. A selection of 10 pre-programmed LED lighting patterns provide the best lighting options.

### There are 2 different models for different water effects:

- PB Series: Standard orbital waterfall effect
- RS Series: Rain effect with transparent orbit

LED Strip Power  
**12V DC**

Remote Control  
**10 Lighting Patterns**

Width  
**25/150 mm**

Length  
**600/900/1200 mm**

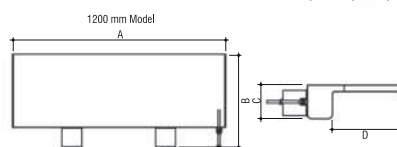
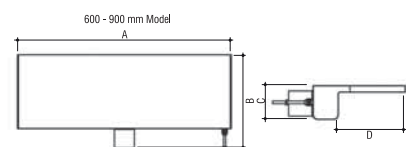
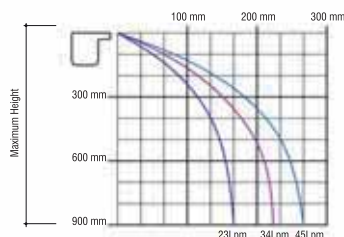
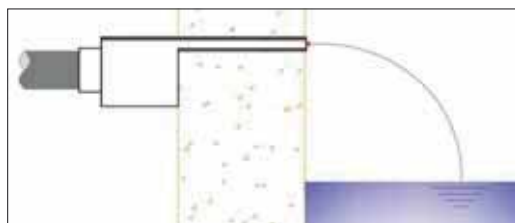


## Water Cascade - Wall Type - LED

### PB Series Pool Waterfall.

Provides excellent water light effect by creating standard continuous waterfall flow.

| Description   | Code     | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|---------------|----------|-------------|-----------|-----------------------|
| • PB600-150L  | 11PB600  | 1           |           |                       |
| • PB900-150L  | 11PB900  | 1           |           |                       |
| • PB1200-150L | 11PB1200 | 1           |           |                       |



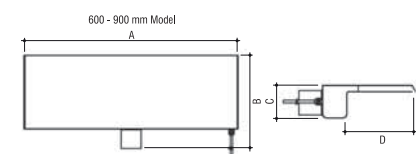
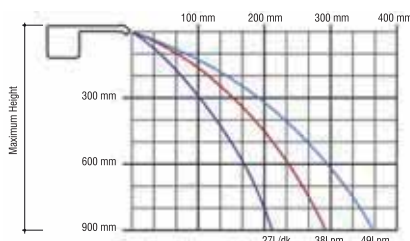
### TECHNICAL CHARACTERISTICS

| MODEL       | A (mm) | B (mm) | C (mm) | D (mm) | Voltage (VDC) | Power (W) |
|-------------|--------|--------|--------|--------|---------------|-----------|
| PB600-150L  | 606    | 263    | 76     | 150    | 12            | 8.0       |
| PB900-150L  | 906    | 263    | 76     | 150    | 12            | 12.0      |
| PB1200-150L | 1206   | 263    | 76     | 150    | 12            | 17.0      |

### RS Series Pool Waterfall.

Creates a rain-like waterfall flow, providing a perfect water and light effect in your pool.

| Description  | Code    | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|--------------|---------|-------------|-----------|-----------------------|
| • RS600-150L | 11RS600 | 1           |           |                       |
| • RS900-150L | 11RS900 | 1           |           |                       |



### TECHNICAL CHARACTERISTICS

| MODEL      | A (mm) | B (mm) | C (mm) | D (mm) | Voltage (VDC) | Power (W) |
|------------|--------|--------|--------|--------|---------------|-----------|
| RS600-150L | 606    | 284    | 78     | 171    | 12            | 8.0       |
| RS900-150L | 906    | 284    | 78     | 171    | 12            | 12.0      |

## Inpool Hydro Massage Systems



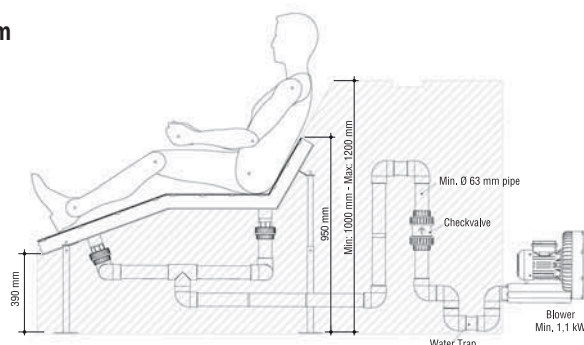
### Air Bed.

Made of AISI 304 grade stainless steel. Complete with adjustable legs and PVC piping. Ø63 mm air connection.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| • Double    | <b>11330</b> | 1          |           |                       |
| • Single    | <b>11331</b> | 1          |           |                       |

PS: This product must be used with 2,2 - 1,1 kw blower.

### Assembly Diagram

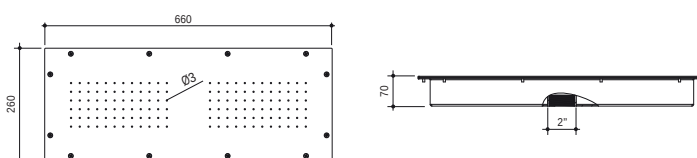


### Rectangular Floor Air Jet.

Made of AISI 304 grade stainless steel. Connection 2" female threaded. Complete with bolt and plugs.

| Description  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------|--------------|------------|-----------|-----------------------|
| 660 x 260 mm | <b>11340</b> | 1          |           |                       |

PS: This product must be used with 2,2 kw blower.

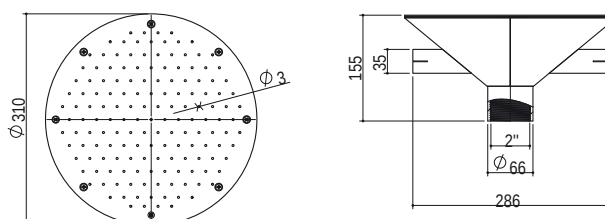


### Circular Floor Air Jet.

Made of AISI 304 grade stainless steel. Connection 2" female threaded. Complete with bolt and plugs.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| Ø310 mm dia | <b>11350</b> | 1          |           |                       |

PS: This product must be used with 1,1 kw blower.



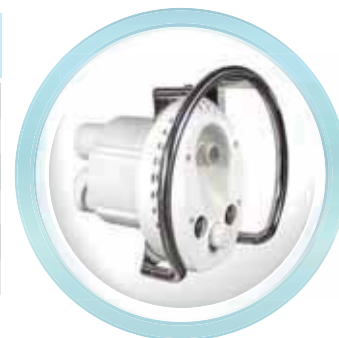
## Counter Current and Massage Systems

**STP-SP Counter Current System.** Complete with jet pump, pneumatic switch, LED light, valves and fittings. Two separate air buttons for pump and LED. Completely made of ABS plastic. The suction line is 75 mm and the discharge line is 63 mm. Thanks to the suction check valve, the air suction line can be installed below the water level. Hand massage is possible with optional massage hose. Complete with a stainless steel handle. For Concrete and Liner Pools.

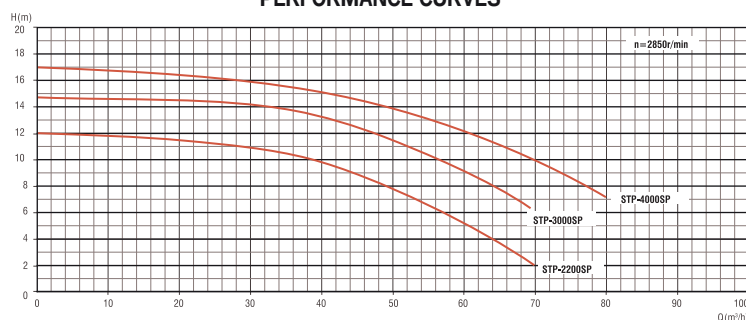


**For Concrete and Liner Pools:**

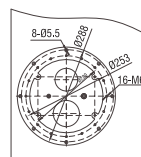
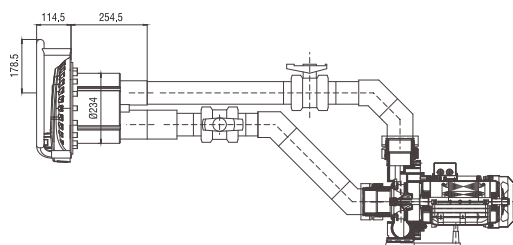
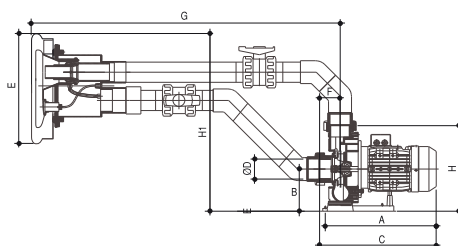
| Description                                             | Code           | Pieces/ box | Weight Kg |
|---------------------------------------------------------|----------------|-------------|-----------|
| • STP-SPM Monophase-with 3,0 HP BTP 0,396               | <b>112270M</b> | 1           |           |
| • STP-SPT Triphase-with 3,0 HP BTP                      | <b>112271T</b> | 1           |           |
| • STP-SPT Triphase-with 4,5 HP BTP                      | <b>112272T</b> | 1           |           |
| • STP-SPT Triphase-with 5,5 HP BTP                      | <b>112273T</b> | 1           |           |
| • STP-SP Counter Current System, Niche, front frame set | <b>1122213</b> | 1           |           |
| • Massage Hose Set                                      | <b>1122211</b> | 1           |           |



### PERFORMANCE CURVES



| PUMP TYPE | DIMENSIONS |     |     |     |     |    |      |     |     | Weight (Kg) |
|-----------|------------|-----|-----|-----|-----|----|------|-----|-----|-------------|
|           | A          | B   | C   | D   | E   | F  | G    | H   | H1  |             |
| STP-2200  | 370        | 156 | 440 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 22          |
| STP-3000  | 410        | 156 | 470 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 24          |
| STP-4000  | 440        | 156 | 500 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 26          |



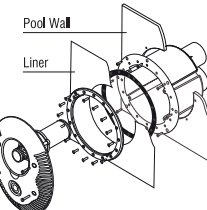
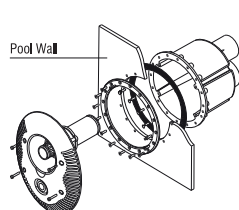
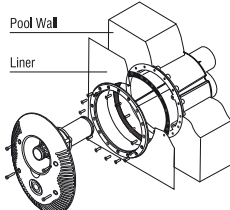
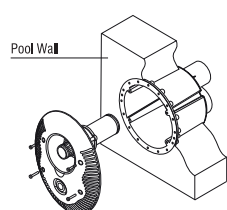
### MOUNTING TYPE:

Concrete Swimming Pool

Liner Swimming Pool

Prefabricated Swimming Pool

Liner Panel Swimming Pool





## Counter Current and Massage Systems - S. Steel



### STP-SS Counter Current System.

Complete with jet pump, pneumatic switch, LED light, valves and fittings. Two separate air buttons for pump and LED.

Completely made of stainless steel 304 grade. The suction line is 75 mm and the discharge line is 63 mm. Thanks to the suction check valve, the air suction line can be installed below the water level.

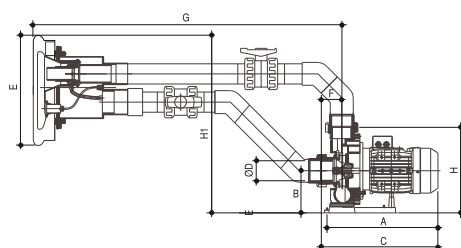
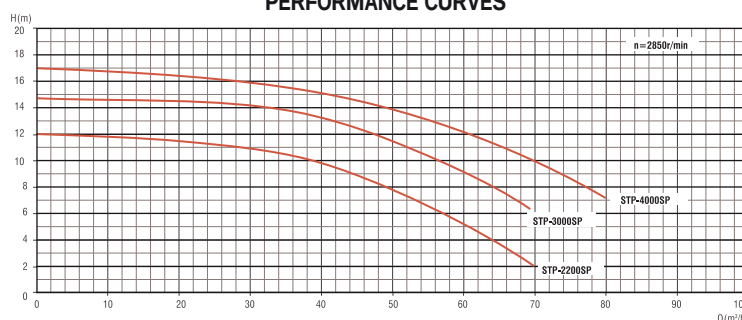
Hand massage is possible with optional massage hose. For Concrete and Liner Pools.

### For Concrete and Liner Pools:

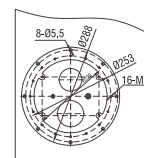
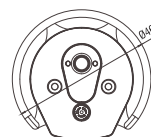
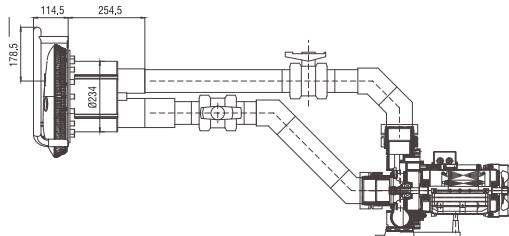
| Description                                             | Code             | Pieces/ box | Weight Kg |
|---------------------------------------------------------|------------------|-------------|-----------|
| • STP-SSM Monophase-with 3,0 HP BTP                     | <b>112270MSS</b> | 1           |           |
| • STP-SST Triphase-with 3,0 HP BTP                      | <b>112271TSS</b> | 1           |           |
| • STP-SST Triphase-with 4,5 HP BTP                      | <b>112272TSS</b> | 1           |           |
| • STP-SST Triphase-with 5,5 HP BTP                      | <b>112273TSS</b> | 1           |           |
| • STP-SS Counter Current System, Niche, front frame set |                  | 1           |           |
| • Massage Hose Set                                      | <b>1122211</b>   | 1           |           |



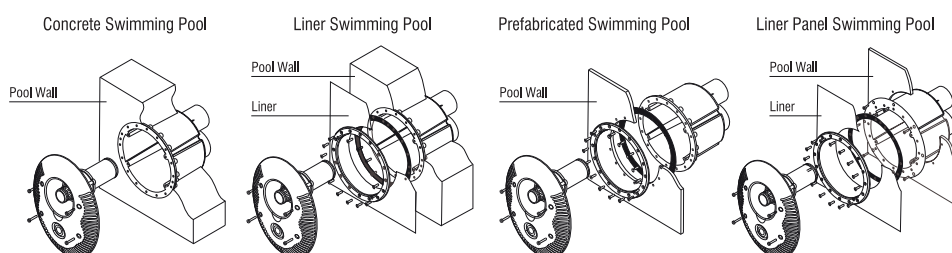
### PERFORMANCE CURVES



| PUMP TYPE | DIMENSIONS |     |     |     |     |    |      |     |     | Weight (Kg) |
|-----------|------------|-----|-----|-----|-----|----|------|-----|-----|-------------|
|           | A          | B   | C   | D   | E   | F  | G    | H   | H1  |             |
| STP-2200  | 370        | 156 | 440 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 22          |
| STP-3000  | 410        | 156 | 470 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 24          |
| STP-4000  | 440        | 156 | 500 | Ø75 | 395 | 77 | 1110 | 340 | 635 | 26          |



### MOUNTING TYPE:



## Counter Current and Massage Systems

### GEMAS "ELLIPTICAL MODEL" Counter Current System.

Complete with jet pump, pneumatic switch, valves and connection parts. Easy to direct nozzle inside pool. Completely made of ABS plastic. Suction line Ø75 mm, return line Ø63 mm. Air suction line can be established below water level by the help of suction check valve. Possible hand massage with optional massage hose. Optional stainless steel handle. Can be used both for liner and concrete pools.

#### For Concrete Pools:

| Description                            | Code          | Pieces/ box | Weight Kg | Volume m³ |
|----------------------------------------|---------------|-------------|-----------|-----------|
| • 3,0 HP Monophase-with Pumpex pump    | <b>112221</b> | 1           |           |           |
| • 3,5 HP Monophase-with Fooderjet pump | <b>112222</b> | 1           |           |           |
| • 3,0 HP Triphase-with Pumpex pump     | <b>112223</b> | 1           |           |           |
| • 3,5 HP Triphase-with Fooderjet pump  | <b>112224</b> | 1           |           |           |
| • 4,5 HP Triphase-with Fooderjet pump  | <b>112225</b> | 1           |           |           |
| • 5,5 HP Triphase-with Fooderjet pump  | <b>112226</b> | 1           |           |           |



#### For Liner Pools:

| Description                            | Code          | Pieces/ box | Weight Kg | Volume m³ |
|----------------------------------------|---------------|-------------|-----------|-----------|
| • 3,0 HP Monophase-with Pumpex pump    | <b>112251</b> | 1           |           |           |
| • 3,5 HP Monophase-with Fooderjet pump | <b>112252</b> | 1           |           |           |
| • 3,0 HP Triphase-with Pumpex pump     | <b>112253</b> | 1           |           |           |
| • 3,5 HP Triphase-with Fooderjet pump  | <b>112254</b> | 1           |           |           |
| • 4,5 HP Triphase-with Fooderjet pump  | <b>112255</b> | 1           |           |           |
| • 5,5 HP Triphase-with Fooderjet pump  | <b>112256</b> | 1           |           |           |



### GEMAS "ELLIPTICAL MODEL" Counter Current System.

Niche made of ABS and front frame set.

| Description          | Code          | Pieces/ box | Weight Kg | Volume m³ |
|----------------------|---------------|-------------|-----------|-----------|
| • For Concrete Pools | <b>112223</b> | 1           |           |           |
| • For Liner Pools    | <b>112224</b> | 1           |           |           |



### GEMAS "ELLIPTICAL MODEL" Counter Current System, Massage Hose Set.

| Description | Code           | Pieces/ box | Weight Kg | Volume m³ |
|-------------|----------------|-------------|-----------|-----------|
|             | <b>1122211</b> | 1           |           |           |



**AISI 304 Grade Stainless Steel Handles for GEMAS Counter Current System.** Complete with screws and pegs, with flange. Pipe is Ø42 mm.

| Description | Code           | Pieces/ box | Weight Kg | Volume m³ |
|-------------|----------------|-------------|-----------|-----------|
| Price for 2 | <b>1122212</b> | 1           |           |           |



## Counter Current and Massage Systems



### GEMAS "SQUARE MODEL" Counter Current System.

Complete with jet pump, pneumatic switch, valves and connection parts. Easy to direct nozzle inside pool. Completely made of ABS plastic. Suction line Ø75 mm, return line Ø63 mm. Air suction line can be established below water level by the help of suction check valve. Possible hand massage with optional massage hose. Optional stainless steel handle. Can be used both for liner and concrete pools.

#### For Concrete Pools:

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 3,0 HP Monophase-with Pumpex pump    | <b>112221K</b> | 1          |           |                       |
| • 3,5 HP Monophase-with Fooderjet pump | <b>112222K</b> | 1          |           |                       |
| • 3,0 HP Triphase-with Pumpex pump     | <b>112223K</b> | 1          |           |                       |
| • 3,5 HP Triphase-with Fooderjet pump  | <b>112224K</b> | 1          |           |                       |
| • 4,5 HP Triphase-with Fooderjet pump  | <b>112225K</b> | 1          |           |                       |
| • 5,5 HP Triphase-with Fooderjet pump  | <b>112226K</b> | 1          |           |                       |



#### For Liner Pools:

| Description                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|----------------|------------|-----------|-----------------------|
| • 3,0 HP Monophase-with Pumpex pump    | <b>112251K</b> | 1          |           |                       |
| • 3,5 HP Monophase-with Fooderjet pump | <b>112252K</b> | 1          |           |                       |
| • 3,0 HP Triphase-with Pumpex pump     | <b>112253K</b> | 1          |           |                       |
| • 3,5 HP Triphase-with Fooderjet pump  | <b>112254K</b> | 1          |           |                       |
| • 4,5 HP Triphase-with Fooderjet pump  | <b>112255K</b> | 1          |           |                       |
| • 5,5 HP Triphase-with Fooderjet pump  | <b>112256K</b> | 1          |           |                       |



### GEMAS "SQUARE MODEL" Counter Current System.

Niche made of ABS and front frame set.

| Description          | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------|---------------|------------|-----------|-----------------------|
| • For Concrete Pools | <b>11223K</b> | 1          |           |                       |
| • For Liner Pools    | <b>11224K</b> | 1          |           |                       |



### GEMAS "SQUARE MODEL" Counter Current System, Massage Hose Set.

| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
|             | <b>1122211</b> | 1          |           |                       |

## Inpool Hydro Massage Systems

### In-Pool Hydro Massage Bed.

Made of Acrylic + Polyester. Water and air connections are ready to install.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| • Type 1    | <b>11310</b> | 1              | 15,000       |                          |
| • Type 2    | <b>11311</b> | 1              |              |                          |



### In-Pool Hydro Massage Chair.

Made of Acrylic + Polyester. Water and air connections are ready to install.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>11320</b> | 1              |              |                          |





## Decorative Wall Nozzles

**GEMAS Wall Nozzles.** Made of polyester and the surface finish is made with various aging paints. Standart trims are antique copper, antique brass, antique silver and oxide. Special implemetations can be made according to special demands.



Small Lionhead,  
Antique Copper



Large Lionhead,  
Antique Copper



Plain Bowl Waterfall



Plain Bowl Waterfall,  
Antique Copper



Slotted Bowl Waterfall,  
Antique Copper



Snail Antique Copper



Antique Badge

| Description                              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|------------------------------------------|----------------|----------------|--------------|--------------|
| • Small Lionhead, Antique Copper         | <b>1122411</b> | 1              |              |              |
| • Large Lionhead, Antique Copper         | <b>1122421</b> | 1              |              |              |
| • Plain Bowl Waterfall, Antique Copper   | <b>1122431</b> | 1              |              |              |
| • Slotted Bowl Waterfall, Antique Copper | <b>1122241</b> | 1              |              |              |
| • Snail, Antique Copper                  | <b>1122251</b> | 1              |              |              |
| • Antique Badge, Antique Copper          | <b>1122261</b> | 1              |              |              |



## Fiberoptic Star Effect

### GEMAS Fiberoptic Star Effect.

Before coating the pool, fiberoptic fibers are inserted on pool floor, extended into engine room and all fibers connected to RGB light source. In this way, RGB or single colored star effect is created on the pool floor.

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
|             | 1122711 |                |              |                          |



## Poyrazlux - Winter Cover



**Pool Cover.** Made of PVC. Peripheral reinforcement of 5 cm. Laterals at each 1 m of the periphery are used to stretch the cover over pool surface by means of stainless steel springs attached to special bronze retractable anchors. Drain holes are available at the center to discharge the rain water. Complete with springs and retractable anchors.

| Description                                                         | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Rectangular shape, price per square meter                         | <b>12110</b> |            |           |                       |
| • Irregular shape, price per square meter                           | <b>12111</b> |            |           |                       |
| • Free form cover, price per square meter                           | <b>12112</b> |            |           |                       |
| • Special cut for pool ladder or other special forms, price per cut | <b>12117</b> |            |           |                       |

**PS.** Pool dimensions should be increased by 1,20 m for overflow pools; whereas by 0,6 m for skimmer pools.

## Solar Cover - Heat Saving

**Solar Pool Cover.** Provides a limited amount of solar heating and saves energy by minimizing the surface heat loss. Decreases the humidity 50% at indoor pools. Recommended to be used with cover reel.

| Description                                                                      | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| Solar Cover, in roll per m <sup>2</sup><br>Width: 2 m. (Welded price is double). | <b>1211101</b> |            |           |                       |

**PS.** Please ask for prices of Solar Covers in special shape.



## Cover Accessories



| Description                                                          | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • Retractable anchor                                                 | <b>121101</b> | 1          | 0,062     |                       |
| • Dynamometric Spring.<br>AISI 304 grade stainless steel             | <b>121102</b> | 1          | 0,144     |                       |
| • Manuel Vacuum Pump. Used for discharge of rain water on the cover. | <b>12114</b>  | 1          |           |                       |



## Motorized Pool Cover

### COVERTEC Pool Cover.

Blue PVC 650 gr/m<sup>2</sup>. Reinforced with aluminium bars placed with 1,2 m - 1,4 m intervals. With the help of portable rechargeable-reductor 24 V motor, the pool cover is opened or collected easily and quickly. Safe for children and pets. For windy environments, fixation is provided by side reinforcements. For irregular-shaped swimming pools, the cover needs to be rectangular form. There should be 25 cm margin for short edges and 50 cm margin for long edge.

| Description     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|--------------|----------------|--------------|--------------------------|
| • 3 x 6 m Pool  | <b>12210</b> | 1              |              |                          |
| • 4 x 8 m Pool  | <b>12211</b> | 1              |              |                          |
| • 5 x 10 m Pool | <b>12212</b> | 1              |              |                          |
| • 6 x 12 m Pool | <b>12213</b> | 1              |              |                          |

All Pool Covers Have Below Specifications

- Strong resistance to UV lights from the Sun. Preserves its aero-elastic structure under bad weather conditions.
- Can be easily clean due to dirt-proof LAQUER coating.
- Anti Fungal
- Anti Bacterial
- Not affected negatively by pool chemicals





## Motorized Pool Cover



**Automatic PVC Slatted Pool Cover.** Made of PVC profiles, 24 V Above-ground motor. It weights a person walking above and does not sink. With the help of safety straps, the cover can be fixed manually to pool deck. It's suitable for new and existing pools. For remote control option please ask for price.

| Description                  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|--------------|------------|-----------|-----------------------|
| • 3 x 6 m Pool - White       | <b>12220</b> |            |           |                       |
| • 4 x 8 m Pool - White       | <b>12221</b> |            |           |                       |
| • 5 x 10 m Pool - White      | <b>12222</b> |            |           |                       |
| • 6 x 12 m Pool - White      | <b>12223</b> |            |           |                       |
| • 3 x 6 m Pool - Solar Blue  | <b>12224</b> |            |           |                       |
| • 4 x 8 m Pool - Solar Blue  | <b>12225</b> |            |           |                       |
| • 5 x 10 m Pool - Solar Blue | <b>12226</b> |            |           |                       |
| • 6 x 12 m Pool - Solar Blue | <b>12227</b> |            |           |                       |

**PS.** This is a no-stock item. Produced according to order.



## Cover Reels

| Description                                                         | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Cover Reel. Made of ABS plastic with cover tie set. w/o Bar       | <b>12113</b>  | 1              | 6,100        | 0,047                    |
| • Ditto, made of stainless steel with cover tie set (excluding bar) | <b>12115</b>  | 1              |              |                          |
| • 3 x 2 m Aluminium Telescopic Cover Bar.                           | <b>121131</b> | 1              | 6,394        | 0,039                    |

PS. Please ask quotation for "telescopic cover bar"



12115



121131



12113

## Pool Ice Barrier

**Pool Ice Barrier.** Made of Plastic. 49 x 24 cm size floating barrier is arrayed all around the pool perimeter. Protects the pool coating by absorbing the expansion of freezing at very low atmospheric temperature.

| Description | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|----------------|----------------|--------------|--------------------------|
| Ice Barrier | <b>1297105</b> | 1              |              |                          |



# POOL PARTS



13 Valves, Unions  
and Fittings

14 Olympic Pool  
Accessories

260 

279 

## Ball Valves



Product Video

### Ball Valves in UPVC.

Slip connection and adjustable ball pressure. HDPE seats and EPDM O-rings. PN 16.

| Description                       | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|----------------|------------|-----------|-----------------------|
| • d.20 mm - Slip connection       | <b>131111</b>  | 88         | 23,050    | 0,094                 |
| • d.25 mm - Slip connection (NEW) | <b>131112</b>  | 78         | 27,160    | 0,094                 |
| • d.32 mm - Slip connection (NEW) | <b>131113</b>  | 20         | 7,900     | 0,017                 |
| • d.40 mm - Slip connection (NEW) | <b>131114</b>  | 12         | 7,800     | 0,017                 |
| • 0,5 - Threaded                  | <b>131111T</b> | 88         | 23,050    | 0,094                 |
| • 0,75 - Threaded                 | <b>131112T</b> | 78         | 27,160    | 0,094                 |
| • 1" - Threaded                   | <b>131113T</b> | 20         | 7,900     | 0,017                 |
| • 1,25" - Threaded                | <b>131114T</b> | 12         | 7,800     | 0,017                 |

### Ball Valves in UPVC.

Slip connection; adjustable ball pressure as well as patented union-screwing by means of handle. HDPE seats and EPDM O-rings. PN 16.

| Description                  | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------|-----------------|------------|-----------|-----------------------|
| • d.50 mm - Slip connection  | <b>131115L</b>  | 6          | 4,620     | 0,013                 |
| • d.63 mm - Slip connection  | <b>131116L</b>  | 6          | 7,542     | 0,021                 |
| • d.75 mm - Slip connection  | <b>131117L</b>  | 2          | 3,680     | 0,016                 |
| • d.90 mm - Slip connection  | <b>131118L</b>  | 2          | 3,660     | 0,016                 |
| • d.110 mm - Slip connection | <b>131119L</b>  | 1          | 6,240     | 0,018                 |
| • 1,5" - Threaded            | <b>131115LT</b> | 6          | 4,620     | 0,013                 |
| • 2" - Threaded              | <b>131116LT</b> | 6          | 7,542     | 0,021                 |
| • 2,5" - Threaded            | <b>131117LT</b> | 2          | 3,680     | 0,016                 |
| • 3" - Threaded              | <b>131118LT</b> | 2          | 3,660     | 0,016                 |
| • 4" - Threaded              | <b>131119LT</b> | 1          | 6,240     | 0,018                 |



### Single Union UPVC Ball Valve.

Made of UPVC. One side is female slip connection from the inside and the other side is with a union. O-rings EPDM, packing PP. PN 16.

Patented design: Valve handle can be used to tighten the union. Please ask price for threaded versions.

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • d.50 mm   | <b>131415</b> | 6          | 3,900     | 0,013                 |
| • d.63 mm   | <b>131416</b> | 6          | 6,200     | 0,021                 |
| • d.75 mm   | <b>131417</b> | 2          | 3,000     | 0,016                 |
| • d.90 mm   | <b>131418</b> | 2          | 3,030     | 0,016                 |



## Industrial Ball Valves

### UPVC Industrial Ball Valve.

Slip connection and adjustable ball pressure. For chemical resistance, O-rings from viton, seal from teflon.

| Description | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|----------------|----------------|--------------|--------------------------|
| • d.32 mm   | <b>131123</b>  | 20             | 7,900        | 0,017                    |
| • d.40 mm   | <b>131124</b>  | 12             | 7,800        | 0,017                    |
| • d.50 mm   | <b>131125L</b> | 6              | 4,620        | 0,013                    |
| • d.63 mm   | <b>131126L</b> | 6              | 7,542        | 0,021                    |
| • d.75 mm   | <b>131127L</b> | 2              | 3,000        | 0,016                    |
| • d.90 mm   | <b>131128L</b> | 2              | 3,060        | 0,016                    |
| • d.110 mm  | <b>131129L</b> | 1              | 5,975        | 0,018                    |



## Industrial Ball Valves

### UPVC Industrial Ball Valve.

Adjustable ball pressure and threaded connection. For chemical resistance, O-rings from viton, seal from teflon. PN 16.

| Description | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------------|----------------|--------------|--------------------------|
| • 1"        | <b>131123T</b>  | 20             | 7,900        | 0,017                    |
| • 1,25"     | <b>131124T</b>  | 12             | 7,800        | 0,017                    |
| • 1,5"      | <b>131125LT</b> | 6              | 4,620        | 0,013                    |
| • 2"        | <b>131126LT</b> | 6              | 7,542        | 0,021                    |
| • 2,5"      | <b>131127LT</b> | 2              | 3,680        | 0,016                    |
| • 3"        | <b>131128LT</b> | 2              | 3,660        | 0,016                    |
| • 4"        | <b>131129LT</b> | 1              | 6,240        | 0,018                    |



## UPVC Automatic Ball w/Actuator Valves

### UPVC Automatic Ball w/Actuator Valves

Ø50 - Ø63 mm with optional wifi control

| Description              | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------|------------------|----------------|--------------|--------------------------|
| • Ø50 mm Motorized Valve | <b>131115LGA</b> | 1              | 1,602        | 0,008                    |
| • Ø63 mm Motorized Valve | <b>131116LGA</b> | 1              | 1,876        | 0,008                    |

**NEW !**



## Motorized UPVC Ball Valves

### Motorized UPVC Ball Valves.

ON/OFF Electric Actuator operates with 24V AC/DC. All valves could be controlled manually by switch.

| Description              | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------|------------------|----------------|--------------|--------------------------|
| • Ø50 mm Motorized Valve | <b>131115LEA</b> | 1              | 1,602        | 0,008                    |
| • Ø63 mm Motorized Valve | <b>131116LEA</b> | 1              | 1,876        | 0,008                    |



# Valves, Unions and Fittings

## 3-Way Valves



**NEW !**



### Three Way Disc Valve.

Made of ABS. Slip Connection.

| Description                           | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------|--------------|------------|-----------|-----------------------|
| • Three Way Disc Valve - Ø50 mm       | <b>13171</b> | 1          | 1,602     | 0,008                 |
| • Three Way Disc Valve - Ø63 mm (NEW) | <b>13172</b> | 1          | 1,876     | 0,008                 |

## Mini Valves



### PP Mini Irrigation Valve.

Handle from ABS PN16.

| Description                     | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|-----------|-----------------------|
| • 1" x 0,75 Male-Female Valve   | <b>131210</b>  | 100        | 19,600    | 0,055                 |
| • 0,75 Male-Female Valve        | <b>131211</b>  | 100        | 18,700    | 0,055                 |
| • 1" Male-Female Valve          | <b>131212</b>  | 100        | 20,800    | 0,055                 |
| • 1" x 0,75 Female-Female Valve | <b>131210D</b> | 100        | 19,200    | 0,055                 |
| • 0,75 Female-Female Valve      | <b>131211D</b> | 100        | 18,400    | 0,055                 |
| • 1" Female-Female Valve        | <b>131212D</b> | 100        | 21,050    | 0,055                 |

## Butterfly Valves



Product Video



### GEMAS UPVC BUTTERFLY VALVES.

Handle made of ABS, Lining From EPDM. Stem from Zinc Plated Carbon Steel. AISI 316 Stem is optional. Valve can be adjusted by 3,75 degree sensitivity. Hole for Security Padlock. Complete with flanges bolts and nuts. NEW Design Butterfly Valve is limited to sizes d110, d125, d140 and d160. Please ask availability for other sizes.

| Description     | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------|---------------|------------|-----------|-----------------------|
| • Ø63 mm        | <b>131600</b> | 1          | 2,470     | 0,094                 |
| • Ø75 mm (NEW)  | <b>131601</b> | 1          | 3,250     | 0,094                 |
| • Ø90 mm (NEW)  | <b>131602</b> | 1          | 5,270     | 0,124                 |
| • Ø110 mm       | <b>131603</b> | 1          | 6,530     | 0,124                 |
| • Ø125 mm       | <b>131604</b> | 1          | 8,770     | 0,124                 |
| • Ø140 mm       | <b>131605</b> | 1          | 9,100     | 0,124                 |
| • Ø160 mm       | <b>131606</b> | 1          | 12,100    | 0,124                 |
| • Ø200 mm (NEW) | <b>131607</b> | 1          | 17,300    | 0,124                 |
| • Ø225 mm (NEW) | <b>131608</b> | 1          | 17,800    | 0,124                 |
| • Ø250 mm       | <b>131609</b> | 1          | 36,200    | 0,124                 |
| • Ø280 mm       | <b>131610</b> | 1          | 40,100    | 0,124                 |
| • Ø315 mm       | <b>131611</b> | 1          | 46,100    | 0,124                 |

## Butterfly Valves

### MOTORIZED BUTTERFLY VALVE, ON-OFF:

Valve actuator, works with 24 V AC/DC. Complete with flanges, flange adaptors, bolts & nuts. All valves can be controlled manually with switch or flywheel.

| Description | Code      | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------|----------------|--------------|--------------------------|
| • Ø90 mm    | 131602M11 | 1              |              |                          |
| • Ø110 mm   | 131603M11 | 1              |              |                          |
| • Ø125 mm   | 131604M11 | 1              |              |                          |
| • Ø140 mm   | 131605M11 | 1              |              |                          |
| • Ø160 mm   | 131606M11 | 1              |              |                          |
| • Ø200 mm   | 131607M11 | 1              |              |                          |
| • Ø225 mm   | 131608M11 | 1              |              |                          |
| • Ø250 mm   | 131609M11 | 1              |              |                          |
| • Ø280 mm   | 131611M11 | 1              |              |                          |
| • Ø315 mm   | 131610M11 | 1              |              |                          |



PLEASE ASK PRICE FOR PROPORTIONAL MODELS.

## Check Valves - Wafer Check Valves

UPVC Swing Check Valves. Two piece body. Complete with bolts.

| Description               | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------|---------|----------------|--------------|--------------------------|
| • Ø50 mm Slip connection  | 131499Y | 30             | 24,200       | 0,124                    |
| • Ø63 mm Slip connection  | 131500Y | 24             | 20,000       | 0,124                    |
| • Ø75 mm Slip connection  | 131501Y | 12             | 17,000       | 0,124                    |
| • Ø90 mm Slip connection  | 131502Y | 10             | 17,850       | 0,124                    |
| • Ø110 mm Slip connection | 131503Y | 6              | 19,000       | 0,124                    |



UPVC Wafer Check Valves. Complete with flange adaptors, flanges, bolts and nuts.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • Ø90 mm    | 131502 | 1              | 3,620        | 0,124                    |
| • Ø110 mm   | 131503 | 1              | 4,250        | 0,124                    |
| • Ø125 mm   | 131504 | 1              | 5,080        | 0,124                    |
| • Ø140 mm   | 131505 | 1              | 5,360        | 0,124                    |
| • Ø160 mm   | 131506 | 1              | 7,400        | 0,124                    |
| • Ø200 mm   | 131507 | 1              | 10,050       | 0,124                    |
| • Ø225 mm   | 131508 | 1              | 10,150       | 0,124                    |
| • Ø250 mm   | 131509 | 1              | 20,600       | 0,124                    |
| • Ø280 mm   | 131510 | 1              | 21,500       | 0,124                    |
| • Ø315 mm   | 131511 | 1              | 25,650       | 0,124                    |



### UPVC Swing Check Valve W/Transparent Cover and Spring.

Easy cleaning access via the threaded cover. Thanks to its transparent cover and large chamber, any type of congestion problem can be easily observed. DN50.

| Description              | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------|---------|----------------|--------------|--------------------------|
| • Ø63 mm Slip connection | 131500G | 1              |              |                          |



# Valves, Unions and Fittings

## Check Valves - Spring Weighed Check Valves



### Spring Weighed Check Valves.

In UPVC or ABS. EPDM O-rings. AISI 316 grade spring. PN16.



| Description            | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------|-----------------|------------|-----------|-----------------------|
| • Ø50 mm               | <b>131315</b>   | 6          | 4,330     | 0,013                 |
| • Ø63 mm               | <b>131316</b>   | 6          | 5,810     | 0,022                 |
| • Ø75 mm               | <b>131317</b>   | 2          | 3,920     | 0,016                 |
| • Ø90 mm               | <b>131318</b>   | 2          | 3,780     | 0,016                 |
| • Ø50 mm - Transparent | <b>131315PC</b> | 6          | 4,330     | 0,013                 |
| • Ø63 mm - Transparent | <b>131316PC</b> | 6          | 5,800     | 0,022                 |
| • Ø75 mm - Transparent | <b>131317PC</b> | 2          | 3,920     | 0,016                 |
| • Ø90 mm - Transparent | <b>131318PC</b> | 2          | 3,780     | 0,016                 |

## Valve Boxes



### Valve Box.

Designed to supply access to valves which are underground Manufactured from PP.

| Description                     | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|---------------|------------|-----------|-----------------------|
| • Ø250 mm, circular (10")       | <b>135601</b> | 1          |           |                       |
| • 250 x 375 mm, prismatic (12") | <b>135602</b> | 1          |           |                       |



## Sight Glass



### "Union Sight Glass" In UPVC.

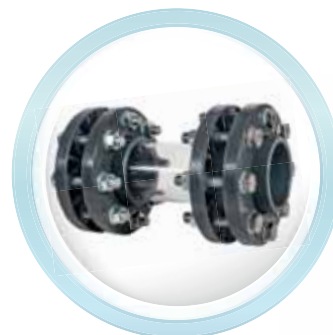
| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • d.50 mm   | <b>134204</b> |            |           |                       |
| • d.63 mm   | <b>134205</b> |            |           |                       |
| • d.75 mm   | <b>134206</b> |            |           |                       |
| • d.90 mm   | <b>134207</b> |            |           |                       |
| • d.110 mm  | <b>134208</b> |            |           |                       |



## Sight Glass

### “Flanged Sight Glass”

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • d.90 mm   | 134220 |                |              |                          |
| • d.110 mm  | 134221 |                |              |                          |
| • d.125 mm  | 134222 |                |              |                          |
| • d.140 mm  | 134223 |                |              |                          |
| • d.160 mm  | 134224 |                |              |                          |
| • d.200 mm  | 134225 |                |              |                          |
| • d.225 mm  | 134226 |                |              |                          |

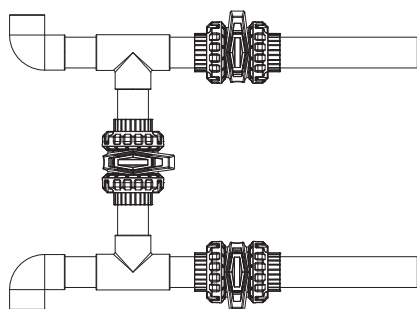


## UPVC By-Pass Kit

### UPVC By-Pass Kit

Easy mount valve and fittings kit for installation of BY-Pass lines to auxiliary equipment such as heat pumps, salt chlorinators, UV strelizers etc. Complete with 125 ml UPVC glue and 100 ml cleaner.

| Description                                                                                    | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • <b>KIT BY-PASS DIAMETER 50 mm</b>                                                            | <b>13543BP</b> |                |              |                          |
| Valve (3x), Tee (2x), Elbow (2x),<br>UPVC Tube, UPVC Glue 125ml (1x) and<br>Cleaner 100ml (1x) |                |                |              |                          |
| • <b>KIT BY-PASS DIAMETER 63 mm</b>                                                            | <b>13547BP</b> |                |              |                          |
| Valve (3x), Tee (2x), Elbow (2x),<br>UPVC Tube, UPVC Glue 125ml (1x) and<br>Cleaner 100ml (1x) |                |                |              |                          |



## UPVC Fittings - Elbow

**NEW !**



“Elbow, 90°” PN16 up to size 160 mm. Bigger size PN10.

| Description     | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|---------------|----------------|--------------|--------------------------|
| • Ø20 mm        | <b>133101</b> | 250            | 4,000        | 0,021                    |
| • Ø25 mm        | <b>133102</b> | 500            | 5,500        | 0,021                    |
| • Ø32 mm        | <b>133103</b> | 250            | 17,500       | 0,094                    |
| • Ø40 mm        | <b>133104</b> | 144            | 3,400        | 0,021                    |
| • Ø50 mm (NEW)  | <b>133105</b> | 180            | 25,380       | 0,034                    |
| • Ø63 mm (NEW)  | <b>133106</b> | 100            | 20,700       | 0,034                    |
| • Ø75 mm        | <b>133107</b> | 80             | 24,400       | 0,124                    |
| • Ø90 mm        | <b>133108</b> | 50             | 25,800       | 0,124                    |
| • Ø110 mm       | <b>133109</b> | 30             | 23,800       | 0,124                    |
| • Ø125 mm       | <b>133110</b> | 16             | 15,600       | 0,124                    |
| • Ø140 mm       | <b>133111</b> | 12             | 15,400       | 0,124                    |
| • Ø160 mm       | <b>133112</b> | 8              | 18,300       | 0,124                    |
| • Ø200 mm       | <b>133113</b> | 4              | 14,660       | 0,124                    |
| • Ø225 mm       | <b>133114</b> | 3              | 13,300       | 0,124                    |
| • Ø250 mm (NEW) | <b>133115</b> | 1              | 7,710        | 0,094                    |
| • Ø280 mm       | <b>133116</b> | 1              | 9,800        | 0,124                    |
| • Ø315 mm       | <b>133117</b> | 1              | 14,440       | 0,124                    |

“Elbow, 45°” PN16 up to size 160 mm. Bigger size PN10.



| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • Ø20 mm    | <b>133201</b> | 600            | 3,400        | 0,021                    |
| • Ø25 mm    | <b>133202</b> | 500            | 3,400        | 0,021                    |
| • Ø32 mm    | <b>133203</b> | 320            | 4,200        | 0,021                    |
| • Ø40 mm    | <b>133204</b> | 150            | 4,200        | 0,021                    |
| • Ø50 mm    | <b>133205</b> | 225            | 24,070       | 0,940                    |
| • Ø63 mm    | <b>133206</b> | 120            | 19,800       | 0,940                    |
| • Ø75 mm    | <b>133207</b> | 100            | 24,180       | 0,124                    |
| • Ø90 mm    | <b>133208</b> | 50             | 18,080       | 0,124                    |
| • Ø110 mm   | <b>133209</b> | 30             | 17,120       | 0,124                    |
| • Ø125 mm   | <b>133210</b> | 18             | 14,340       | 0,124                    |
| • Ø140 mm   | <b>133211</b> | 15             | 16,380       | 0,124                    |
| • Ø160 mm   | <b>133212</b> | 9              | 16,400       | 0,124                    |
| • Ø200 mm   | <b>133213</b> | 4              | 14,300       | 0,124                    |
| • Ø225 mm   | <b>133214</b> | 4              | 15,260       | 0,124                    |
| • Ø250 mm   | <b>133215</b> | 1              | 6,100        | 0,124                    |
| • Ø280 mm   | <b>133216</b> | 1              | 8,980        | 0,124                    |
| • Ø315 mm   | <b>133217</b> | 1              | 10,880       | 0,124                    |

## UPVC Fittings - Tee

### "Tee"

| Description    | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------|----------------|--------------|--------------------------|
| • Ø20 mm       | 133301 | 150            | 3,240        | 0,021                    |
| • Ø25 mm       | 133302 | 150            | 4,420        | 0,021                    |
| • Ø32 mm       | 133303 | 100            | 5,380        | 0,021                    |
| • Ø40 mm       | 133304 | 50             | 4,180        | 0,021                    |
| • Ø50 mm (NEW) | 133305 | 115            | 20,580       | 0,940                    |
| • Ø63 mm (NEW) | 133306 | 75             | 20,010       | 0,940                    |
| • Ø75 mm       | 133307 | 50             | 20,800       | 0,124                    |
| • Ø90 mm       | 133308 | 30             | 21,780       | 0,124                    |
| • Ø110 mm      | 133309 | 20             | 20,820       | 0,124                    |
| • Ø125 mm      | 133310 | 11             | 14,700       | 0,124                    |
| • Ø140 mm      | 133311 | 8              | 15,140       | 0,124                    |
| • Ø160 mm      | 133312 | 5              | 15,060       | 0,124                    |
| • Ø200 mm      | 133313 | 3              | 14,160       | 0,124                    |
| • Ø225 mm      | 133314 | 2              | 13,800       | 0,124                    |
| • Ø250 mm      | 133315 | 1              | 10,500       | 0,094                    |
| • Ø280 mm      | 133316 | 1              | 12,200       | 0,124                    |
| • Ø315 mm      | 133317 | 1              | 18,760       | 0,124                    |

**NEW !**



## UPVC Fittings - Reducing Tee

### "Reducing Tee"

| Description      | Code     | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|----------|----------------|--------------|--------------------------|
| • Ø63 - Ø50 mm   | 13330061 | 75             |              | 0,940                    |
| • Ø75 - Ø50 mm   | 13330071 | 50             |              | 0,124                    |
| • Ø75 - Ø63 mm   | 13330072 | 50             |              | 0,124                    |
| • Ø90 - Ø63 mm   | 13330081 | 50             |              | 0,124                    |
| • Ø90 - Ø75 mm   | 13330082 | 30             |              | 0,124                    |
| • Ø110 - Ø63 mm  | 13330091 | 20             |              | 0,124                    |
| • Ø110 - Ø75 mm  | 13330092 | 20             |              | 0,124                    |
| • Ø110 - Ø90 mm  | 13330093 | 20             |              | 0,124                    |
| • Ø125 - Ø75 mm  | 13330101 | 11             |              | 0,124                    |
| • Ø125 - Ø90 mm  | 13330102 | 11             |              | 0,124                    |
| • Ø125 - Ø110 mm | 13330103 | 11             |              | 0,124                    |
| • Ø140 - Ø90 mm  | 13330111 | 8              |              | 0,124                    |
| • Ø140 - Ø110 mm | 13330112 | 8              |              | 0,124                    |
| • Ø140 - Ø125 mm | 13330113 | 8              |              | 0,124                    |
| • Ø160 - Ø63 mm  | 13330121 | 5              |              | 0,124                    |
| • Ø160 - Ø75 mm  | 13330122 | 5              |              | 0,124                    |
| • Ø160 - Ø90 mm  | 13330123 | 5              |              | 0,124                    |
| • Ø160 - Ø110 mm | 13330124 | 5              |              | 0,124                    |
| • Ø160 - Ø125 mm | 13330125 | 5              |              | 0,124                    |
| • Ø160 - Ø140 mm | 13330126 | 5              |              | 0,124                    |
| • Ø200 - Ø75 mm  | 13330131 | 3              |              | 0,124                    |



## UPVC Fittings - Reducing Tee

“Reducing Tee”



| Description      | Code     | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|----------|------------|-----------|-----------------------|
| • Ø200 - Ø90 mm  | 13330132 | 3          |           | 0,124                 |
| • Ø200 - Ø110 mm | 13330133 | 3          |           | 0,124                 |
| • Ø200 - Ø125 mm | 13330134 | 3          |           | 0,124                 |
| • Ø200 - Ø140 mm | 13330135 | 3          |           | 0,124                 |
| • Ø200 - Ø160 mm | 13330136 | 3          |           | 0,124                 |
| • Ø225 - Ø110 mm | 13330141 | 2          |           | 0,124                 |
| • Ø225 - Ø125 mm | 13330142 | 2          |           | 0,124                 |
| • Ø225 - Ø140 mm | 13330143 | 2          |           | 0,124                 |
| • Ø225 - Ø160 mm | 13330144 | 2          |           | 0,124                 |
| • Ø225 - Ø200 mm | 13330145 | 2          |           | 0,124                 |

## UPVC Cross



“Cross”

| Description      | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|--------|------------|-----------|-----------------------|
| • d.32 mm        | 133321 |            |           |                       |
| • d.40 mm        | 133322 |            |           |                       |
| • d.50 mm        | 133323 |            |           |                       |
| • d.63 mm        | 133324 |            |           |                       |
| • d.75 mm        | 133325 |            |           |                       |
| • d.90 mm        | 133326 |            |           |                       |
| • d.110 mm (NEW) | 133327 |            |           |                       |
| • d.125 mm       | 133328 |            |           |                       |
| • d.140 mm       | 133329 |            |           |                       |
| • d.160 mm       | 133330 |            |           |                       |
| • d.200 mm       | 133331 |            |           |                       |
| • d.225 mm       | 133332 |            |           |                       |
| • d.250 mm       | 133333 |            |           |                       |
| • d.280 mm       | 133334 |            |           |                       |
| • d.315 mm       | 133335 |            |           |                       |

## UPVC Fittings - Nipple

“Nipple”



| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
| • 0,5       | 1111080 |            |           |                       |
| • 0,75      | 1111081 |            |           |                       |
| • 1"        | 1111082 |            |           |                       |
| • 1,25"     | 1111083 |            |           |                       |
| • 1,5"      | 1111084 |            |           |                       |
| • 2"        | 1111085 |            |           |                       |
| • 2,5"      | 1111086 |            |           |                       |
| • 3"        | 1111087 |            |           |                       |
| • 4"        | 1111088 |            |           |                       |
| • 4,5"      | 1111089 |            |           |                       |
| • 5"        | 1111090 |            |           |                       |
| • 6"        | 1111091 |            |           |                       |
| • 7"        | 1111092 |            |           |                       |



## UPVC Fittings - Adaptors

### "Female Threaded Adaptor"

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • Ø50 mm    | <b>133405</b> | 120            | 13,600       | 0,049                    |
| • Ø63 mm    | <b>133406</b> | 87             | 15,010       | 0,049                    |
| • Ø75 mm    | <b>133407</b> | 120            | 25,760       | 0,094                    |
| • Ø90 mm    | <b>133408</b> | 60             | 19,600       | 0,094                    |
| • Ø110 mm   | <b>133409</b> | 44             | 13,460       | 0,094                    |



### "Male Threaded Adaptor"

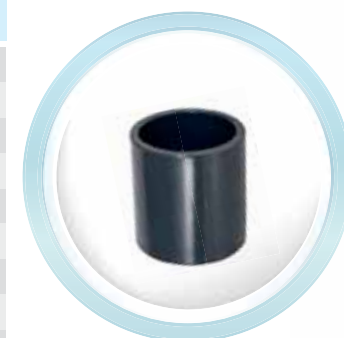
| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • Ø50 mm    | <b>133505</b> | 156            | 17,720       | 0,049                    |
| • Ø63 mm    | <b>133506</b> | 116            | 18,040       | 0,049                    |
| • Ø75 mm    | <b>133507</b> | 120            | 26,700       | 0,094                    |
| • Ø90 mm    | <b>133508</b> | 75             | 25,860       | 0,094                    |
| • Ø110 mm   | <b>133509</b> | 36             | 17,000       | 0,094                    |



## UPVC Sockets

### "Socket"

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • Ø20 mm    | <b>133821</b> | 500            | 7,000        | 0,021                    |
| • Ø25 mm    | <b>133822</b> | 500            | 10,500       | 0,021                    |
| • Ø32 mm    | <b>133823</b> | 300            | 10,650       | 0,021                    |
| • Ø40 mm    | <b>133824</b> | 250            | 15,500       | 0,021                    |
| • Ø50 mm    | <b>133805</b> | 150            | 13,100       | 0,049                    |
| • Ø63 mm    | <b>133806</b> | 87             | 13,400       | 0,049                    |
| • Ø75 mm    | <b>133807</b> | 96             | 22,300       | 0,094                    |
| • Ø90 mm    | <b>133808</b> | 60             | 22,540       | 0,094                    |
| • Ø110 mm   | <b>133809</b> | 36             | 21,480       | 0,094                    |
| • Ø125 mm   | <b>133804</b> | 24             | 14,340       | 0,094                    |
| • Ø140 mm   | <b>133803</b> | 15             | 14,380       | 0,094                    |
| • Ø160 mm   | <b>133802</b> | 12             | 16,660       | 0,094                    |
| • Ø200 mm   | <b>133810</b> | 5              | 11,320       | 0,094                    |
| • Ø225 mm   | <b>133811</b> | 3              | 10,220       | 0,094                    |
| • Ø250 mm   | <b>133812</b> | 2              | 8,910        | 0,124                    |
| • Ø280 mm   | <b>133813</b> | 1              | 6,120        | 0,124                    |
| • Ø315 mm   | <b>133814</b> | 1              | 7,100        | 0,124                    |



## UPVC Fittings - Reducing Sockets

### “Reducing Socket”



| Description      | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|-----------------|----------------|--------------|--------------------------|
| • Ø25 - Ø20 mm   | <b>133602</b>   | 250            |              |                          |
| • Ø32 - Ø25 mm   | <b>133604</b>   | 1000           |              |                          |
| • Ø40 - Ø32 mm   | <b>133603</b>   | 600            |              |                          |
| • Ø50 - Ø32 mm   | <b>133601</b>   | 200            |              |                          |
| • Ø50 - Ø40 mm   | <b>1336095</b>  | 200            | 16,800       | 0,094                    |
| • Ø63 - Ø50 mm   | <b>133605</b>   | 252            | 16,100       | 0,049                    |
| • Ø75 - Ø63 mm   | <b>133606</b>   | 150            | 12,400       | 0,049                    |
| • Ø90 - Ø75 mm   | <b>133607</b>   | 88             | 12,496       | 0,049                    |
| • Ø110 - Ø90 mm  | <b>133608</b>   | 48             | 12,912       | 0,049                    |
| • Ø75 - Ø50 mm   | <b>1336061</b>  | 150            | 15,100       | 0,049                    |
| • Ø90 - Ø63 mm   | <b>1336071</b>  | 88             | 15,900       | 0,049                    |
| • Ø110 - Ø75 mm  | <b>1336081</b>  | 48             | 13,800       | 0,049                    |
| • Ø110 - Ø63 mm  | <b>1336082</b>  | 48             | 13,700       | 0,049                    |
| • Ø125 - Ø90 mm  | <b>1336091</b>  | 36             | 15,190       | 0,049                    |
| • Ø125 - Ø110 mm | <b>133609</b>   | 36             | 10,440       | 0,049                    |
| • Ø140 - Ø90 mm  | <b>133612</b>   | 23             | 18,800       | 0,049                    |
| • Ø140 - Ø110 mm | <b>1336121</b>  | 23             | 6,400        | 0,049                    |
| • Ø140 - Ø125 mm | <b>1336122</b>  | 23             | 8,700        | 0,049                    |
| • Ø160 - Ø90 mm  | <b>133610</b>   | 15             | 11,320       | 0,049                    |
| • Ø160 - Ø110 mm | <b>133611</b>   | 15             | 10,180       | 0,049                    |
| • Ø160 - Ø140 mm | <b>13366111</b> | 15             | 8,940        | 0,049                    |
| • Ø200 - Ø160 mm | <b>133672</b>   | 14             | 17,500       | 0,094                    |
| • Ø200 - Ø140 mm | <b>133671</b>   | 14             |              | 0,094                    |
| • Ø225 - Ø200 mm | <b>133681</b>   | 12             | 16,300       | 0,094                    |
| • Ø225 - Ø160 mm | <b>133682</b>   | 12             | 15,400       | 0,094                    |
| • Ø250 - Ø225 mm | <b>133683</b>   | 8              | 13,900       | 0,094                    |
| • Ø280 - Ø250 mm | <b>133686</b>   |                |              |                          |
| • Ø315 - Ø250 mm | <b>133693</b>   |                |              |                          |

### “Conical Socket”



| Description      | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------|-----------------|----------------|--------------|--------------------------|
| • Ø75 - Ø50 mm   | <b>1339071</b>  |                |              |                          |
| • Ø75 - Ø63 mm   | <b>1339072</b>  |                |              |                          |
| • Ø90 - Ø63 mm   | <b>1339082</b>  |                |              |                          |
| • Ø110 - Ø63 mm  | <b>1339091</b>  |                |              |                          |
| • Ø160 - Ø110 mm | <b>13390121</b> |                |              |                          |
| • Ø200 - Ø110 mm | <b>13390131</b> |                |              |                          |

## UPVC Fittings - Caps

### “Caps”

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • Ø20 mm    | 133701 | 200            |              |                          |
| • Ø25 mm    | 133702 | 1000           |              |                          |
| • Ø32 mm    | 133703 | 600            |              |                          |
| • Ø40 mm    | 133704 | 360            |              |                          |
| • Ø50 mm    | 133705 | 262            | 14,480       | 0,049                    |
| • Ø63 mm    | 133706 | 130            | 13,120       | 0,049                    |
| • Ø75 mm    | 133707 | 80             | 15,200       | 0,049                    |
| • Ø90 mm    | 133708 | 46             | 11,440       | 0,049                    |
| • Ø110 mm   | 133709 | 33             | 14,340       | 0,049                    |
| • Ø125 mm   | 133711 | 20             | 9,620        | 0,049                    |
| • Ø140 mm   | 133712 | 11             | 8,280        | 0,049                    |
| • Ø160 mm   | 133713 | 8              | 8,840        | 0,049                    |
| • Ø200 mm   | 133714 | 8              | 13,100       | 0,094                    |
| • Ø225 mm   | 133715 | 6              | 12,800       | 0,094                    |
| • Ø250 mm   | 133716 | 4              | 13,200       | 0,124                    |
| • Ø280 mm   | 133717 | 3              | 15,800       | 0,124                    |
| • Ø315 mm   | 133718 | 2              |              | 0,124                    |



### “Female Threaded Cap”

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø50 mm    | 133705T | 210            |              | 0,049                    |
| • Ø63 mm    | 133706T | 130            |              | 0,049                    |
| • Ø75 mm    | 133707T | 80             |              | 0,049                    |
| • Ø90 mm    | 133708T | 46             |              | 0,049                    |
| • Ø110 mm   | 133709T | 33             |              | 0,049                    |
| • Ø125 mm   | 133711T | 46             |              |                          |
| • Ø140 mm   | 133712T | 33             |              |                          |
| • Ø160 mm   | 133713T |                |              |                          |
| • Ø200 mm   | 133714T |                |              |                          |
| • Ø225 mm   | 133715T |                |              |                          |



### “Male Threaded Cap”

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • 2,5"      | 133722 |                |              |                          |
| • 3"        | 133723 |                |              |                          |
| • 4"        | 133724 |                |              |                          |



### “Caps Male Threaded”

| Description                  | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|---------|----------------|--------------|--------------------------|
| • 1,5" Male Threaded w/oring | 133728T |                |              |                          |
| • 2" Male Threaded w/oring   | 133729T |                |              |                          |

# Valves, Unions and Fittings

## Unions

### "Both Side Female Union"

O-ring in EPDM. Compatible with Fitvalf d.50 mm ball valve handle.



| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • d.20 mm   | <b>132111</b> | 250        | 11,400    | 0,021                 |
| • d.25 mm   | <b>132112</b> | 200        | 12,800    | 0,021                 |
| • d.32 mm   | <b>132113</b> | 150        | 13,400    | 0,021                 |
| • d.40 mm   | <b>132114</b> | 80         | 11,280    | 0,021                 |
| • d.50 mm   | <b>132115</b> | 100        | 19,600    | 0,094                 |
| • d.63 mm   | <b>132116</b> | 50         | 18,400    | 0,094                 |
| • d.75 mm   | <b>132117</b> | 30         | 22,300    | 0,094                 |
| • d.90 mm   | <b>132118</b> | 30         | 19,600    | 0,094                 |
| • d.110 mm  | <b>132119</b> | 20         | 30,000    | 0,094                 |

### UPVC One Sided Threaded Union. O-Ring in EPDM.



| Description | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-----------------|------------|-----------|-----------------------|
| • d.20 mm   | <b>132111T1</b> | 250        | 11,400    | 0,021                 |
| • d.25 mm   | <b>132112T1</b> | 200        | 12,800    | 0,021                 |
| • d.32 mm   | <b>132113T1</b> | 150        | 13,400    | 0,021                 |
| • d.40 mm   | <b>132114T1</b> | 80         | 11,280    | 0,021                 |
| • d.50 mm   | <b>132115T1</b> | 100        | 19,600    | 0,094                 |
| • d.63 mm   | <b>132116T1</b> | 50         | 18,400    | 0,094                 |
| • d.75 mm   | <b>132117T1</b> | 40         | 22,300    | 0,094                 |
| • d.90 mm   | <b>132118T1</b> | 30         | 19,600    | 0,094                 |
| • d.110 mm  | <b>132119T1</b> | 20         | 30,000    | 0,094                 |

### UPVC Both Sided Threaded Union. EPDM O-Ring.



| Description | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|----------------|------------|-----------|-----------------------|
| • 0,5       | <b>132111T</b> | 250        | 11,400    | 0,021                 |
| • 0,75      | <b>132112T</b> | 200        | 12,800    | 0,021                 |
| • 1"        | <b>132113T</b> | 150        | 13,400    | 0,021                 |
| • 1,25"     | <b>132114T</b> | 80         | 11,280    | 0,021                 |
| • 1,5"      | <b>132115T</b> | 100        | 19,600    | 0,094                 |
| • 2"        | <b>132116T</b> | 50         | 18,400    | 0,094                 |
| • 2,5"      | <b>132117T</b> | 40         | 22,300    | 0,094                 |
| • 3"        | <b>132118T</b> | 30         | 19,600    | 0,094                 |
| • 4"        | <b>132119T</b> | 20         | 30,000    | 0,094                 |



## Unions

UPVC Unions. Female socket / Male threaded.

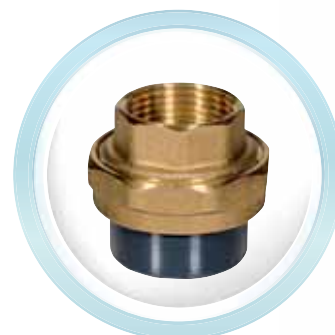
| Description                    | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------|----------------|----------------|--------------|--------------------------|
| • 1,5" - d.50 mm               | <b>132121</b>  | 100            | 24,200       | 0,094                    |
| • 2" - d.63 mm                 | <b>132122</b>  | 50             | 21,800       | 0,094                    |
| • 1,5" - d.63 mm Male Adapter. | <b>132123</b>  | 50             | 21,400       | 0,094                    |
| • 1,5" - d.50 mm*              | <b>1321211</b> | 100            | 24,200       | 0,094                    |

\* 1321211 code must be ordered to be used with GEMAS multiport valves 02400T, 02404T, and 02403T



“Brass Union Female Threaded”

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • d.20 mm   | <b>133450</b> |                |              |                          |
| • d.25 mm   | <b>133451</b> |                |              |                          |
| • d.32 mm   | <b>133452</b> |                |              |                          |
| • d.40 mm   | <b>133453</b> |                |              |                          |
| • d.50 mm   | <b>133454</b> |                |              |                          |
| • d.63 mm   | <b>133455</b> |                |              |                          |



## UPVC Fittings - Flange Adaptors

“UPVC Flange Adaptor”

| Description     | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|---------------|----------------|--------------|--------------------------|
| • Ø50 mm        | <b>133927</b> | 200            | 13,600       | 0,049                    |
| • Ø63 mm        | <b>133928</b> | 100            | 11,200       | 0,049                    |
| • Ø75 mm        | <b>133929</b> | 70             | 12,400       | 0,049                    |
| • Ø90 mm        | <b>133908</b> | 42             | 10,850       | 0,049                    |
| • Ø110 mm       | <b>133909</b> | 25             | 10,380       | 0,049                    |
| • Ø125 mm       | <b>133910</b> | 15             | 9,400        | 0,049                    |
| • Ø140 mm       | <b>133911</b> | 14             | 8,940        | 0,049                    |
| • Ø160 mm       | <b>133912</b> | 16             | 18,320       | 0,094                    |
| • Ø200 mm       | <b>133913</b> | 8              | 12,640       | 0,094                    |
| • Ø225 mm       | <b>133914</b> | 8              | 14,740       | 0,094                    |
| • Ø250 mm (NEW) | <b>133915</b> | 5              | 14,800       | 0,124                    |
| • Ø280 mm       | <b>133916</b> | 4              | 11,700       | 0,124                    |
| • Ø315 mm       | <b>133917</b> | 2              | 8,500        | 0,124                    |

**NEW !**



## Unions



**“Female Threaded Flange Adaptor”**

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • 1,5"      | 133927T |                |              |                          |
| • 2"        | 133928T |                |              |                          |
| • 2,5"      | 133929T |                |              |                          |
| • 3"        | 133908T |                |              |                          |
| • 4"        | 133909T |                |              |                          |
| • 4,5"      | 133910T |                |              |                          |
| • 5"        | 133911T |                |              |                          |
| • 6"        | 133912T |                |              |                          |
| • 7"        | 133913T |                |              |                          |
| • 8"        | 133914T |                |              |                          |

## Flange Adaptors and Flanges

**NEW !**



**“UPVC Flange”**

| Description     | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|---------|----------------|--------------|--------------------------|
| • Ø50 mm        | 1331005 | 70             | 17,800       | 0,049                    |
| • Ø63 mm        | 1331006 | 60             | 19,100       | 0,049                    |
| • Ø75 mm        | 1331007 | 50             | 21,200       | 0,049                    |
| • Ø90 mm        | 1331008 | 40             | 15,940       | 0,049                    |
| • Ø110 mm       | 1331009 | 34             | 15,200       | 0,049                    |
| • Ø125 mm       | 1331010 | 23             | 15,060       | 0,049                    |
| • Ø140 mm       | 1331011 | 23             | 13,680       | 0,049                    |
| • Ø160 mm       | 1331012 | 25             | 20,840       | 0,094                    |
| • Ø200 mm       | 1331013 | 16             | 26,440       | 0,094                    |
| • Ø225 mm       | 1331014 | 16             | 24,080       | 0,094                    |
| • Ø250 mm (NEW) | 1331015 | 5              | 14,800       | 0,124                    |
| • Ø280 mm       | 1331016 | 4              | 9,600        | 0,124                    |
| • Ø315 mm       | 1331017 | 2              | 5,600        | 0,124                    |



**“Blind Flange”**

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø110 mm   | 1331109 | 34             |              |                          |
| • Ø125 mm   | 1331110 | 23             |              |                          |
| • Ø140 mm   | 1331111 | 23             |              |                          |
| • Ø160 mm   | 1331112 | 25             |              |                          |
| • Ø200 mm   | 1331113 |                |              |                          |
| • Ø225 mm   | 1331114 |                |              |                          |

## Flange Adaptors and Flanges

### "Vibration Flange"

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • d.50 mm   | 0141113 |                |              |                          |
| • d.65 mm   | 0141114 |                |              |                          |
| • d.80 mm   | 0141115 |                |              |                          |
| • d.100 mm  | 0141116 |                |              |                          |
| • d.125 mm  | 0141117 |                |              |                          |
| • d.150 mm  | 0141118 |                |              |                          |
| • d.200 mm  | 0141119 |                |              |                          |
| • d.250 mm  | 0141120 |                |              |                          |
| • d.300 mm  | 0141121 |                |              |                          |
| • d.350 mm  | 0141122 |                |              |                          |
| • d.400 mm  | 0141123 |                |              |                          |
| • d.450 mm  | 0141124 |                |              |                          |
| • d.500 mm  | 0141125 |                |              |                          |
| • d.600 mm  | 0141126 |                |              |                          |



## Hose Connection and Wall Conduit Flanges

**UPVC Hose Connection.** O-rings in EPDM.

One side is external threaded, the other side is internal slip.

| Description                                   | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------------------------|--------|----------------|--------------|--------------------------|
| • For d.38 mm hose-1,5"                       | 136115 | 100            | 24,200       | 0,094                    |
| • For d.38 mm hose-1,5" used<br>above adaptor | 136125 | 50             | 21,800       | 0,094                    |
|                                               |        | 50             | 21,400       | 0,094                    |



136115



136125

### UPVC Wall Conduit Flange.

| Description | Code   | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------|----------------|--------------|--------------------------|
| • Ø63 mm    | 041602 |                |              |                          |
| • Ø75 mm    | 041603 |                |              |                          |
| • Ø90 mm    | 041604 |                |              |                          |
| • Ø110 mm   | 041605 |                |              |                          |

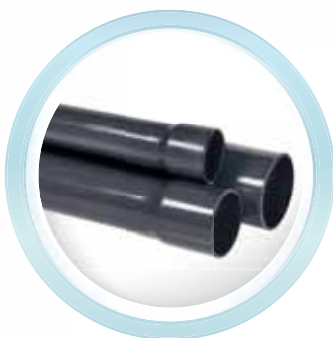


## UPVC Pipes - 6 bars

### UPVC Solvent Cement Socket Pressure Pipes for Clean Water:

UPVC Clean Water Pipes have a smooth and a regular surface. Resistant to pressure and atmosphere conditions. With its high durability to chemicals, it is suitable for all kinds of liquid flow. Manufactured according to the norms of TS274, EN 1452 and DIN 8062,19532. They are the most common products that are used for the transfer of clean water with their simple installation and transfer, durability and healthy structure.

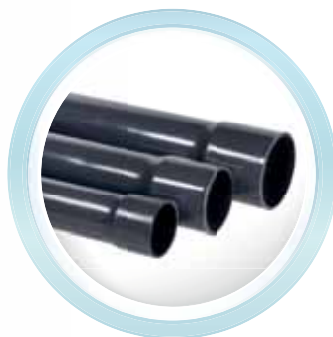
As Grade is the major principle for our Grade. Tests and analysis are done regularly at the laboratory.



| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø50 mm    | 1390601 |                |              |                          |
| • Ø63 mm    | 1390602 |                |              |                          |
| • Ø75 mm    | 1390603 |                |              |                          |
| • Ø90 mm    | 1390604 |                |              |                          |
| • Ø110 mm   | 1390605 |                |              |                          |
| • Ø125 mm   | 1390606 |                |              |                          |
| • Ø140 mm   | 1390607 |                |              |                          |
| • Ø160 mm   | 1390608 |                |              |                          |
| • Ø200 mm   | 1390609 |                |              |                          |
| • Ø225 mm   | 1390610 |                |              |                          |
| • Ø250 mm   | 1390611 |                |              |                          |
| • Ø280 mm   | 1390612 |                |              |                          |
| • Ø315 mm   | 1390613 |                |              |                          |
| • Ø355 mm   | 1390614 |                |              |                          |
| • Ø400 mm   | 1390615 |                |              |                          |

## UPVC Pipes - 10 bars - 16 bars

### UPVC Solvent Cement Socket Pressure Pipes for Clean Water. 10 BARS



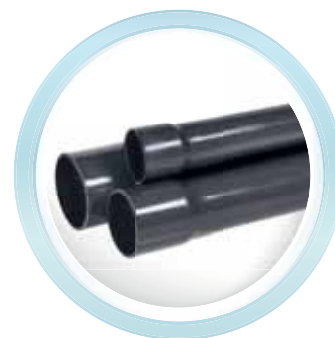
| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø20 mm    | 1391000 |                |              |                          |
| • Ø25 mm    | 1391001 |                |              |                          |
| • Ø32 mm    | 1391002 |                |              |                          |
| • Ø40 mm    | 1391003 |                |              |                          |
| • Ø50 mm    | 1391004 |                |              |                          |
| • Ø63 mm    | 1391005 |                |              |                          |
| • Ø75 mm    | 1391006 |                |              |                          |
| • Ø90 mm    | 1391007 |                |              |                          |
| • Ø110 mm   | 1391008 |                |              |                          |
| • Ø125 mm   | 1391009 |                |              |                          |
| • Ø140 mm   | 1391010 |                |              |                          |
| • Ø160 mm   | 1391011 |                |              |                          |
| • Ø200 mm   | 1391012 |                |              |                          |
| • Ø225 mm   | 1391013 |                |              |                          |



## UPVC Pipes - 10 bars - 16 bars

### UPVC Solvent Cement Socket Pressure Pipes for Clean Water. 10 BARS

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø250 mm   | 1391014 |                |              |                          |
| • Ø280 mm   | 1391015 |                |              |                          |
| • Ø315 mm   | 1391016 |                |              |                          |
| • Ø355 mm   | 1391017 |                |              |                          |
| • Ø400 mm   | 1391018 |                |              |                          |



### UPVC Solvent Cement Socket Pressure Pipes for Clean Water. 16 BARS

| Description | Code    | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------|----------------|--------------|--------------------------|
| • Ø20 mm    | 1391601 |                |              |                          |
| • Ø25 mm    | 1391602 |                |              |                          |
| • Ø32 mm    | 1391603 |                |              |                          |
| • Ø40 mm    | 1391604 |                |              |                          |
| • Ø50 mm    | 1391605 |                |              |                          |
| • Ø63 mm    | 1391606 |                |              |                          |
| • Ø75 mm    | 1391607 |                |              |                          |
| • Ø90 mm    | 1391608 |                |              |                          |
| • Ø110 mm   | 1391609 |                |              |                          |
| • Ø125 mm   | 1391610 |                |              |                          |
| • Ø140 mm   | 1391611 |                |              |                          |
| • Ø160 mm   | 1391612 |                |              |                          |
| • Ø200 mm   | 1391613 |                |              |                          |
| • Ø225 mm   | 1391614 |                |              |                          |
| • Ø250 mm   | 1391615 |                |              |                          |
| • Ø280 mm   | 1391616 |                |              |                          |
| • Ø315 mm   | 1391617 |                |              |                          |
| • Ø355 mm   | 1391618 |                |              |                          |
| • Ø400 mm   | 1391619 |                |              |                          |

## UPVC Solvent Cements



**“FITVALF UPVC Solvent Cement”**. Plastic bottle with brush. ASTM Heavy Duty formula. Low Viscosity, Fast Curing Time.

| Description                               | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------|--------------|------------|-----------|-----------------------|
| • Fitvalf 1000 ml                         | <b>13525</b> | 12         |           |                       |
| • Fitvalf 500 ml                          | <b>13527</b> | 12         | 6,900     | 0,011                 |
| • Fitvalf 250 ml                          | <b>13529</b> | 24         | 7,600     | 0,011                 |
| • Fitvalf 125 ml                          | <b>13537</b> | 16         |           |                       |
| • CHRISTY'S Solvent Cement 1 KG           | <b>13570</b> |            |           |                       |
| • Fitvalf UPVC Solvent Cement 125 ml Tube | <b>13580</b> |            |           |                       |

**“FITVALF Pool UPVC Solvent Cement”**. Plastic bottle with brush. Medium Duty formula. Medium Viscosity, Normal Curing Time.

| Description                                | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|--------------|------------|-----------|-----------------------|
| • Fitvalf Pool 1000 ml                     | <b>13531</b> | 6          |           |                       |
| • Fitvalf Pool 500 ml                      | <b>13550</b> | 12         | 7,200     | 0,012                 |
| • Fitvalf Pool 250 ml                      | <b>13554</b> | 24         | 6,900     | 0,011                 |
| • Fitvalf Pool 125 ml                      | <b>13556</b> | 16         | 7,600     | 0,011                 |
| • Hydrodif Glue for UPVC Flex Tubes-500 gr | <b>13530</b> |            |           |                       |

## UPVC Solvent Cements



**“Fast UPVC Cements” Made in USA.**

Can be pressurized to system 15 minutes after application.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| 1 kg        | <b>13540</b> |            |           |                       |

## UPVC Pipe Clamps



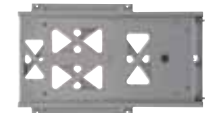
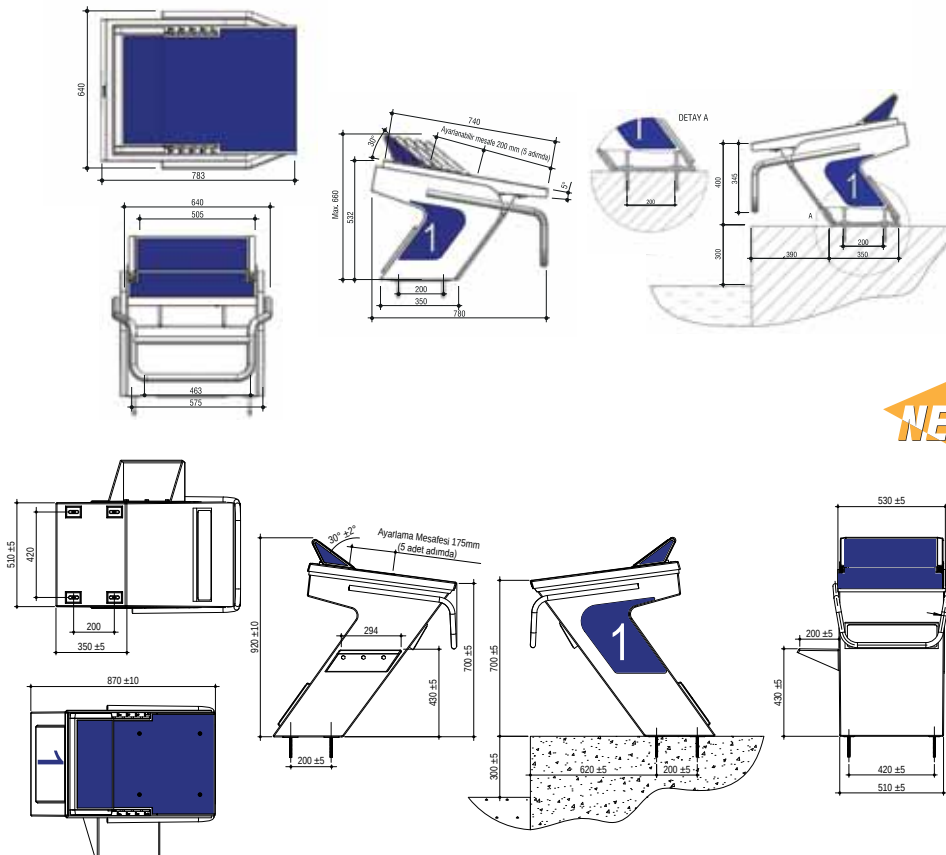
**UPVC Pipe Clamps.**

| Description | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------------|------------|-----------|-----------------------|
| • Ø20 mm    | <b>133350</b> |            |           |                       |
| • Ø25 mm    | <b>133351</b> |            |           |                       |
| • Ø32 mm    | <b>133352</b> |            |           |                       |
| • Ø40 mm    | <b>133353</b> |            |           |                       |
| • Ø50 mm    | <b>133354</b> |            |           |                       |
| • Ø63 mm    | <b>133355</b> |            |           |                       |
| • Ø75 mm    | <b>133356</b> |            |           |                       |
| • Ø90 mm    | <b>133357</b> |            |           |                       |
| • Ø110 mm   | <b>133358</b> |            |           |                       |
| • Ø125 mm   | <b>133359</b> |            |           |                       |
| • Ø140 mm   | <b>133360</b> |            |           |                       |
| • Ø160 mm   | <b>133361</b> |            |           |                       |

## Starting Platforms

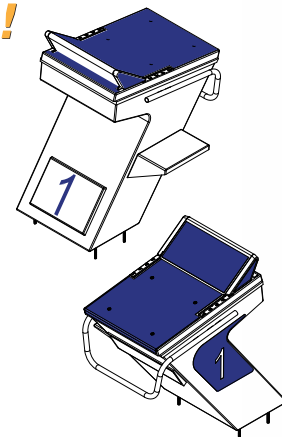
**Track-Start Platforms.** Made of FRP, AISI 304 stainless steel handles. Foot rest pad can be adjusted to front or back. Platform in non-slip and large surface.

| Description                 | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-----------------------------|----------------|----------------|--------------|--------------|
| • Height: 400 mm            | <b>14141</b>   | 1              |              |              |
| • Relay Sensor, Mechatronic | <b>14141DS</b> | 1              |              |              |
| • Height: 700 mm (NEW)      | <b>14142</b>   | 1              |              |              |



14141DS

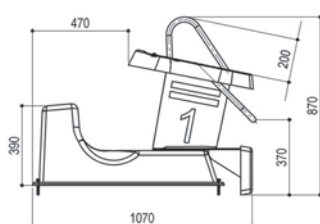
**NEW !**



14142

**Fixed Starting Platforms.** Made of FRP, AISI 304 grade stainless steel top and front handles. Height can be adjusted up to 700 mm through the elevation platform. FRP turning panels can be adapted to front side of the platform.

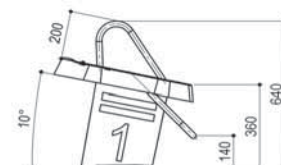
| Description                    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|--------------------------------|--------------|----------------|--------------|--------------|
| • Height: 400mm                | <b>14151</b> | 1              |              |              |
| • Height: 700mm                | <b>14152</b> | 1              |              |              |
| • FRP Turning Panel (Optional) | <b>14153</b> | 1              |              |              |



View with elevation platform



14151



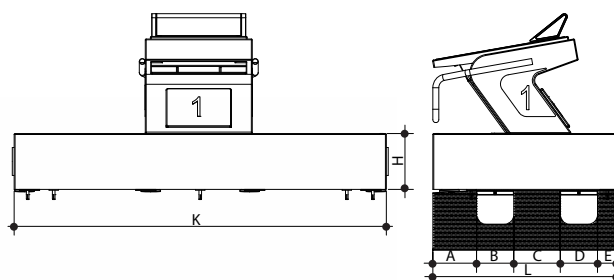
## Starting Platforms



**Starting Platform with Elevation and Turning Podiums.** Made of FRP over steel frame,  $h=300$  mm, height adjustable legs. Used with 400 mm height starting platforms. Each for every swim lane.

| Description      | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------|---------------|------------|-----------|-----------------------|
| • 2000 x 1000 mm | <b>141411</b> | 1          |           |                       |
| • 2500 x 1000 mm | <b>141412</b> | 1          |           |                       |

**PS:** For platform connection, the dimensions of "A, B, C, D and E" must be given.

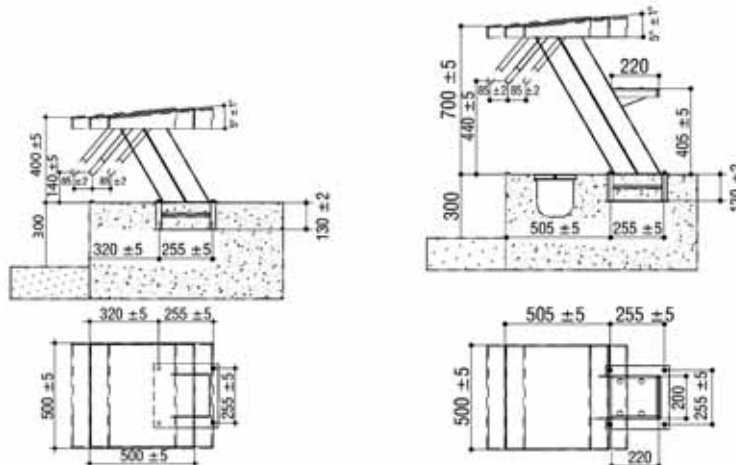


**Starting Platforms; Adjustable.** Base in AISI 304 grade stainless steel, platform in fiberglass reinforced polyester with non-slip finish. 500 x 500 mm. Special anchor to be installed in concrete slab is upon request.

| Description       | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|--------------|------------|-----------|-----------------------|
| • Height : 700 mm | <b>14111</b> | 1          | 23,112    | 0,340                 |
| • Height : 400 mm | <b>14112</b> | 1          | 17,200    | 0,375                 |

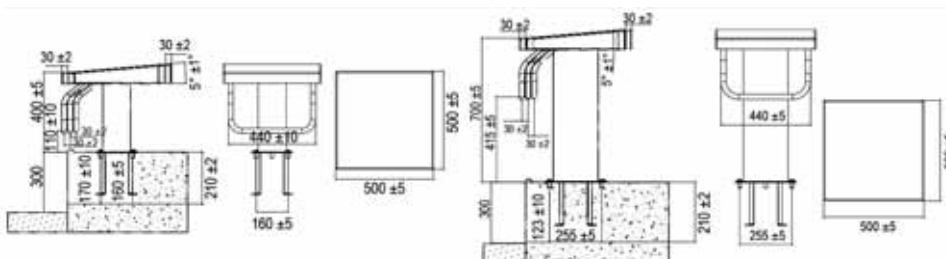


Special Anchor (Optional)



**Adjustable Starting Platform.** AISI 304 grade stainless steel cylindrical body. The platform can be adjusted 3 cm forwards or backwards. The handle is also independently adjustable by 3 cm. Non-slippery surface, polyester and fiberglass 500 x 500 mm platform.

| Description       | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|--------------|------------|-----------|-----------------------|
| • Height : 400 mm | <b>14113</b> | 1          |           |                       |
| • Height : 700 mm | <b>14114</b> | 1          |           |                       |



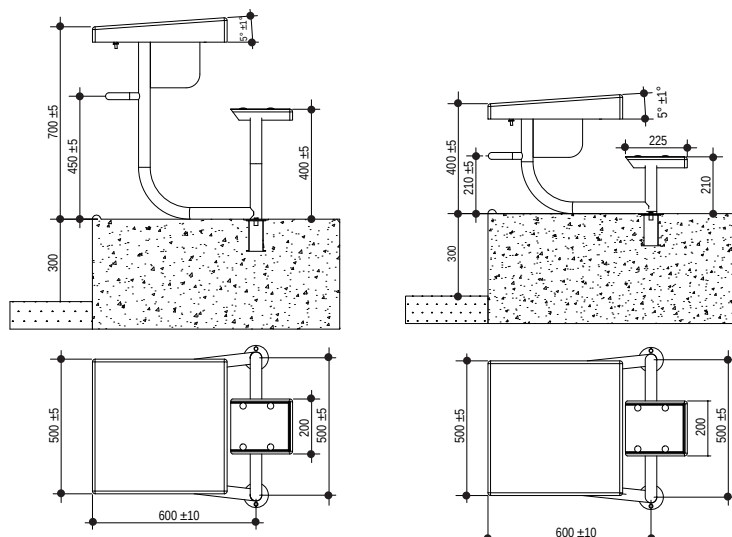


## Starting Platforms

**Starting Platforms; Fixed.** Base made of AISI 304 grade stainless steel Ø42 mm. pipe, platform in fiberglass reinforced polyester with non-slip finish. 500 x 500 mm.

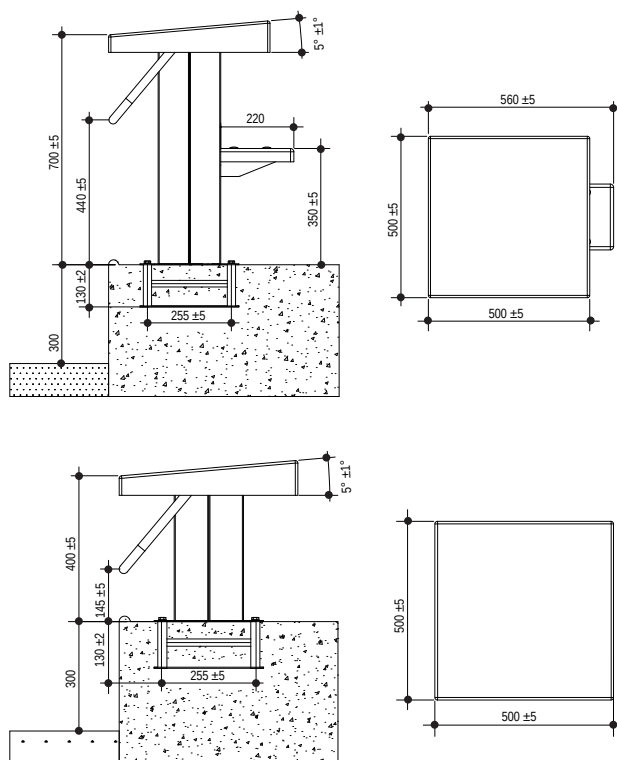
| Description       | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------|--------------|----------------|--------------|--------------------------|
| • Height : 700 mm | <b>14121</b> | 1              |              |                          |
| • Height : 400 mm | <b>14122</b> | 1              |              |                          |

**PS:** Designed to be fixed with "14410" or "14430" anchors are not included.



**Starting Platforms; Fixed.** Base made of AISI 304 grade stainless steel, platform in fiberglass reinforced polyester with non-slip finish. 500 x 500 mm.

| Description       | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------|--------------|----------------|--------------|--------------------------|
| • Height : 700 mm | <b>14131</b> | 1              |              |                          |
| • Height : 400 mm | <b>14132</b> | 1              |              |                          |



Special Anchor (Optional)

## Anchors



### Level Anchors for Zurich and Wiesbaden Type Swimming Pools.

In AISI 304 grade stainless steel, for Ø42 mm pipe.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>14410</b> | 2          | 1,672     | 0,008                 |



### Inclined Anchors for Finnish Type Swimming Pools.

In AISI 304 grade stainless steel, for Ø42 mm pipe.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>14420</b> | 2          | 1,020     | 0,008                 |



### Level Anchors with Bolts for “14121” and “14122” Starting Platforms.

In AISI 304 grade stainless steel for Ø42 mm pipe.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>14430</b> | 2          | 1,240     | 0,008                 |

## Turning Panels

### Turning Panels for Overflow Competition Pools.

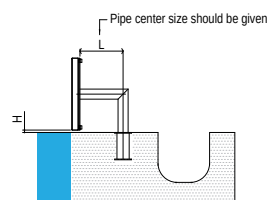
Frame in AISI 304 grade stainless steel frame screened with plastic grating. Height 300 mm.



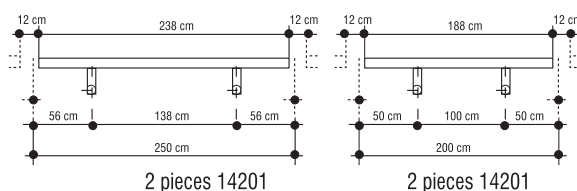
| Description                                                     | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Lane width : 2,0 m                                            | <b>14210</b> | 1          | 12,000    |                       |
| • Lane width : 2,5 m                                            | <b>14220</b> | 1          | 14,000    |                       |
| • Support for turning panels in AISI 304 grade stainless steel. | <b>14201</b> | 2          | 7,000     |                       |

**PS:** Designed to be fixed with “14410” or “14420” anchors which are not included.

“L” and “H” should be dimensioned when ordering.

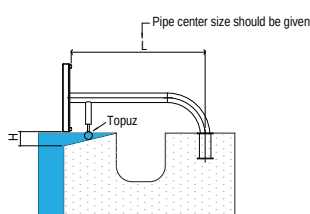


If length “L” is smaller than 500 mm

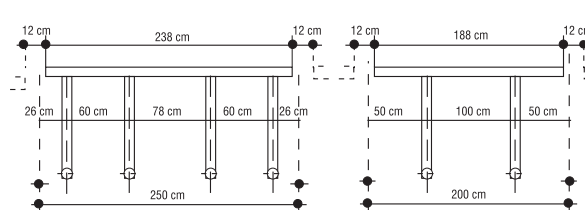


2 pieces 14201

2 pieces 14201



If length “L” is larger than 500 mm



4 pieces 14201

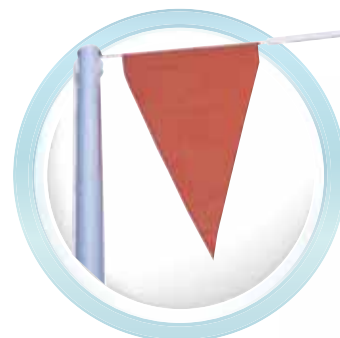
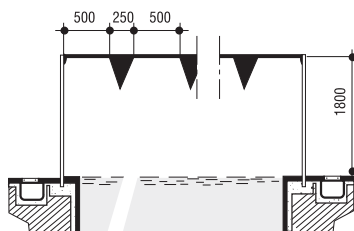
2 pieces 14201

## Post Set

**Set of Backstroke Turn Indicators.** Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with nylon cord and flags.

| Description                 | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------|--------------|----------------|--------------|--------------------------|
| • For pools of 12,5 m width | <b>14311</b> | 1              | 16,000       | 0,060                    |
| • For pools of 25 m width   | <b>14312</b> | 1              | 14,000       | 0,050                    |

**PS:** Designed to be fixed with "14410" or "14420" anchors which are not included.

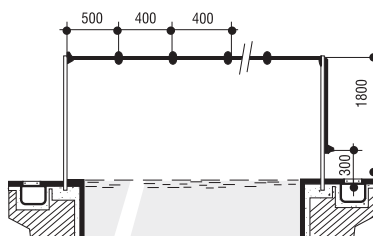


**Set of False Start Posts.** Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with plastic floats and nylon cord.

| Description                  | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|--------------|----------------|--------------|--------------------------|
| • For pools of 12,5 m width. | <b>14321</b> | 1              | 12,000       | 0,057                    |
| • For pools of 25 m width.   | <b>14322</b> | 1              | 14,000       | 0,030                    |

**PS:** Designed to be fixed with "14410" or "14420" anchors which are not included.

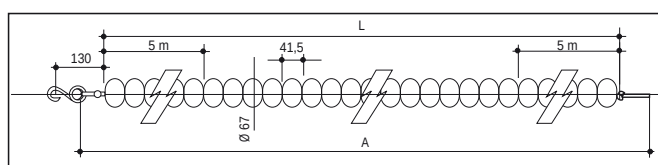
Two sets are necessary for a competition pool.



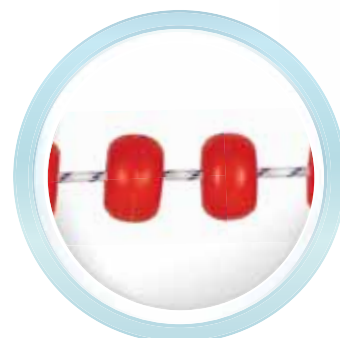
## Floating Lanes

**Rome Model.** Complete with plastic floats, nylon line and 1 hook.

| Description    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------------|----------------|--------------|--------------------------|
| • Length: 25 m | <b>14511</b> | 1              | 8,700        | 0,135                    |
| • Length: 50 m | <b>14512</b> | 1              | 17,400       | 0,265                    |

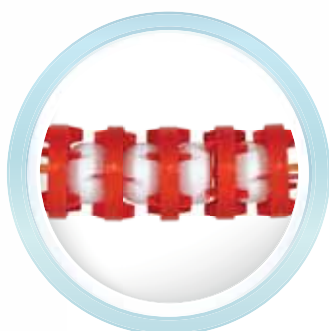


| Code  | L (m) | A (m) | Colored Rome Separator Quantity | White Rome Separator Quantity |
|-------|-------|-------|---------------------------------|-------------------------------|
| 14511 | 25    | 26    | 248                             | 354                           |
| 14512 | 50    | 51    | 257                             | 948                           |

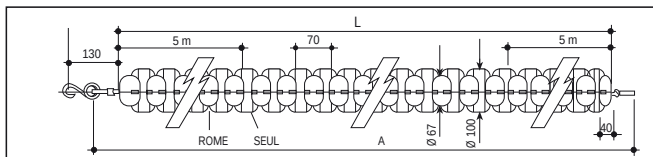


## Floating Lanes

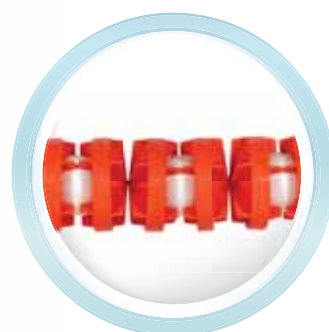
**Seul Model.** Complete with plastic floats, nylon line and 1 hook



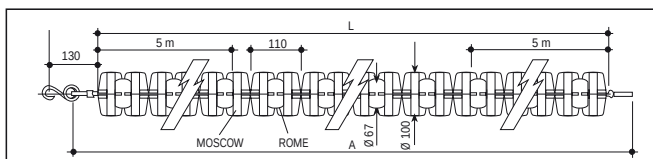
| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14521</b> | 1          | 23,700    | 0,340                 |
| • Length: 50 m | <b>14522</b> | 1          | 47,400    | 0,620                 |

|  |       |       |                                |                       |                              |                         |
|------------------------------------------------------------------------------------|-------|-------|--------------------------------|-----------------------|------------------------------|-------------------------|
| Code                                                                               | L (m) | A (m) | Colored Seul Breakwaters total | White Rome Ball total | White Seul Breakwaters total | Colored Rome Ball total |
| 14521                                                                              | 25    | 26    | 198                            | 188                   | 175                          | 284                     |
| 14522                                                                              | 50    | 51    | 206                            | 188                   | 744                          | 745                     |

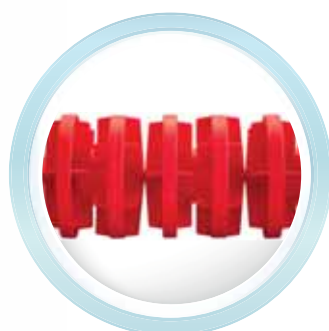
**Moscow Model.** Complete with plastic floats, nylon line and 1 hook



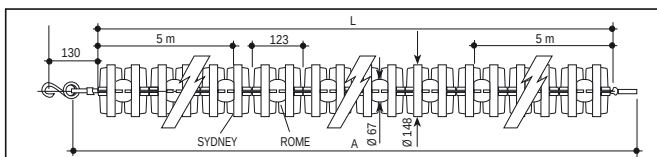
| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14531</b> | 1          | 22,150    | 0,340                 |
| • Length: 50 m | <b>14532</b> | 1          | 44,300    | 0,620                 |

|  |       |       |                                  |                       |                                |                         |
|--------------------------------------------------------------------------------------|-------|-------|----------------------------------|-----------------------|--------------------------------|-------------------------|
| Code                                                                                 | L (m) | A (m) | Colored Moscow Breakwaters total | White Rome Ball total | White Moscow Breakwaters total | Colored Rome Ball total |
| 14531                                                                                | 25    | 26    | 192                              | 92                    | 268                            | 138                     |
| 14532                                                                                | 50    | 51    | 200                              | 92                    | 732                            | 374                     |

**Sydney Model.** Complete with plastic floats, nylon line and 1 hook



| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14541</b> | 1          |           |                       |
| • Length: 50 m | <b>14542</b> | 1          |           |                       |

|  |       |       |                                  |                     |                              |                         |
|--------------------------------------------------------------------------------------|-------|-------|----------------------------------|---------------------|------------------------------|-------------------------|
| Code                                                                                 | L (m) | A (m) | Colored Sydney Breakwaters total | Red Rome Ball total | Red Sydney Breakwaters total | Colored Rome Ball total |
| 14541                                                                                | 25    | 26    | 236                              | 86                  | 172                          | 118                     |
| 14542                                                                                | 50    | 51    | 640                              | 90                  | 180                          | 320                     |

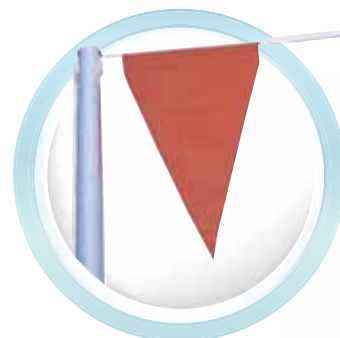
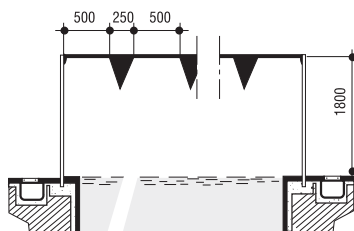


## Post Set

**Set of Backstroke Turn Indicators.** Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with nylon cord and flags.

| Description                 | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------|--------------|----------------|--------------|--------------------------|
| • For pools of 12,5 m width | <b>14311</b> | 1              | 16,000       | 0,060                    |
| • For pools of 25 m width   | <b>14312</b> | 1              | 14,000       | 0,050                    |

**PS:** Designed to be fixed with "14410" or "14420" anchors which are not included.

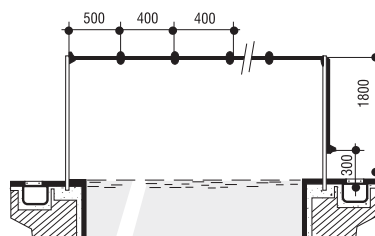


**Set of False Start Posts.** Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with plastic floats and nylon cord.

| Description                  | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------|--------------|----------------|--------------|--------------------------|
| • For pools of 12,5 m width. | <b>14321</b> | 1              | 12,000       | 0,057                    |
| • For pools of 25 m width.   | <b>14322</b> | 1              | 14,000       | 0,030                    |

**PS:** Designed to be fixed with "14410" or "14420" anchors which are not included.

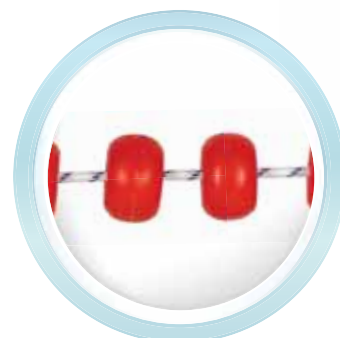
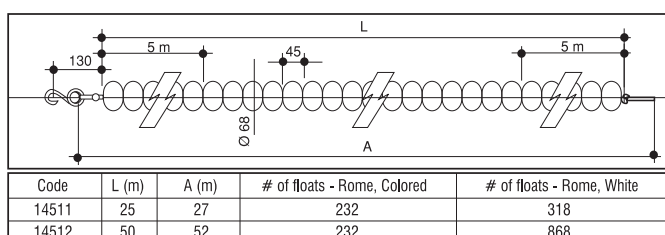
Two sets are necessary for a competition pool.



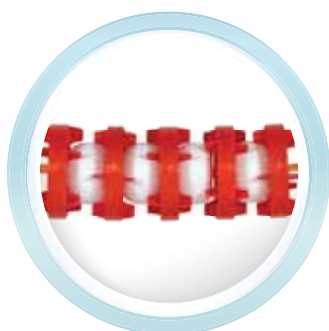
## Floating Lanes

**Rome Model.** Complete with plastic floats, nylon line and 1 hook "14650"

| Description    | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------|--------------|----------------|--------------|--------------------------|
| • Length: 25 m | <b>14511</b> | 1              | 8,700        | 0,135                    |
| • Length: 50 m | <b>14512</b> | 1              | 17,400       | 0,265                    |

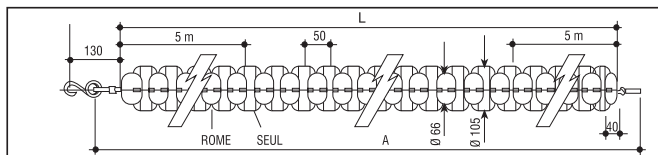


## Floating Lanes



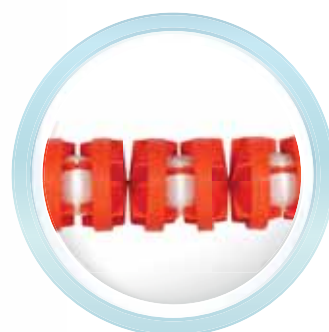
**Seoul Model.** Complete with plastic floats, nylon line and 1 hook “14650”

| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14521</b> | 1          | 23,700    | 0,340                 |
| • Length: 50 m | <b>14522</b> | 1          | 47,400    | 0,620                 |



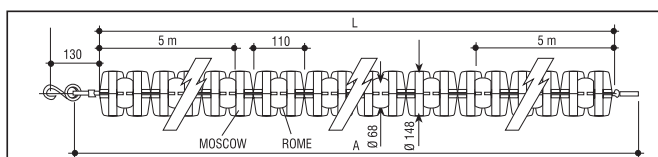
| Code  | L (m) | A (m) | # of floats Seoul, Colored | # of floats Rome, White | # of floats Seoul, White | # of floats Rome, Colored |
|-------|-------|-------|----------------------------|-------------------------|--------------------------|---------------------------|
| 14521 | 25    | 27    | 178                        | 178                     | 268                      | 269                       |
| 14522 | 50    | 52    | 178                        | 178                     | 714                      | 715                       |

**PS:** For FINA standards, all floating lanes must be ordered with Stainless Steel line (14632).



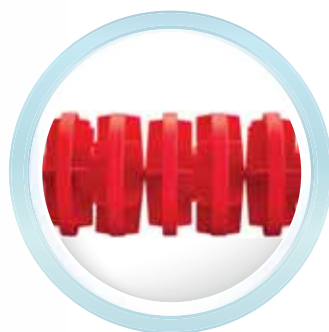
**Moscow Model.** Complete with plastic floats, nylon line and 1 hook “14650”

| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14531</b> | 1          | 22,150    | 0,340                 |
| • Length: 50 m | <b>14532</b> | 1          | 44,300    | 0,620                 |



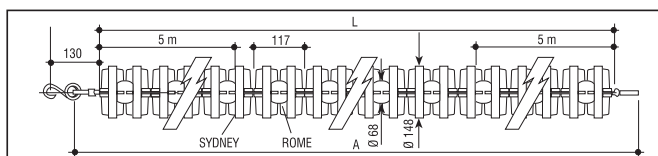
| Code  | L (m) | A (m) | # of floats Moscow, Colored | # of floats Rome, White | # of floats Moscow, White | # of floats Rome, Colored |
|-------|-------|-------|-----------------------------|-------------------------|---------------------------|---------------------------|
| 14531 | 25    | 27    | 192                         | 96                      | 192                       | 143                       |
| 14532 | 50    | 52    | 192                         | 96                      | 192                       | 378                       |

**PS:** For FINA standards, all floating lanes must be ordered with Stainless Steel line (14632).



**Sydney Model.** Complete with plastic floats, nylon line and 1 hook “14650”

| Description    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------|--------------|------------|-----------|-----------------------|
| • Length: 25 m | <b>14541</b> | 1          |           |                       |
| • Length: 50 m | <b>14542</b> | 1          |           |                       |



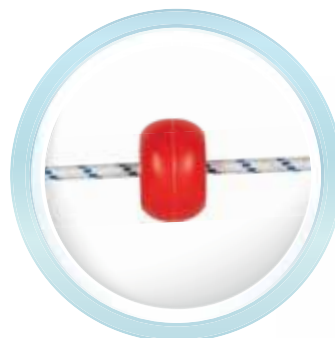
| Code  | L (m) | A (m) | # of floats Sydney, Colored | # of floats Rome, White | # of floats Sydney, White | # of floats Rome, Colored |
|-------|-------|-------|-----------------------------|-------------------------|---------------------------|---------------------------|
| 14541 | 25    | 27    | 168                         | 84                      | 240                       | 120                       |
| 14542 | 50    | 52    | 174                         | 84                      | 640                       | 320                       |

**PS:** For FINA standards, all floating lanes must be ordered with Stainless Steel line (14632).

## Floaters

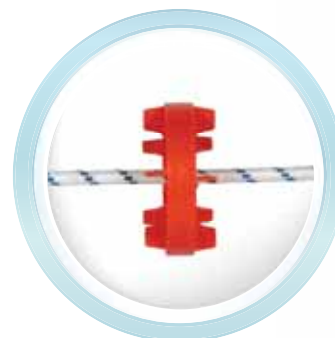
**“Rome Model”. Floater.**

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • White     | <b>145101</b> | 500            | 7,000        | 0,110                    |
| • Orange    | <b>145102</b> | 500            | 7,000        | 0,110                    |
| • Blue      | <b>145103</b> | 500            | 7,000        | 0,110                    |
| • Red       | <b>145104</b> | 500            | 7,000        | 0,110                    |



**“Seul Model”. Floater.**

| Description | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|---------------|----------------|--------------|--------------------------|
| • White     | <b>145201</b> | 150            | 7,000        | 0,080                    |
| • Orange    | <b>145202</b> | 150            | 7,000        | 0,080                    |
| • Blue      | <b>145203</b> | 150            | 7,000        | 0,080                    |
| • Red       | <b>145204</b> | 150            | 7,000        | 0,080                    |



## Floating Lane Accessories

**Seperator Collector Trolley.** It has 4 wheels which 2 of them with brakes. Covered with PVC canvas for avoiding dripping out of excess water. Design to carry 1 piece 50m seperator. It's for the installation of the seperator with stainless steel anchors in the overflow pools. AISI 304 grade stainless steel. Dimenson is 200 x 100 x 84. Has a 0,75 release valve in the bottom, to drain collected water.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
|             | <b>14680</b> | 1              |              |                          |



**Float Lane Roller.** Made of AISI 304 grade stainless steel, Ø42 pipe. Width: 1,20 m.

| Description     | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------|--------------|----------------|--------------|--------------------------|
| • Width: 1,20 m | <b>14660</b> | 1              | 25,000       | 2,200                    |
| • Width: 1,80 m | <b>14661</b> | 1              |              |                          |

**Roller Capacity: Width 1,20 m**

| FLOAT LINE   | 25 m | 33 m | 50 m |
|--------------|------|------|------|
| Seul Model   | 4    | 2    | 2    |
| Rome Model   | 8    | 6    | 4    |
| Moscow Model | 4    | 2    | 2    |

**Roller Capacity: Width 1,80 m**

| FLOAT LINE   | 25 m | 33 m | 50 m |
|--------------|------|------|------|
| Seul Model   | 6    | 3    | 3    |
| Rome Model   | 12   | 9    | 6    |
| Moscow Model | 6    | 3    | 3    |



**Float Line. Rope.**

| Description                                              | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------------------|--------------|----------------|--------------|--------------------------|
| • Nylon.<br>Ø7 mm. Price per meter.                      | <b>14631</b> | 160 m          | 8,420        | 0,025                    |
| • Plastified Stainless Steel.<br>Ø5 mm. Price per meter. | <b>14632</b> |                |              |                          |



## Floating Lane Accessories



**Ergonomic Separator Tensioner.** Body made of GF-PP and accessories from AISI 316. complete with 7 mm thick hook, SS rope fixing accessories. Threaded tension rod and easy grip plastic body allows easy tightening up to 130 mm. Can only used with SS lane ropes

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14643 |            |           |                       |



**Separator Vibration Damping Spring.** In AISI 316 grade stainless steel.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14644 | 1          | 0,686     | 0,001                 |



**Floating Line Tensor with Spring.** In chrome plated bronze.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14641 | 1          | 0,686     | 0,001                 |



**Floating Line Tensor with Screw.** In AISI 304 grade stainless steel.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14642 | 6          | 0,182     |                       |



**Rope Anchor.** Made of bronze. 0,75.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14651 |            | 0,186     |                       |



**Line Hook.** To be attached at one end of float lane. In AISI 304 grade stainless steel.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14650 |            | 0,186     |                       |



Model 1



Model 2

**Lane Anchor Cup.** AISI 304 grade, to be embedded to pool wall.

| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
| • Model 1   | 14611 | 1          | 22,150    | 0,340                 |
| • Model 2   | 14627 | 1          | 44,300    | 0,620                 |



**Float Support.** To be used with anchors "14410" and 14420". In AISI 304 grade stainless steel.

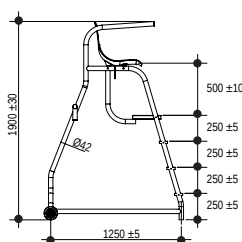
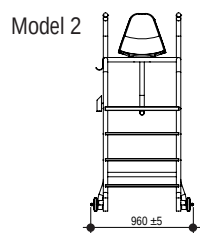
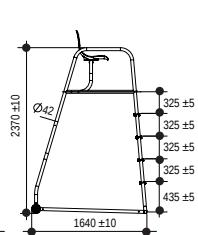
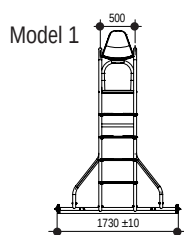
| Description | Code  | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|-------|------------|-----------|-----------------------|
|             | 14620 | 2          | 0,520     |                       |



## Floating Lane Accessories

**Refree Seat.** Made of AISI 304 grade stainless steel and Ø42 mm pipe.

| Description | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|--------------|----------------|--------------|--------------------------|
| • Model 1   | <b>14670</b> | 1              | 0,566        | 0,001                    |
| • Model 2   | <b>14671</b> | 1              |              |                          |



## Automatic Timing Systems for Competition Pools ALGE TIMEMANAGER TM-SWIM



**PLEASE ASK PRICE ON  
PROJECT BASIS**

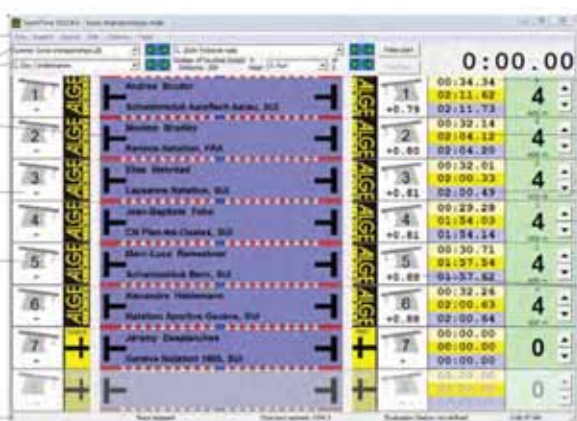
### ALGE TIMEMANAGER TM-SWIM SPECIFICATIONS

- PC based timing system
- Easy connection to new generation lap-top and PC with USB interface
- User friendly
- Swimlane control with 16 touchpads
- Audio and optic control for each swimlane
- Each swimlane can be connected to 5 independent timing channels (1 touchpad, 3 button, 1 Relay Time)
- Integrated battery system – 4 hours working time
- Integrated speaker system
- False start warning on the screen
- Detection and warning system for difference of timing channels
- Reliable Touchpads
- Saving the statistics values
- Compatible with FINA, SSCH, AAU, NCAA and LEN regulations.

## AUTOMATIC TIMING SYSTEMS FOR COMPETITION POOLS ALGE TIMEMANAGER TM-SWIM

### PC Software

Alge Swimtime Software provides the information of time-manager processor, with user friendly and visual interface. Available for all Windows Systems.



Labels for the software interface:

- Competition Selection
- Competitor Information
- Relay Time
- Swimlane Number
- Current Position
- Lap Time
- Total Time
- Manual Button Time
- Number of Touches
- Starting Time
- Non-Started Lane
- Empty Swimlane



- User Friendly software
- Visual illustration
- Same layout with pool
- Free update for 10 years
- Back-up Battery
- Manage 16 swimlane
- Competitors Information



## COMPETITION POOL SCORE SYSTEM PRODUCTS



**TimeManager TM-SWIM:** It's the processor that all timing activities are processed and recorded. Easy connection to new generation lap-top and PC with USB interface. Automatic timing, recording and instant printout. In this way, printouts of all timings are obtained in case of a system issue. Complete with speaker, 4 hour battery for power cut, printer, score board, starting system, auditory and visual warning inputs. Measuring range is 23 hours, 59 minutes, 59,999 seconds.



**TouchPads TP2400/TP1800:** The most important instrument of the system. Quality of this product determines quality of the system. The backside is made of stainless steel. To be found in two different swimlane measures.



**SWIM Terminal SWT3:** Needs to be installed to each swimlane. The TimeManager automatically finds and enumerates SWT3 which is founded in each swimlane. 5 different time channels can be connected to every SWT3 terminals; 1 x touchpad, 3 x Manuel Time Buttons, 1 x starting time.



**Manuel Time Buttons:**  
Waterproof design, 2 m cable.



**Start Unit:** Complete with integrated microphone and start button.



**Track Start Blocks.**  
Made of FRP. Foot rest pad can be adjusted for ergonomic start.



**Active (SPA) and Passive (SPP) Speakers.** Each active speakers includes a amplifier and controls a passive speaker.



**Platform with Time Sensor:** Can be adapted to available platforms. Starting time detection platform adaptor.



**LED SCORE BOARDS :**  
Options for 1, 8, 10 lines, wall matrix video options and options for colored displays.



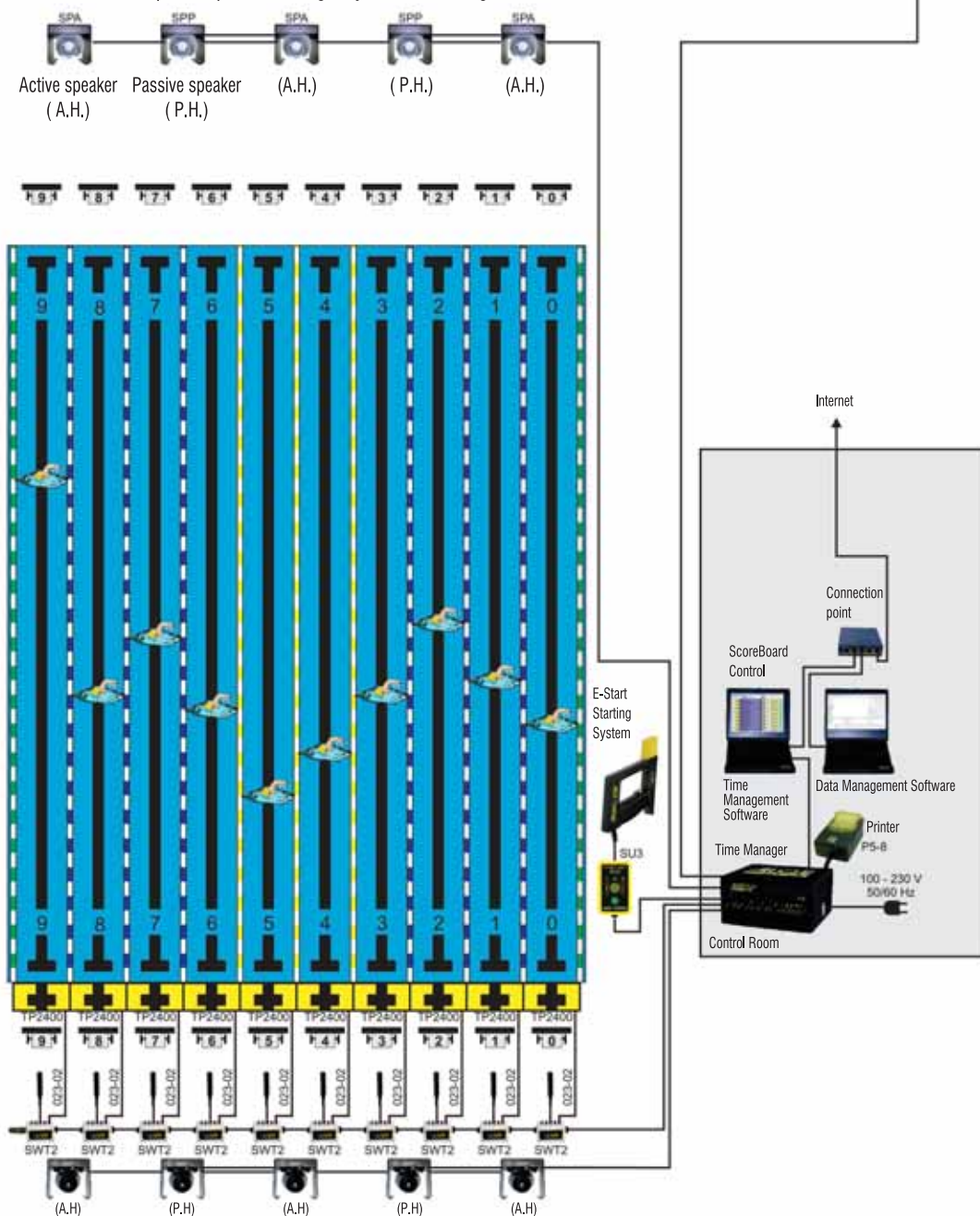
**Backstroke Starting Kit.**  
Prevents the start through the glide from touching panel. Compatible with GEMAS Starting Platform



## ALGE TIMING SWIMTIME PACKAGE 1



For 50 m pools, speaker is obligatory on the returning side.



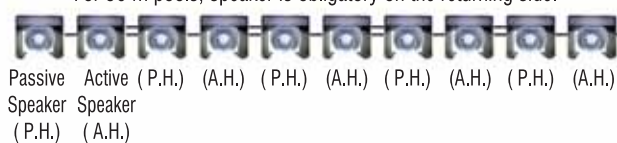


## ALGE TIMING SWIMTIME PACKAGE 2

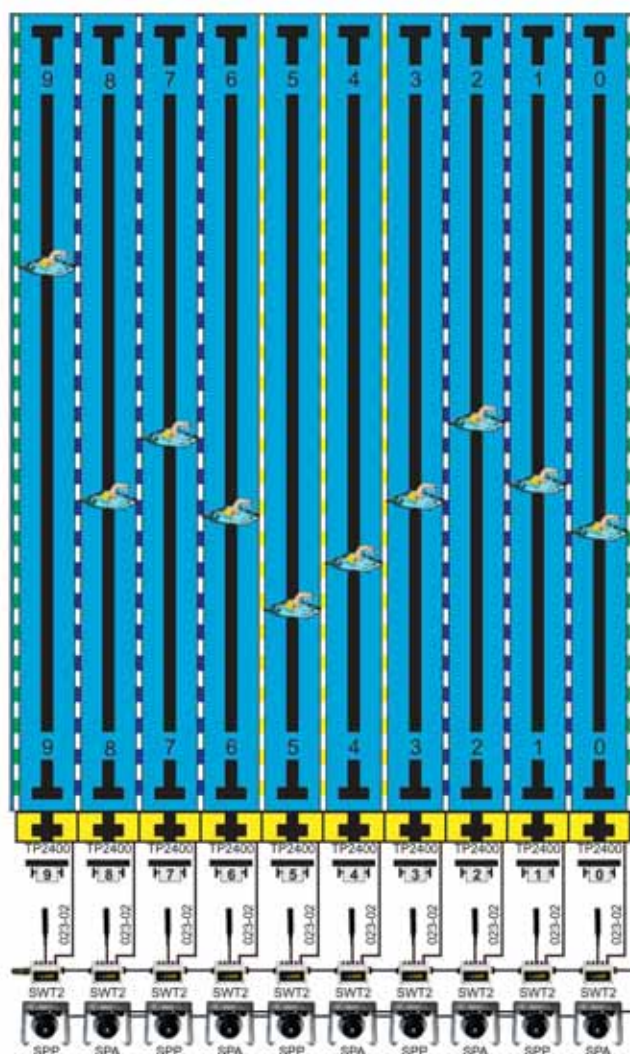
| Evt. 202 Ht. 18 |      |          |           | ALGE-TIMING |      |          |           |
|-----------------|------|----------|-----------|-------------|------|----------|-----------|
| RANK            | LANE | TIME     |           | RANK        | LANE | TIME     | PERIOD    |
| 1               | 5    | 14:39.93 |           | 6           | 0    | 15:10.19 |           |
| 2               | 4    | 14:50.59 | HOME      | 7           | 2    | 15:23.43 | GUEST     |
| 3               | 3    | 14:52.53 | Timeout   | 8           | 1    | 15:41.25 | Timeout   |
| 4               | 6    | 14:53.83 | PENALTY 1 | 9           | 7    | 16:08.00 | PENALTY 1 |
| 5               | 8    | 14:59.11 | PENALTY 2 | 0           | 9    | 17:33.88 | PENALTY 2 |

100 - 230 V  
50/60 Hz

For 50 m pools, speaker is obligatory on the returning side.



F.9.1 F.8.1 F.7.1 F.6.1 F.5.1 F.4.1 F.3.1 F.2.1 F.1.1 F.0.1



E-Start  
Starting  
System

SU3

Flash

SU3

Flash

Internet

Connection  
point

ScoreBoard  
Control

Data Management  
Software

Time Manager

P5-B

Control Room

100 - 230 V  
50/60 Hz

## 10 LINES MATRIX LED SCOREBOARD

Below seen videowall is optional

# ALGE

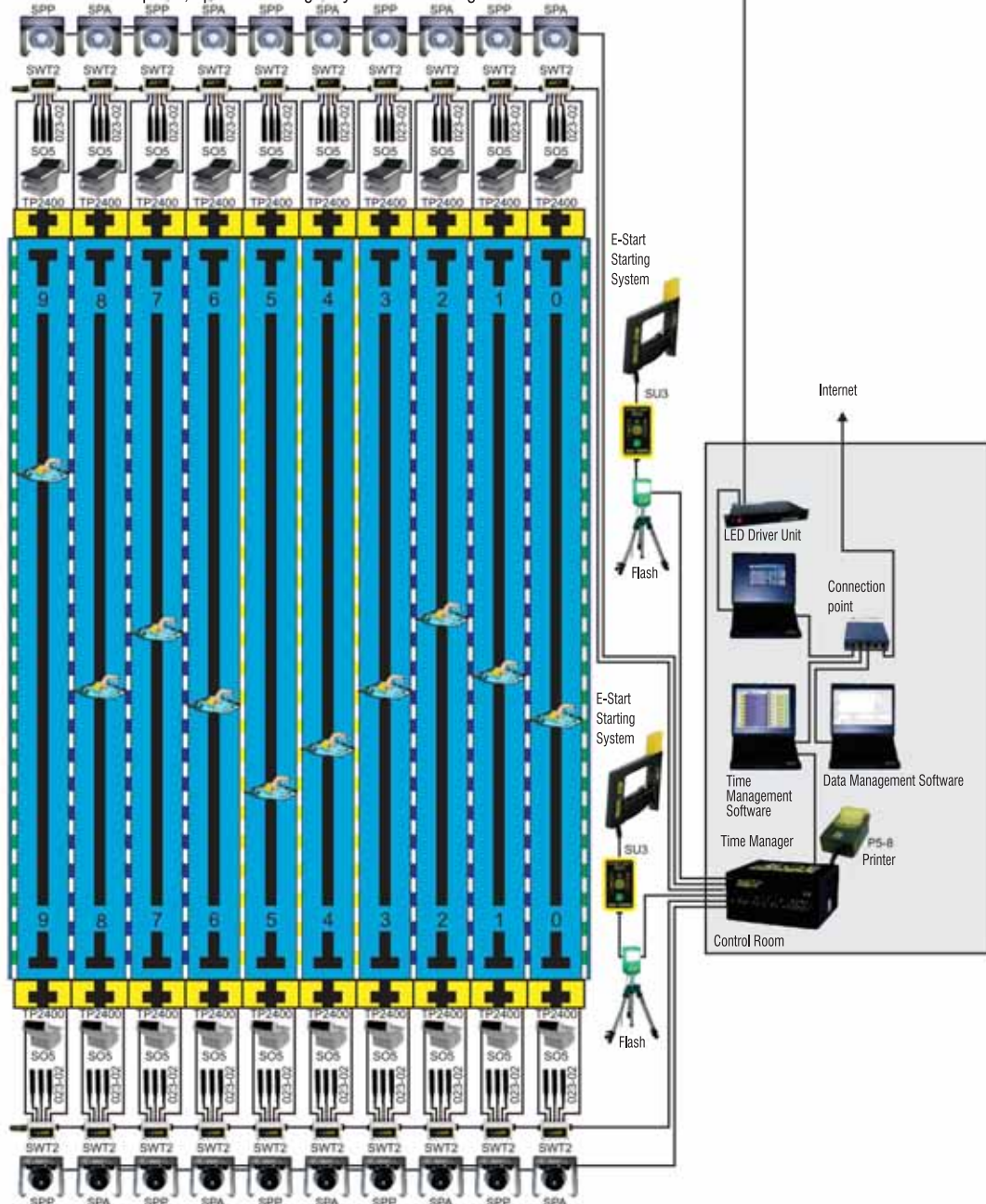
## TIMING

### SWIMTIME OLIMPIC SYSTEM

### SWIMTIME PACKAGE 3

| 400 M MEDELEY - MEN              |  |                         |     |       |         |   |
|----------------------------------|--|-------------------------|-----|-------|---------|---|
| HEAT 2 OF 4                      |  |                         |     |       |         |   |
| WR 4:03.84 CR 4:09.59 ER 4:06.16 |  |                         |     |       |         |   |
| 0                                |  | Nikola DIMITROV         | BUL | 34.30 | 1:36.71 | 7 |
| 1                                |  | Alexander KUDASHEV      | RUS | 25.30 | 1:32.14 | 1 |
| 2                                |  | Alpkan ORNEK            | TUR | 34.96 | 1:35.85 | 6 |
| 3                                |  | Jeremy Marc DESPLANCHES | SUI | 33.10 | 1:33.37 | 3 |
| 4                                |  | Christoph MEIER         | LIE | 35.73 | 1:33.41 | 4 |
| 5                                |  | Diogo Filipe CARVALHO   | POR |       | DNS     |   |
| 6                                |  | Pavel JANECEK           | CZE | 34.36 | 1:32.92 | 2 |
| 7                                |  | Bogdan KNEZEVIC         | SRB | 35.43 | 1:34.83 | 5 |
| 8                                |  | Uladzimir ZHYHARAU      | BLR | 36.79 | 1:37.37 | 9 |
| 9                                |  | Anton GONCHAROV         | UKR | 36.32 | 1:37.24 | 8 |

For 50 m pools, speaker is obligatory on the returning side.





# POOL HOT TUBS



15

Spa &  
Steam Room

294



300



## Massage Jets



**"Freedom" model massage jet.** Water connection d.50 mm, air connection Ø 32 mm, complete with internal set. Recommended flow; 1,5 m³/h - 7 mSS

| Description | Code       | Pieces/box | Weight Kg | Volume m³ |
|-------------|------------|------------|-----------|-----------|
|             | 1510-FS715 | 1          | 0,380     |           |



**"Freedom" model massage jet internal set.** Adjustable type

| Description | Code        | Pieces/box | Weight Kg | Volume m³ |
|-------------|-------------|------------|-----------|-----------|
|             | 1510-FS00TA | 1          | 0,090     |           |



**"Hydrojet" model massage jet.** Complete with nozzle. Water and Air connection Ø 50 mm, PVC, including nozzle. Recommended flow; 1,5 m³/h - 7 mSS

| Description | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------|-----------|------------|-----------|-----------|
|             | 1510-4100 | 1          | 0,440     |           |



**"Magna" Model Massage Jet Body.** Water connection d.50, air connection d.32, excluding nozzle. Recommended flow; 2,7 m³/h - 7 mwh

| Description | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------|-----------|------------|-----------|-----------|
|             | 1510-4833 | 1          | 0,440     |           |

**To be used for "Magna" Model Massage Jet.**



| Description                                                   | Code      | Pieces/box | Weight Kg | Volume m³ |
|---------------------------------------------------------------|-----------|------------|-----------|-----------|
| • <b>Magna'SSage:</b> Single mouth 0,008 heading jet nozzle.  | 1516-4821 | 1          | 0,062     |           |
| • <b>Magna'SSage:</b> Double mouth swivel heading jet nozzle. | 1516-4820 | 1          | 0,078     |           |



**"SP-1434A" Model Massage Jet.** Water and air connections Ø 50 mm; PVC, 2" inlet included. Recommended flow; 1,5 m³/h - 7 mwh

| Description | Code       | Pieces/box | Weight Kg | Volume m³ |
|-------------|------------|------------|-----------|-----------|
|             | 1510-1434A | 1          |           |           |



**"SP-1434ASS" Model Massage Jet.** Water and air connection Ø 50, PVC, 2" inlet included. Frame is stainless steel. Recommended flow; 1,5 m³/h - 7 mwh

| Description | Code         | Pieces/box | Weight Kg | Volume m³ |
|-------------|--------------|------------|-----------|-----------|
|             | 1510-1434ASS |            |           |           |

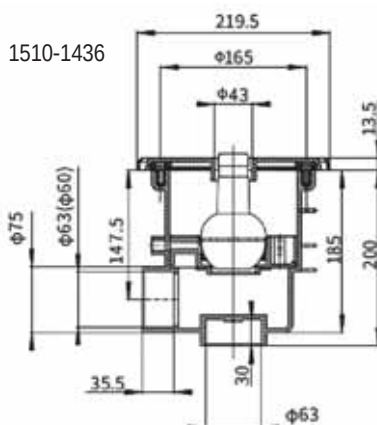
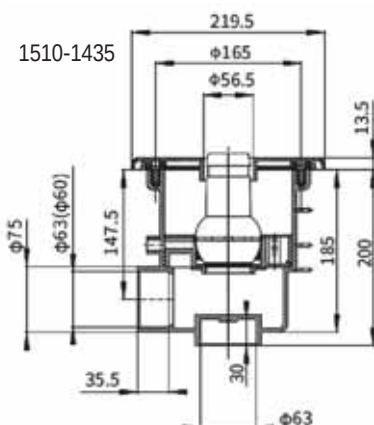


## Massage Jets

### Massage Unit.

Bare unit. Can be installed as single or multiple wall-floor massage stations. Comes with air suction hose and wall-floor air regulator.

| Description        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------|------------------|----------------|--------------|--------------------------|
| • Model 1 - Ø40 mm | <b>1510-1435</b> | 1              |              |                          |
| • Model 2 - Ø28 mm | <b>1510-1436</b> |                |              |                          |



1510-1436



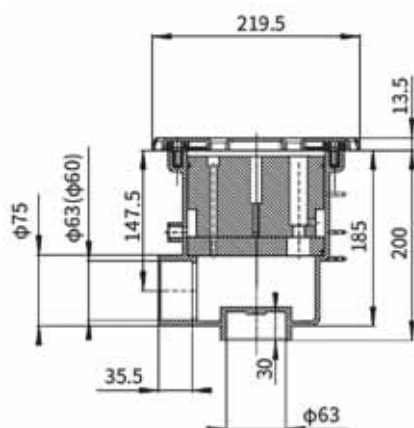
1510-1435

### Massage Unit.

Used for massage from the floor.

Comes with air suction hose and wall-floor air regulator.

| Description          | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------|------------------|----------------|--------------|--------------------------|
| Model 3 - 5 x Ø19 mm | <b>1510-1437</b> | 1              |              |                          |



**“EM” Model Massage Jets.** Water connection D.50, air connection D.32. Complete with adjustable type internal set.

| Description | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------------------|----------------|--------------|--------------------------|
|             | <b>1596601207</b> | 1              | 0,420        |                          |



### “EM” Model Massage Jet Internal Set.

| Description                                              | Code              | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------------------|-------------------|----------------|--------------|--------------------------|
| • Adjustable type, Recommended Flow 1,5m <sup>3</sup> /h | <b>1588090812</b> | 1              | 0,090        |                          |
| • Rotary type, Recommended Flow 1,5m <sup>3</sup> /h     | <b>1588090912</b> | 1              | 0,090        |                          |



1588090812

1588090912

## Massage Jets



**"Swimjet" Model Massage Jet.** Water connection Ø 63 mm, air connection Ø 32 mm, length 145 mm. Recommended flow; 16 m³/h - 7 mwh

| Description | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------|-----------|------------|-----------|-----------|
|             | 1516-5759 | 1          | 0,420     |           |



**"Hydrojet" Model Massage Jet Extension.** L = 105 mm, ABS.

| Description | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------|-----------|------------|-----------|-----------|
|             | 1510-4400 | 1          | 0,214     |           |



**"Venturi TEE" Model Massage Jet Body.** Water connection Ø 48,6 mm, length excluding nozzle: 260 mm. Suggested discharge: 5m³/h - 7mwh (Used for building massage station inside the pool).

| Description | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------|-----------|------------|-----------|-----------|
|             | 1510-4320 | 1          | 0,253     |           |



**"Venturi TEE" Model Massage Jet Inlet.**

| Description      | Code      | Pieces/box | Weight Kg | Volume m³ |
|------------------|-----------|------------|-----------|-----------|
| F.I.S. FITTINGS. | 1510-3420 | 1          | 0,090     |           |

## Air Jets



**Air jet.** White, ABS.

| Description                      | Code      | Pieces/box | Weight Kg | Volume m³ |
|----------------------------------|-----------|------------|-----------|-----------|
| • 9 Holes - Top, Removable Cover | 1511-9201 | 1          |           |           |
| • 9 Holes - Top                  | 1511-9202 | 1          |           |           |

## Suction Drain



**"Big Type" Suction Drain.**

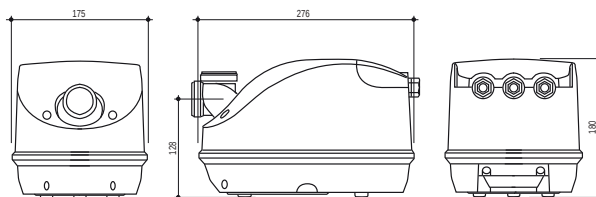
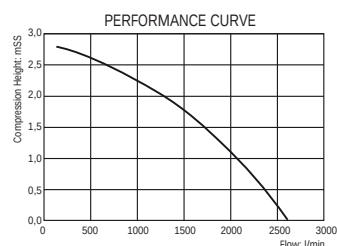
| Description                                                                                                                   | Code      | Pieces/box | Weight Kg | Volume m³ |
|-------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|-----------|
| White ABS, 3" external thread 0,008<br>Ø 152 mm external diameter<br>Ø 90 mm Slip Connection<br>Recommended Flow Rate 20 m³/h | 1510-6201 | 1          | 1,222     |           |

## Air Blowers

### BLOWERS FOR DISCONTINUED USE.

**Genesis Blower 1,2 kW, 230 V/50 Hz.** Maximum pressure: 3,0 mwh, Maximum recommended flow rate: 160 m³/h.

| Description           | Code                 | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-----------------------|----------------------|----------------|--------------|--------------|
| Genesis Blower 1,2 kW | <b>15GB120-2NN-3</b> | 1              | 2,792        | 0,011        |



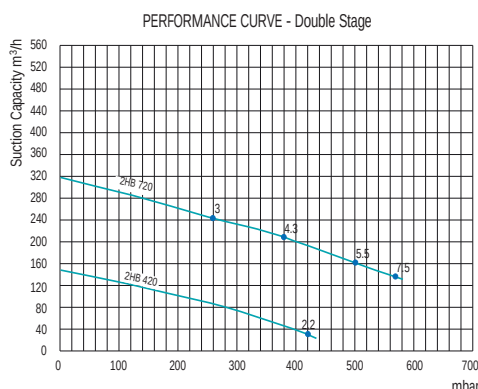
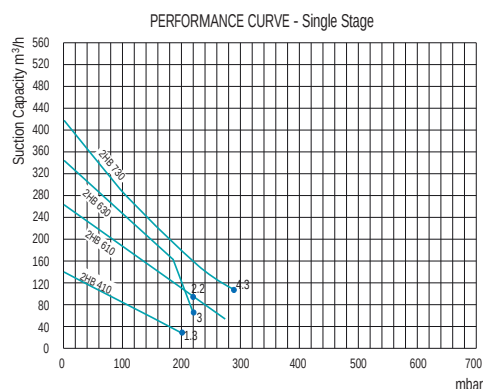
### “Air Blower for Continuous Use”

| Description                             | Code            | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|-----------------------------------------|-----------------|----------------|--------------|--------------|
| • Blower 1.3 kW, Single Stage, 220/380V | <b>15410H26</b> | 1              | 17,000       |              |
| • Blower 2.2 kW, Single Stage, 220/380V | <b>15610H16</b> | 1              | 28,000       |              |
| • Blower 2.2 kW, Double Stage, 220/380V | <b>15420H46</b> | 1              | 27,000       |              |
| • Blower 3 kW, Single Stage, 220/380V   | <b>15630H26</b> | 1              | 35,000       |              |
| • Blower 3 kW, Double Stage, 220/380V   | <b>15720H26</b> | 1              | 48,000       |              |
| • Blower 4.3 kW, Double Stage, 380/660V | <b>15730H47</b> | 1              | 45,000       |              |
| • Blower 4.3 kW, Double Stage, 380/660V | <b>15720H37</b> | 1              | 54,000       |              |
| • Blower 5.5 kW, Double Stage, 380/660V | <b>15720H47</b> | 1              | 70,000       |              |
| • Blower 7.5 kW, Double Stage, 380/660V | <b>15720H57</b> | 1              | 74,000       |              |



### TECHNICAL CHARACTERISTICS

| MODEL            | 15410H26 | 15610H16 | 15420H46 | 15630H26 | 15720H26 | 15730H47  | 15720H37  | 15720H47  | 15720H57  |
|------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Frequency (Hz)   | 50       | 50       | 50       | 50       | 50       | 50        | 50        | 50        | 50        |
| Power (kW)       | 1.3      | 2.2      | 2.2      | 3        | 3        | 4.3       | 4.3       | 5.5       | 7.5       |
| Voltage (V)      | 220-380  | 220-380  | 220-380  | 220-380  | 220-380  | 380Δ-660Y | 380Δ-660Y | 380Δ-660Y | 380Δ-660Y |
| Current (A)      | 5.7      | 9.7      | 9.7      | 12.5     | 12.5     | 9.5       | 10        | 13.3      | 16.7      |
| Max. Flow (m³/h) | 145      | 265      | 150      | 345      | 320      | 420       | 320       | 320       | 320       |
| Vacuum (mbar)    | -170     | -235     | -330     | -240     | -280     | -265      | -360      | -440      | -440      |
| Pressure (mbar)  | 200      | 220      | 420      | 220      | 260      | 290       | 380       | 500       | 570       |
| Noise (dB)       | 63       | 69       | 66       | 70       | 73       | 70        | 73        | 73        | 73        |
| Weight (Kg)      | 17,000   | 28,000   | 27,000   | 35,000   | 48,000   | 45,000    | 54,000    | 70,000    | 74,000    |



## Air Buttons

### "Standard" Pneumatic Air Button



1522-1043

1522-1044

| Description                                             | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------|------------------|------------|-----------|-----------------------|
| • Body external diameter 31,5 mm, 3 mm tube connection. | <b>1522-1043</b> | 1          | 0,020     |                       |
| • Body external diameter 1", 3 mm tube connection.      | <b>1522-1044</b> |            |           |                       |

### Gemas Pneumatic Air Button



156438

156437

| Description                                                 | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • Gemas Large model air button with Ø 63 mm 2" connection   | <b>156437</b> | 1          | 0,035     |                       |
| • Gemas Small model air button with Ø 50 mm 1.5" connection | <b>156438</b> | 1          | 0,022     |                       |

**PS:** h= 67mm. 4 mm air connection. Effective from 25 meters.

## Pneumatic Switch Boards



| Description                                                                                                                                             | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>PNEUMATIC SWITCH BOARD,</b> Complete with contactor and circuit breaker for up to 4 kw triphase pumps. Assembled in a humid resistant plastic box. | <b>05080</b>  | 1          | 0,748     |                       |
| • <b>PNEUMATIC SWITCH.</b> Permanent type. Up to 1 HP                                                                                                   | <b>156871</b> | 1          | 0,020     |                       |
| • <b>PNEUMATIC SWITCH HOSE.</b> D 2,0 - 4,0 mm. Price per meter.                                                                                        | <b>15310</b>  |            |           |                       |

## Electronic 3-Function Button



### GEMAS "Electronic Button" 64mm.

Works with the driver. It can be installed / used outdoors. UV protected touch pad.

| Description         | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------|--------------|------------|-----------|-----------------------|
| • 3-Function Button | <b>15231</b> | 1          |           |                       |
| • Driver            | <b>15230</b> | 1          |           |                       |

## Air Regulators



1510-2100

1510-2100S

1510-2200

1510-2300

### "Standart" Type Air Regulator

| Description                                    | Code              | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|-------------------|------------|-----------|-----------------------|
| • Big model 1 1/4" male threaded               | <b>1510-2100</b>  | 1          | 0,084     |                       |
| • Big model 1 1/4" male threaded. St.Steel     | <b>1510-2100S</b> | 1          |           |                       |
| • Small model 3/4" male threaded               | <b>1510-2200</b>  | 1          | 0,036     |                       |
| • Small model 1" male threaded. Chrome-plated. | <b>1510-2300</b>  | 1          |           |                       |



## Caps

### Hydro-Air "Caps"

| Description | Code      | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-----------|----------------|--------------|--------------------------|
| Ø 50 mm     | 1520-1015 | 1              | 0,036        |                          |



## PVC Flexible Tubes

| Description                 | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-----------------------------|-------|----------------|--------------|--------------------------|
| • Ø 32 mm PVC Flexible Tube | 15410 |                |              |                          |
| • Ø 50 mm PVC Flexible Tube | 15420 |                |              |                          |
| • Ø 63 mm PVC Flexible Tube | 15430 |                |              |                          |



### Flexible Tube Cement

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| 500 ml      | 13530 | 1              | 0,500        |                          |



## SPA Underwater Lights

**"Mini 2001" Underwater Lights.** Heat resistant plastic body, bottom outlet. Complete with 2 m. cable. 50 W/12 V bulb or 4,2 W power LED. Led bulbs is 100% sealed from water with transparent epoxy.

| Description                           | Code     | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|----------|----------------|--------------|--------------------------|
| • Slip type body with plastic frame   | 05112S   | 4              | 2,000        | 0,007                    |
| • 05112S, 6 W/12 V SMD 36 LED         | 05112SLS | 4              |              |                          |
| • 2" Threaded body with plastic frame | 05112T   | 4              | 2,100        | 0,007                    |
| • 05112T, 6 W/12 V SMD 36 LED         | 05112TLS | 4              |              |                          |



05112SLS



05112T

**Nut for Mini Underwater Light, for FR-Polyester Pools.** Made of white ABS Plastic with 2" internal thread. Complete with gasket.

| Description | Code  | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------|-------|----------------|--------------|--------------------------|
| Ø 50 mm     | 04237 | 35             | 1,474        | 0,006                    |



## Steam Generators with Electric Heater



### FL Series Steam Generator.

Device protection when it is without water. High pressure protection, automatic water fill up and drainage. All models should be used with an external control panel. One remote control panel can operate 2, 3 or 4 pieces combined with steam generator. Generator feeding water should not be over 0-5 Fh (French Hardness) hardness level. Otherwise it will be out of warranty. Complete with safety valve.

| Description     | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------|---------------|------------|-----------|-----------------------|
| • FL-45, 4,5 kW | <b>182101</b> |            |           |                       |
| • FL-60, 6 kW   | <b>182102</b> |            |           |                       |
| • FL-90, 9 kW   | <b>182104</b> |            |           |                       |
| • FL-120, 12 kW | <b>182105</b> |            |           |                       |
| • FL-150, 15 kW | <b>182106</b> |            |           |                       |
| • FL-180, 18 kW | <b>182107</b> |            |           |                       |



**Control panels for steam generators with electric heater.** The "Operating" light, steam room temperature display, working hour countdown, automatic disinfection function (ozone) can be observed outside the panel.

| Description                 | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------|---------------|------------|-----------|-----------------------|
| • FAN-T, For 60/90 models   | <b>182201</b> |            |           |                       |
| • FAN-M, For 120/180 models | <b>182202</b> |            |           |                       |



### STEAMER STEAM GENERATORS WITH ELECTRODE.

The product is not negatively effected from hard water. Automatic water filling and drainage. Device can be adjusted gradually and operated to the max. 10 kW level. Electrode and tanks are washed automatically. Can be operated automatic and manual. Phase protection exists on the device. Body electrostatic painted and Stainless Steel 304 Quality. 40x200 mm LCD Board is on the device enabling to observe all the control values. 3 functional key gives opportunity for manual operation, automatic operation and stopping the system and draining. All devices are used with external control panels. 3 steam generators can be combined and controlled by 1 piece remote control. 1 lt Lime Protector included in price.

| Description              | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------|---------------|------------|-----------|-----------------------|
| • EL1000-3, up to 18 kW  | <b>182111</b> |            |           |                       |
| • Lime Protector 1 liter | <b>075311</b> |            |           |                       |

## Steam Generators with Electric Heater

### Control Panel for STEAMER Steam Generators with Electrode.

Device is controlled with touch pad. The cabinet Lightning, ventilation and heating-steam function can be controlled separately with time clock trough the device. It can be programmed each week day separately. Same Control panel can control 3 pieces generators. Enables possibility to operate Monophase or Triphase. **It is not mandatory to be used with steam generator.**

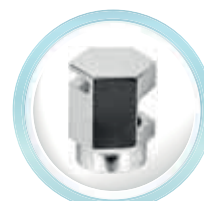


| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
| ELKT1000    | 182211 |            |           |                       |

## Steam Room Accessory Equipments

### Steam Nozzle.

| Description                | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------|--------|------------|-----------|-----------------------|
| • Stainless Steel AISI 304 | 182301 | 1          |           |                       |
| • Steam Nozzle Plastic     | 182302 |            |           |                       |



182301



182302

### Steam Bath Door.

8 mm thick tempered glass. Aluminium hinge, plastic handle. 71,5x200x5,5 cm

| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
|             | 182401 | 1          |           |                       |



### Steam Bath Door Handle. Made of plastic.

| Description | Code    | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|---------|------------|-----------|-----------------------|
|             | 1824011 | 1          |           |                       |



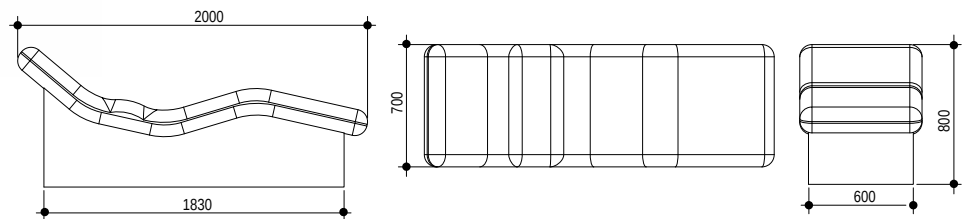
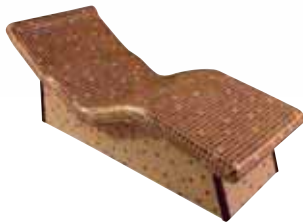
## Prefabricated Construction Materials for SPA



### Relaxation Beds

Made of Extruded polystyrene, XPS, hard foam and all surfaces are reinforced with fiber glass and covered with industrial plaster. There will no need of construction process, glass mosaics can be covered directly right after delivery.

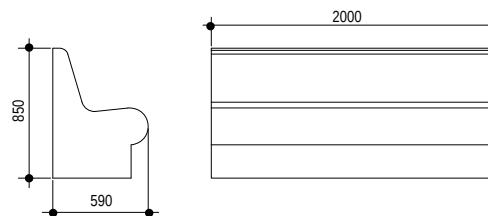
| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
|             | 184101 |            |           |                       |



### Steam Room Seats

Made of Extruded polystyrene, XPS, hard foam and all surfaces are reinforced with fiber glass and covered with industrial plaster. There will no need of construction process, glass mosaics can be covered directly right after delivery.

| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
|             | 185101 |            |           |                       |



### Rounded Shower Cabin

Made of Extruded polystyrene, XPS, hard foam and all surfaces are reinforced with fiber glass and covered with industrial plaster. There will no need of constructive process, glass mosaics can be covered directly right after delivery. 50x1020x2000 mm.

| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
|             | 186101 |            |           |                       |



### Spiral Shower Cabin

Made of Extruded polystyrene, XPS, hard foam and all surfaces are reinforced with fiber glass and covered with industrial plaster. There will no need of constructive process, glass mosaics can be covered directly right after delivery. 50x1575x1950x2000 mm

| Description | Code   | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------|------------|-----------|-----------------------|
|             | 186102 |            |           |                       |



## SPA BS-691

## 5 Kişilik Akrilik Lüks Masaj Küveti-SPA

### 5 Persons Luxury Hot Tub Spa

#### Klasik Seri SPA:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi, şelale opsiyonu ve benzeri özellikler sunulmaktadır.

Tüm masaj kuvvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni, ısı izolasyonlu kış örtüsü** ile komplemdir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

#### Classic Series SPA:

Classic Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                     | Boyut/Dimensions | Etek/Skirt            |
|----------|--------------------------------------|------------------|-----------------------|
| 151140   | SPA BS-691-Bulut Siyahı/Cloud Black  | 2350x2350x900mm  | Kızıl Kahve/Red Brown |
| 151141   | SPA BS-691-Okyanus Mavisi/Ocean Blue | 2350x2350x900mm  | Kızıl Kahve/Red Brown |
| 151142   | SPA BS-691-Bulut Beyazı/Cloud White  | 2350x2350x900mm  | Gri/Grey              |



151142



151140



151141

#### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** 2350 x 2350 x 900 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 2 x 2.2kW  
**Hava Körüğü/Blower:** 1 x 0.7kW  
**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" dönen jet/Rotating jet: 2 pcs  
5" jet: 3 pcs  
4,5" dönen jet/Rotating jet: 6 pcs  
3,5" dönen jet: 9 pcs  
3,5" jet: 7 pcs  
2,5" dönen jet/Rotating jet: 18 pcs  
2,5" jet: 18 pcs

**Hava Ayarlayıcı/Air Regulator:** 3 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW  
**Filtre/Filter:** 1 pc  
• UV Light

**Isıtıcı/Heater:** 1 x 3kW  
**Ozon/Ozone System:** 1pc  
**LED:** 5" LED 1 pc  
Small LED 14 pcs

**Su Tahliye/Drain:** 1 pc  
**Su Emiş/Suctions:** 4 pcs  
**Su Yönlendirici/Diverter:** 1 pc  
**Parmak Fiskiyi/Comet:** 2 pcs

**Hacim/Volume (m³):** 1.4m³

**Koltuk/Seat:** 5 pcs

**Yastık/Pillow:** 2 pcs

**Hoparlör/Speaker:** 2 pcs

**Merdiven/Stairs:** 1 pc

**Toplam Güç/Total power:** 8.35kW

**Elektrik/Electric:** 220 V / 50Hz

**Ambalaj/Package:** Kontrol kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)

## SPA BS-194

## 6 Kişilik Akrilik Lüks Masaj Küveti-SPA

### 6 Persons Luxury Hot Tub Spa

#### Klasik Seri SPA:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi ve benzeri özellikler sunulmaktadır.

Tüm masaj küvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni**, **ısı izolasyonlu kış örtüsü** ile komplektir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

#### Classic Series SPA:

Classic Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                    | Boyut/Dimensions | Etek/Skirt |
|----------|-------------------------------------|------------------|------------|
| 151143   | SPA BS-194-Bulut Beyazı/Cloud White | 2220x2220x890mm  | Gri/Grey   |



#### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** 2200 x 2200 x 890 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 2 x 1.5kW  
**Hava Körüğü/Blower:** 1 x 0.7kW  
**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" LED'li dönen jet/Rotating jet: 3 pcs  
5" power jet: 1 pc  
3,5" dönen jet: 3 pcs  
3/4" jet: 52 pcs  
Baloncuklu ışık jet/  
light with bubble Jet: 4 pcs  
Air bubble Jet: 12 pcs

**Hava Ayarlayıcı/Air Regulator:** 2 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW  
**Filtre/Filter:** 1 pc  
• UV Light

**Isıtıcı/Heater:** 1 x 3kW  
**Ozon/Ozone System:** 1 pc  
**LED:** 5" LED 1 pc  
**Su Tahliye/Drain:** 1 pc  
**Su Emiş/Suctions:** 4 pcs  
**Su Yönlendirici/Diverter:** 2 pcs

**Hacim/Volume (m³):** 1.1m³

**Koltuk/Seat:** 6 pcs  
**Yastık/Pillow:** 4 pcs  
**Hoparlör/Speaker:** 2 pcs  
**Merdiven/Stairs:** 1 pc  
**Toplam Güç/Total power:** 6.95kW  
**Elektrik/Electric:** 220 V / 50Hz  
**Ambalaj/Package:** Kontrol plak kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)



## SPA BS-391

## 5 Kişilik Akrilik Üstten Taşmalı Lüks Masaj Küveti-SPA 5 Persons Luxury Overflow Hot Tub Spa

### Klasik Seri SPA:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi, şelale, taşma tankı ve benzeri özellikler sunulmaktadır.

Tüm masaj küvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni**, **ısı izolasyonlu kış örtüsü** ile komplektir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

### Classic Series SPA:

Classic Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                    | Boyut/Dimensions | Etek/Skirt |
|----------|-------------------------------------|------------------|------------|
| 151144   | SPA BS-391-Bulut Beyazı/Cloud White | Ø2300x900mm      | Gri/Grey   |

### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** Ø2300 x 900 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 2 x 1.5kW  
**Hava Körüğü/Blower:** 1 x 0.7kW  
**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" LED'li dönen jet/Rotating jet: 2 pcs  
3,5" LED'li dönen jet/Rotating jet: 3 pcs  
2,5" dönen jet/Rotating jet: 20 pcs  
3/5" jet: 31 pcs

**Hava Ayarlayıcı/Air Regulator:** 2 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW  
**Filtre/Filter:** 1 pc  
• UV Light

**Isıtıcı/Heater:** 1 x 3kW  
**Ozon/Ozone System:** 1pc  
**LED :** 5" LED 1 pc  
Small LED 10 pcs

**Su Tahliye/Drain:** 1 pc  
**Su Emiş/Suctions:** 4 pcs  
**Su Yönlendirici/Diverter:** 2 pcs  
**Şelale/Waterfall:** 1 pc

**Hacim/Volume (m³):** 1.7m³

**Koltuk/Seat:** 5 pcs  
**Yastık/Pillow:** 2 pcs  
**Hoparlör/Speaker:** 2 pcs  
**Merdiven/Stairs:** 1 pc  
**Toplam Güç/Total power:** 6.95kW  
**Elektrik/Electric:** 220 V / 50Hz  
**Ambalaj/Package:** Kontrplak kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)

## SPA BS-192H

## 6 Kişilik Akrilik Lüks Masaj Küveti-SPA

### 6 Persons Luxury Hot Tub Spa

#### H Serisi:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi, ozon, UV dezenfeksiyon, şelale ve benzeri özellikler sunulmaktadır.

Tüm masaj küvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni**, **ısı izolasyonlu kış örtüsü** ile kompledir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

#### H Series:

H Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                    | Boyut/Dimensions | Etek/Skirt               |
|----------|-------------------------------------|------------------|--------------------------|
| 151145   | SPA BS-192H-Bulut Mavisi/Cloud Blue | 2080x2080x890mm  | Gri/Grey                 |
| 151146   | SPA BS-192H-İnci Beyazı/Pearl White | 2080x2080x890mm  | Kahve Rengi/Coffee Color |



151146



151145

#### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** 2080 x 2080 x 890 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 2 x 1.5kW  
**Hava Körüğü/Blower:** 1 x 0.7kW  
**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" LED jet: 3 pcs  
3" LED jet: 6 pcs  
2" jet: 8 pcs  
1" jet: 34 pcs  
Air bubble Jet: 10pcs

**Hava Ayarlayıcı/Air Regulator:** 2 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW  
**Filtre/Filter:** 1 pc  
• UV Light

**Isıtıcı/Heater:** 1 x 3kW  
**Ozon/Ozone System:** 1pc  
**LED:** 5" LED 1 pc  
**Su Tahliye/Drain:** 1 pc  
**Su Emiş/Suctions:** 4 pcs  
**Su Yönlendirici/Diverter:** 2 pcs  
**Şelale/Waterfall:** 1 pc  
**Şelale Anahtarı/Waterfall Switch:** 1 pc

**Hacim/Volume (m³):** 1.1 m³  
**Koltuk/Seat:** 6 pcs  
**Yastık/Pillow:** 4 pcs  
**Hoparlör/Speaker:** 2 pcs  
**Merdiven/Stairs:** 1 pc  
**Toplam Güç/Total power:** 6.95kW  
**Elektrik/Electric:** 220 V / 50Hz  
**Ambalaj/Package:** Kontrol kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)



## SPA BS-694H

## 7 Kişilik Akrilik Lüks Masaj Küveti-SPA

### 7 Persons Luxury Hot Tub Spa

#### H Serisi:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi ve benzeri özellikler sunulmaktadır.

Tüm masaj küvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni**, **ısı izolasyonlu kış örtüsü** ile komplemdir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

#### H Series:

H Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                      | Boyut/Dimensions | Etek/Skirt |
|----------|---------------------------------------|------------------|------------|
| 151147   | SPA BS-694H-Bulut Beyazı/Cloud White  | 2200x2200x900mm  | Gri/Grey   |
| 151148   | SPA BS-694H-Okyanus Mavisi/Ocean Blue | 2200x2200x900mm  | Gri/Grey   |



151147



151148

#### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** 2200 x 2200 x 900 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 1 x 1.5kW  
1 x 2.2kW

**Hava Körüğü/Blower:** 1 x 0.7kW

**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" Power LED jet: 1 pc

5" LED jet: 13 pcs

4" LED jet: 1 pc

3" LED jet: 15 pcs

1" jet: 8 pcs

Air bubble Jet: 12 pcs

**Hava Ayarlayıcı/Air Regulator:** 2 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW

**Filtre/Filter:** 1 pc

• UV Light

**Isıtıcı/Heater:** 1 x 3kW

**Ozon/Ozone System:** 1pc

**LED:** 5" LED 1 pc

**Su Tahliye/Drain:** 1 pc

**Su Emiş/Suctions:** 4 pcs

**Su Yönlendirici/Diverter:** 2 pcs

**Parmak Fıskiye/Comet:** 2 pcs

**Fıskiye Anahtarı/Fountain switch:** 1 pc

**Hacim/Volume (m³):** 1.2m³

**Koltuk/Seat:** 7 pcs

**Yastık/Pillow:** 3 pcs

**Merdiven/Stairs:** 1 pc

**Toplam Güç/Total power:** 7.65kW

**Elektrik/Electric:** 220 V / 50Hz

**Ambalaj/Package:** Kontrplak kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)

## SPA BS-593H

## 6 Kişilik Akrilik Lüks Masaj Küveti-SPA

### 6 Persons Luxury Hot Tub Spa

H Serisi:

Taşıyıcı iskelet üzerinde kompozit kaplamalı eteği ile standart özelliklerdedir. Renk seçenekleri mevcuttur. Yüksek standartlara sahip bir masaj havuzu isteyenler için iyi bir seçenektir.

Bu seri SPA'lar, akıllı ve kullanımı kolay bir kontrol sistemi ile donatılmıştır. Kullanıcıların kendileri için en iyi masaj modunu seçmeleri son derece kolaydır. Yüksek verimli/kaliteli masaj ve filtrasyon pompaları ile birlikte hava masajı fonksiyonu, bluetoothlu ses sistemi, ısıtma sistemi, LED'li ışık sistemi ve benzeri özellikler sunulmaktadır.

Tüm masaj küvetleri aşağıda listelenen teknik özelliklere ilaveten; plastik **iki basamaklı merdiveni, ısı izolasyonlu kış örtüsü** ile komplemdir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

H Series:

H Series SPA uses Classic Skirt, standard configurations, and there are lots of models and colors for you to choose. If you need a higher standard configurations massage pool, this is a good choice, each model has its own characteristics.

This series SPA has an intelligent, easy to operate control system, it's convenient for customer to use and choose the best massage mode. High efficiency/quality water pumps. Air bubble function, bluetooth system, heating system, cascade system, light system and so on.

| Kod/Code | Ürün/Description                    | Boyut/Dimensions | Etek/Skirt |
|----------|-------------------------------------|------------------|------------|
| 151149   | SPA BS-593H-İnci Beyazı/Pearl White | 2360x2260x900mm  | Gri/Grey   |
| 151150   | SPA BS-593H-Bulut Mavisi/Cloud Blue | 2360x2260x900mm  | Gri/Grey   |



151149



151150

### Teknik Özellikler/Technical Specs:

**Boyutlar/Dimensions:** 2360 x 2260 x 900 mm  
**Kontrol Sistemi/Control System:** 1 set

#### Pompalar/Pumps

**Masaj Jet Pompaları/Jet Pumps:** 2 x 1.5kW  
**Hava Körüğü/Blower:** 1 x 0.7kW  
**Hava Nozulu/Air Nozzle:** 24 pcs

**Jet/Jets:** 5" LED jet: 3 pcs  
4" LED jet: 5 pcs  
3" jet: 14 pcs  
2" jet: 2 pcs  
1" jet: 41 pcs  
Air bubble Jet: 10 pcs

**Hava Ayarlayıcı/Air Regulator:** 4 pcs

**Standart Kabuk/Shell:** Akrilik/Acrylic  
**Etek/Skirt:** PS Kompozit

**Filtre Pompası/Filtration Pump:** 1 x 0.25kW  
**Filtre/Filter:** 1 pc  
• UV Light

**Isıtıcı/Heater:** 1 x 3kW  
**Ozon/Ozone System:** 1pc  
**LED:** 5" LED 1 pc  
**Su Tahliye/Drain:** 1 pc  
**Su Emiş/Suctions:** 4 pcs  
**Su Yönlendirici/Diverter:** 2 pcs  
**Parmak Fiskiye/Comet:** 3 pcs  
**Fiskiye Anahtarı/Comet Switch:** 1 pc

**Hacim/Volume (m³):** 1.4m³

**Koltuk/Seat:** 6 pcs

**Yastık/Pillow:** 3 pcs

**Merdiven/Stairs:** 1 pc

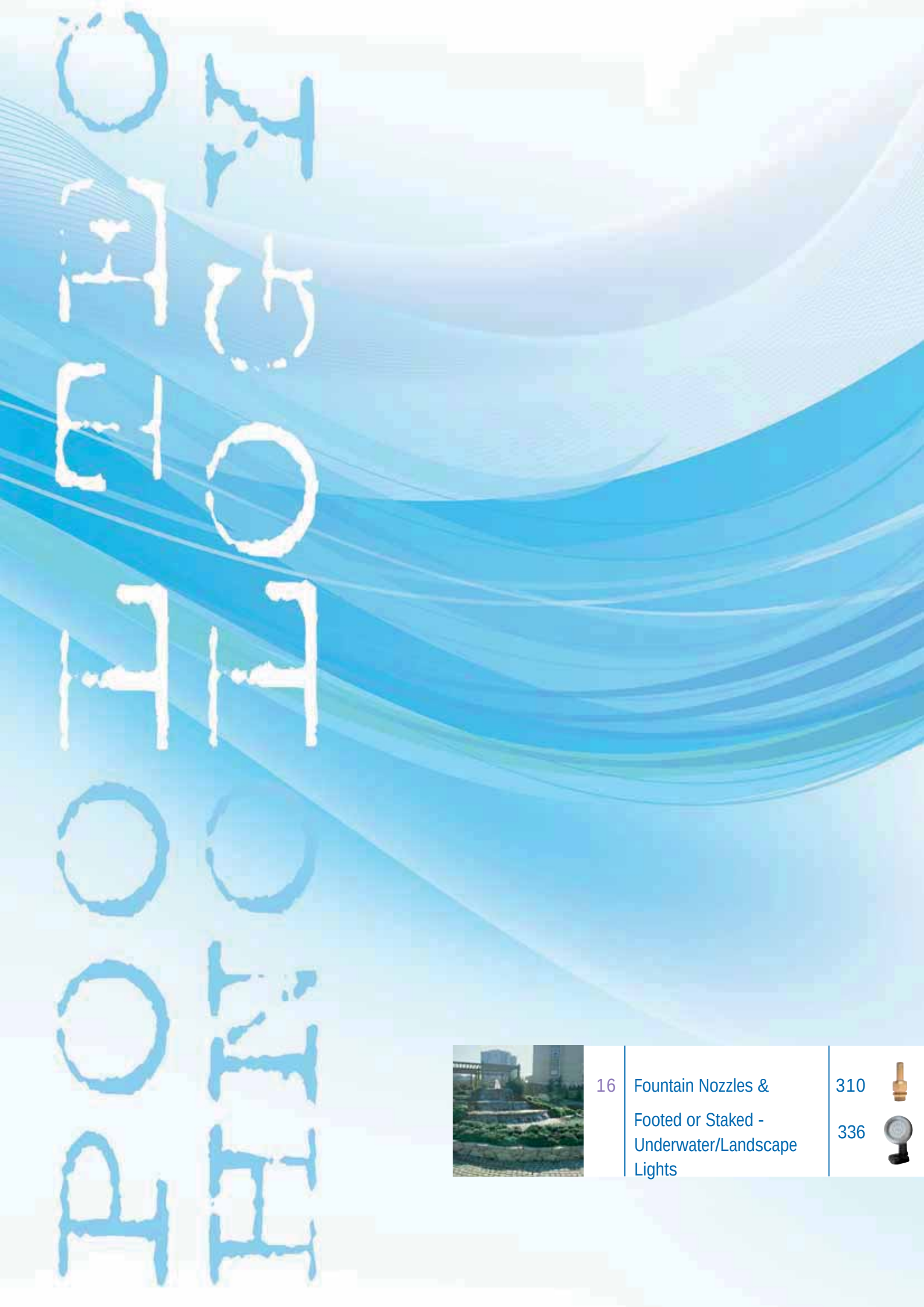
**Toplam Güç/Total power:** 6.95kW

**Elektrik/Electric:** 220 V / 50Hz

**Ambalaj/Package:** Kontrplak kasa/  
Plywood case



**Merdiven/Stair:** 2 Basamaklı Merdiven (Gri)  
2 Steps-Stairs (Grey)



16

Fountain Nozzles &  
Footed or Staked -  
Underwater/Landscape  
Lights

310



336





## Cascade Nozzles - Stainless Steel



161141 - 161151



Water level dependant foam-effect nozzles, should be operated under water level. Completely made of AISI 304 quality stainless steel.

| Description                                                                        | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>Cascade (50T)</b> 1" Male threaded:<br>Articulated. Ø50 mm water column       | <b>161161</b> | 1          |           |                       |
| • <b>Cascade (70T)</b> 1,5" Male threaded:<br>Articulated. Ø75 mm water column     | <b>161121</b> | 1          |           |                       |
| • <b>Cascade (90T)</b> 2" Male threaded:<br>Articulated. Ø97 mm water column       | <b>161131</b> | 1          |           |                       |
| • <b>Cascade (110T)</b> 2,5" Female threaded:<br>Articulated. Ø117 mm water column | <b>161141</b> | 1          |           |                       |
| • <b>Cascade (130T)</b> 3" Female threaded:<br>Articulated. Ø135 mm water column   | <b>161151</b> | 1          |           |                       |



161161



161121



161131

## Cascade Nozzles - Bronze



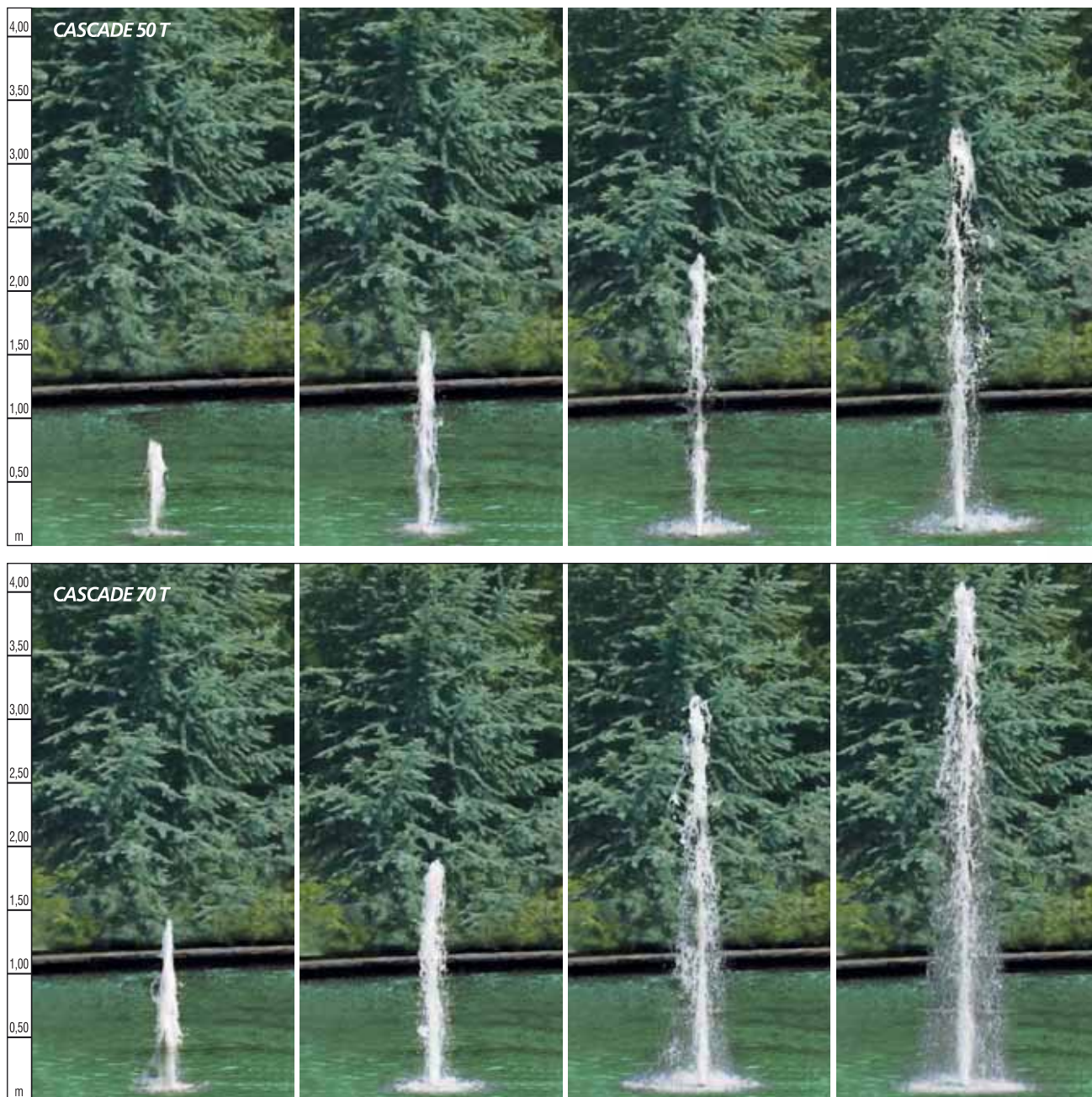
16115

Water level dependant foam-effect nozzles, should be operated under water level. Completely made of bronze.

| Description                                                                        | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • <b>Cascade (50T)</b> 1" Female threaded:<br>Articulated. Ø50 mm water column     | <b>16111</b> | 1          | 0,722     | 0,0006                |
| • <b>Cascade (70T)</b> 1,5" Female threaded:<br>Articulated. Ø75 mm water column   | <b>16112</b> | 1          | 1,828     | 0,0015                |
| • <b>Cascade (90T)</b> 2" Female threaded:<br>Articulated. Ø97 mm water column     | <b>16113</b> | 1          | 2,346     | 0,0023                |
| • <b>Cascade (110T)</b> 2,5" Female threaded:<br>Articulated. Ø117 mm water column | <b>16114</b> | 1          | 2,732     | 0,0045                |
| • <b>Cascade (130T)</b> 3" Female threaded:<br>Articulated. Ø135 mm water column   | <b>16115</b> | 1          | 14,194    | 0,0130                |



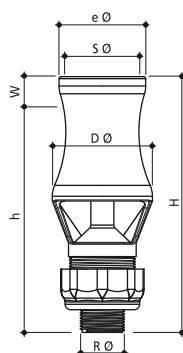
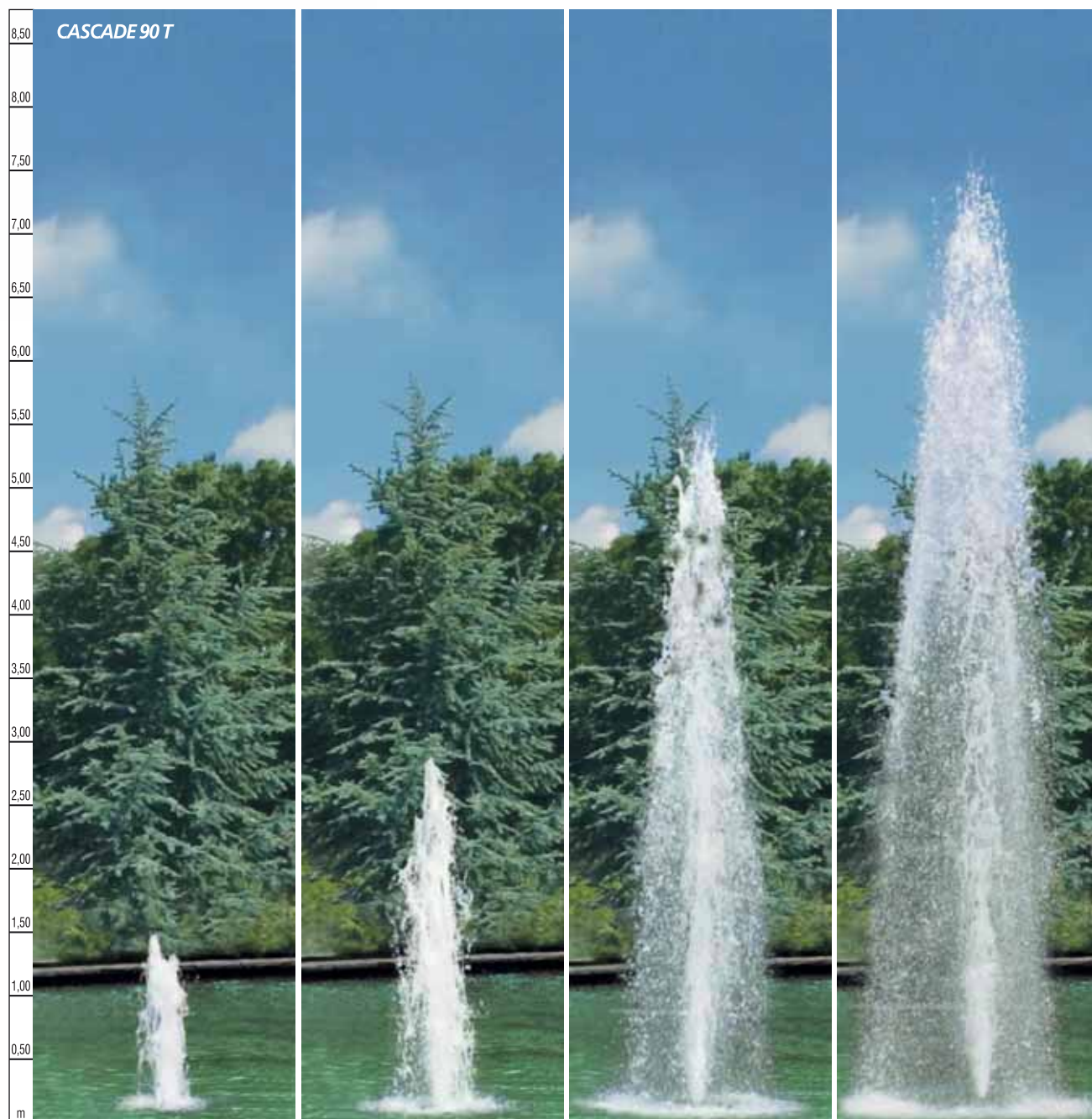
## Cascade Nozzles



### Flow and Pressure Indicators According to Nozzles Squirt Height

| Squirt Height | CASCADE 50 T |                          |      | CASCADE 70 T |                          |      | CASCADE 90 T |                          |      | CASCADE 110 T |                          |      | CASCADE 130 T |                          |      |
|---------------|--------------|--------------------------|------|--------------|--------------------------|------|--------------|--------------------------|------|---------------|--------------------------|------|---------------|--------------------------|------|
|               | Flow m³/h    | Pressure requirement mSS | atm  | Flow m³/h    | Pressure requirement mSS | atm  | Flow m³/h    | Pressure requirement mSS | atm  | Flow m³/h     | Pressure requirement mSS | atm  | Flow m³/h     | Pressure requirement mSS | atm  |
| 0,25 m        | 1,37         | 1,1                      | 0,11 | 2,62         | 0,8                      | 0,08 |              |                          |      |               |                          |      |               |                          |      |
| 0,50 m        | 1,93         | 2,1                      | 0,21 | 3,70         | 1,5                      | 0,15 | 7,39         | 1,9                      | 0,19 |               |                          |      |               |                          |      |
| 0,75 m        | 2,36         | 3,2                      | 0,32 | 4,54         | 2,3                      | 0,23 | 8,59         | 2,6                      | 0,26 |               |                          |      |               |                          |      |
| 1,00 m        | 2,73         | 4,2                      | 0,42 | 5,24         | 3,1                      | 0,31 | 9,65         | 3,3                      | 0,33 | 14,44         | 3,0                      | 0,30 | 20,72         | 3,0                      | 0,30 |
| 1,50 m        | 3,35         | 6,4                      | 0,63 | 6,42         | 4,6                      | 0,46 | 11,46        | 4,7                      | 0,47 | 17,41         | 4,4                      | 0,44 | 25,01         | 4,4                      | 0,44 |
| 2,00 m        | 3,86         | 8,5                      | 0,85 | 7,42         | 6,2                      | 0,62 | 13,04        | 6,0                      | 0,60 | 19,95         | 5,8                      | 0,58 | 28,67         | 5,8                      | 0,58 |
| 2,50 m        | 4,32         | 10,6                     | 1,06 | 8,29         | 7,7                      | 0,77 | 14,43        | 7,4                      | 0,74 | 22,20         | 7,2                      | 0,72 | 31,91         | 7,1                      | 0,71 |
| 3,00 m        | 4,73         | 12,7                     | 1,27 | 9,08         | 9,2                      | 0,92 | 15,70        | 8,7                      | 0,87 | 24,24         | 8,5                      | 0,85 | 34,86         | 8,5                      | 0,85 |
| 4,00 m        | 5,46         | 16,9                     | 1,69 | 10,49        | 12,3                     | 1,23 | 18,00        | 11,5                     | 1,15 | 27,87         | 11,3                     | 1,13 | 40,10         | 11,3                     | 1,13 |
| 5,00 m        |              |                          |      | 11,73        | 15,4                     | 1,54 | 20,00        | 14,2                     | 1,42 | 31,09         | 14,0                     | 1,40 | 44,73         | 14,0                     | 1,40 |
| 6,00 m        |              |                          |      | 12,85        | 18,5                     | 1,85 | 21,85        | 16,9                     | 1,69 | 34,00         | 16,8                     | 1,68 | 48,93         | 16,8                     | 1,68 |
| 8,00 m        |              |                          |      |              |                          |      | 25,12        | 22,4                     | 2,24 | 39,18         | 22,3                     | 2,23 | 56,39         | 22,3                     | 2,23 |
| 10,00 m       |              |                          |      |              |                          |      | 28,00        | 27,8                     | 2,78 | 43,75         | 27,8                     | 2,78 | 62,97         | 27,8                     | 2,78 |
| 12,00 m       |              |                          |      |              |                          |      |              |                          |      | 47,88         | 33,3                     | 3,33 | 68,93         | 33,3                     | 3,33 |
| 14,00 m       |              |                          |      |              |                          |      |              |                          |      | 51,69         | 38,8                     | 3,88 | 74,42         | 38,8                     | 3,88 |
| 16,00 m       |              |                          |      |              |                          |      |              |                          |      |               |                          |      | 79,52         | 44,3                     | 4,43 |
| 18,00 m       |              |                          |      |              |                          |      |              |                          |      |               |                          |      | 84,32         | 49,8                     | 4,98 |
| 20,00 m       |              |                          |      |              |                          |      |              |                          |      |               |                          |      | 88,86         | 55,3                     | 5,53 |

## Cascade Nozzles

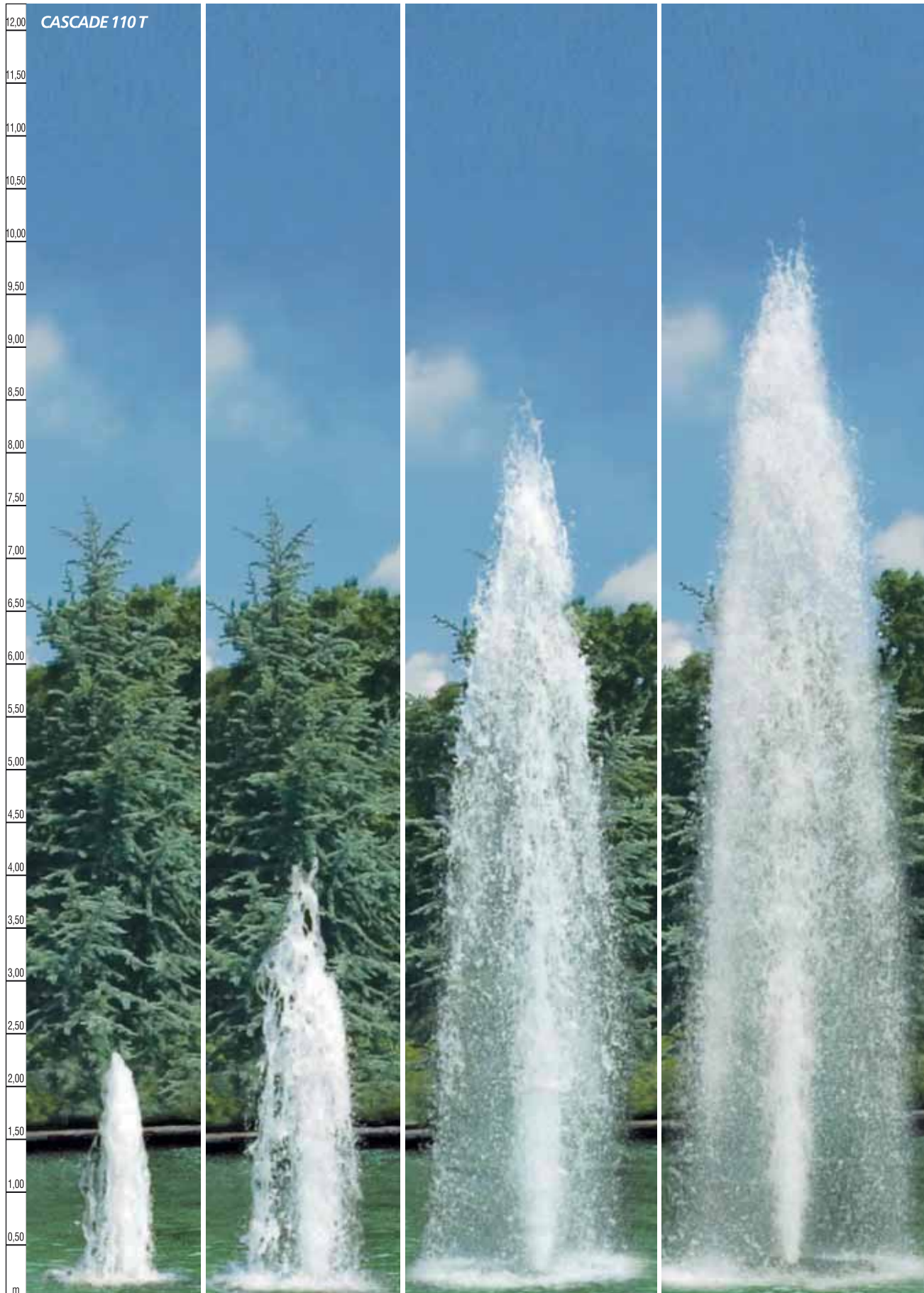


### TECHNICAL CHARACTERISTICS

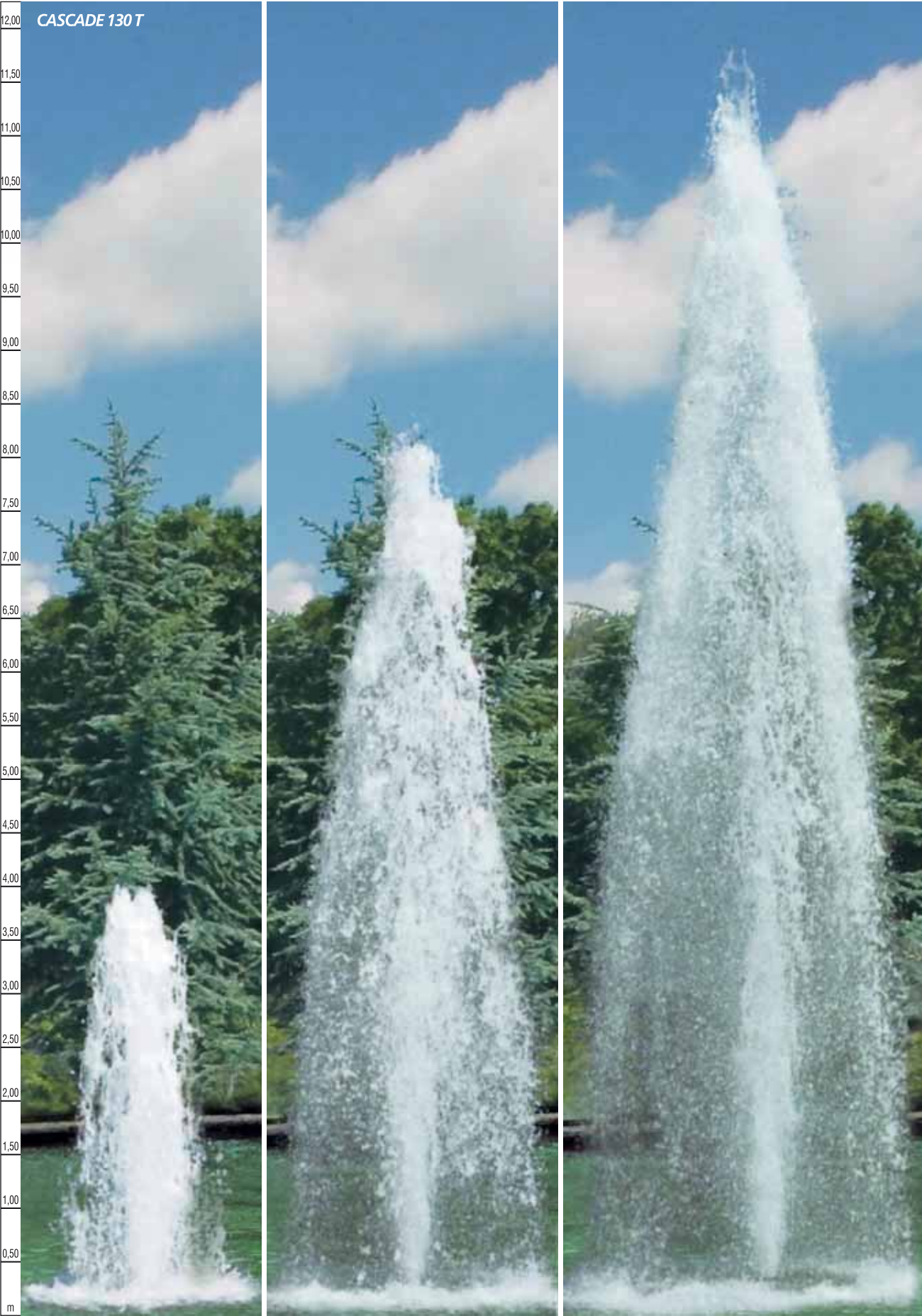
| MODEL       | 50 T / 161111 | 70 T / 161121 | 90 T / 161131 | 110 T / 161141 | 130 T / 161151 |
|-------------|---------------|---------------|---------------|----------------|----------------|
| S Ø (mm)    | 50            | 70            | 96            | 117            | 147            |
| R Ø (mm)    | 32 (1")       | 40 (1 1/2")   | 50 (2")       | 65 (2 1/2")    | 80 (3")        |
| D Ø (mm)    | 74            | 90            | 117           | 130            | 150            |
| e Ø (mm)    | 63            | 82            | 110           | 120            | 150            |
| H (mm)      | 190           | 240           | 283           | 240            | 330            |
| h (mm)      | 170           | 215           | 253           |                |                |
| W (mm)      | 20            | 25            | 30            |                |                |
| WEIGHT (Kg) |               |               |               |                |                |



## Cascade Nozzles



## Cascade Nozzles





## Finger Nozzles - Bronze/Chrome plated

Made of bronze. Can be articulated up to 15°.

| Description                                                            | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm | <b>161211</b> | 1              | 0,054        |                          |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm    | <b>161221</b> | 1              | 0,086        |                          |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10 mm  | <b>161222</b> | 1              | 0,080        |                          |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12 mm  | <b>161231</b> | 1              | 0,246        |                          |



## Finger Nozzles - Bronze/Chrome plated - Adjustable

Chrome plated bronze. Can be articulated up to 15°. Flow adjusting valve over fountain.

| Description                                                             | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------------------------------|----------------|----------------|--------------|--------------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm  | <b>1612111</b> | 1              |              |                          |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm     | <b>1612211</b> | 1              |              |                          |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10,0 mm | <b>1612221</b> | 1              |              |                          |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12,0 mm | <b>1612311</b> | 1              |              |                          |



## Finger Nozzles - Plastic/Chrome Plated - Adjustable

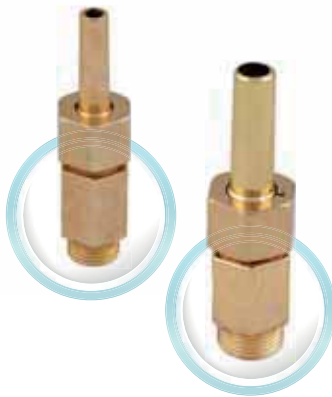
Chrome plated plastic. Can be articulated up to 15°. Flow adjusting valve over fountain.

| Description                                                            | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------|------------------|----------------|--------------|--------------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm | <b>161211PCR</b> | 1              |              |                          |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm    | <b>161221PCR</b> | 1              |              |                          |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10 mm  | <b>161222PCR</b> | 1              |              |                          |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12 mm  | <b>161231PCR</b> | 1              |              |                          |



## Finger Nozzles - Plastic/Golden Plated - Adjustable

Made of plastic. Can be articulated up to 15°. (Please add unit prices for footed models)



| Description                                                            | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm | <b>161211PG</b> | 1          |           |                       |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm    | <b>161221PG</b> | 1          |           |                       |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10 mm  | <b>161222PG</b> | 1          |           |                       |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12 mm  | <b>161231PG</b> | 1          |           |                       |

## Finger Nozzles - Plastic/Chrome Plated - Adjustable

Made of plastic. Can be articulated up to 15°.



| Description                                                            | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm | <b>161211PC</b> | 1          |           |                       |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm    | <b>161221PC</b> | 1          |           |                       |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10 mm  | <b>161222PC</b> | 1          |           |                       |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12 mm  | <b>161231PC</b> | 1          |           |                       |

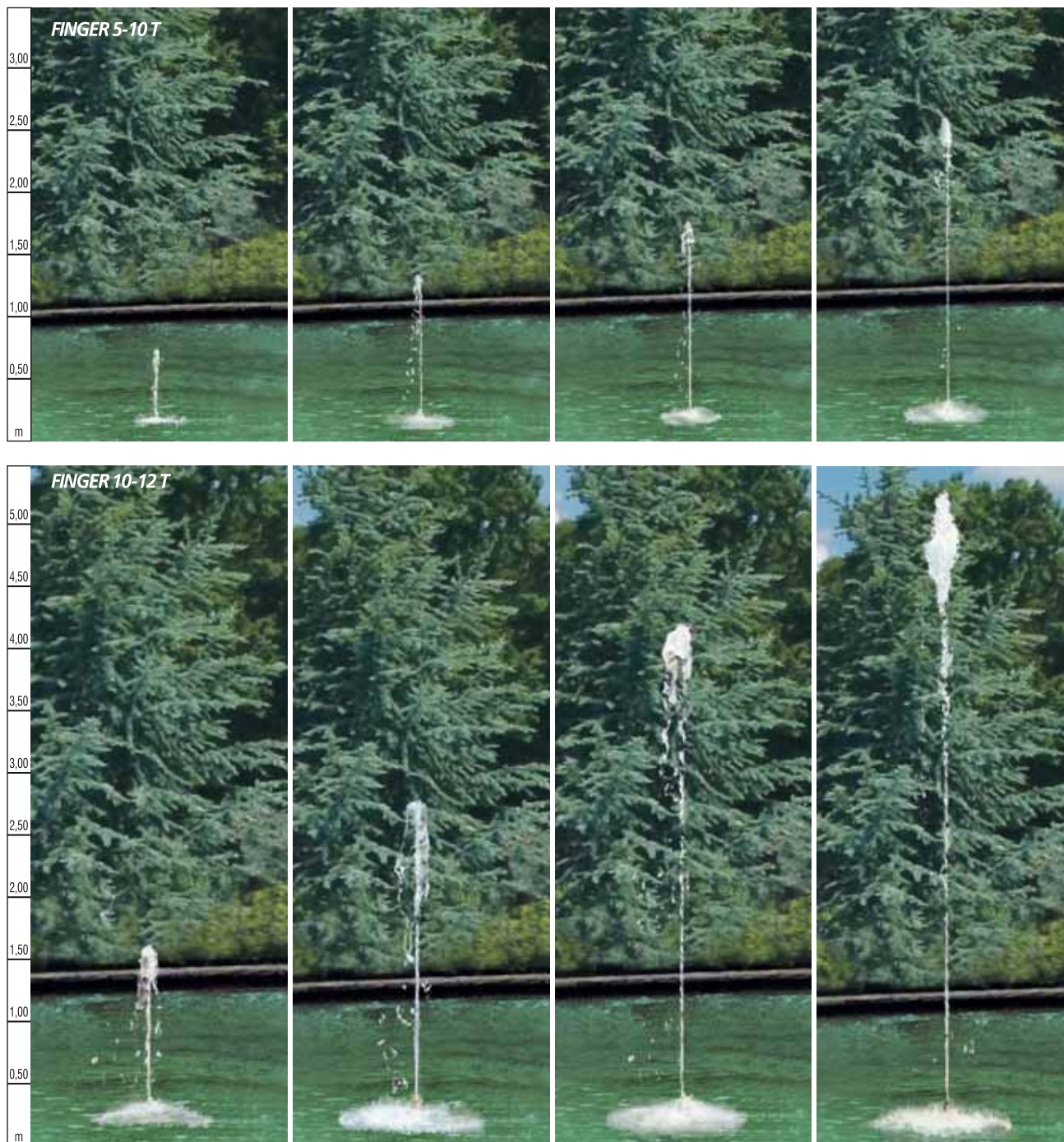
## Finger Nozzles - Plastic/Black - Adjustable

Made of plastic. Can be articulated up to 15°.



| Description                                                            | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------|----------------|------------|-----------|-----------------------|
| • <b>Finger (3-6T)</b> 3/8" Male Threaded.<br>Water spray dia. Ø6,0 mm | <b>161211P</b> | 1          |           |                       |
| • <b>Finger (5-8T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø8 mm    | <b>161221P</b> | 1          |           |                       |
| • <b>Finger (5-10T)</b> 0,5 Male Threaded.<br>Water spray dia. Ø10 mm  | <b>161222P</b> | 1          |           |                       |
| • <b>Finger (10-12T)</b> 1" Male Threaded.<br>Water spray dia. Ø12 mm  | <b>161231P</b> | 1          |           |                       |

## Finger Nozzles



### Flow and Pressure Indicators According to Nozzles Squirt Height

| Squirt Height | FINGER 3-6 T           |                            |      | FINGER 5-8 T           |                            |      | FINGER 5-10 T          |                            |      | FINGER 10-12 T         |                            |      |
|---------------|------------------------|----------------------------|------|------------------------|----------------------------|------|------------------------|----------------------------|------|------------------------|----------------------------|------|
|               | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  |
| 0,25 m        | 0,23                   | 0,30                       | 0,03 | 0,41                   | 0,30                       | 0,03 | 0,65                   | 0,30                       | 0,03 |                        |                            |      |
| 0,50 m        | 0,33                   | 0,60                       | 0,06 | 0,59                   | 0,60                       | 0,06 | 0,92                   | 0,60                       | 0,06 | 1,32                   | 0,60                       | 0,06 |
| 0,75 m        | 0,40                   | 0,90                       | 0,09 | 0,72                   | 0,90                       | 0,09 | 1,13                   | 0,90                       | 0,09 | 1,63                   | 0,90                       | 0,09 |
| 1,00 m        | 0,47                   | 1,20                       | 0,12 | 0,84                   | 1,20                       | 0,12 | 1,31                   | 1,20                       | 0,12 | 1,89                   | 1,20                       | 0,12 |
| 1,25 m        | 0,53                   | 1,51                       | 0,15 | 0,94                   | 1,51                       | 0,15 | 1,47                   | 1,51                       | 0,15 | 2,12                   | 1,51                       | 0,15 |
| 1,50 m        | 0,58                   | 1,81                       | 0,18 | 1,04                   | 1,81                       | 0,18 | 1,62                   | 1,81                       | 0,18 | 2,33                   | 1,81                       | 0,18 |
| 2,00 m        | 0,68                   | 2,42                       | 0,24 | 1,21                   | 2,42                       | 0,24 | 1,88                   | 2,42                       | 0,24 | 2,72                   | 2,42                       | 0,24 |
| 2,50 m        | 0,76                   | 3,03                       | 0,30 | 1,36                   | 3,03                       | 0,30 | 2,13                   | 3,03                       | 0,30 | 3,06                   | 3,03                       | 0,30 |
| 3,00 m        | 0,84                   | 3,64                       | 0,36 | 1,50                   | 3,64                       | 0,36 | 2,35                   | 3,64                       | 0,36 | 3,38                   | 3,64                       | 0,36 |
| 4,00 m        | 0,99                   | 4,88                       | 0,49 | 1,76                   | 4,88                       | 0,49 | 2,76                   | 4,88                       | 0,49 | 3,97                   | 4,88                       | 0,49 |
| 5,00 m        |                        |                            |      | 2,00                   | 6,12                       | 0,61 | 3,13                   | 6,12                       | 0,61 | 4,51                   | 6,12                       | 0,61 |
| 6,00 m        |                        |                            |      |                        |                            |      | 3,48                   | 7,37                       | 0,74 | 5,01                   | 7,37                       | 0,74 |
| 8,00 m        |                        |                            |      |                        |                            |      |                        |                            |      | 5,96                   | 9,91                       | 0,99 |



## Geiser Nozzles - Stainless Steel



161341 - 161351



Water-level dependant foam-effect nozzles, should be operated under water level. Completely made in AISI 304 stainless steel and ABS plastic. Larger models (2,5" and 3") consist of threaded flange connection and massive stainless steel.

| Description                                                                  | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>Geiser (20T)</b> - 1" Male threaded: Water spray nozzle dia. Ø20 mm     | <b>161311</b> | 1          |           |                       |
| • <b>Geiser (40T)</b> - 1,5" Female threaded: Water spray nozzle dia. Ø40 mm | <b>161321</b> | 1          |           |                       |
| • <b>Geiser (60T)</b> - 2" Female threaded: Water spray nozzle dia. Ø60 mm   | <b>161331</b> | 1          |           |                       |
| • <b>Geiser (80T)</b> - 2,5" Female threaded: Water spray nozzle dia. Ø80 mm | <b>161341</b> | 1          |           |                       |
| • <b>Geiser (100T)</b> - 3" Female threaded: Water spray nozzle dia. Ø100 mm | <b>161351</b> | 1          |           |                       |



161311



161321



161331

## Geiser Nozzles - Bronze

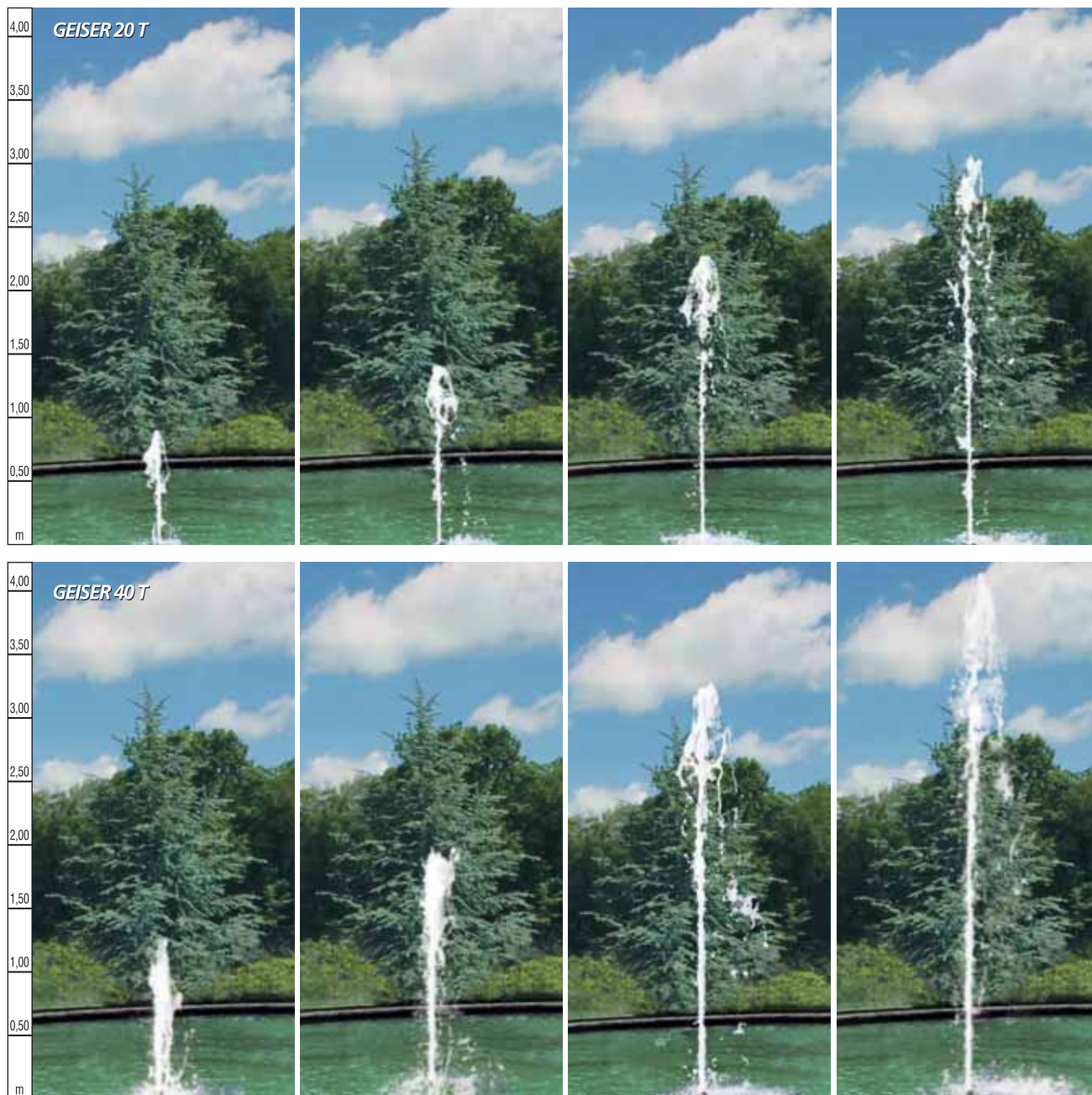
Water-level dependant foam-effect nozzles, should be operated under water level. Completely made in bronze.



| Description                                                                  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • <b>Geiser (20T)</b> - 1" Male threaded: Water spray nozzle dia. Ø20 mm     | <b>16131</b> | 1          | 1,054     |                       |
| • <b>Geiser (40T)</b> - 1,5" Female threaded: Water spray nozzle dia. Ø40 mm | <b>16132</b> | 1          | 3,882     |                       |
| • <b>Geiser (60T)</b> - 2" Female threaded: Water spray nozzle dia. Ø60 mm   | <b>16133</b> | 1          | 3,210     |                       |
| • <b>Geiser (80T)</b> - 2,5" Female threaded: Water spray nozzle dia. Ø80 mm | <b>16134</b> | 1          | 10,730    |                       |
| • <b>Geiser (100T)</b> - 3" Female threaded: Water spray nozzle dia. Ø100 mm | <b>16135</b> | 1          | 15,200    |                       |



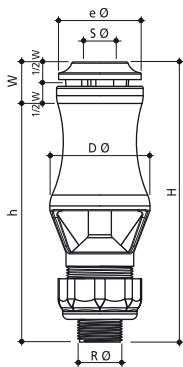
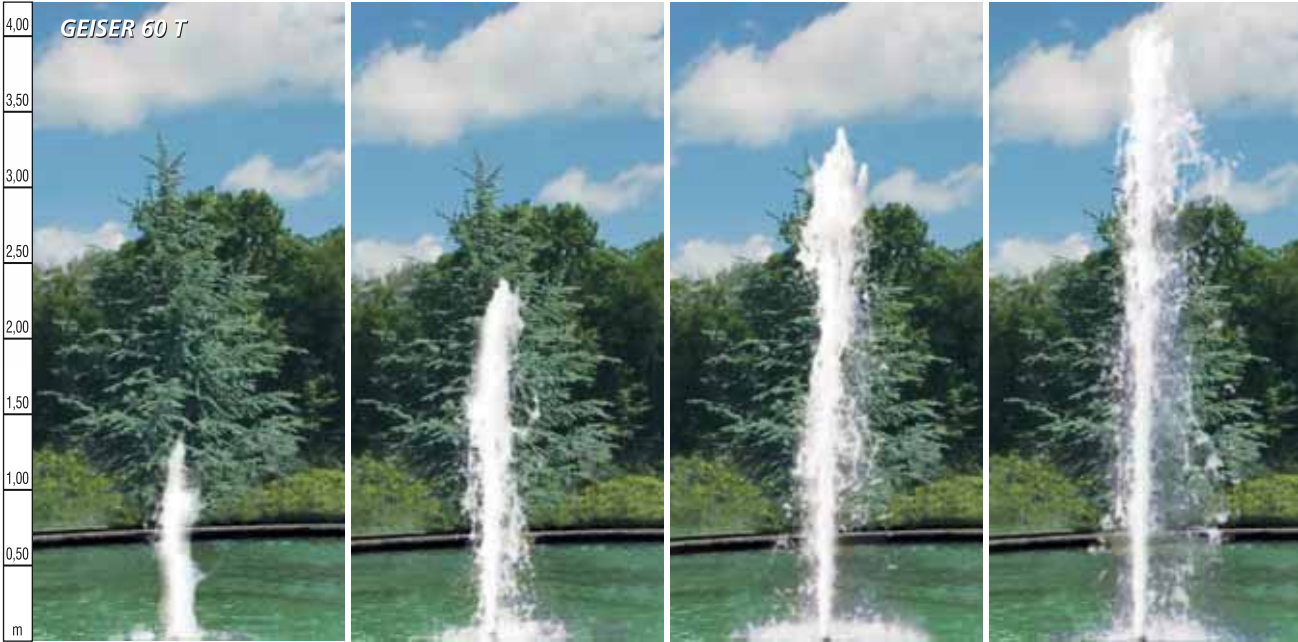
## Geiser Nozzles



Flow and Pressure Indicators According to Nozzles Squirt Height

| Squirt Height | GEISER 20 T            |                            |      |  | GEISER 40 T            |                            |      |  | GEISER 60 T            |                            |      |       | GEISER 80 T            |                            |        |      | GEISER 100 T           |                            |     |  |
|---------------|------------------------|----------------------------|------|--|------------------------|----------------------------|------|--|------------------------|----------------------------|------|-------|------------------------|----------------------------|--------|------|------------------------|----------------------------|-----|--|
|               | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  |  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  |  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  |       | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm    |      | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm |  |
| 0,50 m        | 1,83                   | 1,9                        | 0,19 |  | 4,05                   | 1,8                        | 0,18 |  | 7,90                   | 2,2                        | 0,22 |       |                        |                            |        |      |                        |                            |     |  |
| 0,75 m        | 2,07                   | 2,4                        | 0,24 |  | 4,60                   | 2,4                        | 0,24 |  | 8,88                   | 2,8                        | 0,28 |       |                        |                            |        |      |                        |                            |     |  |
| 1,00 m        | 2,28                   | 3,0                        | 0,30 |  | 5,08                   | 2,9                        | 0,29 |  | 9,78                   | 3,4                        | 0,34 | 15,62 | 3,5                    | 0,35                       |        |      |                        |                            |     |  |
| 1,50 m        | 2,66                   | 4,0                        | 0,40 |  | 5,94                   | 4,0                        | 0,40 |  | 11,36                  | 4,6                        | 0,46 | 18,57 | 5,0                    | 0,50                       |        |      |                        |                            |     |  |
| 2,00 m        | 3,00                   | 5,1                        | 0,51 |  | 6,68                   | 5,0                        | 0,50 |  | 12,74                  | 5,8                        | 0,58 | 21,10 | 6,5                    | 0,65                       | 31,14  | 6,8  | 0,68                   |                            |     |  |
| 2,50 m        | 3,29                   | 6,2                        | 0,62 |  | 7,35                   | 6,1                        | 0,61 |  | 13,98                  | 6,9                        | 0,69 | 23,37 | 7,9                    | 0,79                       | 34,00  | 8,1  | 0,81                   |                            |     |  |
| 3,00 m        | 3,57                   | 7,2                        | 0,72 |  | 7,97                   | 7,1                        | 0,71 |  | 15,12                  | 8,1                        | 0,81 | 25,44 | 9,4                    | 0,94                       | 36,62  | 9,4  | 0,94                   |                            |     |  |
| 4,00 m        | 4,06                   | 9,4                        | 0,94 |  | 9,08                   | 9,2                        | 0,92 |  | 17,19                  | 10,5                       | 1,05 | 29,13 | 12,3                   | 1,23                       | 41,39  | 12,0 | 1,20                   |                            |     |  |
| 5,00 m        | 4,50                   | 11,5                       | 1,15 |  | 10,06                  | 11,3                       | 1,13 |  | 19,03                  | 12,8                       | 1,28 | 32,41 | 15,2                   | 1,52                       | 45,66  | 14,6 | 1,46                   |                            |     |  |
| 6,00 m        | 4,90                   | 13,6                       | 1,36 |  | 10,96                  | 13,5                       | 1,35 |  | 20,70                  | 15,2                       | 1,52 | 35,38 | 18,2                   | 1,82                       | 49,56  | 17,2 | 1,72                   |                            |     |  |
| 8,00 m        |                        |                            |      |  | 12,56                  | 17,7                       | 1,77 |  | 23,70                  | 19,9                       | 1,99 | 40,68 | 24,0                   | 2,40                       | 56,52  | 22,4 | 2,24                   |                            |     |  |
| 10,00 m       |                        |                            |      |  | 13,98                  | 21,9                       | 2,19 |  | 26,37                  | 24,6                       | 2,46 | 45,37 | 29,9                   | 2,99                       | 62,79  | 27,6 | 2,76                   |                            |     |  |
| 12,50 m       |                        |                            |      |  |                        |                            |      |  | 29,36                  | 30,5                       | 3,05 | 50,62 | 37,2                   | 3,72                       | 69,80  | 34,1 | 3,41                   |                            |     |  |
| 15,00 m       |                        |                            |      |  |                        |                            |      |  | 32,07                  | 36,4                       | 3,64 | 55,37 | 44,5                   | 4,45                       | 76,16  | 40,6 | 4,06                   |                            |     |  |
| 17,50 m       |                        |                            |      |  |                        |                            |      |  |                        |                            |      | 59,75 | 51,8                   | 5,18                       | 82,04  | 47,1 | 4,71                   |                            |     |  |
| 20,00 m       |                        |                            |      |  |                        |                            |      |  |                        |                            |      | 63,83 | 59,1                   | 5,91                       | 87,51  | 53,6 | 5,36                   |                            |     |  |
| 25,00 m       |                        |                            |      |  |                        |                            |      |  |                        |                            |      |       |                        |                            | 97,55  | 66,6 | 6,66                   |                            |     |  |
| 30,00 m       |                        |                            |      |  |                        |                            |      |  |                        |                            |      |       |                        |                            | 106,65 | 79,6 | 7,96                   |                            |     |  |

## Geiser Nozzles

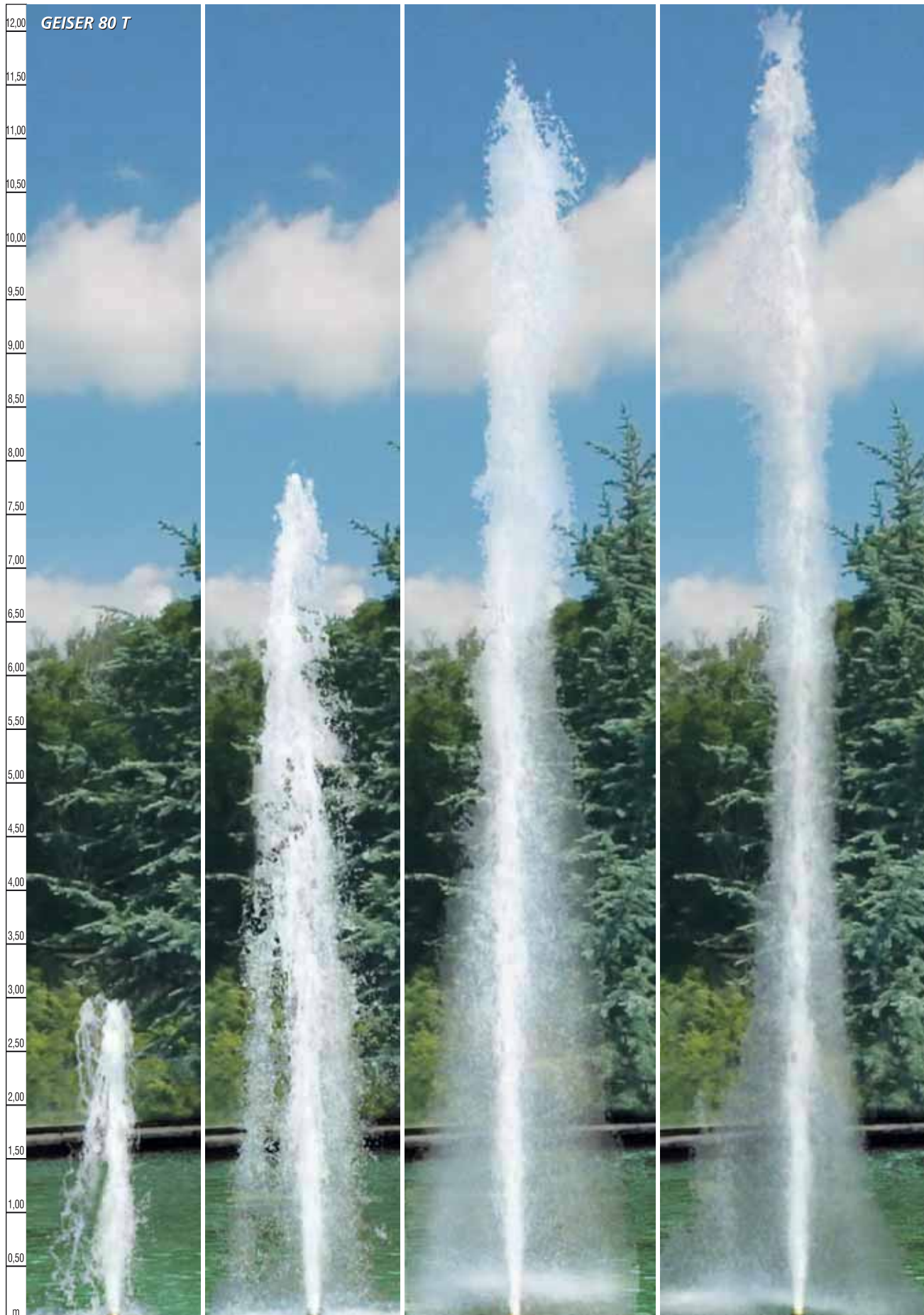


### TECHNICAL CHARACTERISTICS

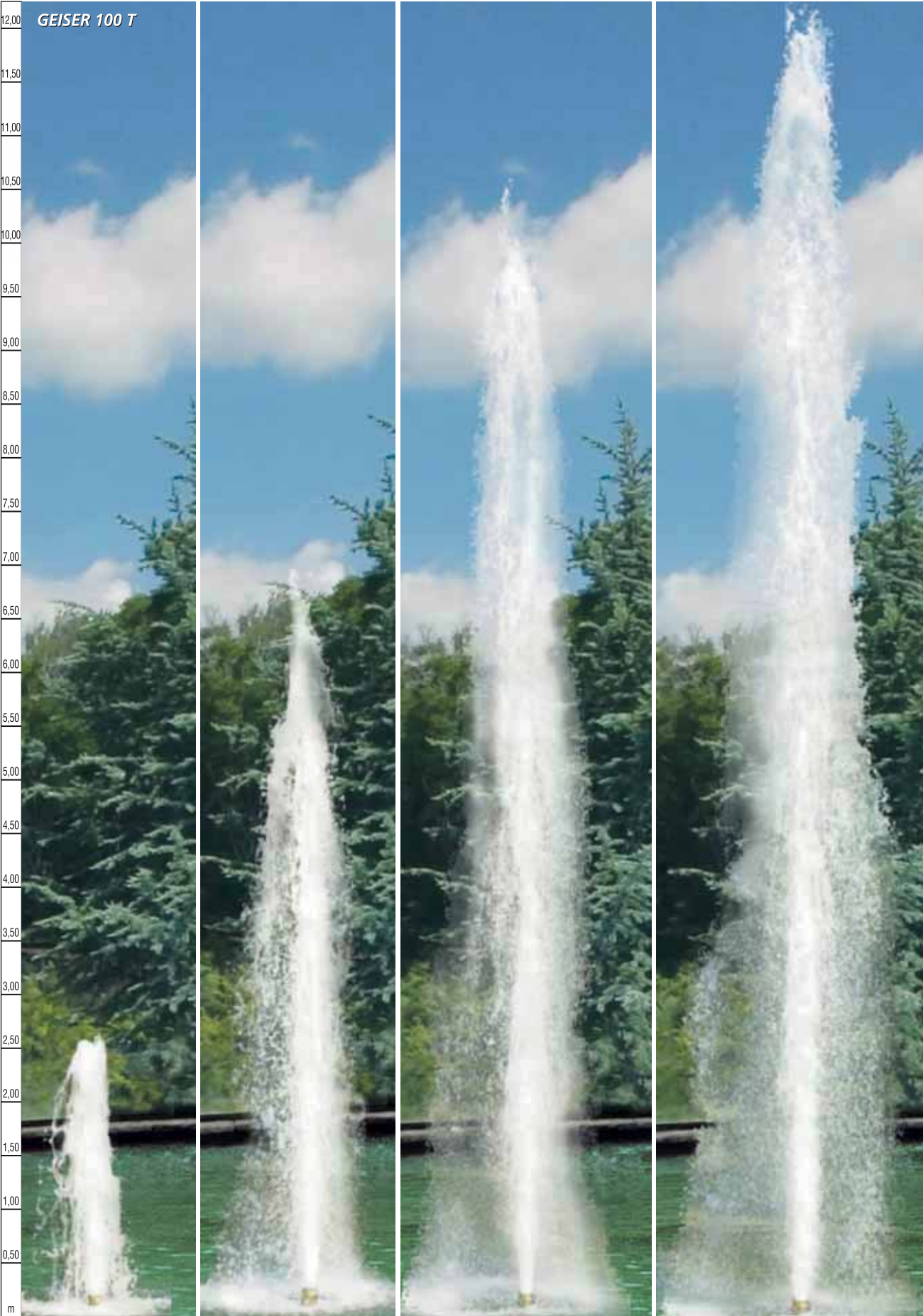
| MODEL       | 20 T / 161311 | 40 T / 161321 | 60 T / 161331 | 80 T / 161341 | 100 T / 161351 |
|-------------|---------------|---------------|---------------|---------------|----------------|
| S Ø (mm)    | 23            | 45            | 60            | 80            | 100            |
| R Ø (mm)    | 32 (1")       | 40 (1 1/2")   | 50 (2")       | 65(2,5")      | 80 (3")        |
| D Ø (mm)    | 74            | 92            | 117           | 230           | 165            |
| e Ø (mm)    | 61            | 81            | 107           | 120           | 150            |
| H (mm)      | 207           | 277           | 325           | 250           | 330            |
| h (mm)      | 176           | 217           | 246           | 240           | 310            |
| W (mm)      | 31            | 60            | 80            | 10            | 20             |
| WEIGHT (Kg) |               |               |               |               |                |



## Geiser Nozzles



## Geiser Nozzles





## Water Fan Nozzle

“Water Fan Nozzle” Made of Stainless Steel.

| Description                        | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|---------------|----------------|--------------|--------------------------|
| • Water Fan Nozzle (115 - 15T), 1" | <b>161111</b> | 1              | 1,798        | 0,002                    |
| • Duck Mouth, 1"                   | <b>161113</b> | 1              |              |                          |
| • Duck Mouth, 1,5"                 | <b>161114</b> | 1              |              |                          |



## Finger Jet Nozzle

“Finger Water Fan Nozzle” Made of Stainless Steel. Distributes the water with 60° angle from Ø4,0 mm water jet. 1" male threaded connection.

| Description                            | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|----------------|----------------|--------------|--------------------------|
| • Finger Water Fan (13 - 4T). 13 Mouth | <b>1611121</b> | 1              | 2,814        | 0,003                    |
| • Finger Water Fan (25 - 4T). 25 Mouth | <b>1611122</b> | 1              | 2,868        | 0,003                    |
| • Big Type Finger Water Fan (6 - 8T)   | <b>1611123</b> |                |              |                          |



## Volcano Nozzles

Creates a water pattern consisting of a series of jets which rise in one or more steps.

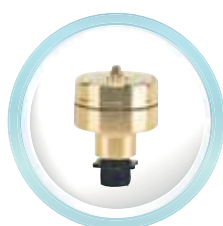
| Description                                                                                          | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------------------------------------------------------------------|---------------|----------------|--------------|--------------------------|
| • Volcano (43 - 3T) 1"                                                                               | <b>16143P</b> | 1              | -            | -                        |
| Male threaded : Made in plastic.                                                                     |               |                |              |                          |
| • Volcano (19 - 3T) 1"                                                                               | <b>16142</b>  | 1              | 1,118        | 0,0008                   |
| Male threaded : Water spray hole dia.<br>Ø3 mm x 19 pcs.                                             |               |                |              |                          |
| • Volcano (43 - 3T) 1"                                                                               | <b>16143</b>  | 1              | 1,160        | 0,0008                   |
| Male threaded : Water spray hole dia.<br>Ø3 mm x 43 pcs.                                             |               |                |              |                          |
| • Volcano (200/19 - 6T) 2"                                                                           | <b>16144</b>  | 1              | 4,154        | 0,0034                   |
| Male threaded : Consists of 1 x Ø10 mm +<br>18 x Ø6 mm finger nozzle                                 |               |                |              |                          |
| • Ditto, Made of golden plated plastic<br>finger jets.                                               | <b>16144P</b> | 1              |              |                          |
| • Volcano (300/19 - 8T) 2,5" Male<br>threaded : Consists of 1 x Ø12 mm<br>+ 18 x Ø8 mm finger nozzle | <b>16145</b>  | 1              | 9,250        |                          |



Volcano 200/19 - 6 T



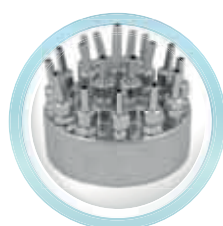
Volcano 300/19 - 8 T



16143



16143P



16144

## Water Bell Nozzles



Made in stainless steel. Adjustable.

| Description                                                                          | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>30T</b> : H= 30 cm 1" Male threaded.                                            | <b>161621</b> | 1          | 1,040     | 0,001                 |
| • <b>40T</b> : Height = 40 cm 1" Male threaded.                                      | <b>161622</b> | 1          | 1,316     | 0,001                 |
| • <b>60T</b> : H= 60 cm 1" Male threaded.                                            | <b>161523</b> | 1          | 1,538     | 0,002                 |
| • <b>30TP</b> : H= 30 cm and can be extended.<br>0,5 Male threaded. Made in plastic. | <b>16161P</b> | 1          | 0,148     | 0,001                 |

## Water Sphere Nozzles



127 Arms made in stainless steel are fitted on the central bronze sphere. Stands on a stainless steel pivot.

| Description                                     | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>Water Sphere Nozzle 1500</b> , Ø1500 mm    | <b>161101</b> | 1          |           |                       |
| • <b>Water Sphere Nozzle 2500</b> , Ø2500 mm    | <b>161102</b> | 1          |           |                       |
| • <b>Half a sphere of water 1500</b> , Ø1500 mm | <b>161103</b> | 1          |           |                       |
| • <b>Half a sphere of water 2500</b> , Ø2500 mm | <b>161104</b> | 1          |           |                       |

## Valves for Nozzle Adjustment



Chrome plated bronze. Female threaded nozzle side and male threaded pipe connection side.

| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
| • 0,5       | <b>16201</b> | 1          |           |                       |
| • 0,75      | <b>16202</b> | 1          |           |                       |
| • 1"        | <b>16203</b> | 1          |           |                       |
| • 1,5"      | <b>16204</b> | 1          |           |                       |
| • 2"        | <b>16205</b> | 1          |           |                       |

## Nozzle Joint



Female threaded nozzle side and male threaded pipe connection side.

| Description                     | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------|--------------|------------|-----------|-----------------------|
| • 1" Plastic                    | <b>16301</b> |            |           |                       |
| • 1,5" Plastic                  | <b>16302</b> |            |           |                       |
| • 1" with Stainless Steel Nut   | <b>16303</b> |            |           |                       |
| • 1,5" with Stainless Steel Nut | <b>16304</b> |            |           |                       |

## Water Bell Nozzles



### Flow and Pressure Indicators According to Nozzles Squirt Height

| Bell Diameter | WATER BELL 30 T           |                               |      | WATER BELL 45 T           |                               |      | WATER BELL 60 T           |                               |      |
|---------------|---------------------------|-------------------------------|------|---------------------------|-------------------------------|------|---------------------------|-------------------------------|------|
|               | Flow<br>m <sup>3</sup> /h | Pressure requirement<br>m / h | atm  | Flow<br>m <sup>3</sup> /h | Pressure requirement<br>m / h | atm  | Flow<br>m <sup>3</sup> /h | Pressure requirement<br>m / h | atm  |
| 0,15 m        |                           |                               |      |                           |                               |      |                           |                               |      |
| 0,20 m        |                           |                               |      |                           |                               |      |                           |                               |      |
| 0,30 m        | 2,10                      | 1,1                           | 0,11 |                           |                               |      |                           |                               |      |
| 0,40 m        | 2,58                      | 1,3                           | 0,13 | 2,58                      | 1,4                           | 0,14 |                           |                               |      |
| 0,50 m        | 3,06                      | 1,6                           | 0,16 | 3,06                      | 1,7                           | 0,17 | 2,58                      |                               |      |
| 0,60 m        | 3,54                      | 2,0                           | 0,20 | 3,54                      | 2,1                           | 0,21 | 3,06                      |                               |      |
| 0,70 m        | 4,02                      | 2,5                           | 0,25 | 4,02                      | 2,6                           | 0,26 | 3,54                      |                               |      |
| 0,90 m        |                           |                               |      | 4,50                      | 3,2                           | 0,32 | 4,02                      |                               |      |
| 1,10 m        |                           |                               |      |                           |                               |      | 4,50                      | 2,1                           | 0,21 |
| 1,30 m        |                           |                               |      |                           |                               |      | 4,98                      | 2,4                           | 0,24 |
| 1,50 m        |                           |                               |      |                           |                               |      |                           | 2,8                           | 0,28 |

## Water Star Nozzles



Made in bronze. O.D. Ø750 mm. Water spray nozzle Ø4 mm. Connection: 1,5"

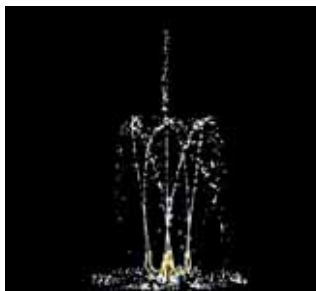
| Description                       | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|--------------|------------|-----------|-----------------------|
| • 12 / K3 - 4 / 750T with 12 arms | <b>16101</b> | 1          |           |                       |
| • 18 / K3 - 4 / 750T with 18 arms | <b>16102</b> | 1          |           |                       |
| • 24 / K3 - 4 / 750T with 24 arms | <b>16103</b> | 1          |           |                       |



Plastic Water Star. Made of 36 pieces of 3/8" plastic finger jets. Dia Ø1000 mm, water jet Ø4,0 mm, connection 1,5".

| Description                    | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------|--------------|------------|-----------|-----------------------|
| Plastic Water Star Nozzle 1000 | <b>16104</b> | 1          | 4,184     | 0,106                 |

## Water Pirouette Nozzle



Made in bronze. Effect is created by rotation.

| Description                   | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------|--------------|------------|-----------|-----------------------|
| • (M7 - 5T) 0,5 Male threaded | <b>16191</b> |            | 1,846     | 0,046                 |
| • (M7 - 10T) 1" Male threaded | <b>16192</b> | 1          |           |                       |



## Water Bell Nozzles



### Flow and Pressure Indicators According to Nozzles Squirt Height

| Squirt Height | WATER STAR 12 / K3-4 / 750 T |                                   |      | WATER STAR 18 / K3-4 / 750 T |                                   |      | WATER STAR 24 / K3-4 / 750 T |                                   |      |
|---------------|------------------------------|-----------------------------------|------|------------------------------|-----------------------------------|------|------------------------------|-----------------------------------|------|
|               | Flow<br>m <sup>3</sup> /h    | Pressure requirement<br>m / h atm |      | Flow<br>m <sup>3</sup> /h    | Pressure requirement<br>m / h atm |      | Flow<br>m <sup>3</sup> /h    | Pressure requirement<br>m / h atm |      |
| 0,50 m        | 1,79                         | 0,7                               | 0,07 | 2,69                         | 0,7                               | 0,07 | 3,60                         | 0,9                               | 0,09 |
| 0,75 m        | 2,22                         | 1,1                               | 0,11 | 3,33                         | 1,1                               | 0,11 | 4,47                         | 1,4                               | 0,14 |
| 1,00 m        | 2,60                         | 1,4                               | 0,14 | 3,90                         | 1,4                               | 0,14 | 5,24                         | 1,8                               | 0,18 |
| 1,25 m        | 2,94                         | 1,8                               | 0,18 | 4,40                         | 1,8                               | 0,18 | 5,93                         | 2,3                               | 0,23 |
| 1,50 m        | 3,25                         | 2,1                               | 0,21 | 4,88                         | 2,1                               | 0,21 | 6,59                         | 2,7                               | 0,27 |
| 1,75 m        | 3,55                         | 2,5                               | 0,25 | 5,32                         | 2,5                               | 0,25 | 7,20                         | 3,2                               | 0,32 |
| 2,00 m        | 3,84                         | 2,9                               | 0,29 | 5,75                         | 2,9                               | 0,29 | 7,80                         | 3,6                               | 0,36 |
| 2,50 m        | 4,11                         | 3,2                               | 0,32 | 6,17                         | 3,2                               | 0,32 | 8,36                         | 4,1                               | 0,41 |
| 3,00 m        | 4,38                         | 3,6                               | 0,36 | 6,56                         | 3,6                               | 0,36 | 8,93                         | 4,5                               | 0,45 |
| 3,50 m        | 4,89                         | 4,3                               | 0,43 | 7,33                         | 4,3                               | 0,43 | 10,00                        | 5,4                               | 0,54 |
| 4,00 m        | 5,39                         | 5,0                               | 0,50 | 8,07                         | 5,0                               | 0,50 | 11,04                        | 6,4                               | 0,64 |
| 4,50 m        | 5,86                         | 5,8                               | 0,58 | 8,79                         | 5,8                               | 0,58 | 12,05                        | 7,3                               | 0,73 |

## Spring Nozzles



Foam effect nozzle to be operated above the water level. Completely made in plastic and stainless steel. (Only model of 75-20T is stainless steel + bronze)

| Description                                                                            | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------------------------------------------|---------------|------------|-----------|-----------------------|
| • <b>Spring (35 - 10E)</b> 1" Male threaded:<br>Water spray dia. Ø32 mm. Adjustable.   | <b>161521</b> | 1          | 0,684     | 0,0004                |
| • <b>Spring (55 - 10E)</b> 1" Male threaded:<br>Water spray dia. Ø50 mm. Adjustable.   | <b>161522</b> | 1          | 1,282     | 0,0008                |
| • <b>Spring (55 - 15E)</b> 1,5" Male threaded:<br>Water spray dia. Ø50 mm. Adjustable. | <b>16153</b>  | 1          | 1,306     | 0,0008                |
| • <b>Spring (75 - 20T)</b> 2" Male threaded:<br>Water spray dia. Ø75 mm. Adjustable.   | <b>16154</b>  | 1          | 2,742     | 0,0020                |



161521



161522



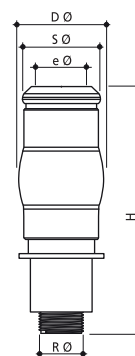
16153



16154

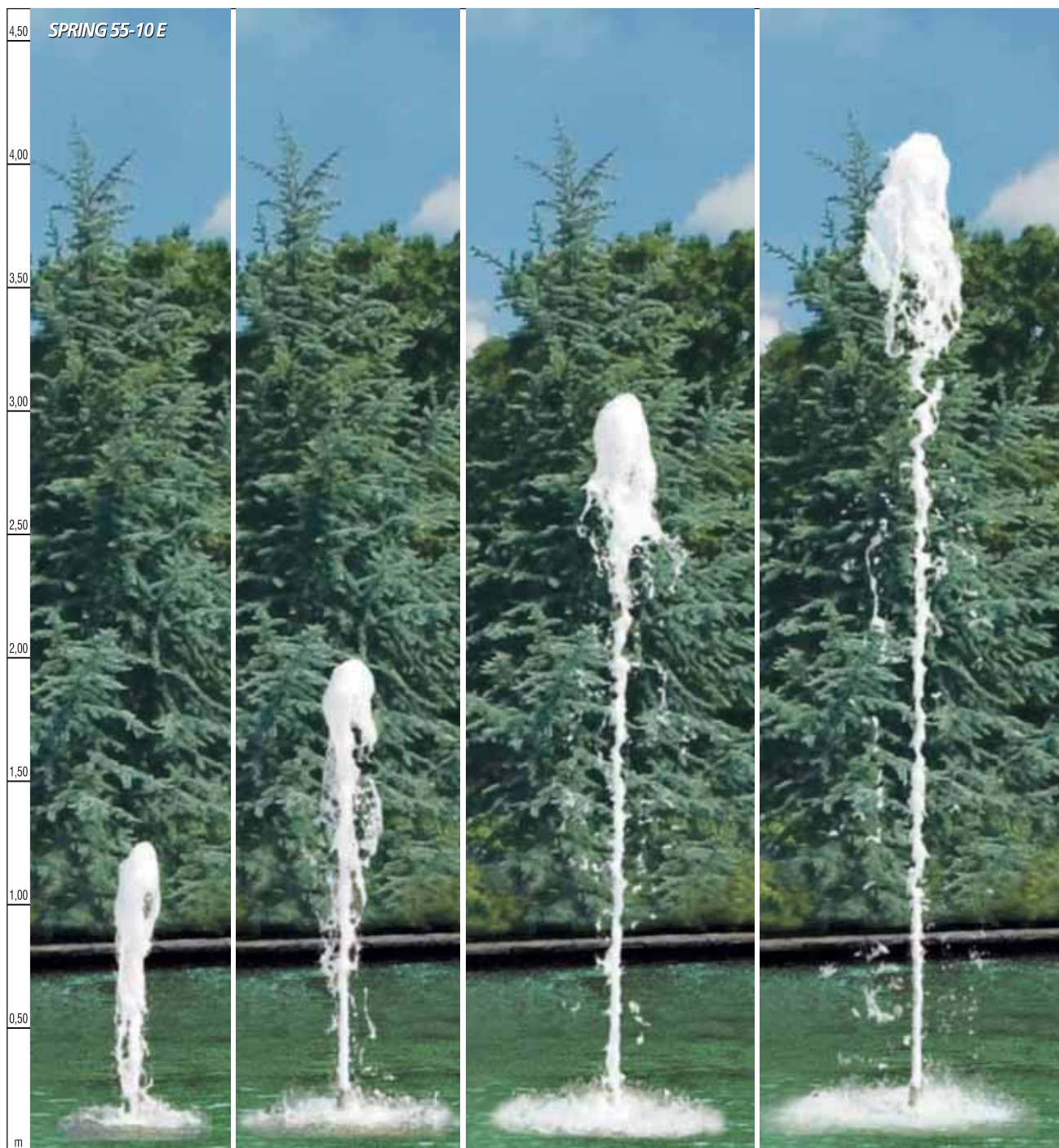
### TECHNICAL CHARACTERISTICS

| MODEL       | 35 - 10E | 55 - 10E | 55 - 15E    | 75 - 20T |
|-------------|----------|----------|-------------|----------|
| S Ø (mm)    | 50       | 72       | 72          | 80       |
| R Ø (mm)    | 32 (1")  | 32 (1")  | 40 (1 1/2") | 50 (2")  |
| D Ø (mm)    | 58       | 79       | 79          | 100      |
| e Ø (mm)    | 32,50    | 50       | 50          | 66       |
| H (mm)      | 153      | 178      | 180         | 240      |
| WEIGHT (Kg) |          |          |             |          |





## Spring Nozzles



Flow and Pressure Indicators According to Nozzles Squirt Height

| Squirt Height | SPRING 35-10 E         |                            |      | SPRING 55-10 E         |                            |      | SPRING 55-15 E         |                            |      | SPRING 75-20 T         |                            |      |
|---------------|------------------------|----------------------------|------|------------------------|----------------------------|------|------------------------|----------------------------|------|------------------------|----------------------------|------|
|               | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  | Flow m <sup>3</sup> /h | Pressure requirement m / h | atm  |
| 0,25 m        | 2,33                   | 0,7                        | 0,07 |                        |                            |      |                        |                            |      |                        |                            |      |
| 0,50 m        | 3,29                   | 1,5                        | 0,15 | 4,85                   | 2,0                        | 0,20 | 4,85                   | 1,3                        | 0,13 | 13,23                  | 0,9                        | 0,09 |
| 0,75 m        | 4,03                   | 2,2                        | 0,22 | 5,95                   | 2,9                        | 0,29 | 5,95                   | 1,9                        | 0,19 | 16,25                  | 1,3                        | 0,13 |
| 1,00 m        | 4,65                   | 2,9                        | 0,29 | 6,89                   | 3,9                        | 0,39 | 6,89                   | 2,5                        | 0,25 | 18,81                  | 1,8                        | 0,18 |
| 1,25 m        | 5,21                   | 3,6                        | 0,36 | 7,72                   | 4,9                        | 0,49 | 7,72                   | 3,1                        | 0,31 | 21,08                  | 2,2                        | 0,22 |
| 1,50 m        | 5,70                   | 4,4                        | 0,44 | 8,48                   | 5,9                        | 0,59 | 8,48                   | 3,8                        | 0,38 | 23,15                  | 2,6                        | 0,26 |
| 2,00 m        | 6,58                   | 5,8                        | 0,58 | 9,84                   | 7,8                        | 0,78 | 9,84                   | 5,0                        | 0,50 | 26,86                  | 3,5                        | 0,35 |
| 2,50 m        |                        |                            |      | 11,05                  | 9,8                        | 0,98 | 11,05                  | 6,3                        | 0,63 | 30,17                  | 4,4                        | 0,44 |
| 3,00 m        |                        |                            |      |                        |                            |      | 12,17                  | 7,5                        | 0,75 | 33,21                  | 5,3                        | 0,53 |
| 4,00 m        |                        |                            |      |                        |                            |      | 14,18                  | 10,1                       | 1,01 | 38,70                  | 7,1                        | 0,71 |
| 5,00 m        |                        |                            |      |                        |                            |      | 16,00                  | 12,6                       | 1,26 | 43,67                  | 8,9                        | 0,89 |
| 6,00 m        |                        |                            |      |                        |                            |      | 17,69                  | 15,2                       | 1,52 | 48,27                  | 10,7                       | 1,07 |



## Spring Nozzles





## Decorative Wall Nozzles

**GEMAS Wall Nozzles.** Made of polyester and the surface finish is made with various aging paints. Standart trims are antique copper, antique brass, antique silver and oxide. Special implemetations can be made according to special demands.

| Description                              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------------|----------------|----------------|--------------|--------------------------|
| • Small Lionhead, Antique Copper         | <b>1122411</b> | 1              |              |                          |
| • Large Lionhead, Antique Copper         | <b>1122421</b> | 1              |              |                          |
| • Plain Bowl Waterfall, Antique Copper   | <b>1122431</b> | 1              |              |                          |
| • Slotted Bowl Waterfall, Antique Copper | <b>1122241</b> | 1              |              |                          |
| • Snail, Antique Copper                  | <b>1122251</b> | 1              |              |                          |
| • Antique Badge, Antique Copper          | <b>1122261</b> | 1              |              |                          |



Small Lionhead,  
Antique Copper



Large Lionhead,  
Antique Copper



Plain Bowl Waterfall



Plain Bowl Waterfall,  
Antique Copper



Slotted Bowl Waterfall,  
Antique Copper



Snail Antique Copper



Antique Badge

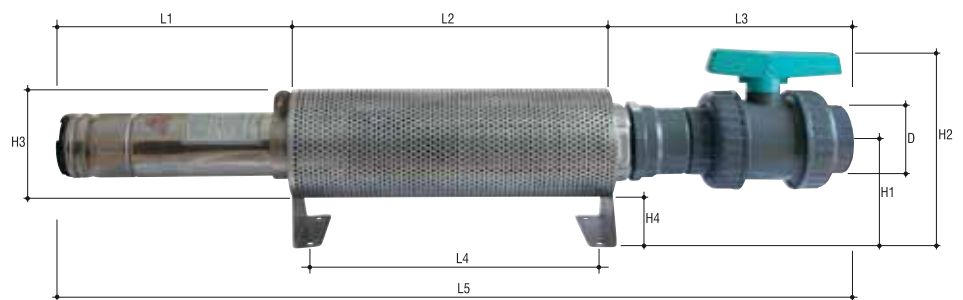
## Submersible Pumps for Fountains



**High pressure - High Flow Submersible deepwell pumps:** Such pumps with below technical specs are made of stainless steel (AISI 304) including its fan being capable of working long time by minimum maintenance thanks to the stainless steel pre-filter. All pumps are complete with a ball or butterfly valve suitable to their connection diameter. Low profile of pumps provide usage in shallow ornamental pools. Easy to be fixed to side nozzle collectors and nozzles saving significantly from laborious and expensive pipe installation. It's vitally important to take precautions in control panels of pumps against electric leakage. All pump models are manufactured upon customer's order. Delivery time is approximately 15 days. Please ask quotation for AISI 316 quality pumps.

### TECHNICAL CHARACTERISTICS

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| <b>Step</b>                      | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Fan</b>                       | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Pump shaft</b>                | <i>X22 CrNi 17</i>                                     |
| <b>Step rubber</b>               | <i>Nitrile Rubber</i>                                  |
| <b>Filter</b>                    | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Pump suction adapter</b>      | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Pump Output Connection</b>    | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Throttle</b>                  | <i>Stainless Steel (AISI 304), Optional (AISI 316)</i> |
| <b>Max. Sand Amount</b>          | <i>50 gr/m<sup>3</sup></i>                             |
| <b>Max. departure p</b>          | <i>20 (kal/s)</i>                                      |
| <b>Frequency</b>                 | <i>50 Hz</i>                                           |
| <b>Max. working noise</b>        | <i>70 dB &lt;</i>                                      |
| <b>Class of motor protection</b> | <i>IP 68</i>                                           |
| <b>Motor Body</b>                | <i>Stainless Steel (AISI 304)</i>                      |
| <b>Max Water Temperature</b>     | <i>40°C</i>                                            |
| <b>Motor Rotation Direction</b>  | <i>Anti-clockwise direction</i>                        |
| <b>Speed</b>                     | <i>2900 speed/min.</i>                                 |



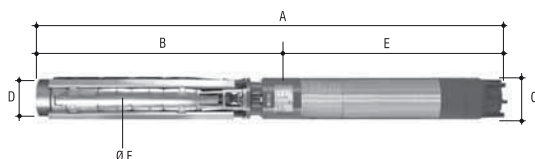
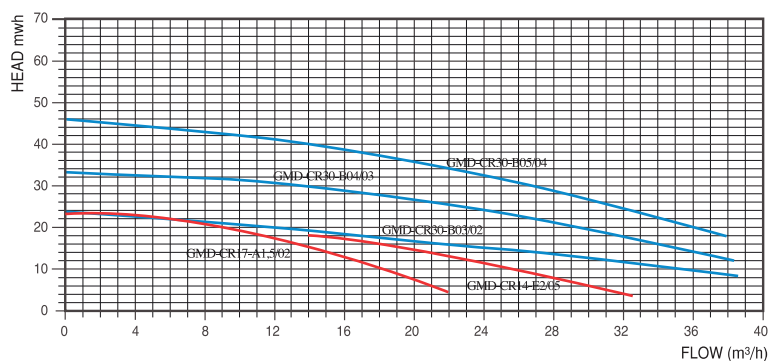
| PUMP TYPE          | DIMENSIONS (mm) |     |     |     |     |      |     |     |     |     |
|--------------------|-----------------|-----|-----|-----|-----|------|-----|-----|-----|-----|
|                    | Ø D             | L1  | L2  | L3  | L4  | L5   | H1  | H2  | H3  | H4  |
| GMD-CR14-E2/05     | 2"              | 435 | 500 | 183 | 470 | 1168 | 200 | 301 | 200 | 100 |
| GMD-CR17-A1,5/02   | 2"              | 289 | 500 | 183 | 470 | 1022 | 200 | 301 | 200 | 100 |
| GMD-CR30-B03/02    | 3"              | 405 | 500 | 264 | 470 | 1219 | 200 | 337 | 200 | 100 |
| GMD-CR30-B04/03    | 3"              | 565 | 600 | 264 | 570 | 1379 | 200 | 337 | 200 | 100 |
| GMD-CR30-B05/04    | 3"              | 530 | 700 | 264 | 670 | 1544 | 200 | 337 | 200 | 100 |
| GMD-CR46-C04/02    | 4"              | 399 | 600 | 414 | 570 | 1463 | 200 | 350 | 200 | 100 |
| GMD-CR46-C07/03    | 4"              | 540 | 600 | 414 | 570 | 1604 | 250 | 400 | 300 | 100 |
| GMD-CR60-D03/01    | 4"              | 425 | 500 | 414 | 470 | 1289 | 200 | 350 | 200 | 100 |
| GMD-CR77-E07/01    | 5"              | 482 | 600 | 380 | 570 | 1512 | 250 | 480 | 300 | 100 |
| GMD-CR77-E10/02    | 5"              | 560 | 700 | 380 | 670 | 1690 | 250 | 480 | 300 | 100 |
| GMD-CR135-G10/01-1 | 6"              | 536 | 700 | 408 | 670 | 1694 | 250 | 498 | 300 | 100 |
| GMD-CR135-G10/01   | 6"              | 516 | 700 | 408 | 670 | 1674 | 250 | 498 | 300 | 100 |
| GMD-CR135-G25/02-1 | 6"              | 712 | 900 | 408 | 870 | 2100 | 250 | 498 | 300 | 100 |

## Submersible Pumps for Fountains

| Description                      | Code     | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------|----------|----------------|--------------|--------------------------|
| • GMD-CR14-E2/05M - 2 HP Mono.   | 1631201M | 1              | 20,000       |                          |
| • GMD-CR14-E2/05 - 2 HP Tri.     | 1631201  | 1              | 18,000       |                          |
| • GMD-CR17-A1,5/02 - 1,5 HP Tri. | 1631211  | 1              | 17,100       |                          |
| • GMD-CR30-B03/02 - 3 HP Tri.    | 1631224  | 1              | 21,600       |                          |
| • GMD-CR30-B04/03 - 4 HP Tri.    | 1631225  | 1              | 26,400       |                          |
| • GMD-CR30-B05/04 - 5,5 HP Tri.  | 1631223  | 1              | 30,800       |                          |



PERFORMANCE CURVES



| PUMP TYPE        | STEP<br>NUMBER | MOTOR |     | AMP   |      | HEAD mwh  |       |       |       |       |       |       |       |       |       |       |    |  |
|------------------|----------------|-------|-----|-------|------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|
|                  |                |       |     |       |      | 4         | 6     | 8     | 10    | 12    | 14    | 16    | 17    | 18    | 20    | 21    | 23 |  |
|                  |                |       |     |       |      | FLOW m³/h |       |       |       |       |       |       |       |       |       |       |    |  |
| GMD-CR14-E2/05   | 5              | 2     | 1,5 | 11,50 | 4,00 | 32,00     | 31,00 | 29,00 | 28,00 | 25,00 | 23,00 | 18,00 | 16,50 | 14,00 | -     | -     | -  |  |
| GMD-CR17-A1,5/02 | 2              | 1,5   | 1,1 | -     | 3,00 | -         | -     | 19,80 | 18,00 | 16,20 | 14,40 | 13,50 | 12,60 | 10,80 | 9,00  | 7,20  | -  |  |
| GMD-CR30-B03/02  | 2              | 3     | 2,2 | -     | 5,00 | -         | -     | 38,50 | 36,00 | 31,00 | 28,80 | 22,00 | 21,60 | 18,00 | 14,40 | 10,80 | -  |  |

| PUMP TYPE       | STEP<br>NUMBER | MOTOR |   | AMP<br>II 220 V   III 380 V |      | HEAD mwh  |       |       |       |       |       |       |       |      |    |
|-----------------|----------------|-------|---|-----------------------------|------|-----------|-------|-------|-------|-------|-------|-------|-------|------|----|
|                 |                |       |   |                             |      | 14        | 18    | 21    | 24    | 26    | 28    | 29    | 31    | 32   | 34 |
|                 |                |       |   |                             |      | FLOW m³/h |       |       |       |       |       |       |       |      |    |
| GMD-CR30-B04/03 | 3              | 4     | 3 |                             | 7 00 | 36 00     | 32 40 | 28 80 | 25 20 | 21 60 | 18 00 | 14 40 | 10 80 | 7 20 | -  |

| PUMP TYPE       | STEP NUMBER | MOTOR |   | AMP<br>II 220 V III 380 V |      | HEAD mwh  |       |       |       |       |       |       |       |      |    |
|-----------------|-------------|-------|---|---------------------------|------|-----------|-------|-------|-------|-------|-------|-------|-------|------|----|
|                 |             |       |   |                           |      | 20        | 25    | 28    | 32    | 34    | 37    | 39    | 41    | 43   | 45 |
|                 |             |       |   |                           |      | FLOW m³/h |       |       |       |       |       |       |       |      |    |
| GMD-CR30-B05/04 | 4           | 5.5   | 4 |                           | 9.00 | 36.00     | 32.40 | 28.80 | 25.20 | 21.60 | 18.00 | 14.40 | 10.80 | 7.20 | -  |

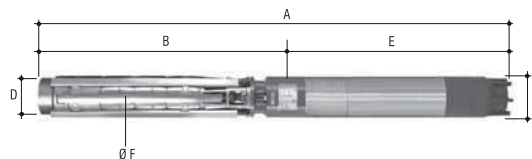
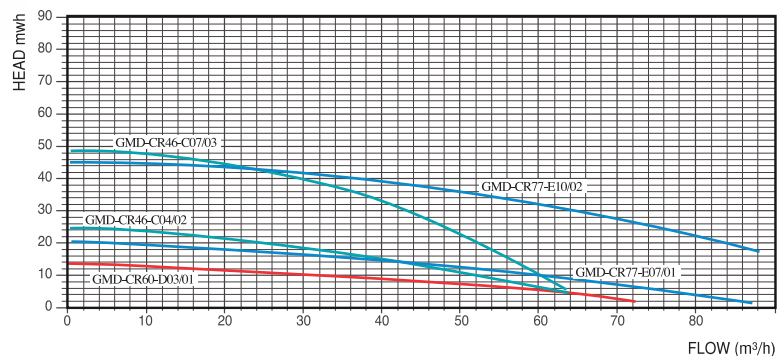
| PUMP TYPE        | MOTOR TYPE   | VOLTAGE (V) | DIMENSIONS (mm) |     |     |            |     |     |        | WEIGHT (Kg) |              |  |
|------------------|--------------|-------------|-----------------|-----|-----|------------|-----|-----|--------|-------------|--------------|--|
|                  |              |             | A               | B   | Ø C | D          | E   | Ø F | Pump   | Motor       | Total Weight |  |
| GMD-CR14-E2/05M  | G095MC/02-M  | 220         | 985             | 510 | 95  | 2" *11 diş | 475 | 96  | 6,000  | 14,000      | 20,000       |  |
| GMD-CR14-E2/05   | G095MC/02-T  | 380         | 955             | 510 | 95  | 2" *11 diş | 445 | 96  | 6,000  | 12,000      | 18,000       |  |
| GMD-CR17-A1,5/02 | G095MC/1,5-T | 380         | 839             | 414 | 95  | 3" *11 diş | 415 | 134 | 6,100  | 11,000      | 17,100       |  |
| GMD-CR30-B03/02  | G095MC/03-T  | 380         | 955             | 480 | 95  | 3" *11 diş | 475 | 135 | 6,600  | 15,000      | 21,600       |  |
| GMD-CR30-B04/03  | G 095MC/04-T | 380         | 1115            | 575 | 95  | 3" *11 diş | 540 | 135 | 8,700  | 18,000      | 26,400       |  |
| GMD-CR30-B05/04  | G 095MC/05-T | 380         | 1280            | 670 | 95  | 3" *11 diş | 610 | 135 | 10,800 | 20,000      | 30,800       |  |

## Submersible Pumps for Fountains



| Description                     | Code           | Pieces/box | Weight Kg     | Volume m <sup>3</sup> |
|---------------------------------|----------------|------------|---------------|-----------------------|
| • GMD-CR46-C04/02 - 4 HP Tri.   | <b>1631231</b> | 1          | <b>25,150</b> |                       |
| • GMD-CR60-D03/01 - 3 HP Tri.   | <b>1631241</b> | 1          | <b>53,500</b> |                       |
| • GMD-CR77-E07/01 - 7,5 HP Tri. | <b>1631251</b> | 1          | <b>21,200</b> |                       |
| • GMD-CR46-C07/03 - 7,5 HP Tri. | <b>1631232</b> | 1          | <b>61,000</b> |                       |
| • GMD-CR77-E10/02 - 10 HP Tri.  | <b>1631252</b> | 1          | <b>70,000</b> |                       |

PERFORMANCE CURVES



| PUMP TYPE       | STEP<br>NUMBER | MOTOR |     | AMP<br><br>II 220 V   III 380 V |       | HEAD mwh |       |       |       |       |       |       |       |       |       |       |    |  |
|-----------------|----------------|-------|-----|---------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|--|
|                 |                |       |     |                                 |       | 4        | 5     | 9     | 10    | 12    | 15    | 16    | 18    | 19    | 20    | 22    | 25 |  |
|                 |                | HP    | KW  | FLOW m³/h                       |       |          |       |       |       |       |       |       |       |       |       |       |    |  |
| GMD-CR46-C04/02 | 2              | 4     | 3   | -                               | 5,00  | -        | -     | 54,00 | 52,00 | 48,00 | 43,20 | 39,60 | 36,00 | 26,00 | 28,80 | 18,00 | -  |  |
| GMD-CR60-D03/01 | 1              | 3     | 2,2 | -                               | 5,80  | 64,80    | 61,20 | 46,80 | 43,20 | 18,00 | -     | -     | -     | -     | -     | -     | -  |  |
| GMD-CR77-E07/01 | 1              | 7.5   | 5.5 | -                               | 12,00 | -        | 79,20 | 68,40 | 62,00 | 61,20 | 54,00 | 36,00 | 24,00 | 18,00 | -     | -     | -  |  |

| PUMP TYPE       | STEP<br>NUMBER | MOTOR |     | AMP         |              | HEAD mwh  |       |       |       |       |       |       |       |    |  |
|-----------------|----------------|-------|-----|-------------|--------------|-----------|-------|-------|-------|-------|-------|-------|-------|----|--|
|                 |                |       |     |             |              | 17        | 24    | 27    | 30    | 33    | 36    | 40    | 45    | 48 |  |
|                 |                | HP    | KW  | II<br>220 V | III<br>380 V | FLOW m³/h |       |       |       |       |       |       |       |    |  |
|                 |                |       |     |             |              |           |       |       |       |       |       |       |       |    |  |
| GMD-CR46-C07/03 | 3              | 7.5   | 5.5 |             | 7.00         | 54.00     | 50.50 | 46.80 | 43.20 | 39.60 | 36.00 | 28.80 | 18.00 | -  |  |

| PUMP TYPE       | STEP NUMBER | MOTOR |     | AMP         |              | HEAD mwh  |       |       |       |       |       |       |       |       |    |
|-----------------|-------------|-------|-----|-------------|--------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|----|
|                 |             |       |     |             |              | 23        | 27    | 28    | 29    | 30    | 33    | 35    | 42    | 44    | 47 |
|                 |             | HP    | KW  | II<br>220 V | III<br>380 V | FLOW m³/h |       |       |       |       |       |       |       |       |    |
|                 |             |       |     |             |              |           |       |       |       |       |       |       |       |       |    |
| GMD-CR77-E10/02 | 2           | 10,00 | 7,5 |             | 18,00        | 79,20     | 72,00 | 68,40 | 64,80 | 61,20 | 57,60 | 54,00 | 36,00 | 18,00 | -  |

| PUMP TYPE       | MOTOR TYPE   | VOLTAGE (V) | DIMENSIONS (mm) |     |     |               |     |     | WEIGHT (Kg) |        |              |
|-----------------|--------------|-------------|-----------------|-----|-----|---------------|-----|-----|-------------|--------|--------------|
|                 |              |             | A               | B   | Ø C | D             | E   | Ø F | Pump        | Motor  | Total Weight |
| GMD-CR46-C04/02 | G 095MC/04   | 380         | 1049            | 509 | 95  | 3"-4" *11 diş | 540 | 145 | 8,650       | 16,500 | 25,150       |
| GMD-CR46-C07/03 | G 145MC/07   | 380         | 1190            | 620 | 145 | 3"-4" *11 diş | 570 | 145 | 11,500      | 42,000 | 53,500       |
| GMD-CR60-D03/01 | G0 95MC/03-T | 380         | 875             | 400 | 95  | 2"-4" *11 diş | 475 | 145 | 6,200       | 15,000 | 21,200       |
| GMD-CR77-E07/01 | G 145MC/07   | 380         | 1132            | 562 | 145 | 5" *11 diş    | 570 | 171 | 19,000      | 42,000 | 61,000       |
| GMD-CR77-E10/02 | G 145MC/10   | 380         | 1310            | 690 | 145 | 5" *11 diş    | 620 | 171 | 23,000      | 47,000 | 70,000       |

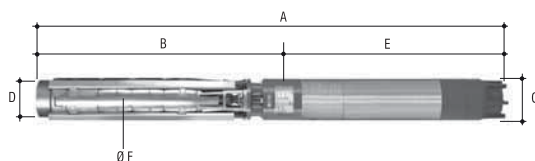
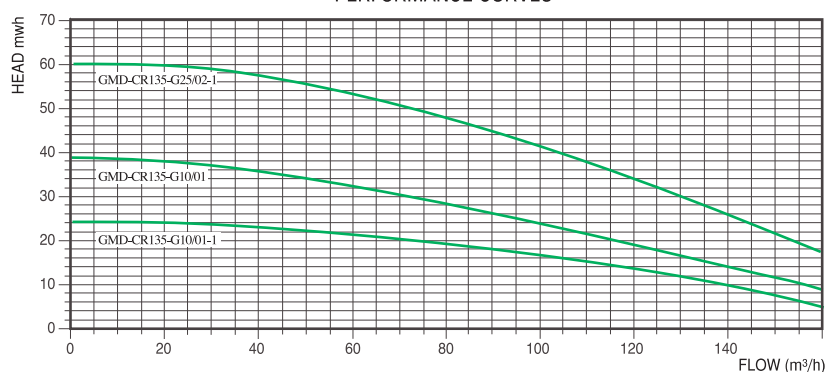


## Submersible Pumps for Fountains

| Description                      | Code           | Pieces/<br>box | Weight<br>Kg   | Volume<br>m <sup>3</sup> |
|----------------------------------|----------------|----------------|----------------|--------------------------|
| • GMD-CR135-G10/01-1 -10 HP Tri. | <b>1631261</b> | 1              | <b>78,000</b>  |                          |
| • GMD-CR135-G15/01-15 HP Tri.    | <b>1631262</b> | 1              | <b>89,000</b>  |                          |
| • GMD-CR135-G25/02-1 -25 HP Tri. | <b>1631263</b> | 1              | <b>114,000</b> |                          |



PERFORMANCE CURVES



| PUMP TYPE          | STEP<br>NUMBER | MOTOR |     | AMP         |              | HEAD mwh  |       |       |       |      |      |      |      |    |
|--------------------|----------------|-------|-----|-------------|--------------|-----------|-------|-------|-------|------|------|------|------|----|
|                    |                |       |     |             |              | 7         | 8     | 13    | 16    | 17   | 18   | 19   | 23   | 24 |
|                    |                | HP    | KW  | II<br>220 V | III<br>380 V | FLOW m³/h |       |       |       |      |      |      |      |    |
| GMD-CR135-G10/01-1 | 1              | 10    | 7.5 |             | 16.00        | 151.2     | 144.0 | 126.0 | 108.0 | 90.0 | 72.0 | 54.0 | 36.0 | -  |

| PUMP TYPE        | STEP<br>NUMBER | MOTOR |    | AMP         |              | HEAD mwh  |       |       |       |      |      |      |      |    |
|------------------|----------------|-------|----|-------------|--------------|-----------|-------|-------|-------|------|------|------|------|----|
|                  |                |       |    |             |              | 11        | 17    | 20    | 22    | 24   | 27   | 28   | 36   | 39 |
|                  |                | HP    | KW | II<br>220 V | III<br>380 V | FLOW m³/h |       |       |       |      |      |      |      |    |
| GMD-CR135-G10/01 | 1              | 15    | 11 |             | 23.50        | 151.2     | 144.0 | 126.0 | 108.0 | 90.0 | 72.0 | 54.0 | 36.0 | -  |

| PUMP TYPE          | STEP<br>NUMBER | MOTOR |      | AMP<br><br>II 220 V   III 380 V |    | HEAD mwh |       |       |       |      |      |      |      |    |
|--------------------|----------------|-------|------|---------------------------------|----|----------|-------|-------|-------|------|------|------|------|----|
|                    |                |       |      |                                 |    | 21       | 26    | 32    | 39    | 43   | 47   | 50   | 58   | 59 |
|                    |                | HP    | KW   | FLOW m³/h                       |    |          |       |       |       |      |      |      |      |    |
| GMD-CR135-G25/02-1 | 2              | 25    | 18.5 |                                 | 40 | 151.2    | 144.0 | 126.0 | 108.0 | 90.0 | 72.0 | 54.0 | 36.0 | -  |

| PUMP TYPE          | MOTOR<br>TYPE | VOLTAGE<br>(V) | DIMENSIONS (mm) |     |     |            |     |     | WEIGHT (Kg) |        |              |
|--------------------|---------------|----------------|-----------------|-----|-----|------------|-----|-----|-------------|--------|--------------|
|                    |               |                | A               | B   | Ø C | D          | E   | Ø F | Pump        | Motor  | Total Weight |
| GMD-CR135-G10/01-1 | G 145MC/10    | 380            | 1286            | 666 | 145 | 6" *11 dis | 620 | 210 | 31,000      | 47,000 | 78,000       |
| GMD-CR135-G15/01   | G 145MC/15    | 380            | 1366            | 666 | 145 | 6" *11 dis | 700 | 210 | 31,000      | 58,000 | 89,000       |
| GMD-CR135-G25/02-1 | G 145MC/25    | 380            | 1692            | 822 | 145 | 6" *11 dis | 870 | 210 | 38,000      | 76,000 | 114,000      |

## Plastic Body-Footed or Staked-Underwater/Landscape Lights



### “Spot 14” Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or stake type. 120° - IP68. **The product is patented.**

| Description                        | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------|-----------------|------------|-----------|-----------------------|
| • 72 LED White - Footed - 24 W     | <b>1651140</b>  | 1          |           |                       |
| • 72 LED Daylight - Footed - 24 W  | <b>1651141</b>  | 1          |           |                       |
| • 72 LED Turquoise - Footed - 20 W | <b>1651142</b>  | 1          |           |                       |
| • 72 LED Blue - Footed - 20 W      | <b>1651145</b>  | 1          |           |                       |
| • 72 LED Red - Footed - 20 W       | <b>1651144</b>  | 1          |           |                       |
| • 72 LED Green - Footed - 20 W     | <b>1651143</b>  | 1          |           |                       |
| • 72 LED White - Staked - 24 W     | <b>1651140K</b> | 1          |           |                       |
| • 72 LED Daylight - Staked - 24 W  | <b>1651141K</b> | 1          |           |                       |
| • 72 LED Turquoise - Staked - 20 W | <b>1651142K</b> | 1          |           |                       |
| • 72 LED Blue - Staked - 20 W      | <b>1651143K</b> | 1          |           |                       |
| • 72 LED Red - Staked - 20 W       | <b>1651144K</b> | 1          |           |                       |
| • 72 LED Green - Staked - 20 W     | <b>1651145K</b> | 1          |           |                       |

### “Spot 14” Fountain Underwater Light, RGB Color

Designed for fountains and landscape lighting. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On-Off or remote control. 120° - IP68. **The product is patented.**

| Description                                      | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - Footed - 20 W  | <b>1651150</b>  | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Footed - 20 W | <b>1651151</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - Staked - 20 W  | <b>1651150K</b> | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Staked - 20 W | <b>1651151K</b> | 1          |           |                       |

## St. Steel Body-Footed or Staked-Underwater/Landscape Lights

### “Spot 14” Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. 120° - IP68. **The product is patented.**

| Description                        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|------------------------------------|------------------|----------------|--------------|--------------------------|
| • 72 LED White - Footed - 24 W     | <b>1651140S</b>  | 1              |              |                          |
| • 72 LED Daylight - Footed - 24 W  | <b>1651141S</b>  | 1              |              |                          |
| • 72 LED Turquoise - Footed - 20 W | <b>1651142S</b>  | 1              |              |                          |
| • 72 LED Blue - Footed - 20 W      | <b>1651143S</b>  | 1              |              |                          |
| • 72 LED Red - Footed - 20 W       | <b>1651144S</b>  | 1              |              |                          |
| • 72 LED Green - Footed - 20 W     | <b>1651145S</b>  | 1              |              |                          |
| • 72 LED White - Staked - 24 W     | <b>1651140KS</b> | 1              |              |                          |
| • 72 LED Daylight - Staked - 24 W  | <b>1651141KS</b> | 1              |              |                          |
| • 72 LED Turquoise - Staked - 20 W | <b>1651142KS</b> | 1              |              |                          |
| • 72 LED Blue - Staked - 20 W      | <b>1651143KS</b> | 1              |              |                          |
| • 72 LED Red - Staked - 20 W       | <b>1651144KS</b> | 1              |              |                          |
| • 72 LED Green - Staked - 20 W     | <b>1651145KS</b> | 1              |              |                          |

**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.

### “Spot 14” Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On-Off or remote control. 120° - IP68. **The product is patented.**

| Description                                     | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|-------------------------------------------------|------------------|----------------|--------------|--------------------------|
| • 72 LED RGB - Built-in - Footed - 20 W         | <b>1651150S</b>  | 1              |              |                          |
| • 72 LED RGB - Central Integrated-Footed - 20 W | <b>1651151S</b>  | 1              |              |                          |
| • 72 LED RGB - Built-in - Staked - 20 W         | <b>1651150KS</b> | 1              |              |                          |
| • 72 LED RGB - Central Integrated-Staked - 20 W | <b>1651151KS</b> | 1              |              |                          |

**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.



## Plastic Body-Footed or Staked-Underwater/Landscape Lights



### “Spot 10” Underwater Ornamental Light, Single Color

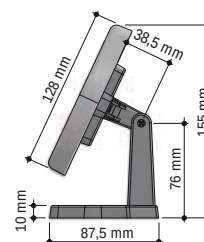
Designed for fountains and landscape lighting. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or stake type. 120° - IP68. **The product is patented.**

| Description                       | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|-----------------|------------|-----------|-----------------------|
| • 72 LED White - Footed - 11 W    | <b>1651160</b>  | 1          |           |                       |
| • 72 LED Daylight - Footed - 11 W | <b>1651161</b>  | 1          |           |                       |
| • 72 LED Turquoise - Footed - 8 W | <b>1651162</b>  | 1          |           |                       |
| • 72 LED Blue - Footed - 8 W      | <b>1651163</b>  | 1          |           |                       |
| • 72 LED Red - Footed - 8 W       | <b>1651164</b>  | 1          |           |                       |
| • 72 LED Green - Footed - 8 W     | <b>1651165</b>  | 1          |           |                       |
| • 72 LED White - Staked - 11 W    | <b>1651160K</b> | 1          |           |                       |
| • 72 LED Daylight - Staked - 11 W | <b>1651161K</b> | 1          |           |                       |
| • 72 LED Turquoise - Staked - 8 W | <b>1651162K</b> | 1          |           |                       |
| • 72 LED Blue - Staked - 8 W      | <b>1651163K</b> | 1          |           |                       |
| • 72 LED Red - Staked - 8 W       | <b>1651164K</b> | 1          |           |                       |
| • 72 LED Green - Staked - 8 W     | <b>1651165K</b> | 1          |           |                       |

### “Spot 10” Fountain Underwater Light, RGB Color

Designed for fountains and landscape lighting. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On-Off or remote control. 120° - IP68. **The product is patented.**

| Description                                     | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - Footed - 8 W  | <b>1651170</b>  | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Footed - 8 W | <b>1651171</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - Staked - 8 W  | <b>1651170K</b> | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Staked - 8 W | <b>1651171K</b> | 1          |           |                       |





## St. Steel Body-Footed or Staked-Underwater/Landscape Lights

### “Spot 10” Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. 120° - IP68. **The product is patented.**

| Description                       | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED White - Footed - 11 W    | <b>1651160S</b>  | 1          |           |                       |
| • 72 LED Daylight - Footed - 11 W | <b>1651161S</b>  | 1          |           |                       |
| • 72 LED Turquoise - Footed - 8 W | <b>1651162S</b>  | 1          |           |                       |
| • 72 LED Blue - Footed - 8 W      | <b>1651163S</b>  | 1          |           |                       |
| • 72 LED Red - Footed - 8 W       | <b>1651164S</b>  | 1          |           |                       |
| • 72 LED Green - Footed - 8 W     | <b>1651165S</b>  | 1          |           |                       |
| • 72 LED White - Staked - 11 W    | <b>1651160KS</b> | 1          |           |                       |
| • 72 LED Daylight - Staked - 11 W | <b>1651161KS</b> | 1          |           |                       |
| • 72 LED Turquoise - Staked - 8 W | <b>1651162KS</b> | 1          |           |                       |
| • 72 LED Blue - Staked - 8 W      | <b>1651163KS</b> | 1          |           |                       |
| • 72 LED Red - Staked - 8 W       | <b>1651164KS</b> | 1          |           |                       |
| • 72 LED Green - Staked - 8 W     | <b>1651165KS</b> | 1          |           |                       |

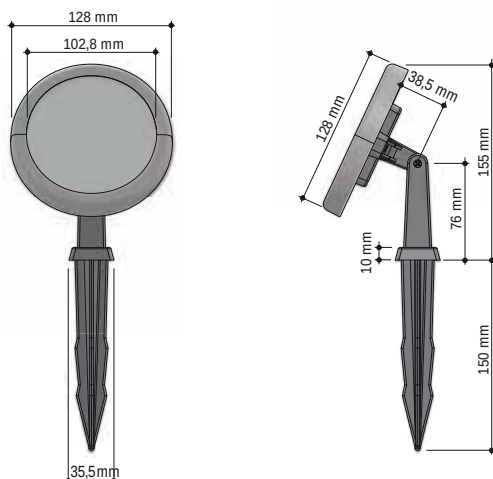
**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.

### “Spot 10” Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On-Off or remote control. 120° - IP68. **The product is patented.**

| Description                                     | Code             | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|------------------|------------|-----------|-----------------------|
| • 72 LED RGB - Built-in Control - Footed - 8 W  | <b>1651170S</b>  | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Footed - 8 W | <b>1651171S</b>  | 1          |           |                       |
| • 72 LED RGB - Built-in Control - Staked - 8 W  | <b>1651170KS</b> | 1          |           |                       |
| • 72 LED RGB - Centrally Control - Staked - 8 W | <b>1651171KS</b> | 1          |           |                       |

**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.



## Plastic Body-Footed or Staked-Underwater/Landscape Lights

### “Spot 11” Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. 36 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. 120° - IP68. **The product is patented.**

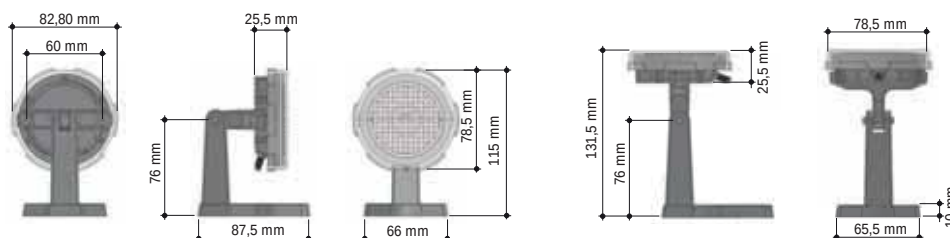


| Description                       | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|-----------------|------------|-----------|-----------------------|
| • 36 LED White - Footed - 7 W     | <b>1651180</b>  | 1          |           |                       |
| • 36 LED Daylight - Footed - 7 W  | <b>1651181</b>  | 1          |           |                       |
| • 36 LED Turquoise - Footed - 5 W | <b>1651182</b>  | 1          |           |                       |
| • 36 LED Blue - Footed - 5 W      | <b>1651183</b>  | 1          |           |                       |
| • 36 LED Red - Footed - 5 W       | <b>1651184</b>  | 1          |           |                       |
| • 36 LED Green - Footed - 5 W     | <b>1651185</b>  | 1          |           |                       |
| • 36 LED White - Staked - 7 W     | <b>1651180K</b> | 1          |           |                       |
| • 36 LED Daylight - Staked - 7 W  | <b>1651181K</b> | 1          |           |                       |
| • 36 LED Turquoise - Staked - 5 W | <b>1651182K</b> | 1          |           |                       |
| • 36 LED Blue - Staked - 5 W      | <b>1651183K</b> | 1          |           |                       |
| • 36 LED Red - Staked - 5 W       | <b>1651184K</b> | 1          |           |                       |
| • 36 LED Green - Staked - 5 W     | <b>1651185K</b> | 1          |           |                       |

### “Spot 11” Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. 36 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On- Off or remote control. 120° - IP68. **The product is patented.**

| Description                                     | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|-----------------|------------|-----------|-----------------------|
| • 36 LED RGB - Built-in Control - Footed - 5 W  | <b>1651190</b>  | 1          |           |                       |
| • 36 LED RGB - Centrally Control - Footed - 5 W | <b>1651191</b>  | 1          |           |                       |
| • 36 LED RGB - Built-in Control - Staked - 5 W  | <b>1651190K</b> | 1          |           |                       |
| • 36 LED RGB - Centrally Control - Staked - 5 W | <b>1651191K</b> | 1          |           |                       |



## St. Steel Body-Footed or Staked-Underwater/Landscape Lights

### “Spot 11” Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 36 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. 120° - IP68. **The product is patented.**

| Description                       | Code             | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------|------------------|-------------|-----------|-----------------------|
| • 36 LED White - Footed - 7 W     | <b>1651180S</b>  | 1           |           |                       |
| • 36 LED Daylight - Footed - 7 W  | <b>1651181S</b>  | 1           |           |                       |
| • 36 LED Turquoise - Footed - 5 W | <b>1651182S</b>  | 1           |           |                       |
| • 36 LED Blue - Footed - 5 W      | <b>1651183S</b>  | 1           |           |                       |
| • 36 LED Red - Footed - 5 W       | <b>1651184S</b>  | 1           |           |                       |
| • 36 LED Green - Footed - 5 W     | <b>1651185S</b>  | 1           |           |                       |
| • 36 LED White - Staked - 7 W     | <b>1651180KS</b> | 1           |           |                       |
| • 36 LED Daylight - Staked - 7 W  | <b>1651181KS</b> | 1           |           |                       |
| • 36 LED Turquoise - Staked - 5 W | <b>1651182KS</b> | 1           |           |                       |
| • 36 LED Blue - Staked - 5 W      | <b>1651183KS</b> | 1           |           |                       |
| • 36 LED Red - Staked - 5 W       | <b>1651184KS</b> | 1           |           |                       |
| • 36 LED Green - Staked - 5 W     | <b>1651185KS</b> | 1           |           |                       |

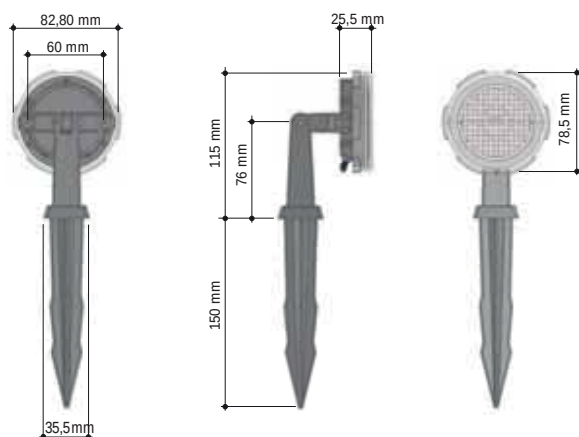
**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.

### “Spot 11” Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. Stainless steel frame. AISI 304 quality. 36 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or Staked type. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On-Off or remote control. 120° - IP68. **The product is patented.**

| Description                                     | Code             | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------------------------------|------------------|-------------|-----------|-----------------------|
| • 36 LED RGB - Built-in Control - Footed - 5 W  | <b>1651190S</b>  | 1           |           |                       |
| • 36 LED RGB - Centrally Control - Footed - 5 W | <b>1651191S</b>  | 1           |           |                       |
| • 36 LED RGB - Built-in Control - Staked - 5 W  | <b>1651190KS</b> | 1           |           |                       |
| • 36 LED RGB - Centrally Control - Staked - 5 W | <b>1651191KS</b> | 1           |           |                       |

**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.



## St. Steel Body - St. Steel Footed Underwater Lights



Stainless Steel Foot

### "SPOT 12" Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. Stainless steel lamp body with 3 Power LEDs; It is complete with 1.0 m long 2 x 0.75 cable. Light beam angle is 30°. The lamp complies with IP68 degree of protection at a nominal depth of 2 m.

| Description                             | Code           | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------|----------------|------------|-----------|-----------|
| • 3 Power LED White - AISI 304 - 9 W    | <b>16631SF</b> | 1          |           |           |
| • 3 Power LED Daylight - AISI 304 - 9 W | <b>16633SF</b> | 1          |           |           |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** For models with plastic foot, add "PF" next to the existing code i.e. 16631PF

**Ps:** For models with spike, add "K" next to the existing code i.e. 16631K



"SPOT 12" with Plastic Foot

### "SPOT 12" Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. Stainless steel lamp body with 3 Power LEDs; It is complete with 1.0 m long 2 x 0.75 cable. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Light beam angle is 30°. The lamp complies with IP68 degree of protection at a nominal depth of 2 m.

| Description                                            | Code           | Pieces/box | Weight Kg |
|--------------------------------------------------------|----------------|------------|-----------|
| • 3 Power LED RGB - Built-in Control - AISI 304 - 6 W  | <b>16635SF</b> | 1          |           |
| • 3 Power LED RGB - Centrally Control - AISI 304 - 6 W | <b>16636SF</b> | 1          |           |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** For models with plastic foot, add "PF" next to the existing code i.e. 16635PF

**Ps:** For models with spike, add "K" next to the existing code i.e. 16635K



"SPOT 12" with Spike

### "SPOT 12" Underwater Ornamental Light Feet

| Description                                        | Code           | Pieces/box | Weight Kg | Volume m³ |
|----------------------------------------------------|----------------|------------|-----------|-----------|
| • AISI 304 Quality Lamp Foot + Body Connection Set | <b>1663003</b> | 1          |           |           |
| • AISI 316 Quality Lamp Foot + Body Connection Set | <b>1663002</b> | 1          |           |           |



## St. Steel Body - St. Steel Footed Underwater Lights

### "SPOT 13" Underwater Ornamental Light, Single Color

Designed for fountains and landscape lighting. Stainless steel lamp body with 6 Power LEDs; It is complete with 1.0 m long 2 x 0.75 cable. Light beam angle is 30°. The lamp complies with IP68 degree of protection at a nominal depth of 2 m.

| Description                              | Code           | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|------------------------------------------|----------------|----------------|--------------|--------------|
| • 6 Power LED White - AISI 304 - 15 W    | <b>16651SF</b> | 1              |              |              |
| • 6 Power LED Daylight - AISI 304 - 15 W | <b>16653SF</b> | 1              |              |              |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** For models with plastic foot, add "PF" next to the existing code i.e. 16651PF

**Ps:** For models with spike, add "K" next to the existing code i.e. 16651K



Stainless Steel Foot

### "SPOT 13" Underwater Ornamental Light, RGB Color

Designed for fountains and landscape lighting. Stainless steel lamp body with 6 Power LEDs; It is complete with 1.0 m long 2 x 0.75 cable. RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Light beam angle is 30°. The lamp complies with IP68 degree of protection at a nominal depth of 2 m.

| Description                                             | Code           | Pieces/<br>box | Weight<br>Kg |
|---------------------------------------------------------|----------------|----------------|--------------|
| • 6 Power LED RGB - Built-in Control - AISI 304 - 13 W  | <b>16655SF</b> | 1              |              |
| • 6 Power LED RGB - Centrally Control - AISI 304 - 13 W | <b>16656SF</b> | 1              |              |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** For models with plastic foot, add "PF" next to the existing code i.e. 16655PF

**Ps:** For models with spike, add "K" next to the existing code i.e. 16655K



"SPOT 13" with Plastic Foot

### "SPOT 13" Underwater Ornamental Light Feets

| Description                                        | Code             | Pieces/<br>box | Weight<br>Kg | Volume<br>m³ |
|----------------------------------------------------|------------------|----------------|--------------|--------------|
| • AISI 304 Quality Lamp Foot + Body Connection Set | <b>1665002</b>   | 1              |              |              |
| • AISI 316 Quality Lamp Foot + Body Connection Set | <b>1665002SS</b> | 1              |              |              |

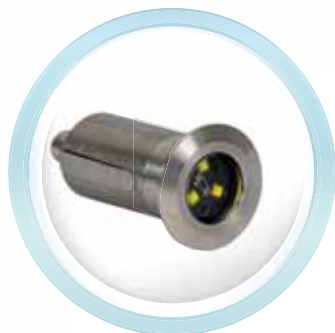


"SPOT 13" with Spike

## Massive Stainless Steel Body - Underwater Lights

### Underwater Light Stainless Steel Body Single Color

Made of AISI 304 quality stainless steel. Pipe type. Complete with special transparent resin filled, epoxy PCB and 1 m long 2 x 1.5 cable. The light is mounted inside a 32 mm, 40mm, 50 mm or 63 mm PN10 pipe with a tight fit. 2 years sealing guarantee. "01" should be added next to AISI 316 Stainless Steel codes. Prices should be considered with a 20% increase.



| Description                                | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|--------------|------------|-----------|-----------------------|
| <b>Microchrome for Ø32 mm pipe housing</b> |              |            |           |                       |
| • 3 LED White - 4 W                        | <b>16670</b> | 1          |           |                       |
| • 3 LED Daylight - 4 W                     | <b>16671</b> | 1          |           |                       |

#### Mini Chrome for Ø40 mm pipe housing

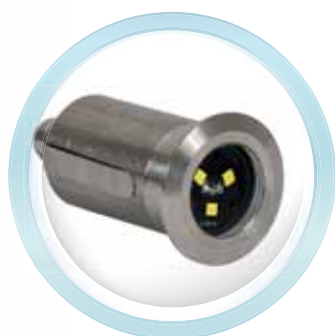
|                        |              |   |  |  |
|------------------------|--------------|---|--|--|
| • 3 LED White - 4 W    | <b>16680</b> | 1 |  |  |
| • 3 LED Daylight - 4 W | <b>16681</b> | 1 |  |  |

#### Midi Chrome for Ø50 mm pipe housing

|                        |              |   |  |  |
|------------------------|--------------|---|--|--|
| • 6 LED White - 6 W    | <b>16690</b> | 1 |  |  |
| • 6 LED Daylight - 6 W | <b>16691</b> | 1 |  |  |

#### Maxi Chrome for Ø63 mm pipe housing

|                        |              |   |  |  |
|------------------------|--------------|---|--|--|
| • 6 LED White - 6 W    | <b>16760</b> | 1 |  |  |
| • 6 LED Daylight - 6 W | <b>16761</b> | 1 |  |  |



### Underwater Light Stainless Steel Body RGB

RGB 13 different light patterns for built-in models, RGB 16 light patterns for central integrated models. Switch from program to program with On- Off or remote control.

| Description                                | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|--------------|------------|-----------|-----------------------|
| <b>Microchrome for Ø32 mm pipe housing</b> |              |            |           |                       |
| • 3 LED RGB - Centrally Control - 4 W      | <b>16677</b> | 1          |           |                       |
|                                            |              | 1          |           |                       |

#### Mini Chrome for Ø40 mm pipe housing

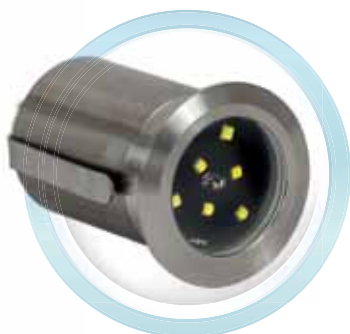
|                                       |              |   |  |  |
|---------------------------------------|--------------|---|--|--|
| • 3 LED RGB - Built-in Control - 4 W  | <b>16686</b> | 1 |  |  |
| • 3 LED RGB - Centrally Control - 4 W | <b>16687</b> | 1 |  |  |

#### Midi Chrome for Ø50 mm pipe housing

|                                       |              |   |  |  |
|---------------------------------------|--------------|---|--|--|
| • 6 LED RGB - Built-in Control - 6 W  | <b>16696</b> | 1 |  |  |
| • 6 LED RGB - Centrally Control - 6 W | <b>16697</b> | 1 |  |  |

#### Maxi Chrome for Ø63 mm pipe housing

|                                       |              |   |  |  |
|---------------------------------------|--------------|---|--|--|
| • 6 LED RGB - Built-in Control - 6 W  | <b>16766</b> | 1 |  |  |
| • 6 LED RGB - Centrally Control - 6 W | <b>16767</b> | 1 |  |  |



## Plastic Body - Footed Underwater Lights

### “SPOT 02”

50 W/12 V refractory exclusive plastic body, footed fountain light.

| Description                           | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|---------------------------------------|---------------|----------------|--------------|--------------------------|
| • Single Cable Union. Outlet at back. | <b>05022</b>  | 4              |              |                          |
| • Ditto, Stainless Steel Frame        | <b>05022C</b> | 4              |              |                          |



### “SPOT 02”

Spot 02 with 36 SMD RGB LED bulb, plastic body, footed fountain light. Central PCB.

| Description                                | Code          | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|--------------------------------------------|---------------|----------------|--------------|--------------------------|
| • 36 SMD LED White - 7 W                   | <b>160220</b> | 4              |              |                          |
| • 36 SMD LED Daylight - 7 W                | <b>160223</b> | 4              |              |                          |
| • 36 SMD LED RGB - Centrally Control - 6 W | <b>160221</b> | 4              |              |                          |
| • 36 SMD LED RGB - Built-in Control - 6 W  | <b>160222</b> | 4              |              |                          |



**Ps:** Regarding control panel and other options of RGB LED fountain lights, please see Section 5; "Mini LED Bulbs"

**Ps:** If 316 Stainless Steel Frame of the above lamps is requested, the code "C" should be added next to the existing code.

## Stainless Steel Body - Footed Underwater Lights



**"SPOT 06"** Rainbow RGB Power LED bulb, AISI 304 quality stainless steel body, plastic footed fountain light. **Single cable union.** Outlet at back. Central control. With 1 m Cable.

| Description                                  | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------|--------------|------------|-----------|-----------------------|
| • Rainbow 6, 6 Power LED - Built-in Control  | <b>16427</b> | 1          |           |                       |
| • Rainbow 6, 6 Power LED - Centrally Control | <b>16428</b> | 1          |           |                       |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** Please ask code and price for single color white or daylight.



**"SPOT 07"** Rainbow RGB Power LED bulb, AISI 304 quality stainless steel body, plastic footed fountain light. Single cable union. Outlet at back. With 1 m Cable.

| Description                                    | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|------------------------------------------------|---------------|------------|-----------|-----------------------|
| • Rainbow 9, 9 Power LED - Built-in Control    | <b>16457</b>  | 1          |           |                       |
| • Rainbow 9, 9 Power LED - Centrally Control   | <b>16458</b>  | 1          |           |                       |
| • Rainbow 18, 18 Power LED - Built-in Control  | <b>164367</b> | 1          |           |                       |
| • Rainbow 18, 18 Power LED - Centrally Control | <b>164368</b> |            |           |                       |
| • Rainbow 27, 27 Power LED - Built-in Control  | <b>16467</b>  |            |           |                       |
| • Rainbow 27, 27 Power LED - Centrally Control | <b>16468</b>  |            |           |                       |
| Stainless Steel Foot is Optional               |               |            |           |                       |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** Please ask code and price for single color white or daylight.

## Stainless Steel Body - Underwater Lights with Fountain Nozzles



**"SPOT 05"** Underwater light to be coupled with fountain nozzles. 304 quality stainless steel body and single union. 15° light angle with Power LED. Different Adaptors are used for different size nozzles (for exp. 1", 1,5", 2"). For this reason nozzles diameter should be mentioned during the order. (Nozzles are NOT included to the price). 13 different light models are available. With 1 m Cable.

| Description                      | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|---------------|------------|-----------|-----------------------|
| • 18 Power LED-Built-in Control  | <b>165327</b> | 1          |           |                       |
| • 18 Power LED-Centrally Control | <b>165328</b> | 1          |           |                       |

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

**Ps:** Please ask code and price for single color white or daylight.



**"SPOT 06-K"** Underwater light coupled with Finger fountain nozzle. 304 quality stainless steel body and single union. Nozzle (Ø10 mm) bottom connection is with swivel system and regulation valve (1"). 15° light angle with Power LED. 13 different light models are available and are controled by a Central Control Panel. With 1 m Cable.

| Description                          | Code            | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------|-----------------|------------|-----------|-----------------------|
| • 6 Power LED, 1"- Built-in Control  | <b>16432F17</b> | 1          |           |                       |
| • 6 Power LED, 1"- Centrally Control | <b>16432F18</b> | 1          |           |                       |
| • 9 Power LED, 1"- Built-in Control  | <b>16432F27</b> | 1          |           |                       |
| • 9 Power LED, 1"- Centrally Control | <b>16432F28</b> | 1          |           |                       |

**Ps:** 1- Regarding control panel and other options of RGB LED fountain light, please have a look at relevant section to "RGB LED Bulbs Control Panels"

2- All the lights mentioned above can be 1,5 and 2 m cable length. Please ask price.

**Ps:** Please ask code and price for single color white or daylight.

**Ps:** If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.



## Stainless Steel Body - Underwater Lights for Fountains

### “SPOT 09-K”

Underwater light combined with fountain nozzles. 304 quality stainless steel body and single union. Also nozzle (Ø10 mm) bottom connection is with swivel system and regulation valve (0,5 or 1”). 15° light angle with Power LED. 13 different light models are available. With 1 m cable.

| Description                                         | Code            | Pieces/box | Weight Kg | Volume m³ |
|-----------------------------------------------------|-----------------|------------|-----------|-----------|
| • 9 Power LED, With 1” Fountain - Built-in Control  | <b>16433F27</b> | 1          |           |           |
| • 9 Power LED, With 1” Fountain - Centrally Control | <b>16433F28</b> | 1          |           |           |

**Ps:** 1- Regarding control panel and other options of RGB LED fountain light, please have a look at relevant section to “RGB LED Bulbs Control Panels”

2- All the lights mentioned above can be 1,5 and 2 m cable length. Please ask price.

**Ps:** Please ask code and price for single color white or daylight.

**Ps:** If AISI 316 of the above lamps is requested, the code “01” should be added next to the existing code. Prices should be considered with a 20% increase.



## Stainless Steel Pool Light Foots

Adjustable for all type stainless steel body underwater lights.

| Description | Code             | Pieces/box | Weight Kg | Volume m³ |
|-------------|------------------|------------|-----------|-----------|
| • Single    | <b>16431Y015</b> | 1          |           |           |
| • Double    | <b>16431Y025</b> | 1          |           |           |



## Dry Pool Systems

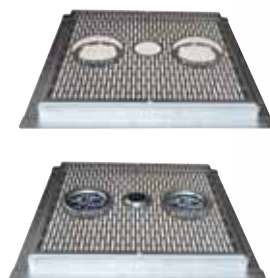
Dry surface fountain designed on a bunker walking floor grade made out concrete or polyester and dimensions light combinations 304 quality stainless steel. Dismountable cover and frame. Light housings are designed for SPOT 6 . Fountain port is for fountains max. 2”. Different designs can be done according to demand.

| Description    | Code            | Pieces/box | Weight Kg | Volume m³ |
|----------------|-----------------|------------|-----------|-----------|
| • 300 x 300 mm | <b>16433DF1</b> | 1          |           |           |
| • 400 x 400 mm | <b>16433DF2</b> | 1          |           |           |
| • 500 x 500 mm | <b>16433DF3</b> | 1          |           |           |

**Ps:** 1- Regarding control panel and other options of RGB LED fountain light, please have a look at relevant section (5th) to “RGB LED Bulbs Control Panels”

2- All the lights mentioned above can be produced “Double Union” according to demand. And can be connected serial.

3- All the lights mentioned above can be 1,5 and 2 m cable length. Please ask price.



# POOL FINISH POOLS



17

Concrete and Liner Pools &  
Pool Building Materials

349



## Skimmer Liner Pool Ladders

**GEMAS Embedded Liner Pool Ladder.** Made of FR polyester and reinforced with wood. Complete with Connection Flange and PVC concealing flange. Anti-slip steps.



17401

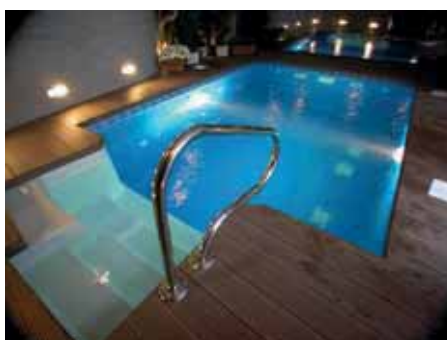


17402



17403

| Description                                                                                            | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------------------------------------------------------------------|--------------|------------|-----------|-----------------------|
| • l: 227 cm w: 152 cm h: 151,5 cm<br>For oval pools. Massage or counter current system can be mounted. | <b>17401</b> | 1          |           |                       |
| • l: 184 cm w: 106 cm h: 104,5 cm<br>For rectangular pools.                                            | <b>17402</b> | 1          |           |                       |
| • Ladder with massage chair<br>l: 184 cm w: 106 cm h: 104,5 cm                                         | <b>17403</b> | 1          |           |                       |



- 2 x Massage Station
- 1 x Counter current



- Ladder with massage chair
- Composite Deck

## PVC Liner Repair Kit

**Liner Repair Kit.** 30 ml. Can be used for underwater repairs.



| Description | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------|--------------|------------|-----------|-----------------------|
|             | <b>17211</b> |            | 0,116     |                       |

## In-Pool Insulation Materials

**GEMAS In-Pool Isolation Material.** Used for leak proofing in swimming pools and fountains. Fully elastic, UV filtered, cement added, two-compound waterproofing.

| Description                                        | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------------------|--------------|------------|-----------|-----------------------|
| • Gemas PL207, 10 kg Liquid + 20 kg Powder - Gray  | <b>17310</b> | 1          | 30,000    |                       |
| • Gemas PL207, 10 kg Liquid + 20 kg Powder - White | <b>17311</b> | 1          | 30,000    |                       |



**GEMAS Joint Tape and Adhesive.** Used for closing static capillary cracks and joins between the pool wall and floor. Tape size 0.20 x 100 m. Prices are per roll. Adhesive average consumption 1.65 - 2.75 kg/m<sup>2</sup>

| Description                      | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------|--------------|------------|-----------|-----------------------|
| • Gemas Joint Tape               | <b>17312</b> | 4          |           |                       |
| • Gemas PL05N-01 Adhesive, 10 kg | <b>17313</b> | 1          | 10,000    |                       |
| • Gemas PL05N-01 Adhesive, 20 kg | <b>17314</b> | 1          | 20,000    |                       |

**GEMAS Concrete Waterproofing Primer.** Used as primer before painting on reinforced concrete and screed. Average consumption is 8000 - 1000 gr/m<sup>2</sup>.

| Description                             | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-----------------------------------------|--------------|------------|-----------|-----------------------|
| Gemas PL302, 20 kg Liquid + 6 kg Powder | <b>17315</b> | 1          | 26,000    |                       |

**GEMAS Shock Water Breaker Concrete Admixture.** Used for stopping pressurized water leaking. Consumption changes according to the surface condition, application thickness, loss such as spillage and cavity filling against water leaks. It is recommended to make trial mixes for optimum mixing ratio, workability and setting time. For wet system shotcrete, it is recommended to use between 3% and 6% of the weight of the binder for 20 cm thick layers.

| Description        | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------|--------------|------------|-----------|-----------------------|
| • Gemas BK03, 1 kg | <b>17316</b> | 1          | 1,000     |                       |
| • Gemas BK03, 5 kg | <b>17317</b> | 1          | 5,000     |                       |

**GEMAS Pool Paint.** Used in natural swimming pools, fountains, thermal pools (up to max. 70° temperatures), fish breeding pools, drinking water tanks, ponds, dams, water channels, water tanks. Consumption varies according to surface condition, application thickness, spillage and void conditions. 200 gr/m<sup>2</sup> on the first floor, 200 gr/m<sup>2</sup> on the second floor. On reinforced concrete surfaces, waterproofing is applied after the primer coat.

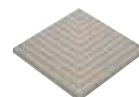
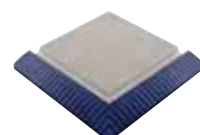
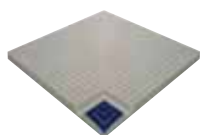
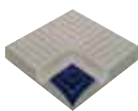
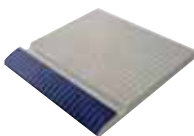
| Description             | Code         | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|-------------------------|--------------|------------|-----------|-----------------------|
| Gemas Pool Paint, 20 kg | <b>17318</b> | 1          | 20,000    |                       |

## Pool Paints



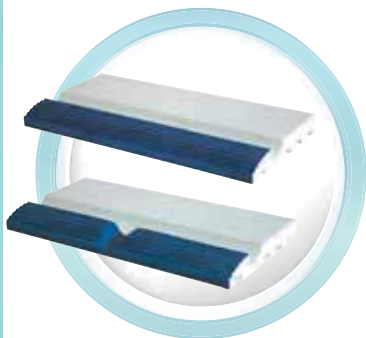


## Porcelain Pool Handle and Antislip

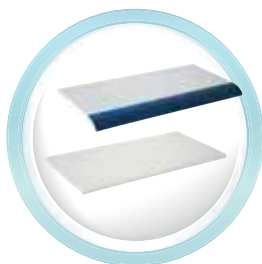


| Description                                 | Code           | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|---------------------------------------------|----------------|------------|-----------|-----------------------|
| • 12,2 x 24,5 x 2 cm Handle                 | <b>1711AP</b>  |            |           |                       |
| • 12,2 x 24,5 x 0,9 cm Antislip             | <b>1712AP</b>  |            |           |                       |
| • 24,5 x 24,5 x 2 cm Square Handle          | <b>1714P</b>   |            |           |                       |
| • 12 x 12 cm Handle Internal Corner         | <b>1711CI1</b> |            |           |                       |
| • 24,5 x 24,5 cm Square Handle              | <b>17141</b>   |            |           |                       |
| • 24,5 x 24,5 cm Handle Internal Corner     | <b>1714CI1</b> |            |           |                       |
| • 12 x 12 x 0,9 cm Antislip Internal Corner | <b>1711C01</b> |            |           |                       |
| • 12 x 12 cm Handle External Corner         | <b>1714</b>    |            |           |                       |
| • 24,5 x 24,5 cm Handle External Corner     | <b>1714C01</b> |            |           |                       |
| • 12 x 12 x 0,9 cm Antislip External Corner | <b>1712C01</b> |            |           |                       |

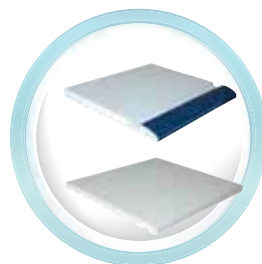
## Porcelain Pool Handle and Antislip - Striped Design



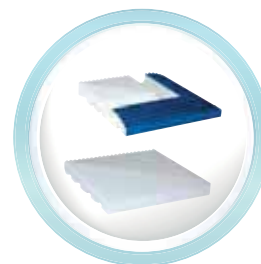
| Description                                | Code          | Pieces/box | Weight Kg | Volume m <sup>3</sup> |
|--------------------------------------------|---------------|------------|-----------|-----------------------|
| • 12,2 x 24,5 x 2 cm Handle                | <b>1711A</b>  |            | 11,050    | 0,008                 |
| • 12,2 x 24,5 x 1,5 cm Antislip            | <b>1712</b>   |            | 12,840    | 0,008                 |
| • 12,2 x 24,5 x 0,8 cm Stair-Step Antislip | <b>1713</b>   |            | 12,696    | 0,007                 |
| • 12,2 x 24,5 x 0,8 cm Antislip            | <b>1712A</b>  |            | 9,346     | 0,007                 |
| • 24,5 x 24,5 x 2 cm Square Handle         | <b>1714</b>   |            |           |                       |
| • 24,5 x 24,5 x 0,8 cm Square Antislip     | <b>1715</b>   |            |           |                       |
| • Handle Internal Corner (for 1711)        | <b>1711CI</b> |            | 11,376    | 0,008                 |
| • Handle External Corner (for 1711)        | <b>1711CO</b> |            | 11,376    | 0,008                 |
| • Antislip Internal Corner (for 1712)      | <b>1712CI</b> |            | 10,100    | 0,008                 |
| • Antislip External Corner (for 1712)      | <b>1712CO</b> |            | 10,100    | 0,008                 |
| • Handle Internal Corner (for 1714)        | <b>1714CI</b> |            |           |                       |
| • Handle External Corner (for 1714)        | <b>1714CO</b> |            |           |                       |
| • Antislip Corner (for 1715)               | <b>1715C</b>  |            |           |                       |



1713 - 1712A



1714 - 1715



1711CO - 1712CO

## Glass Mosaics

### GEMAS GLASS MOSAICS.

| Description                            | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------|--------------|----------------|--------------|--------------------------|
| • KSMS-01 Sprayed Turquoise 38 x 38 cm | <b>17062</b> |                |              |                          |
| • KSMS-01 Sprayed Blue 38 x 38 cm      | <b>17061</b> |                |              |                          |
| • KSMS-01 Sprayed Turquoise 25 x 25 cm | <b>17041</b> |                |              |                          |
| • KSMS-02 Sprayed Blue 25 x 25 cm      | <b>17031</b> |                |              |                          |
| • MIX-13 Mix Blue 25 x 25 cm           | <b>17011</b> |                |              |                          |
| • MIX-15 Mix Blue + White 25 x 25 cm   | <b>17051</b> |                |              |                          |



38 x 38 KSMS-01



38 x 38 KSMS-02



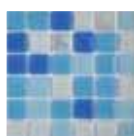
25 x 25 KSMS-01



25 x 25 KSMS-02



25 x 25 MIX-13



25 x 25 MIX-15

## Leakproofing Materials

**"Fix a leak" leakproofing chemical.** Prevents leakage on the body or mechanical installation of filled pools. No matter what construction material of pool or massage pool is, it can be used successfully with installation materials such as PVC, ABS, poly plastics, copper, steel etc. A single bottle of "fix a leak" is efficient per 100 m<sup>3</sup> pool. Minimum volume of water that a full bottle can be implemented is 2 m<sup>3</sup>. If a more concentrated implementation is required, pool should be drained after the implementation process. Please request usage instructions for further details.



| Description                      | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------|--------------|----------------|--------------|--------------------------|
| FIX A LEAK Leakproofing Chemical | <b>17301</b> | 1              | 1,300        |                          |



## PVC Membrane Pool Coating

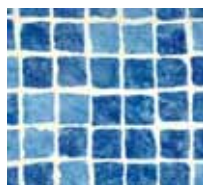
**Imported Coating Membrane:** 1,5 mm and 2 mm wall thickness. Manufactured of laminated double layer PVC film and fortified with polyester mesh. Can be implemented in every type of pools by using equipments of a liner pool. Sold per 25 m roll. Price per m<sup>2</sup>.

| Description                                              | Code         | Pieces/<br>box | Weight<br>Kg | Volume<br>m <sup>3</sup> |
|----------------------------------------------------------|--------------|----------------|--------------|--------------------------|
| • Blue - Width: 1.8x25m Thickness: 1.5mm                 | <b>17201</b> |                |              |                          |
| • Blue Non-Slip - Width: 1.8x25m Thickness: 1.5mm        | <b>17202</b> |                |              |                          |
| • Roma Mosaic - Width: 1.8x25m Thickness: 1.5mm          | <b>17203</b> |                |              |                          |
| • Roma Mosaic Non-Slip - Width: 1.8x25m Thickness: 1.5mm | <b>17204</b> |                |              |                          |
| • Sapphire - Width: 1.8x25m Thickness: 1.5mm             | <b>17205</b> |                |              |                          |
| • Sapphire Non-Slip - Width: 1.8x25m Thickness: 1.5mm    | <b>17206</b> |                |              |                          |
| • Blue 3D Mosaic Width: 1.8x25m Thickness: 2mm           | <b>17207</b> |                |              |                          |

**PS:** Colour of below pictures may differ from the original products.



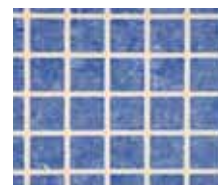
Blue  
17201



Roma Mosaic  
17203



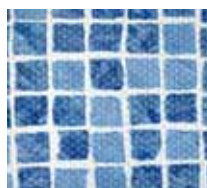
Sapphire  
17205



Blue 3D Mosaic  
17207



Blue Non-Slip  
17202



Roma Mosaic Non-Slip  
17204

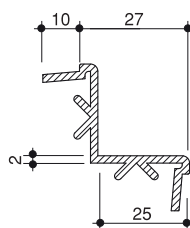
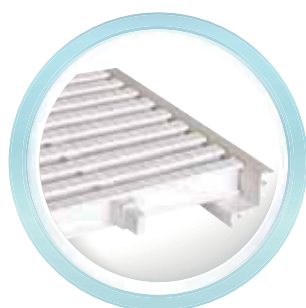
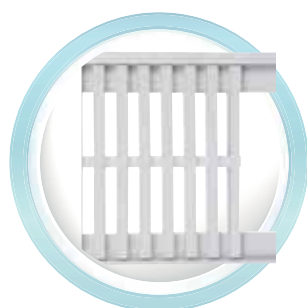


Sapphire Non-Slip  
17206

## PVC Membrane Pool Coating

**PVC laminated Stainless sheet.** PVC laminated Stainless sheet with dimensions of 2 x 1 m. Used as a detection strip in PVC membrane covered pools.

| Description                            | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|----------------------------------------|--------------|-------------|-----------|-----------------------|
| • Blue - price per piece               | <b>17214</b> | 1           |           |                       |
| • PVC special conduit side profile (m) | <b>03752</b> |             |           |                       |



Overflow Detailed

### Liquid PVC - 1 l.

| Description       | Code         | Pieces/ box | Weight Kg | Volume m <sup>3</sup> |
|-------------------|--------------|-------------|-----------|-----------------------|
| • Light blue 8272 | <b>17212</b> | 1           |           |                       |
| • Blue 8273       | <b>17213</b> | 1           |           |                       |







## Quality Policy

GEMAS  
Genel Muhendislik Mekanik Sanayi ve Ticaret A.S.  
targets to be a universally well known  
company in its sector.  
In order to achieve that

Gemas embraces:

- Constant increase in customer satisfaction.
- Continuous development in production technology and efficiency.
- Continuous progress in all activities as the main principles of the company.

Genel Manager  
İbrahim ÜSTÜNES

Date of Issue: 30.03.2005



# *Safe Swimming Pleasure !*

All over your pool; from construction materials to installation, from lighting to filtration, from disinfection to heating, from cleaning to massage equipment - shortly, we are in your pool, outside, and in the engine room ! **You can trust us.**

► Polyester Laminated/Bobbin Wound and Plastic Body Sand Filters ► Self-priming Pool Pumps ► Multiport valves ► PVC Fittings ► Skimmers ► Underwater Lights ► Transformers ► Pool Ladders ► Diving Boards ► Automatic Disinfection Systems ► Salt-Water Chlorinators ► Return Inlets ► Main Drains ► Overflow Gratings ► Automatic Pool Cleaners and Accessories ► Olympic Pool Accessories ► Plastic Valves and Fittings ► Pool Chemicals ► Heaters ► Fountain Nozzles ► Stropool Fast Pool Systems.



## **GEMPAŞ PAZARLAMA LOJİSTİK TİCARET ANONİM ŞİRKETİ**

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**Antalya Branch Office:** Varsak Karşıyaka Mah. Süleyman Demirel Bul. No:220 B1 Apt. No:91 Kepez/Antalya-TÜRKİYE

Tel: +90 242 229 6691 - 92 Fax: +90 242 229 6693

**Bodrum Branch Office:** İslamhaneleri Mah. Cumhuriyet Bulvarı No:4/A No:6 Bodrum/Muğla-TÜRKİYE

Tel: +90 252 358 6574 pbx Fax: +90 252 358 6576



[gemas.com.tr](http://gemas.com.tr)



## GENERAL TERMS OF TRADING

### Art.1. Price

Quoted prices are exclusive of VAT and of delivery. If delivery is to be organized by GEMAS, the Customer is liable to pay delivery charges to GEMAS.

### Art. 2. Specifications

In order to improve the quality of our products, GEMAS shall not be under a liability in respect of specifications, illustrations or other matter in relation to goods contained in any material such as brochures, price list or trade publications, descriptive or advertising matter or delivery notes other than in respect of specifications expressly set out in GEMAS' acknowledgment order.

### Art. 3. Orders

No liability shall be attached to GEMAS, its agent or employees in respect of any representation or statement made, whether before or after agreement is reached, unless confirmed in written by GEMAS. In case of cancellation of a special order, we reserve the right to invoice all the items included in the manufacturing of this product or order.

### Art. 4 Payment

Subject to any special terms agreed in writing between GEMAS and the Customer, for the first order payment for the goods shall be made in cash net with order, and delivery shall not be made until payment has been received in full set by GEMAS. In the event of default in payment by the due date, GEMAS reserves the right to charge interest on all amounts overdue at the rate of 1% calculated on a monthly basis (a part of a month being treated as a full month for this purpose) until payment in full is made and to suspend delivery or terminate the contract in respect of any of the goods or services delivered to the Customer. If GEMAS takes any legal action against a customer for a non-payment, the Customer will have to pay 20% fees of the total due amount. The Customer accepts that the liabilities of GEMAS caused by the guarantee conditions cannot be an excuse for the Customer's delay in payment.

### Art. 5. Delivery

Our goods are sold ex-works Izmir - Turkey. GEMAS may organize the carriage of the goods to the Customer if it is specified so in the order acknowledgement. Notification of short deliveries or loss or damage to goods in transit must be made in writing to the transport company within three working days of the date when the goods have or should have been delivered. GEMAS shall bear no liability therefore unless such notification is made by the Customer and confirmed by GEMAS. Any date or time given by GEMAS to the Customer for the delivery of the goods is an estimate only. While GEMAS will always endeavor to meet dates or times given or specified by either party, no such dates or times shall be binding on GEMAS or form part of the contract. GEMAS will not accept any order cancellation, nor penalties in case of a late delivery. The Customer will bear the cost of any urgent courier dispatch.

### Art. 6. Goods return

No goods shall be returned without our previous acceptance within 8 days. The Customer will bear the transport costs. If the return is accepted the Customer shall pay 15% of the invoiced value.

### Art. 7. Guarantee

GEMAS warrants the goods to be of satisfactory quality from the dispatch date and takes effects after full payment of the goods. The guarantee expires once the goods have been modified out of factory. The guarantee is limited to the replacement or repair of the parts which have been proved defective, therefore no labor, no travelling expenses, no transport, no damage nor whatsoever compensation may be claimed to GEMAS. The guarantee applies only if the installation complies with professional standards. Guarantee liability of GEMAS is only to the Customer, and does not include the third parties, such as the customers of the Customer.

### Art. 8. Title to the goods

Notwithstanding delivery and the passing of risk in the goods, or any other provision of these conditions, title in the goods remains vested in GEMAS and shall only pass from GEMAS to the Customer upon full payment being made by the Customer of all sums due, on whatever account or grounds to GEMAS. In the event of goods being sold by the Customer in such a manner as to pass to a third party a valid title to the goods, whilst any such sums are due to GEMAS, GEMAS' right under this condition shall attach to such part of the proceeds of sales as is equivalent to the sums due to GEMAS and the Customer shall place the relevant part of the proceeds of sale in a separate account. Until such time as title to the goods passes to the Customer, the Customer shall hold the goods as GEMAS' fiduciary agent and bailee, and shall keep the goods separate from those of the Customer and the third parties and properly stored, protected and insured and identified as GEMAS' property. Until that the time the Customer shall be entitled to resell or use the goods in the ordinary course of its business, but shall account to GEMAS for proceeds of sale or otherwise of the goods whether tangible or intangible, including insurance proceeds, and shall keep all such proceeds separate from any money or property of the Customer and third parties and this case of tangible proceeds properly stored, protected and insured. Until such time as title to the goods passes to the Customer (and provided goods are still in existence and have not been resold) GEMAS shall be entitled at any time to require the Customer to deliver up the goods to GEMAS and if the Customer fails to do so forthwith, to enter upon any premises of the Customer or any third parties where the goods are stored and repossess the goods.

### Art. 9. Claims

The application of these provisions is exclusively governed by the Turkish laws. In case of any dispute arising from the execution of an order in all or part of its modalities or regarding the interpretation of these general terms, the only competent shall be the Turkish courts, even in the case of a plurality of defendants, appeals to guarantee or indivisible or connected requests.

## BANK ACCOUNT

#### • HALKBANK IBAN No:

TR29 0001 2009 7290 0058 0001 94 ( € )

TR21 0001 2009 7290 0053 0001 82 ( \$ )

SWIFT CODE: TRHBTR2AXXX

#### • GARANTI BANK IBAN No:

TR73 0006 2000 4480 0009 0719 05 ( € )

TR03 0006 2000 4480 0009 0719 04 ( \$ )

SWIFT CODE: TGBATRISXXX