EXPORT CATALOGUE
2025/2026

GEMAS

GEMAS was established on 23.09.1993 by the iniative 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^2 office, 20000 m^2 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, oppointed 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.

ISO 9001

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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 m² production area and 1500 m² office area on 15 acres of land.

Our factory is located in ITOB Organized Industrial Zone between Menderes and Torbal› in ‹zmir. Our new sales organization "GEMPAS PAZARLAMA" started its operations in Izmir ITOB with a 3000 m² main warehouse.

All our domestic branches and international subsidiaries operate within the new sales organization with a total of 3500 m² closed warehouse space.

Istanbul Head Office

Production Video

Izmir Factory

Gempas Pazarlama - Izmir Center

Istanbul 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

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.

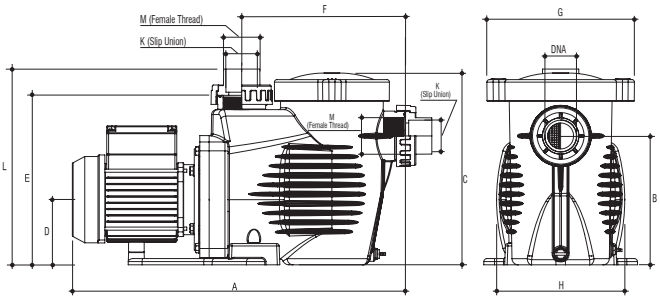
2" Female connection

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 m^3
•DRF-50M 0,5 HP, Monophase	**0111DRF50M**	1	12,195	0,038
•DRF-80M 0,75 HP, Monophase	**0111DRF75M**	1	13,081	0,038
•DRF-80T 0,75 HP, Triphase	**0111DRF75T**	1	12,485	0,038
•DRF-100M 1 HP, Monophase	**0111DRF100M**	1	13,765	0,038
•DRF-100T 1 HP, Triphase	**0111DRF100T**	1	13,100	0,038
•DRF-150M 1,5 HP, Monophase	**0111DRF150M**	1	16,680	0,038
•DRF-150T 1,5 HP, Triphase	**0111DRF150T**	1	15,460	0,038
•DRF-200M 2,0 HP, Monophase	**0111DRF200M**	1	18,530	0,038
•DRF-200T 2,0 HP, Triphase	**0111DRF200T**	1	16,760	0,038
•DRF-300M 3,0 HP, Monophase	**0111DRF300M**	1	18,530	0,038
•DRF-300T 3,0 HP, Triphase	**0111DRF300T**	1	16,760	0,038



PUMP TYPE	HP	CON-DEN-SER (µF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 5	6	8	10	12	14	16	18	20	22
						FLOW m³/h									
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 K	K	M	A	B	C	D	E	F	G	H	L	Net Weight (Kg) Mo.	Net Weight (Kg) Tri.	Gross Weight (Kg) Mo.	Gross Weight (Kg) 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

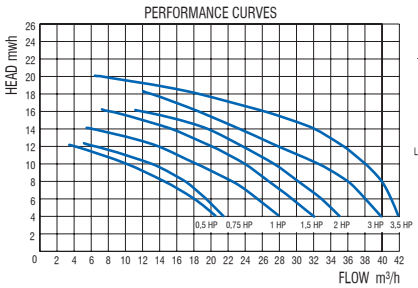
2 years Parts WARRANTY

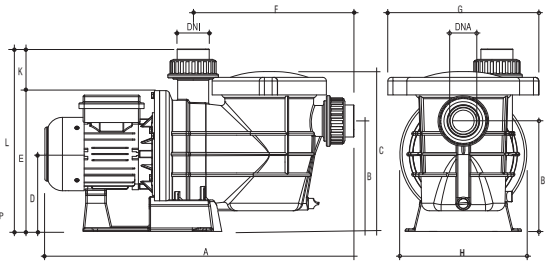
GEMAS "STREAMER 2010" Self-priming, thermoplastic body Monoblock Pool Pump; complete with pre-filter. Models of 1 HP and below - suction Ø is 1,5" and discharge Ø is 2". Models of 1,5 HP and above - both suction and discharge Ø are 2". Connection unions are compatible with Fitvalf d50 ball valve handle. 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 m^3
•STRN-50M 0,5 HP, Monophase	**0111STRN50M**	1	11,514	0,051
•STRN-80M 0,75 HP, Monophase	**0111STRN75M**	1	12,484	0,051
•STRN-80T 0,75 HP, Triphase	**0111STRN75T**	1	11,750	0,051
•STRN-100M 1 HP, Monophase	**0111STRN100M**	1	13,609	0,051
•STRN-100T 1 HP, Triphase	**0111STRN100T**	1	12,244	0,051
•STRN-150M 1,5 HP, Monophase	**0111STRN150M**	1	16,344	0,051
•STRN-150T 1,5 HP, Triphase	**0111STRN150T**	1	15,669	0,051
•STRN-200M 2,0 HP, Monophase	**0111STRN200M**	1	18,404	0,051
•STRN-200T 2,0 HP, Triphase	**0111STRN200T**	1	17,534	0,051
•STRN-300M 3,0 HP, Monophase	**0111STRN300M**	1	18,404	0,051
•STRN-300T 3,0 HP, Triphase	**0111STRN300T**	1	17,534	0,051
•STRN-350M 3,5 HP, Monophase	**0111STRN350M**	1	21,704	0,054
•STRN-350T 3,5 HP, Triphase	**0111STRN350T**	1	20,384	0,054

Easy access lid

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





Coupling compatible with
d50 Fitvalf ball valve handle

PUMP TYPE	HP	CON-DEN-SER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 4	6	8	10	12	14	16	18	20
						FLOW m³/h								
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

Large volume basket

PUMP TYPE	DIMENSIONS DNA	DNI	A	K	B	C	D	E	F	G	H	L	Net Weight (Kg) Mo.	Tri.	Gross Weight (Kg) 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

Stainless steel motor shaft

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.

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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.

2 years Parts WARRANTY

CE

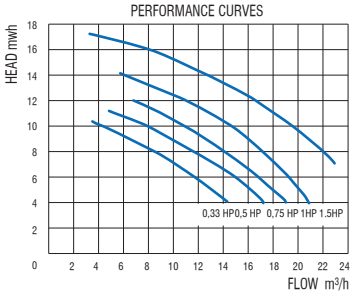
Easy access lid

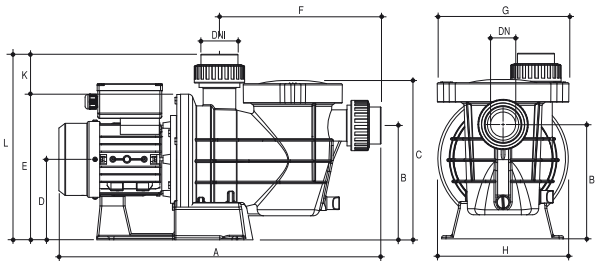
Self coupling

Noryl impeller

Stainless steel motor shaft

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





PUMP TYPE	HP	CON-DEN-SER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 4	6	8	10	11	12	14	16	17
						FLOW m³/h								
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 DNA	DNI	A	K	B	C	D	E	F	G	H	L	Net Weight (Kg) Mo.	Tri.	Gross Weight (Kg) 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.

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Self-priming - Variable Speed Pumps

"Saving Energy"

2100/2400/2850 rpm

2 years Parts WARRANTY

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.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•RN-150M 1,5 HP, Monophase	**0111RN150M**	1	14,000	0,051
•RN-300M 3,0 HP, Monophase	**0111RN300M**	1	19,050	0,051

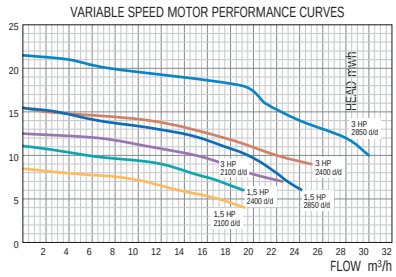
Speed controlled

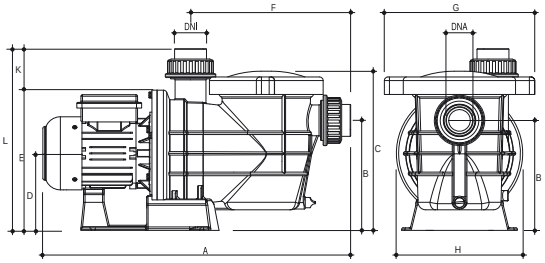
Easy access lid

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

Coupling compatible with
d50 Fitvalf ball valve handle

Stainless steel motor shaft





PUMP TYPE		HEAD mwh														
		4	5	6	7	8	9	10	11	12	13	14	15	16	17	17,5
RN-150M	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	21,5
RN-300M	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	8,00

PUMP TYPE	DIMENSIONS												Net Weight (Kg)	Gross Weight (Kg)
	DNA	DNI	A	K	B	C	D	E	F	G	H	L	Monophase	Monophase
RN-150M	2"	1,5"	615	80	215	310	160	275	320	292	245	355	11,650	14,000
RN-300M	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.

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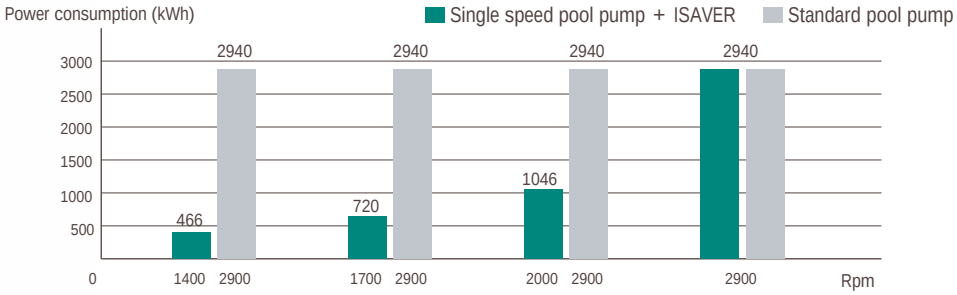
ISAVER - Pool Pump Frequency Inverter

"New Inverter Technology"

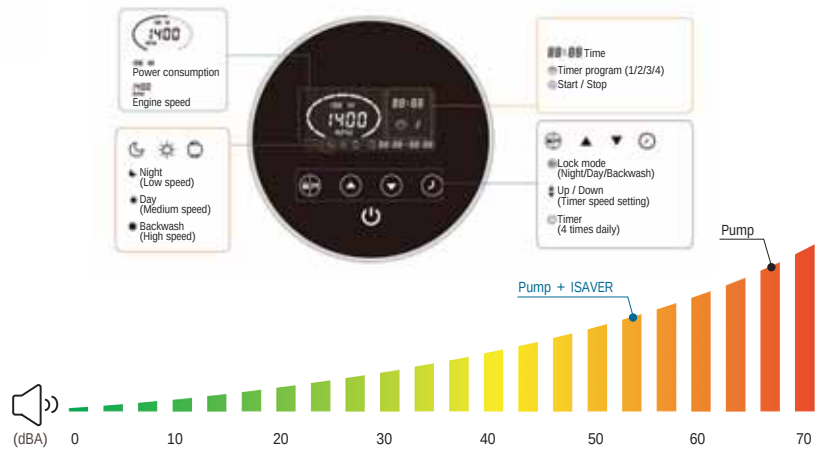
2 years Parts WARRANTY

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^3
• ISAVER 1100	**0111INV1100**	1		
• ISAVER 1100C	**0111INV1100C**	1		
• ISAVER 2200	**0111INV2200**	1		
• ISAVER 2200C	**0111INV2200C**	1		



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			

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

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.**

2 years Parts WARRANTY

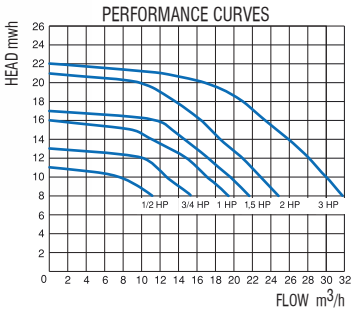
Wide and clear view on pre-filter lid
Made of polycarbonate

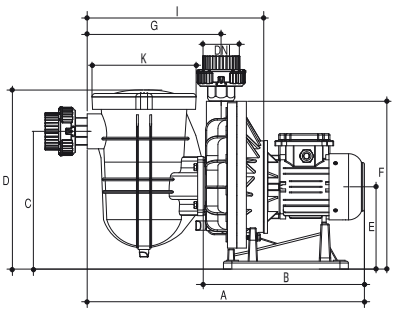
Large volume basket

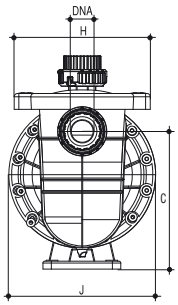
Stainless steel motor shaft

Noryl impeller

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







PUMP TYPE	HP	CONDENSER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 8	10	12	14	15	16	18	20
						FLOW m³/h							
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 DNA	DNI	A	B	C	D	E	F	G	I	H	J	K	Net Weight (Kg) Mo.	Tri.	Gross Weight (Kg) 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.

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Pumps for Swimming Pools

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^3
•STR-250MIC 0,33 HP, Monophase	**0111STRMIC30**	1	11,880	0,051
•STR-370MIC 0,5 HP, Monophase	**0111STRMIC40**	1	12,850	0,051

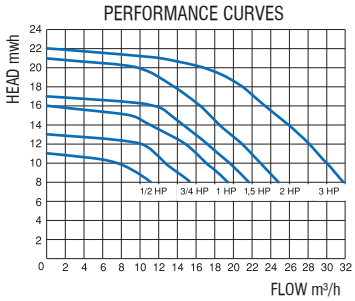
PUMP TYPE	HP	CONDENSER (μF)	AMPERES II 220 V	HEAD mwh 6	7	8	9	10	13	14
				FLOW m³/h						
STR-250MIC	0,33	-	1,20	5,70	5,10	4,30	3,50	1,50	-	-
STR-370MIC	0,50	-	2,20	7,50	7,00	6,50	5,90	5,20	2,10	-

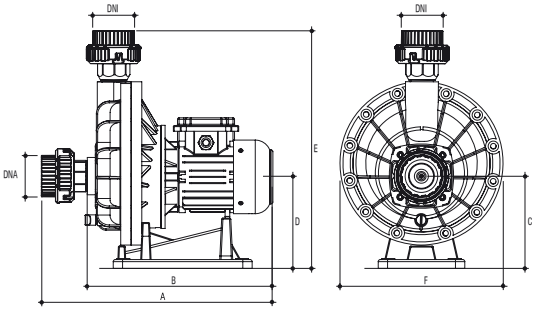
With union connection

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^3
•PUMPEXJ-50M 0,50 HP, Monophase	**0111PXJ50M**	1	16,000	0,066
•PUMPEXJ-75M 0,75 HP, Monophase	**0111PXJ75M**	1	17,000	0,066
•PUMPEXJ-75T 0,75 HP, Triphase	**0111PXJ75T**	1	16,000	0,066
•PUMPEXJ-100M 1 HP, Monophase	**0111PXJ100M**	1	17,000	0,066
•PUMPEXJ-100T 1 HP, Triphase	**0111PXJ100T**	1	16,000	0,066
•PUMPEXJ-150M 1,5 HP, Monophase	**0111PXJ150M**	1	17,000	0,066
•PUMPEXJ-150T 1,5 HP, Triphase	**0111PXJ150T**	1	18,000	0,066
•PUMPEXJ-200M 2 HP, Monophase	**0111PXJ200M**	1	22,000	0,066
•PUMPEXJ-200T 2 HP, Triphase	**0111PXJ200T**	1	21,000	0,066
•PUMPEXJ-300M 3 HP, Monophase	**0111PXJ300M**	1	22,000	0,066
•PUMPEXJ-300T 3 HP, Triphase	**0111PXJ300T**	1	21,000	0,066





Cross section of impeller system

PUMP TYPE	HP	CONDENSER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 8	10	12	14	15	16	18	20
						FLOW m³/h							
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 DNA	DNI	A	B	C	D	E	F	Net Weight (Kg) Mo.	Tri.	Gross Weight (Kg) 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 Dimentions (mm)
PXJ - 50 / 75 / 100 / 150 / 200 / 300	560 x 360 x 400

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Self-priming Pool Pumps

2850 rpm

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.

2 years Parts WARRANTY

CE

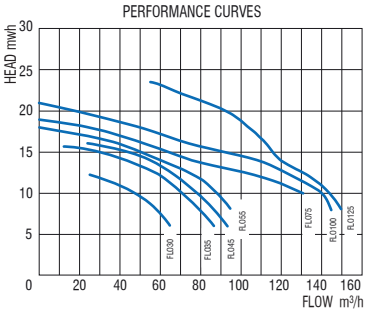
Stainless steel motor shaft

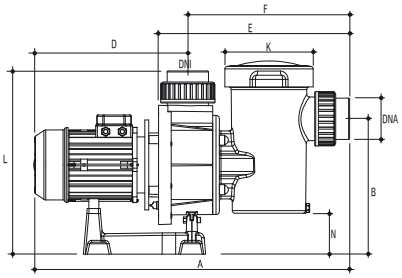
Noryl impeller

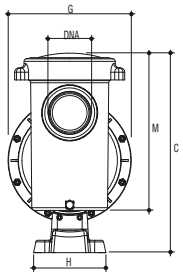
d.110 slip connection

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•3 HP, Monophase, FLO 300M	**0111FLO30M**	1	33,250	
•3 HP, Triphase, FLO 300T	**0111FLO30**	1	32,250	
•3,5 HP, Monophase, FLO 350M	**0111FLO35M**	1	33,250	
•3,5 HP, Triphase, FLO 350T	**0111FLO35**	1	32,250	
•4,5 HP, Triphase, FLO 450T	**0111FLO45**	1	35,350	
•5,5 HP, Triphase, FLO 550T	**0111FLO55**	1	42,100	
•7,5 HP, Triphase, FLO 750T	**0111FLO75**	1	49,950	
•10 HP, Triphase, FLO 1000T	**0111FLO100**	1	56,100	
•12,5 HP, Triphase, FLO 1250T	**0111FLO125**	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-SER (μF)	AMPERES II 220 V	AMPERES III 230 V	AMPERES III 380 V	HEAD mwh 6	8	10	12	14	16	17
						FLOW m³/h						
0111FLO30	3,0	-	-	10,40	6,00	65,00	56,50	47,00	25,00	-	-	-
0111FLO35	3,5	-	-	10,40	6,00	86,00	78,00	70,00	60,00	45,00	12,00	-
0111FLO45	4,5	-	-	11,70	6,75	94,00	88,00	78,00	68,00	55,00	24,00	-
0111FLO55	5,5	-	-	13,80	8,00	102,00	95,00	88,00	78,00	60,00	40,00	23,00

PUMP TYPE	HP	CONDEN-SER (μF)	AMPERES III 230 V	AMPERES III 400 V	AMPERES III 700 V	HEAD mwh 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 DNA	DNI	A	K	B	C	D	E	F	G	H	L	M	N	Net Weight (Kg)	Gross Weight (Kg)
0111FLO30	4"	4"	890	265	415	580	400	573	485	358	210	550	467	113	30,750	32,250
0111FLO35	4"	4"	890	265	415	580	400	573	485	358	210	550	467	113	30,750	32,250
0111FLO45	4"	4"	890	265	415	580	400	573	485	358	210	550	467	113	33,850	35,350
0111FLO55	4"	4"	910	265	415	580	420	573	485	358	210	550	467	113	40,600	42,100
0111FLO75	4"	4"	910	265	415	580	420	573	485	358	210	550	467	113	48,450	49,950
0111FLO100	4"	4"	930	265	415	580	440	573	485	358	210	550	467	113	54,600	56,100
0111FLO125	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	41/2"(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).

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1450 rpm

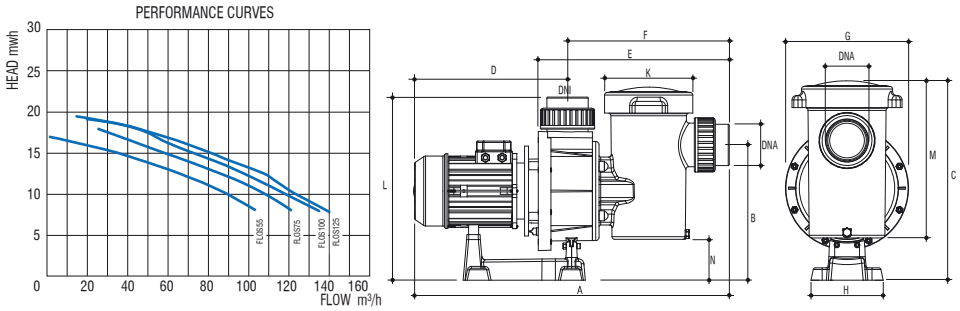
Self-priming Pool Pumps

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.

2 years Parts WARRANTY

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

d.110 slip connection

PUMP TYPE	HP	CONDEN-SER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 6	8	10	12	14	16	17
						FLOW m³/h						
0111FLOS55	5,5	-	-			-	105,00	90,00	70,00	45,00	15,00	-

PUMP TYPE	HP	CONDEN-SER (μF)	AMPERES III 230 V	AMPERES III 400 V	AMPERES III 700 V	HEAD mwh 8	10	11	12	13	14	16	18	19
						FLOW m³/h								
0111FLOS75	7,5	-	-			120,00	107,00	100,00	90,00	80,00	66,00	43,00	25,00	10,00
0111FLOS100	10,0	-	-			135,00	120,00	110,00	103,00	97,00	83,00	60,00	35,00	20,00
0111FLOS125	12,5	-	-			140,00	123,00		110,00		85,00	65,00	35,00	18,00

PUMP TYPE	DIMENSIONS DNA	DNI	A	K	B	C	D	E	F	G	H	L	M	N	Net Weight (Kg)	Gross Weight (Kg)
0111FLOS55	4"	4"	910	265	415	580	420	573	485	358	210	550	467	113	40,600	42,100
0111FLOS75	4"	4"	910	265	415	580	420	573	485	358	210	550	467	113	48,450	49,950
0111FLOS100	4"	4"	935	265	415	580	440	573	485	358	210	550	467	113	54,600	56,100
0111FLOS125	4"	4"	935	265	415	580	440	573	485	358	210	550	467	113	54,600	56,100

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).

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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.**

2 years Parts WARRANTY

2850 rpm

CE

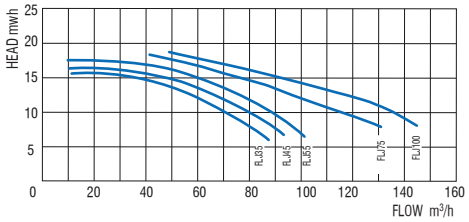
Stainless steel motor shaft

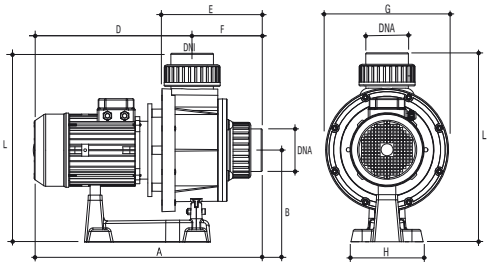
Description	Code	Pieces/ box	Weight Kg	Volume m^3
•3 HP, Monophase, FLJ 300M	**0111FLJ30M**	1	27,000	0,150
•3 HP, Triphase, FLJ 300T	**0111FLJ30**	1	26,000	0,150
•3,5 HP, Monophase, FLJ 350M	**0111FLJ35M**	1	27,000	0,150
•3,5 HP, Triphase, FLJ 350T	**0111FLJ35**	1	26,000	0,150
•4,5 HP, Triphase, FLJ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

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

Noryl impeller

PERFORMANCE CURVES





PUMP TYPE	HP	CONDEN-SER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 6	8	10	12	14	16	17
						FLOW m³/h						
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	CONDEN-SER (μF)	AMPERES III 230 V	AMPERES III 400 V	AMPERES III 700 V	HEAD mwh 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 DNA	DNI	A	B	D	E	F	G	H	L	Net Weight (Kg)	Gross Weight (Kg)
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	0111FLJ5 5	0111FLJ7 5	0111FLJ1 0 0	0111FLJ1 2 5
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).

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1450 rpm

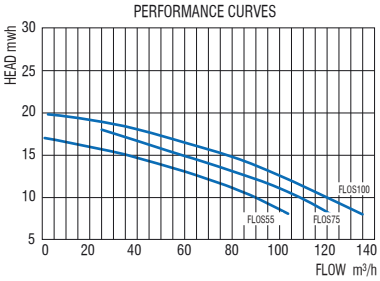
2 years Parts WARRANTY

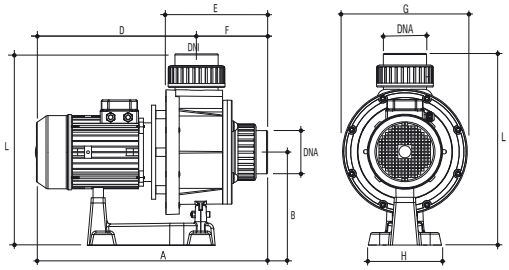
Self-priming Pool Pumps

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^3
•5,5 HP, Triphase, FLJS 550T	**0111FLJS55**	1	37,300	0,150
•7,5 HP, Triphase, FLJS 750T	**0111FLJS75**	1	45,250	0,150
•10 HP,Triphase, FLJS 1000T	**0111FLJS100**	1	51,400	0,150
•12,5 HP, Triphase, FLJS 1250T	**0111FLJS125**	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	CONDEN-SER (μF)	AMPERES II 220 V	AMPERES III 220 V	AMPERES III 380 V	HEAD mwh 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	CONDEN-SER (μF)	AMPERES III 230 V	AMPERES III 400 V	AMPERES III 700 V	HEAD mwh 8	10	11	12	13	14	16	18	19
						FLOW m³/h								
0111FLJS75	7,5	-	-			120,00	107,00	100,00	90,00	80,00	66,00	43,00	25,00	10,00
0111FLJS100	10,0	-	-			135,00	120,00	110,00	103,00	97,00	83,00	60,00	35,00	20,00
0111FLJS125	12,5	-	-			140,00	123,00	-	110,00	-	85,00	65,00	35,00	18,00

PUMP TYPE	DIMENSIONS DNA	DNI	A	B	D	E	F	G	H	L	Net Weight (Kg)	Gross Weight (Kg)
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	0111FLJS5 5	0111FLJS7 5	0111FLJS1 0 0	0111FLJS1 2 5
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).

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Self-priming Pool Pumps

2850 rpm

GEMAS "MEGA FLOODER"
Self-priming, thermoplastic body Commercial Pool Pump;
WITHOUT pre-filter. Pump shaft in stainless steel.
2850 rpm - IP55 Motor.

2 years Parts WARRANTY

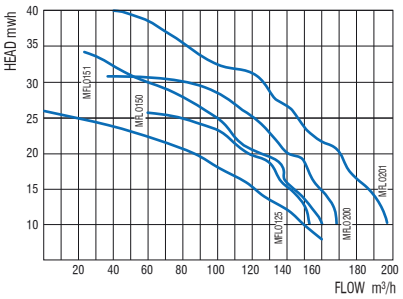
Stainless steel motor shaft

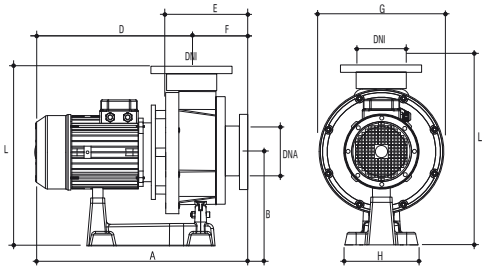
Description	Code	Pieces/ box	Weight Kg	Volume m^3
•12,5 HP, Triphase, MFLO 1250T	**0111MFL125**	1	51,400	
•15 HP, Type I Triphase, MFLO 1500T	**0111MFL150**	1	153,000	
•15 HP, Type II Triphase, MFLO 1500T	**0111MFL151**	1	153,000	
•20 HP, Type I Triphase, MFLO 2000T	**0111MFL200**	1	187,000	
•20 HP,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

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

Special polyester base for heavy-duty applications

PERFORMANCE CURVES





013331

PUMP TYPE	HP	CON-DEN-SER (μF)	AMPERES II 220V	AMPERES III 220V	AMPERES III 380V	HEAD mwh 10	12	14	16	18	20	22	24	26	28	31	32	33	34	37	41
						FLOW m³/h															
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	114,00	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	22,50	-	-
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	78,00	56,00	18,00

PUMP TYPE	DIMENSIONS DNA	DNI	A	B	C	D	E	F	G	H	L	Net Weight (Kg) Mo.	Tri.	Gross Weight (Kg) 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

Polyester laminated pre-filter (optional)

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

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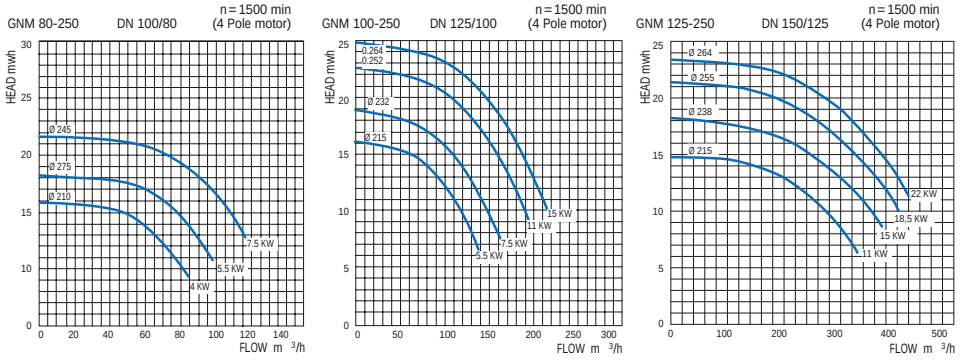
Pumps for Swimming Pools

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^3
•GNM 80-250. 70 m³/h -	**011212P**	1		
16 mwh - 7,5 HP (5,5 kw) 4"- 3" Discharge - Ø 225 Fan.				
•GNM 100-250. 100 m³/h -	**011222P**	1		
16 mwh - 10 HP (7,5 kw) 5"- 4" Discharge - Ø 232 Fan.				
•GNM 100-250. 150 m³/h -	**011223P**	1		
16 mwh - 15 HP (11 kw) 5"- 4" Discharge - Ø 252 Fan.				
•GNM 125-250. 230 m³/h -	**011231P**	1		
16 mwh - 20 HP (15 kw) 6"- 5" Discharge - Ø 238 Fan.				

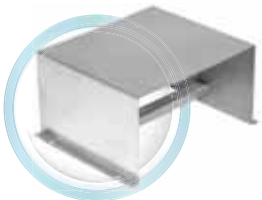
Note: 1- The pumps listed are produced upon request, with a lead time of approximately 7-15 days. Please inquire about the prices for capacities that are not included in the list.
2- Pumps with a bronze fan and stainless steel shaft are available at a 30% higher price."



Pump Bases and Vibration Bricks

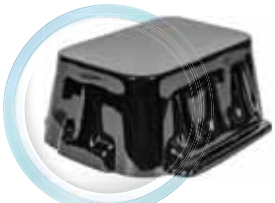
Pump Bases and Vibration Mounts The pump base is made of AISI 304 grade stainless steel and is specifically designed for pumps with a maximum power of 3 HP.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•Single	**01411**	1	4,330	0,030
•Double	**01412**	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^3
•Single	**01413**	1		



Vibration mount Installed to minimize pump vibration.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•M8, Ø30 - 25 mm	**0111STS10**	1		
•M10, Ø50 - 35 mm	**0111STS21**	1		

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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^3
• 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^3
• 4" - Unions	**013311**	1	9,740	
• 5"- Flanged	**013321**	1	10,750	
• Stainless Steel Pre-filter	**0111FL01**	1		
Basket AISI 304 Quality				
• 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^3
• 4"-4,5" Suitable for Flooder Pump	**013209**	1		
• 4"	**013210**	1		
• 6"	**013323**	1		

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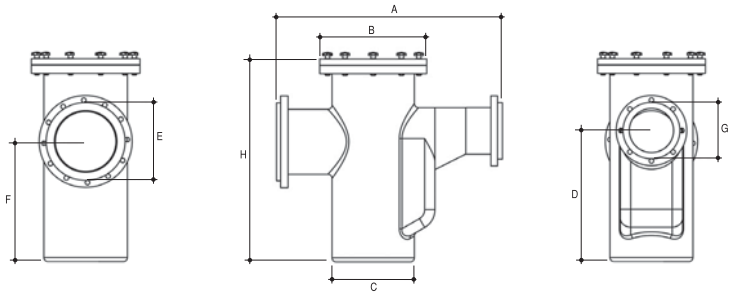
Pump Pre-Filters (Strainers)

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/ box	Weight Kg	Volume m^3
•4"	**013215**	1	31,500	0,340
•5"	**013216**	1	31,500	0,340
•6"	**013223**	1	31,500	0,340
•8"	**013229**	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/ box	Weight Kg	Volume m^3
•8"- Ø280	**013224**	1		
•8"- Ø315	**013225**	1		
•8"- Ø355	**013226**	1		
•8"- Ø400	**013227**	1		
•8"- Ø450	**013228**	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

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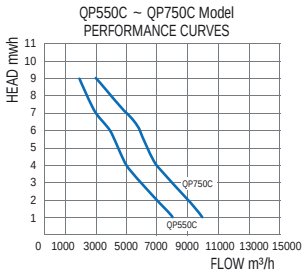
Submersible Pumps

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 floater 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^3
•QP550C	**013172**	1	6,000	0,050
•QP750C	**013173**	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^3/h					
QP550C	550	1¼"	8.0	11000	7	5 mm	H05RN-F3G 1.0 mm 2x10 m	8	7	5	4	3	2
QP750C	750	1¼"	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 floater 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^3
•QP550DW	**013191**	1	6,000	0,050
•QP750DW	**013192**	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^3/h					
QP550DW	550	1¼"	6.5	10000	7	35 mm	H05RN-F3G 1.0 mm 2x10 m	8	7	5	4	3	2
QP750DW	750	1¼"	7.5	13000	7	35 mm	H07RN-F3G 1.0 mm 2x10 m	10	9	7	6	5	3

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Injection Plastic Body Pool Filters

“Seljuk” BL
High Rate Sand Filter

Environment friendly

2 years Parts WARRANTY

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/cm², Maximum working pressure 2.5 kg/cm², Maximum filtration rate 50 m³/h/m².

021133

Transparent bolted lid (Patented)

Top mount

Folding collector arms

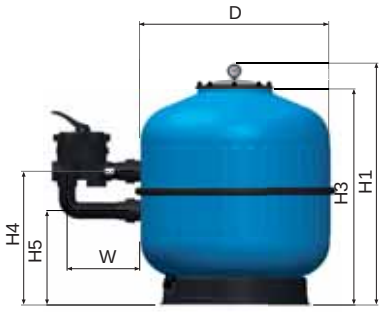
Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø500 1,5" multi. side valve	**021131**	1	12,000	0,215
•Ø630 1,5" multi. side valve	**021132**	1	13,350	0,325
•Ø710 2" multi. side valve	**021133**	1	18,500	0,440
•Ø900 2" multi. side valve	**021134**	1		
•Ø500 1,5" multi. top valve	**021131T**	1	11,514	0,215
•Ø630 1,5" multi. top valve	**021132T**	1	13,350	0,325
•Ø710 2" multi. top valve	**021133T**	1	18,500	0,440
•Ø900 2" multi. top valve	**021134T**	1		

021131T

021132

NEW !

021134



TECHNICAL CHARACTERISTICS

MODEL	021131	021132	021133	021134	021131T	021132T	021133T	021134T
D (mm)	500	630	710	900	500	630	710	900
H_1 (mm)	765	850	920	990	845	930	1030	1100
H_2 (mm)	-	-	-	-	-	-	-	-
H_3 (mm)	665	750	820	890	665	750	820	890
H_4 (mm)	430	475	510	550	-	-	-	-
H_5 (mm)	300	345	360	400	-	-	-	-
W (mm)	260	260	295	295	-	-	-	-
CONNECTIONS Ø (mm)	1,5"	1,5"	2"	2"	1,5"	1,5"	2"	2"
FLOW (m³/h) (50 m³/h/m²) max	10	16	20	32	10	16	20	32
(40 m³/h/m²)	8	12	16	26	8	12	16	26
(30 m³/h/m²) mini	6	9	12	19	6	9	12	19
SAND (Kg)	100	150	250	450	100	150	250	450
NET WEIGHT (Kg)	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

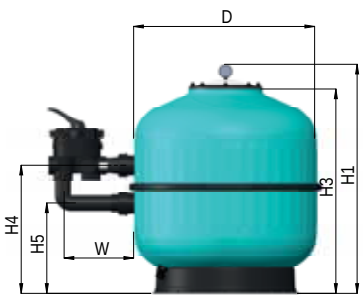
GEMAS "Seljuk" ACRYL BL is made of high quality PP plastic by injection molding technology and coated with acrylic which provides an eye-catching glossy surface finish. Complete with transparent lid, multiport valve, fittings, pressure gauge and air vent.

2-year warranty.

Test pressure 3,5 kg/cm², Maximum working pressure 2.5 kg/cm², Maximum filtration rate 50 m³/h/m².

Transparent bolted lid (Patented)

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



TECHNICAL CHARACTERISTICS

MODEL	021131A	021132A	021133A	021134A	021131TA	021132TA	021133TA	021134TA
D (mm)	500	630	710	900	500	630	710	900
H_1 (mm)	785	870	940	990	845	930	1030	1100
H_2 (mm)	-	-	-	-	-	-	-	-
H_3 (mm)	665	750	820	890	665	750	820	890
H_4 (mm)	430	475	510	550	-	-	-	-
H_5 (mm)	300	345	360	400	-	-	-	-
W (mm)	260	260	295	295	-	-	-	-
CONNECTIONS Ø (mm)	1,5"	1,5"	2"	2"	1,5"	1,5"	2"	2"
FLOW (m^3/h) (50 $m^3/h/m^2$) max	10	16	20	32	10	16	20	32
(40 $m^3/h/m^2$)	8	12	16	26	8	12	16	26
(30 $m^3/h/m^2$) mini	6	9	12	19	6	9	12	19
SAND (Kg)	100	150	250	450	100	150	250	450
NET WEIGHT (Kg)	12.000	13.350	18.500	-	12.000	13.350	18.500	-

Folding collector arms

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Injection Plastic Body Pool Filters

"Injectrone" High Rate Sand Filters

Environment friendly

5 years Parts WARRANTY

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/cm², maximum operation pressure 2,5 kg/cm²,
Maximum filtration rate 50 m³/h/m².

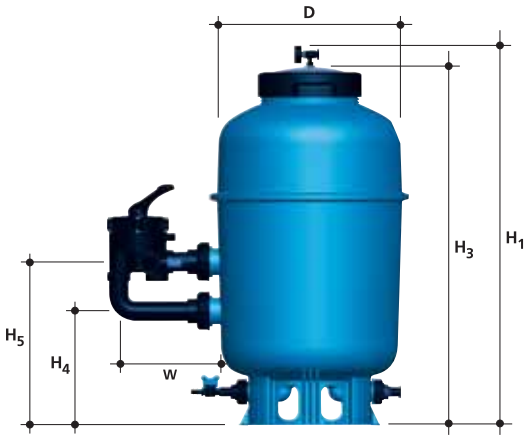
Transparent threaded lid

Side multiport valve

Water drainage with valve

Folding collector arms

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø500 mm	**0211011**	1	17,000	0,180
1,5" multiport side valve - 10 m³/h				
•Ø600 mm	**0211012**	1	27,000	0,270
1,5" multiport side valve - 14 m³/h				



TECHNICAL CHARACTERISTICS

MODEL	0211011	0211012
D (mm)	500	600
H_1 (mm)	960	1030
H_2 (mm)	-	-
H_3 (mm)	910	980
H_4 (mm)	290	320
H_5 (mm)	415	445
W (mm)	260	260
CONNECTIONS Ø (mm)	1,5"	1,5"
FLOW (m³/h) (50 m³/h/m²) max (40 m³/h/m²) (30 m³/h/m²) mini	10 8 6	14 11 8
SAND (Kg)	125	170
NET WEIGHT (Kg)	8.000	11.000

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Injection Plastic Body Pool Filters

"Fusion SL" High Rate Sand Filters

Environment friendly

2 years Parts WARRANTY

0211211S

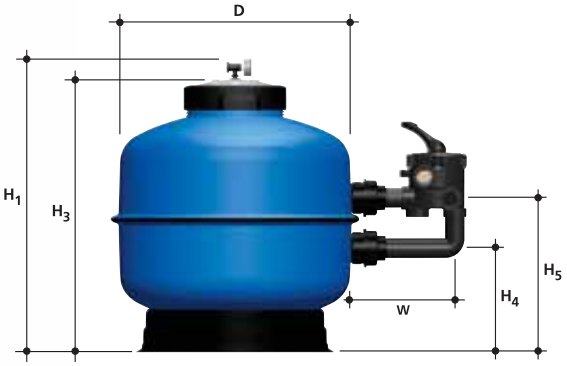
GEMAS "FUSION SL" PLASTIC SAND FILTERS.
Made of Injection Plastic (PP). The upper and lower parts are joined with a special welding technique. Easy to open clear threaded lid (2 cm wider than bolted lid). Complete with multiport valve, fittings, and pressure gauge.
2-years body warranty. Test pressure 3.5 kg/cm², maximum operation pressure 2,5 kg/cm², Maximum filtration rate 50 m³/h/m².

0211211S

0211212ST

0211211ST

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø500 mm - 10 m³/h 1,5" m. valve	**0211211S**	1	11,700	0,200
•Ø600 mm - 14 m³/h 1,5" m. valve	**0211212S**	1	15,700	0,325
•Ø500 mm - 10 m³/h 1,5" **top** m. valve	**0211211ST**	1	12,000	0,200
•Ø600 mm - 14 m³/h 1,5" **top** m. valve	**0211212ST**	1	16,000	0,325



TECHNICAL CHARACTERISTICS

MODEL	0211211S	0211212S	0211211ST	0211212ST
D (mm)	500	600	500	600
H_1 (mm)	715	760	630	660
H_2 (mm)	-	-	-	-
H_3 (mm)	660	705	830	860
H_4 (mm)	260	280	-	-
H_5 (mm)	390	410	-	-
W (mm)	260	260	-	-
CONNECTIONS Ø (mm)	1, 5"	1, 5"	1, 5"	1, 5"
FLOW (m³/h) (50 m³/h/m²) max	10	14	10	14
(40 m³/h/m²)	8	11	8	11
(30 m³/h/m²) 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

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Rotational Plastic Body Pool Filters

Environment friendly

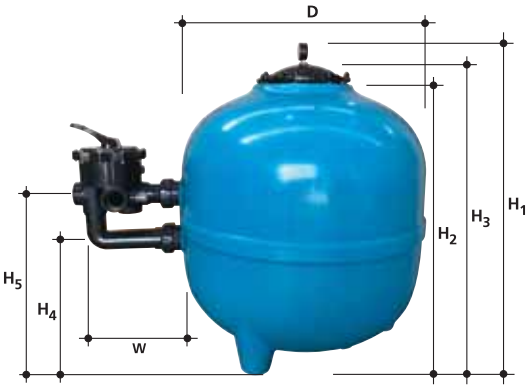
2 years Parts WARRANTY

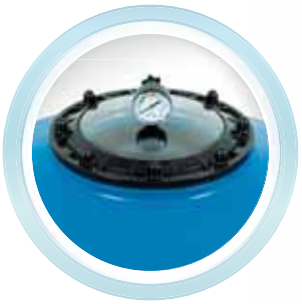
"Filtrone" High Rate Sand Filters

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/cm². Max. operation pressure 2 kg/cm². Filtration rate: 50 m³/h/m².

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø560 mm - 13 m³/h 1,5" m. valve	**021818**	1	16,500	0,215
•Ø615 mm - 15 m³/h 1,5" m. valve	**021813**	1	19,500	0,325
•Ø760 mm - 23 m³/h 2" m. valve	**021814**	1	26,500	0,440
•Ø920 mm - 33 m³/h 2" m. valve	**021815**	1	37,500	0,790
•Ø560 mm - 13 m³/h 1,5" **top** m. valve	**021826**	1	14,500	0,215
•Ø615 mm - 15 m³/h 1,5" **top** m. valve	**021823**	1	19,500	0,325
•Ø760 mm - 23 m³/h 2" **top** m. valve	**021824**	1	24,500	0,440
•Ø920 mm - 33 m³/h 2" **top** m. valve	**021825**	1	35,500	0,790

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





Transparent bolted lid (Optional) (Patented)

Water drainage

TECHNICAL CHARACTERISTICS

MODEL	021818	021813	021814	021815	021826	021823	021824	021825
D (mm)	560	615	760	920	560	615	760	920
H_1 (mm)	730	805	925	1085	800	875	995	1155
H_2 (mm)	610	680	805	965	610	680	805	965
H_3 (mm)	670	745	885	1025	-	-	-	-
H_4 (mm)	250	270	315	390	-	-	-	-
H_5 (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 (m³/h) (50 m³/h/m²) max	13	15	23	33	13	15	23	33
(40 m³/h/m²)	10	12	18	26	10	12	18	26
(30 m³/h/m²) 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

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Rotational Plastic Body Pool Filters

"Filtrone L" High Rate Sand Filters

Easy Sand Change !

Environment friendly

2 years Parts WARRANTY

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/cm². Max. operation pressure 2,5 kg/cm². Filtration rate: 50 m³/h/m³.

021815LL

021817LL

Ø 1000 Plastic Filter

21816LL

Unique in the Market

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø615 mm - Large lid. 1,5" multiport side valve - 15 m³/h	**021813LL**	1	23,000	0,325
•Ø760 mm - Large lid. 2" multiport side valve - 23 m³/h	**021814LL**	1	30,000	0,440
•Ø920 mm - Large lid. 2" multiport side valve - 33 m³/h	**021815LL**	1	48,000	0,790
•Ø1000 mm - Large lid. without multiport valve 2,5" - 40 m³/h	**021817LL**	1	55,000	0,930
•Ø1200 mm - Large lid. without multiport valve 3" - 57 m³/h	**021816LL**	1	75,000	1,160

TECHNICAL CHARACTERISTICS

MODEL	021813LL	021814LL	021815LL	021817LL	021816LL
D (mm)	615	760	920	1000	1200
H_1 (mm)	820	960	1110	1260	1310
H_2 (mm)	-	-	-	-	-
H_3 (mm)	760	900	1050	1200	1250
H_4 (mm)	280	310	375	480	475
H_5 (mm)	410	460	525	730	685
W (mm)	260	295	295	480	480
CONNECTIONS Ø (mm)	1, 5"	2"	2"	2, 5"	3"
FLOW (m³/h) (50 m³/h/m²) max	15	23	33	40	57
(40 m³/h/m²)	12	18	26	32	45
(30 m³/h/m²) mini	9	14	20	24	34
SAND (Kg)	125	250	450	700	1300
NET WEIGHT (Kg)	23,000	30,000	48,000	55,000	75,000

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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/cm², maximum operation pressure 2,5 kg/cm², Maximum filtration rate 50 m³/h/m².

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•Ø615 mm - Large lid. 1,5" multiport side valve - 15 m³/h	**021813LLT**	1	25,000	0,325
•Ø760 mm - Large lid. 2" multiport side valve - 23 m³/h	**021814LLT**	1	32,000	0,440
•Ø920 mm - Large lid. 2" multiport side valve - 33 m³/h	**021815LLT**	1	50,000	0,790
•Ø1000 mm - Large lid. without multiport valve 2,5" - 40 m³/h	**021817LLT**	1	57,000	0,930
•Ditto, GEMAS 2,5" multiport valve	**021817LTM**	1	57,000	0,930
•Ø1200 mm - Large lid. without multiport valve 3" - 57 m³/h	**021816LLT**	1	77,000	1,160

Easy opening 40 cm wide transparent lid

021813LLT

021817LLT

TECHNICAL CHARACTERISTICS

MODEL	021813LLT	021814LLT	021815LLT	021817LLT	021816LLT
D (mm)	615	760	920	1000	1200
H_1 (mm)	820	960	1110	1260	1280
H_2 (mm)	-	-	-	-	-
H_3 (mm)	760	900	1050	1200	1230
H_4 (mm)	260	350	375	480	455
H_5 (mm)	410	500	525	730	745
W (mm)	260	295	295	480	480
CONNECTIONS Ø (mm)	1, 5"	2"	2"	2, 5"	3"
FLOW (m³/h) (50 m³/h/m²) max	15	23	33	40	57
(40 m³/h/m²)	12	18	26	32	45
(30 m³/h/m²) mini	9	14	20	24	34
SAND (Kg)	125	250	450	700	1330
NET WEIGHT (Kg)	25,000	32,000	50,000	57,000	77,000

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Rotational Plastic Body Pool Filters

"Premium" High Rate Sand Filters

Environment friendly

2 years Parts WARRANTY

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/cm². Max. operation pressure 2,5 kg/cm².
Filtration rate: 50 m³/h/m².

Description	Code	Pieces/ box	Weight Kg	Volume m³
Top mounted (clamped) multiport valve				
•Ø400 mm - 7 m³/h	**021921**	1	9,000	0,140
•Ø500 mm - 10 m³/h	**021922**	1	12,000	0,200
•Ø615 mm - 15 m³/h	**021923**	1	16,000	0,325
Side mounted multiport valve Including clamped lid & side connections				
•Ø400 mm - 7 m³/h	**021911**	1	8,700	0,140
•Ø500 mm - 10 m³/h	**021912**	1	11,700	0,200
•Ø615 mm - 15 m³/h	**021913**	1	15,700	0,325

Ergonomic clamped lid

Side multiport valve and Water drainage

Folding collector arms

TECHNICAL CHARACTERISTICS

	Top mounted multiport valve			Side mounted multiport valve		
MODEL	021921	021922	021923	021911	021912	021913
D (mm)	400	500	615	400	500	615
H_1 (mm)	695	735	855	615	660	775
H_2 (mm)	525	565	685	-	-	-
H_3 (mm)	-	-	-	555	600	715
H_4 (mm)	-	-	-	200	220	280
H_5 (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 (m³/h) (50 m³/h/m²) max (40 m³/h/m²) (30 m³/h/m²) mini	7 5 4	10 8 6	15 12 9	7 5 4	10 8 6	15 12 9
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

Environment friendly

2 years Parts WARRANTY

Deep Bed, Single / Multilayer Pool Filters

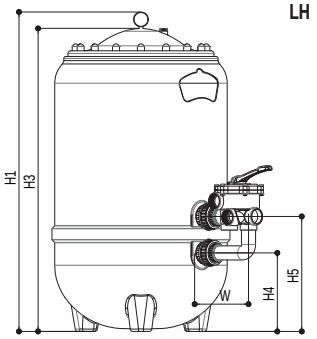
GEMAS "FILTRONE-HB" PE PLASTIC SAND FILTERS.
Filter Shell made of PE plastic by rotational moulding. One-piece body, includes pressure gauge, 1,5" side mounted multiport valve and air purge. **2-years body warranty.** Collector with laterals. Test pressure 3,5 kg/cm². Max. Operation ressure 2,5 kg/m².

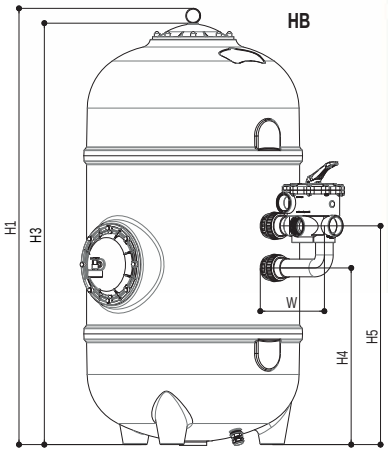
40 cm wide opening

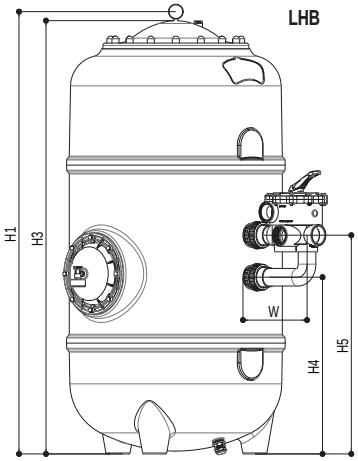
Folding collector arms

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•Ø 560 mm, 1,5" Ç.Y. Vana	**021818HB**	1		
•Ø 560 mm, Large Lid,1,5" multiport valve	**021818LHB**	1		
10 m³/h w/single layer - 13 m³/h w/multilayer				
•Ø 615 mm Large Lid, 15 m³/h	**021813LH**	1	31,000	0,444
Medium deep - 1,5" multiport side valve				
•Ø 615 mm - 1,5" multiport valve	**021813HB**	1	35,200	0,584
•Ø 615 mm - 1,5" multiport valve	**021813LHB**	1	55,000	0,852
12 m³/h w/single layer - 15 m³/h w/multilayer				
•Ø 760 mm - 2" multiport valve	**021814HB**	1		
18 m³/h w/single layer - 23 m³/h w/multilayer				
•Ø 760 mm - 2" multiport valve	**021814LHB**	1		
18 m³/h w/single layer - 23 m³/h w/multilayer				
•Ø 920 mm - 2" multiport valve	**021815HB**	1		
26 m³/h w/single layer - 33 m³/h w/multilayer				
•Ø 920 mm - 2" multiport valve	**021815LHB**	1		
26 m³/h w/single layer - 33 m³/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_1 (mm)	1460	1460	1140	1510	1560	1560	1610	1610	1660
H_3 (mm)	1410	1410	1080	1460	1500	1510	1550	1650	1600
H_4 (mm)	600	600	280	580	580	630	630	650	650
H_5 (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 (m³/h) (50 m³/h/m²)	13	13	15	15	15	23	23	33	33
FLOW (m³/h) (40 m³/h/m²)	10	10	12	12	12	18	18	26	26
FLOW (m³/h) (30 m³/h/m²)	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				

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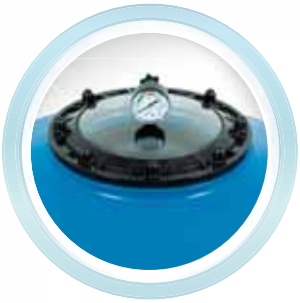
Composite Body Pool Filters

"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/cm². Max. operation pressure 2,5 kg/cm². Filtration rate: 50 m³/h/m². **2-years body warranty.**

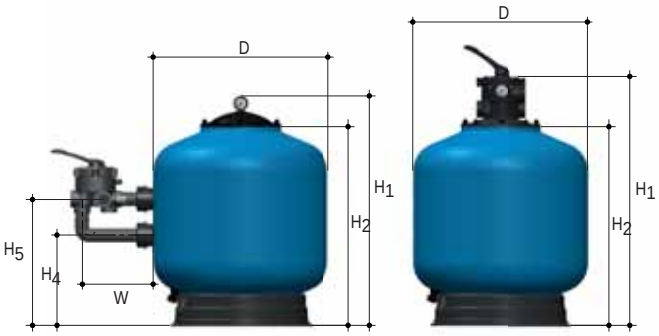


Transparent bolted lid
(Optional) (Patented)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø 500 mm - 10 m³/h 1,5" multiport valve	**021712**	1	17,000	0,215
• Ø 630 mm - 16 m³/h 1,5" multiport valve	**021713**	1	20,000	0,325
• Ø 710 mm - 20 m³/h 2" multiport valve	**021714**	1	32,000	0,440
• Ø 830 mm - 27 m³/h 2" multiport valve	**021715**	1	38,000	0,660
• Ø 900 mm - 32 m³/h 2" multiport valve	**021716**	1	47,000	0.790
• Ø 1000 mm - 40 m³/h 2,5" multiport valve	**021717M**	1	58,000	0,930
• Ø 1000 mm - 40 m³/h 2,5" without m.v	**021717**	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 m³/h 1,5" top multiport valve	**021712T**	1	15,000	0,215
• Ø 630 mm - 16 m³/h 1,5" top multiport valve	**021713T**	1	18,000	0,325
• Ø 710 mm - 20 m³/h 2" top multiport valve	**021714T**	1	30,000	0,440
• Ø 830 mm - 27 m³/h 2" top multiport valve	**021715T**	1	36,000	0,660
• Ø 900 mm - 32 m³/h 2" top multiport valve	**021716T**	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_1 (mm)	750	830	880	940	990	1050	810	890	980	1030	1080
H_2 (mm)	630	710	770	820	870	930	630	710	770	820	870
H_4 (mm)	300	325	350	350	400	375	-	-	-	-	-
H_5 (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 (m³/h) (50 m³/h/m²) max	10	16	20	27	32	40	10	16	20	27	32
(40 m³/h/m²)	8	12	16	22	26	32	8	12	16	22	26
(30 m³/h/m²) mini	6	9	12	16	19	24	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

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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/cm². Max. Operation pressure 2,5 kg/m². Filtration rate 50 m³/h/m². **2-years body warranty.**

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø400 mm -1,5" side mounted multiport valve - 7 m³/h	**021311B**	1	7,700	0,145
•Ø500 mm -1,5" side mounted multiport valve - 10 m³/h	**021312B**	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/cm². Test pressure 4,0 kg/cm². Filtration rate: 50 m³/h/m². **2-years body warranty.**

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø400 mm -1,5" top mounted multiport valve - 7 m³/h	**021321B**	1	8,000	0,145
•Ø500 mm -1,5" top mounted multiport valve - 10 m³/h	**021322B**	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_1 (mm)	815	940	670	800
H_2 (mm)	580	705	580	705
H_3 (mm)	-	-	610	740
H_4 (mm)	-	-	240	300
H_5 (mm)	-	-	385	440
W (mm)	-	-	260	260
CONNECTIONS Ø (mm)	1,5"	1,5"	1,5"	1,5"
FLOW (m³/h) (50 m³/h/m²) max (40 m³/h/m²) (30 m³/h/m²) mini	7 5 4	10 8 6	7 5 4	10 8 6
SAND (Kg)	80	100	80	100
NET WEIGHT (Kg)	8,000	10,500	7,700	10,200

Folding collector arms

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Composite Body Pool Filters

"Turbidron-SL" Bobbin Wound Filters

5 years Parts WARRANTY

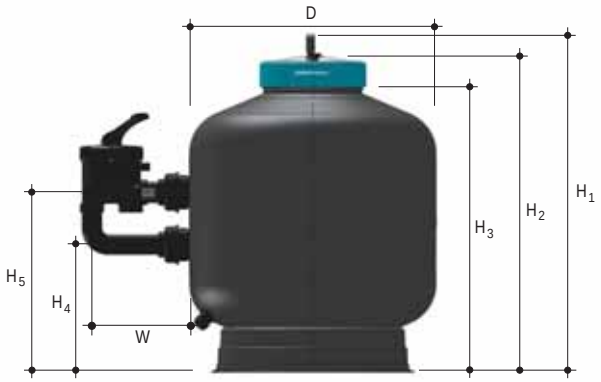
GEMAS "TURBIDRON-SL" SIDE MOUNTED POOL SAND FILTERS.
Filter shell made of smooth ABS plastic that reduces algae and bacteria adhesion. Complete with Easy opening "threaded lid", large and transparent lid (diameter is 2 cm larger than bolted lid), Complete with pressure gauge and side mounted multiport valve. **OPTIONAL LIGHTING TOUCHPAD BUTTON WITH BATTERY** to observe inside the filter. Maximum Working Pressure 2,5 kg/cm². Test Pressure 4 kg/cm². Filtration Rate 50 m³/h/m². **2-years body warranty.**

Easy opening "threaded lid"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•Ø500 mm - 10 m³/h 1,5" m.valve	**021712S**	1	17,000	0,215
•Ø630 mm - 16 m³/h 1,5" m.valve	**021713S**	1	20,000	0,325
•Ø710 mm - 20 m³/h 2" m.valve	**021714S**	1	32,000	0,440
•Ø830 mm - 27 m³/h 2" m.valve	**021715S**	1	38,000	0,660
•Ø900 mm - 32 m³/h 2" m.valve	**021716S**	1	47,000	0.790
•Ø1000 mm - 40 m³/h 2,5" without m.valve.	**021717S**	1	58,000	0,930
•Ø1000 mm - 40 m³/h 2,5" m.valve	**021717SM**	1	58,000	0,930

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

LED lighting transparent lid (Optional)



Side multiport valve and Water drainage

TECHNICAL CHARACTERISTICS

MODEL	021712S	021713S	021714S	021715S	021716S	021717S
D (mm)	500	630	710	830	900	1000
H_1 (mm)	750	865	920	910	1010	1305
H_2 (mm)	690	815	860	870	960	1245
H_3 (mm)	610	730	780	795	875	1185
H_4 (mm)	300	-	350	350	390	500
H_5 (mm)	430	-	500	500	540	830
W (mm)	260	260	295	295	295	-
CONNECTIONS Ø (mm)	1,5"	1,5"	2"	2"	2"	2,5"
FLOW (m³/h) (50 m³/h/m²) max	10	16	20	27	32	40
(40 m³/h/m²)	8	12	16	22	26	32
(30 m³/h/m²) mini	6	9	12	16	19	24
SAND (Kg)	100	150	250	350	450	700
NET WEIGHT (Kg)	17,300	20,300	32,000	38,300	47,300	58,300

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Composite Body Pool Filters

Easy Sand Change !

2 years Parts WARRANTY

"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/cm², maximum operation pressure 2,5 kg/cm², Maximum filtration rate 50 m³/h/m². **2-years shell warranty.**

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø560 mm Large Lid - 1,5" side mounted multiport valve - 13 m³/h	**021112LLT**	1	20,000	0,215
•Ø615 mm Large Lid - 1,5" side mounted multiport valve - 15 m³/h	**021113LLT**	1	25,000	0,325
•Ø760 mm Large Lid - 2" side mounted multiport valve - 23 m³/h	**021114LLT**	1	32,000	0,440
•Ø830 mm Large Lid - 2" side mounted multiport valve - 27 m³/h	**021115LLT**	1	40,000	0,660
•Ø920 mm Large Lid - 2" side mounted multiport valve - 33 m³/h	**021116LLT**	1	50,000	0,790
•Ø1000 mm Large Lid without valve, 2,5" connection - 40 m³/h	**021117LLT**	1	70,000	0,930
•Ø1200 mm Large Lid without valve, 3" connection - 57 m³/h	**021216LLT**	1	80,000	1,160

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_1 (mm)	800	830	960	1030	1140	1375	1280
H_2 (mm)	-	-	-	-	-	-	-
H_3 (mm)	740	780	900	970	1035	1325	1230
H_4 (mm)	285	345	350	360	450	515	455
H_5 (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 (m³/h) (50 m³/h/m²) max	13	15	23	27	33	40	57
(40 m³/h/m²)	10	12	18	22	26	32	45
(30 m³/h/m²) 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

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Composite Body Pool Filters

Couplings compatible with d50
Fitvalf ball valve handle

Side multiport valve

"Filtrex 2025" High Rate Sand Filters

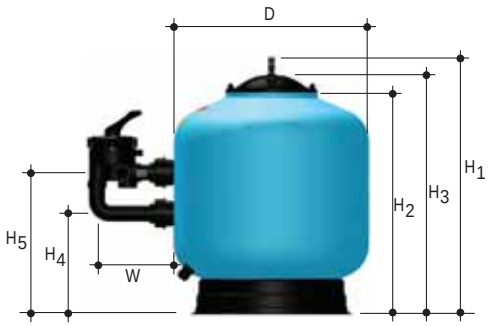
GEMAS "FILTREX 2025" SAND FILTERS.
Filter Shell Made of Smooth ABS plastic laminated with FRP, outer surface is arylic. Monobloc outlook has been produced by an unique technic. Complete with pressure gauge and side mounted multiport valve. Maximum Working Pressure 2,5 kg /cm². Test Pressure 4 kg/cm². Filtration Rate 50 m³/h/m². **Transparent Bolted Lid (optional). 2-year warranty.**

Transparent bolted lid
(Optional) (Patented)

Top valve

Description	Code	Pieces/ box	Weight Kg	Volume m³
•Ø500 mm - 1,5" multiport side valve -10 m³/h	**021610**	1	19,000	0,215
•Ø630 mm - 1,5" multiport side valve -16 m³/h	**021611**	1	23,000	0,325
•Ø710 mm - 2" multiport side valve - 20 m³/h	**021612**	1	35,000	0,440
•Ø900 mm - 2" multiport side valve - 32 m³/h	**021613**	1		
•Ø500 mm - 1,5" multiport top valve -10 m³/h	**021610T**	1	17,000	0,215
•Ø630 mm - 1,5" multiport top valve -16 m³/h	**021611T**	1	21,000	0,325
•Ø710 mm - 2" multiport top valve - 20 m³/h	**021612T**	1	33,000	0,440
•Ø900 mm - 2" multiport top valve - 32 m³/h	**021613T**	1		

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



TECHNICAL CHARACTERISTICS

MODEL	021610	021611	021612	021613	021610T	021611T	021612T	021613T
D (mm)	500	630	710	900	500	630	710	900
H_1 (mm)	750	820	890	890	820	890	960	960
H_2 (mm)	640	710	780	780	630	710	770	770
H_3 (mm)	700	760	840	840	-	-	-	-
H_4 (mm)	300	325	340	340	-	-	-	-
H_5 (mm)	430	455	490	490	-	-	-	-
W (mm)	260	260	295	295	260	260	295	295
CONNECTIONS Ø (mm)	1,5"	1,5"	2"	2"	1,5"	1,5"	2"	2"
FLOW (m³/h) (50 m³/h/m²) max	10	16	20	32	10	16	20	32
(40 m³/h/m²)	8	12	16	26	8	12	16	26
(30 m³/h/m²) mini	6	9	12	19	6	9	12	19
SAND (Kg)	100	150	250	250	100	150	250	250
NET WEIGHT (Kg)	19,000	23,000	35,000	35,000	17,000	21,000	33,000	33,000

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Composite Body Pool Filters

"Monocon" Pool Sand Filters

021145

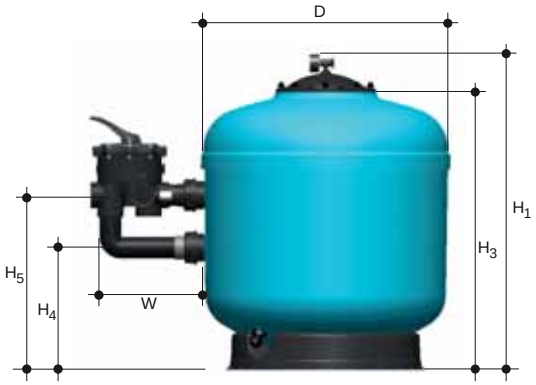
GEMAS "MONOCON" POOL SAND FILTER.
Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm². Test pressure: 3.5 kg/cm². 2-years warranty. All models have side valve connection.
Both connections of the filter are on the bottom shell of the filter.
Filtration Rate: 50 m³/h/m². Transparent Bolted Lid (optional).

Transparent bolted lid (Optional) (Patented)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø 450 mm - 1,5" Multi. Side Valve	**021140**	1		
• Ø 500 mm - 1,5" Multi. Side Valve	**021141**	1	17,000	0,215
• Ø 630 mm - 1,5" Multi. Side Valve	**021142**	1	22,800	0,325
• Ø 710 mm - 2" Multi. Side Valve	**021143**	1	30,000	0,470
• Ø 830 mm - 2" Multi. Side Valve	**021144**	1	38,600	0,665
• Ø 900 mm - 2" Multi. Side Valve	**021145**	1	46,300	0,905
• Ø 1000 mm - 2,5" Multi. Side without Valve	**021146**	1	63,200	1,021

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

021145



Side multiport valve

TECHNICAL CHARACTERISTICS

MODEL	021140	021141	021142	021143	021144	021145	021146
D (mm)	450	500	630	710	830	900	1000
H_1 (mm)	675	725	770	920	940	1000	1060
H_2 (mm)	-	-	-	-	-	-	-
H_3 (mm)	565	615	660	810	830	890	950
H_4 (mm)	245	245	280	340	380	415	330
H_5 (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 (m^3/h) (50 $m^3/h/m^2$) max	8	10	16	27	27	32	40
(40 $m^3/h/m^2$)	6	8	12	22	22	26	32
(30 $m^3/h/m^2$) mini	5	6	9	19	16	19	24
SAND (Kg)	80	100	150	250	350	450	600
NET WEIGHT (Kg)							

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Composite Body Pool Filters

2 years Parts WARRANTY

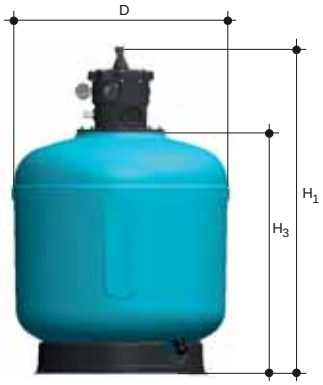
CE

"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/cm². Test pressure: 3.5 kg/cm². 2-year warranty. All models have top valve connection. Filtration Rate: 50 m³/h/m².

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

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_1 (mm)	745	795	840	1020	1040	1100	1160
H_2 (mm)	-	-	-	-	-	-	-
H_3 (mm)	565	615	660	810	830	890	950
H_4 (mm)	-	-	-	-	-	-	-
W (mm)	-	-	-	-	-	-	-
CONNECTIONS Ø(mm)	1,5"	1,5"	1,5"	2"	2"	2"	2,5"
FLOW (m³/h) (50 m³/h/m²) max	8	10	16	20	27	32	40
(40 m³/h/m²)	6	8	12	16	22	26	32
(30 m³/h/m²) mini	5	6	9	12	16	19	24
SAND (Kg)	80	100	150	250	350	450	600
NET WEIGHT (Kg)							

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Composite Body Pool Filters

“Monocon EVO” Pool Sand Filters

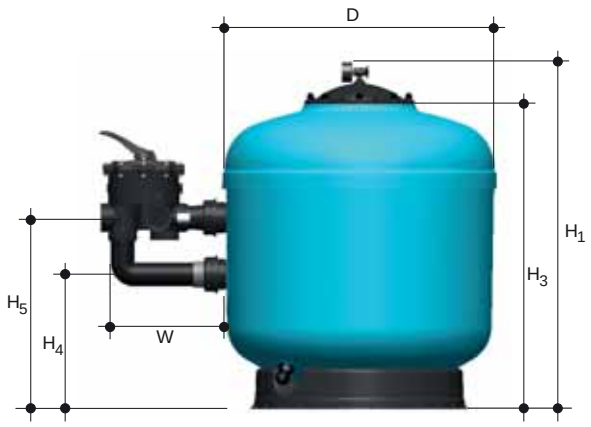
2 yıl Parça GARANTİSİ

GEMAS “MONOCON EVO” POOL SAND FILTER
Laminated onto an inner shell made of ABS plastic. Filter shell made of fiberglass reinforced polyester, complete with multiport valve, fittings, manometer and purge. Max. operation Pressure 2,5 kg/cm². Test pressure: 3.5 kg/cm². 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 m³/h/m². Transparent Bolted Lid (optional).

CODE + TL

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø 500 mm - 1,5" Multi. Side Valve	**021141EVO**	1	17,000	0,215
• Ø 630 mm - 1,5" Multi. Side Valve	**021142EVO**	1	22,800	0,325
• Ø 710 mm - 2" Multi. Side Valve	**021143EVO**	1	30,000	0,470
		1		
• Ø 500 mm - 1,5" Multi. Top Valve	**021141TEVO**	1	38,600	0,665
• Ø 630 mm - 1,5" Multi. Top Valve	**021142TEVO**	1	46,300	0,905
• Ø 710 mm - 2" Multi. Top Valve	**021143TEVO**	1	63,200	1,021

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



Side multiport valve

TECHNICAL CHARACTERISTICS

MODEL	021141EVO	021142EVO	021143EVO	021141TEVO	021142TEVO	021143TEVO
D (mm)	500	630	710	500	630	710
H_1 (mm)	750	820	890	820	890	960
H_2 (mm)	640	710	780	630	710	770
H_3 (mm)	700	760	840	-	-	-
H_4 (mm)	300	325	340	-	-	-
H_5 (mm)	430	455	490	-	-	-
W (mm)	260	260	295	260	260	295
CONNECTIONS Ø(mm)	1,5"	1,5"	2"	1,5"	1,5"	2"
FLOW (m^3/h) (50 $m^3/h/m^2$) max	10	16	20	10	16	20
(40 $m^3/h/m^2$)	8	12	16	8	12	16
(30 $m^3/h/m^2$) mini	6	9	12	6	9	12
SAND (Kg)	100	150	250	100	150	250
NET WEIGHT (Kg)						

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Composite Body Pool Filters

"Monocon TLL" Pool Sand Filters

NEW !

2 years Parts WARRANTY

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/cm². Test pressure: 3.5 kg/cm². 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 m³/h/m². Transparent large bolted lid.
Lid inner diameter: Ø 360 mm (Ø560 mm); Ø400 mm (Ø630 mm and above)

Monocon transparent bolted wide lid

021142TLL

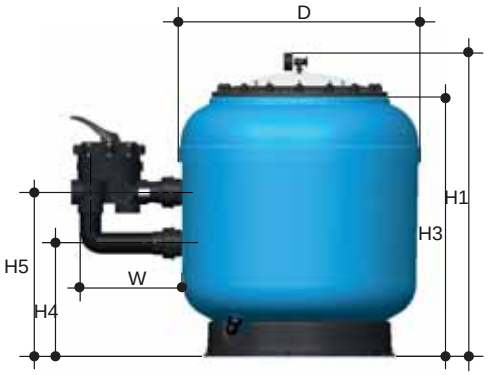
Description	Code	Pieces/ box
• Ø500 1,5" Multi. Side Valve and Wide Transparent Lid	**021141TLL**	1
• Ø630 1,5" Multi. Side Valve and Wide Transparent Lid	**021142TLL**	1
• Ø710 2" Multi. Side Valve and Wide Transparent Lid	**021143TLL**	1
• Ø830 2" Multi. Side Valve and Wide Transparent Lid	**021144TLL**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

PS: When ordering Broadex wide clear screw cap products, add "LLT" to the code; when ordering opaque cap products, add "L" to the code. Please refer to the price list for price differences.

Optional Lids

Monocon opaque lid
CODE + L

Broadex wide transparent screw cap
(plastic opening handle)
(excluding Ø 500 mm)
CODE + LLT
Lid inner diameter: Ø 380 mm



021146TLL

TECHNICAL CHARACTERISTICS

MODEL	Ø500	Ø630	Ø710	Ø830	Ø900	Ø1000	Ø1200
D (mm)	500	630	710	830	900	1000	1200
H_1 (mm)	775	895	940	960	1020	1080	1230
H_2 (mm)	-	-	-	-	-	-	-
H_3 (mm)	665	765	810	830	890	950	1100
H_4 (mm)	305	310	340	380	415	330	430
H_5 (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 (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)							

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Composite Body Pool Filters

021142UNI

NEW !

2 years Parts WARRANTY

Monocon UNI" 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/cm². Test pressure: 3.5 kg/cm². 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 m³/h/m². Transparent large bolted lid.
Lid inner diameter: Ø 360 mm (Ø560 mm); Ø400 mm (Ø630 mm and above)

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

PS: When ordering Broadex wide clear screw cap products, add "LLT" to the code; when ordering opaque cap products, add "L" to the code. Please refer to the price list for price differences.

Opsiyonel Kapaklar

Monocon opaque lid
CODE + L

Broadex wide transparent screw cap
(plastic opening handle)
(excluding Ø 500 mm)
CODE + LLT

Optional Menhol
Opaque Code + M
Transparent Code + MT

TECHNICAL CHARACTERISTICS

MODEL	Ø500	Ø630	Ø710	Ø830	Ø900	Ø1000
D (mm)	500	630	710	830	900	1000
H_1 (mm)	1170	1200	1230	1270	1300	1330
H_2 (mm)	1120	1150	1180	1220	1250	1280
H_3 (mm)	-	-	-	-	-	-
H_4 (mm)	450	450	470	470	500	500
H_5 (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 (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)						

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Composite Body Pool Filters

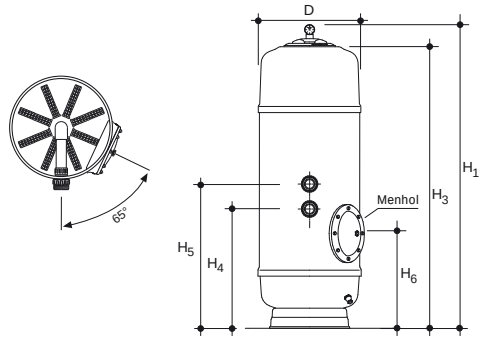
High Bed, Single or Multi-Layer Sand Filters

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/cm². Max. operation pressure 2,5 kg/cm². **Please ask price for 4,0 and 6,0 kg/cm² operation pressures. Sight Glass and Transparent Bolted Lid is optional.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø500 mm - 1,5" multiport valve -	**021311HB**	1	30,000	0,403
8 m³/h **w/single layer**				
10 m³/h **w/multilayer**				
• Ø630 mm - 1,5" multiport valve -	**021312HB**	1	35,200	0,584
12 m³/h **w/single layer**				
16 m³/h **w/multilayer**				
• Ø710 mm - 2" multiport valve -	**021313HB**	1	55,000	0,852
16 m³/h **w/single layer**				
21 m³/h **w/multilayer**				
• Ø800 mm - 2" multiport valve -	**021314HB**	1	71,000	1,230
20 m³/h **w/single layer**				
25 m³/h **w/multilayer**				
• Ø900 mm - 2" multiport valve -	**021315HB**	1	78,500	1,420
26 m³/h **w/single layer**				
32 m³/h **w/multilayer**				
• Ø1000 mm - w/out multiport valve -	**021316HB**	1	125,000	
32 m³/h **w/single layer**				
39 m³/h **w/multilayer**				

PS: Ozone resistant filters are quoted upon request.
PS: Please add "TL" to the code when ordering.

Transparent bolted lid
(Optional) (Patented)



TECHNICAL CHARACTERISTICS

MODEL	021311HB	021312HB	021313HB	021314HB	021315HB	021316HB
D (mm)	500	630	710	800	900	1000
H_1 (mm)	1610	1510	1690	1780	1765	1860
H_2 (mm)	-	-	-	-	-	-
H_3 (mm)	1490	1410	1530	1600	1650	1700
H_4 (mm)	605	590	690	605	700	495
H_5 (mm)	735	720	840	755	850	1335
H_6 (mm)	580	630	650	330	715	970
CONNECTIONS (Ø)	1,5"	1,5"	2"	2"	2"	3"
FLOW (m³/h) (50 m³/h/m²) max	10	16	21	25	32	39
(40 m³/h/m²)	8	12	16	20	26	32
(30 m³/h/m²) mini	6	9	12	15	19	28
ANTHRACITE 0,8 - 1,6 mm (lt)	150, 000	200, 000	250, 000	320, 000	470, 000	475, 000
QUARTZ SAND 0,5 - 1 mm (Kg)	150, 000	200, 000	250, 000	320, 000	470, 000	475, 000
QUARTZ SAND 1 - 3 mm (Kg)	100, 000	150, 000	215, 000	270, 000	420, 000	425, 000
NET WEIGHT (Kg)	30, 000	35, 200	55, 000	71, 000	78, 500	125,000

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Composite Body Pool Filters

"Filtrex and Neptune" Filtration Units

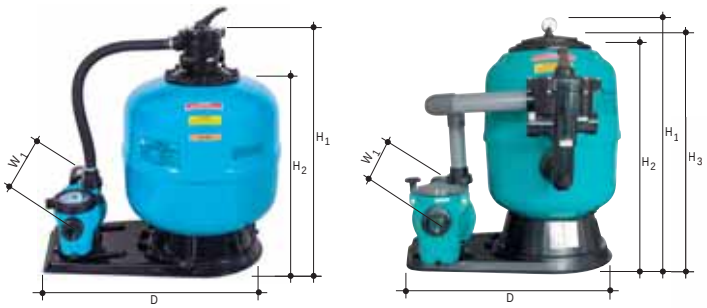
GEMAS "FILTREX" FILTRATION UNIT.
Fiberglass reinforced polyester filter assembled on a plastic base and installed with a pool pump.
1,5" multiport valve **Top Mounted.** Interconnection piping between the pump and the filter are both included.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø450 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono	**021111TFU**	1	34,050	0,440
• Ø500 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono	**021112TFU**	1	36,950	0,460
• Ø630 mm with Fiberglass Reinforced Polyester Filter, Pump 1,0 HP, Mono	**021113TFU**	1	39,850	0,808

Top bolted lid (Optional)

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/ box	Weight Kg	Volume m^3
• Ø450 mm with Fiberglass Reinforced Polyester Filter, Pump 0,5 HP, Mono	**021211FU**	1	33,850	0,440
• Ø500 mm with Fiberglass Reinforced Polyester Filter, Pump 0,75 HP, Mono	**021212FU**	1	36,650	0,460
• Ø650 mm with Fiberglass Reinforced Polyester Filter, Pump 1,0 HP, Mono	**021213FU**	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_1 (mm)	585	610	685	770	800	890
H_2 (mm)	765	790	865	615	655	735
H_3 (mm)	-	-	-	710	740	830
H_4 (mm)	-	-	-	-	-	-
H_5 (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 (m^3/h) ($50\ m^3/h/m^2$) max ($40\ m^3/h/m^2$) ($30\ m^3/h/m^2$) mini	8 6 5	10 8 6	16 12 9	8 6 5	10 8 6	16 12 9
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

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Plastic Body Filtration Units

"Premium" Filtration Units

2 years Parts WARRANTY

Environment friendly

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.

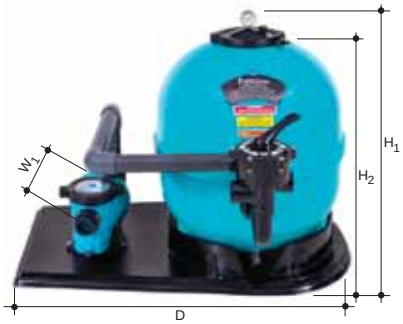
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø400 mm with Plastic Sand Filter, Pump 0,33 HP, Mono - Micro	**021921FU**	1	25,000	0,150
• Ø500 mm with Plastic Sand Filter, Pump 0,5 HP, Mono - Micro	**021922FU**	1	30,000	0,190
• Ø615 mm with Plastic Sand Filter, Pump 0,75 HP, Mono - Mini	**021923FU**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

2 years Parts WARRANTY

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^3
• Ø400 mm with Plastic Sand Filter, Pump 0,33 HP, Mono - Micro	**021911FU**	1	24,000	0,150
• Ø500 mm with Plastic Sand Filter, Pump 0,5 HP, Mono - Micro	**021912FU**	1	29,000	0,190
• Ø615 mm with Plastic Sand Filter, Pump 0,75 HP, Mono - Mini	**021913FU**	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_1 (mm)	*290*	*330*	*344*	*280*	*320*	*334*
H_2 (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^3/h) (50 $m^3/h/m^2$) max	*7*	*10*	*15*	*7*	*10*	*15*
(40 $m^3/h/m^2$)	*5*	*8*	*12*	*5*	*8*	*12*
(30 $m^3/h/m^2$) mini	*4*	*6*	*9*	*4*	*6*	*9*
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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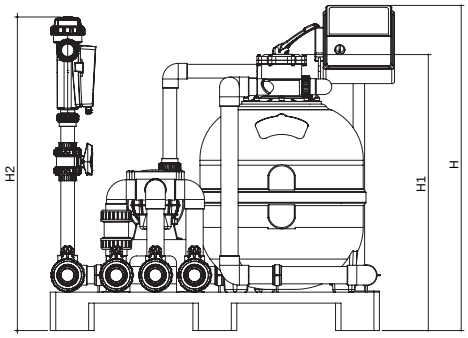
Pool Filters

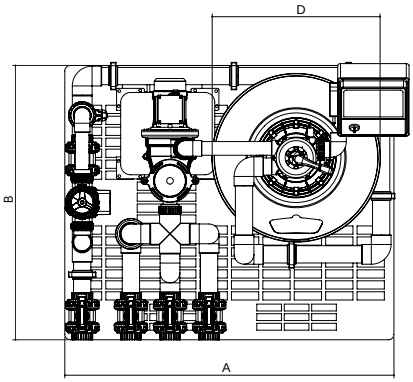
Palletized Filtration System

2 years Parts WARRANTY

Completely Installed on 100 x 120 cm pallet. 3 suctions, 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	**02526**
• Ø615 mm Top Filter - 1 HP Mini Mono Pump	**02527**
• Ø760 mm Top Filter - 1,5 HP Pump	**02528**
• Ø500 mm Top Filter - 0,75 HP Mini Mono Pump - with Salt Chlorinator, Electric Panel	**02536**
• Ø615 mm Top Filter - 1 HP Mini Mono Pump - with Salt Chlorinator, Electric Panel	**02537**
• Ø760 mm Top Filter - 1,5 HP Pump - with Salt Chlorinator, Electric Panel	**02538**





Salt chlorinator (optional)

Electric panel (optional)

TECHNICAL CHARACTERISTICS

MODEL	A	B	D	H	H¹	H²
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

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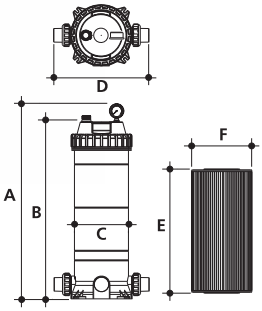
Composite Body Pool Filters

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^3
• AF25 Cartridge Filter - 5,5 m^3/h	**02411**	1	**5,000**	**0,040**
• AF50 Cartridge Filter - 11,4 m^3/h	**02413**	1	**5,500**	**0,050**
• AF75 Cartridge Filter - 17,0 m^3/h	**02414**	1	**6,500**	**0,060**
• AF100 Cartridge Filter - 22,9 m^3/h	**02415**	1	**7,500**	**0,070**
• AF150 Cartridge Filter - 33,4 m^3/h	**02416**	1		
• AF200 Cartridge Filter - 40,9 m^3/h	**02417**	1		

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



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

GEMAS REPLACEMENT CARTRIDGE

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• AF25-CE Cartridge	**0241101**	1		
• AF50-CE Cartridge	**0241301**	1		
• AF75-CE Cartridge	**0241401**	1		
• AF100-CE Cartridge	**0241501**	1		
• AF150-CE Cartridge	**0241601**	1		
• AF200-CE Cartridge	**0241701**	1		

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“Turbidron” Bobbin Wound Filters

ADDITIONAL OPTIONS FOR GEMAS “TURBIDRON” BOBBIN WOUND SAND FILTERS

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Round Manhole (2,5 bar) Ø400 mm	**0217172**	1		
• Ditto, Transparent Lid	**0217172T**	1		
• Round Manhole (4 bar) Ø400 mm	**0217182**	1		
• Transparent Lid (Price difference w/ opaque)	**0217119**			
• Sight Glass Ø90 mm	**0217192**	1		
• Sight Glass Ø125 mm	**0217202**	1		
• Sight Glass Ø200 mm	**0217212**	1		
• Automatic Air Purge 1"	**0217222**	1		
• Automatic Air Purge 2"	**0217232**	1		
• Double Manometer Set	**0217242**	1		
• Double Manometer Set W/Sampling V.	**0217252**	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)				

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Composite Body Pool Filters

“Turbidron” Bobbin Wound Filters

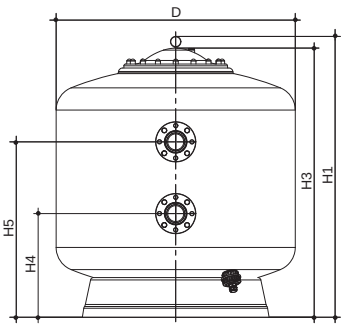
GEMAS “TURBIDRON” SAND FILTERS.
Up to size Ø1800, filter shell made of single piece Roto MOLDED PE. Larger sizes shell made of FR Polyester shell reinforced by fiberglass bobbin winding outside. Complete with pressure gauge, air release valve of 0,5". Test pressure 4,0 kg/cm². Max. operation pressure 2,5 kg/cm². Filtration rate: 50 m³/h/m².
Filtration bed depth:1,0 m (Excluding 021717E, 021725 and 021718).
***Please ask price for 4,0 and 6,0 kg/cm² operation pressures.**
****If you require an FRP shell instead of a PE shell, please add code + P.****

021725

021721

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø1200 mm - 57 m³/h, 75 mm unions	**021717E**	1	95,000	
• Ø1200 mm - 57 m³/h	**021725**	1	110 ,000	
• Ø1400 mm - 77 m³/h	**021718**	1	180,000	
• Ø1600 mm - 101 m³/h	**021719**	1	240,000	
• Ø1800 mm - 127 m³/h	**021720**	1	275,000	
• Ø2000 mm - 157 m³/h	**021721**	1	300,000	
• Ø2200 mm - 190 m³/h	**021722**	1	425,000	
• Ø2350 mm - 217 m³/h	**021727**	1		
• Ø2400 mm - 226 m³/h	**021723**	1	535,000	
• Ø2500 mm - 246 m³/h	**021724P**	1		
• Ø3000 mm - 354 m³/h	**021726P**	1		

PS: Filtration rate for public pools should not exceed 40 m³/h/m².



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_1 (mm)	1410	1410	1560	1860	1890	2000	2160	2300	2300	2450	2770
H_2 (mm)	-	-	-	-	-	-	-	-	-	-	-
H_3 (mm)	1350	1350	1500	1800	1830	1940	2100	2240	2240	2390	2710
H_4 (mm)	520	520	600	640	670	740	800	850	850	900	
H_5 (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 (m³/h) (50 m³/h/m²) max	57	57	77	101	127	157	190	217	226	246	354
(40 m³/h/m²)	45	45	62	80	102	126	152	174	181	196	283
(30 m³/h/m²) mini	34	34	46	60	76	94	114	130	136	147	212
SAND (Kg)	1075	1075	1600	2525	3400	4325	5925	7200	7600	8150	12000
NET WEIGHT (Kg)	95,000	110,000	180,000	240,000	275,000	300,000	425,000	500,000	535,000		

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Turbidron Commercial Sand Filters Design Options

	DESCRIPTION	Bed Depth 1.0 m Lateral Distribution	Bed Depth 1.20 m	Nozzle plate distribution system	Circular Manhole 2,5 Bar Ø400 mm	Circular Manhole 2,5 Bar Ø500 mm	Circular Manhole 2,5 Bar Ø600 mm	Sight Glass 2,5 Bar Ø90 mm	Sight Glass 2,5 Bar Ø125 mm	Sight Glass 2,5 Bar Ø200 mm	Sight Glass 2,5 Bar Ø250 mm	Automatic Air Purge 1"	Automatic Air Purge 2"	Double Manometer Set	Ozon Protection
X	Operation Pressure Max. 2,5 kg/cm² Test Pressure 4 kg/cm² Filtration Speed 40 m³/H/m²	A	B	C	D	N	E	F	G	H	I	J	K	L	M
1	Filter Ø1200 mm - 45 m³/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	Filter Ø1400 mm - 62 m³/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	Filter Ø1600 mm - 80 m³/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	Filter Ø1800 mm - 102 m³/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	Filter Ø2000 mm - 126 m³/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	Filter Ø2200 mm - 152 m³/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	Filter Ø2350 mm - 174 m³/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	Filter Ø2500 mm - 196 m³/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	Filter Ø3000 mm - 283 m³/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 1.0 m Lateral Distribution	Bed Depth 1.20 m	Nozzle plate distribution system	Circular Manhole 4 Bar Ø400 mm	Circular Manhole 4 Bar Ø500 mm	Circular Manhole 4 Bar Ø600 mm	Sight Glass 4 Bar Ø90 mm	Sight Glass 4 Bar Ø125 mm	Sight Glass 4 Bar Ø200 mm	Sight Glass 4 Bar Ø250 mm	Automatic Air Purge 1"	Automatic Air Purge 2"	Double Manometer Set	Ozon Protection
Y	Operation Pressure Max. 4 kg/cm² Test Pressure 6 kg/cm² Filtration Speed 40 m³/H/m²	A	B	C	D	N	E	F	G	H	I	J	K	L	M
1	Filter Ø1200 mm - 45 m³/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	Filter Ø1400 mm - 62 m³/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	Filter Ø1600 mm - 80 m³/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	Filter Ø1800 mm - 102 m³/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	Filter Ø2000 mm - 126 m³/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	Filter Ø2200 mm - 152 m³/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	Filter Ø2350 mm - 174 m³/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	Filter Ø2500 mm - 196 m³/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	Filter Ø3000 mm - 283 m³/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)

Composite Body Pool Filters

“Turbidron - Norm Plus” Deep - Bed Sand Filter

2 years Parts WARRANTY

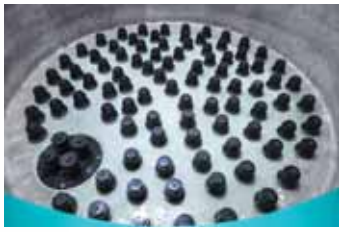
GEMAS “TURBIDRON-NORM PLUS” SAND FILTERS (According to DIN 19605 and 19643).

Bed depth:1,20 m. Test pressure 4 kg/cm².
Max. operation pressure 2,5 kg/cm².
Filtration Rate: Single Layer (Quartz Sand) : 30 m³/h/m².
Multilayer (Quartz Sand + Anthracite and/or zeolite) : 50 m³/h/m².

Large top lid

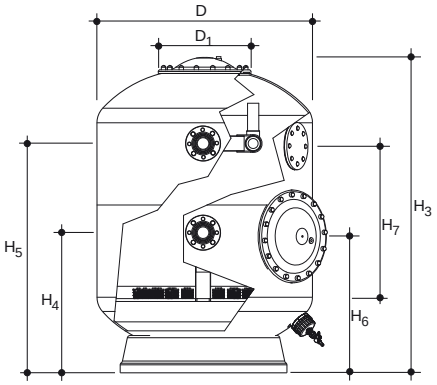
FR polyester connection

Side manhole



Nozzle distribution system

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Ø 900 mm - 32 m³/h	**021512**	1	1000,000	
• Ø 1000 mm - 39,5 m³/h	**021513**	1	1300,000	
• Ø 1200 mm - 56,5 m³/h	**021514**	1	1800,000	
• Ø 1400 mm - 77 m³/h	**021515**	1	2350,000	
• Ø 1600 mm - 100,5 m³/h	**021516**	1	3300,000	
• Ø 1800 mm - 127 m³/h	**021517**	1	4400,000	
• Ø 2000 mm - 157 m³/h	**021518**	1	5700,000	
• Ø 2200 mm - 190 m³/h	**021519**	1	6850,000	
• Ø 2400 mm - 226 m³/h	**021520**	1	7700,000	
• Ø 2500 mm - 254,5 m³/h	**021521**	1	8300,000	
PS: Filtration rate for public pools should not exceed 50 m³/h/m².		1		



TECHNICAL CHARACTERISTICS

MODEL	021512	021513	021514	021515	021516	021517	021518	021519	021520	021521
D (mm)	900	1000	1200	1400	1600	1800	2000	2200	2400	2500
D_1 (mm)	-	-	-	-	-	-	-	-	-	-
H_3 (mm)	2000	2100	2180	2360	2420	2530	2580	2580	2580	2580
H_4 (mm)	550	750	750	820	850	900	950	950	1000	1000
H_5 (mm)	1450	1550	1550	1520	1550	1600	1700	1700	1750	1750
H_6 (mm)	900	900	900	1000	950	950	1100	1000	1000	1000
H_7 (mm)	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
CONNECTIONS Ø (mm)	63	63	75	90	110	110	125	140	160	160
FLOW (m³/h) (50 m³/h/m²) max	32	40	57	77	101	127	157	190	226	246
(40 m³/h/m²)	26	32	45	62	80	102	126	152	181	196
(30 m³/h/m²) mini	19	24	34	46	60	76	94	114	136	147
SAND (Kg)	1000	1300	1900	2600	3400	4400	5300	6600	8000	8600

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Composite Body Pool Filters

2 years Parts WARRANTY

“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/cm². Max. operation pressure 2,5 kg/cm².
Filtration rate Max. 30 m³/h/m².
Pls. ask price for 4 Bar working pressure.
Pls. ask price for “Dual Stack” version.

Description	Code	Pieces/ box
Filtration Bed Depth 0,6 m.		
•Ø1000 mm - L = 1500 mm. 34 m³/h	**02197161**	1
•Ø1000 mm - L = 2000 mm. 51 m³/h	**02197162**	1
•Ø1200 mm - L = 2000 mm. 63 m³/h	**02197171**	1
•Ø1200 mm - L = 2500 mm. 80 m³/h	**02197172**	1
Filtration Bed Depth 0,8 m.		
•Ø1400 mm - L = 2000 mm. 70 m³/h	**02197181**	1
•Ø1400 mm - L = 2500 mm. 88 m³/h	**02197182**	1
•Ø1400 mm - L = 3000 mm. 110 m³/h	**02197183**	1
•Ø1600 mm - L = 2000 mm. 87 m³/h	**02197191**	1
•Ø1600 mm - L = 2500 mm. 105 m³/h	**02197192**	1
•Ø1600 mm - L = 3000 mm. 137 m³/h	**02197193**	1
•Ø1600 mm - L = 4000 mm. 163 m³/h	**02197194**	1
•Ø1600 mm - L = 4500 mm. 190 m³/h	**02197195**	1
Filtration Bed Depth 1,0 m.		
•Ø1800 mm - L = 2500 mm. 114 m³/h	**02197201**	1
•Ø1800 mm - L = 3000 mm. 140 m³/h	**02197202**	1
•Ø1800 mm - L = 3500 mm. 166 m³/h	**02197203**	1
•Ø1800 mm - L = 4000 mm. 191 m³/h	**02197204**	1
•Ø2000 mm - L = 2500 mm. 123 m³/h	**02197211**	1
•Ø2000 mm - L = 3000 mm 152 m³/h	**02197212**	1
•Ø2000 mm - L = 3500 mm. 180 m³/h	**02197213**	1
•Ø2000 mm - L = 4000 mm. 209 m³/h	**02197214**	1
•Ø2000 mm - L = 4500 mm. 236 m³/h	**02197215**	1
•Ø2000 mm - L = 5000 mm. 265 m³/h	**02197216**	1
•Ø2200 mm - L = 2500 mm. 137 m³/h	**02197221**	1
•Ø2200 mm - L = 3000 mm. 165 m³/h	**02197222**	1
•Ø2200 mm - L = 3500 mm. 197 m³/h	**02197223**	1
•Ø2200 mm - L = 4000 mm. 229 m³/h	**02197224**	1
•Ø2200 mm - L = 4500 mm. 258 m³/h	**02197225**	1
•Ø2200 mm - L = 5000 mm. 287m³/h	**02197226**	1
Filtration Bed Depth 1,2 m.		
•Ø2400 mm - L = 3000 mm. 179 m³/h	**02197231**	1
•Ø2400 mm - L = 3500 mm. 214 m³/h	**02197232**	1
•Ø2400 mm - L = 4000 mm. 248 m³/h	**02197233**	1
•Ø2400 mm - L = 5000 mm. 306 m³/h	**02197234**	1
•Ø2500 mm - L = 4000 mm. 267 m³/h	**02197241**	1
•Ø2500 mm - L = 5000 mm. 341 m³/h	**02197242**	1

Dual stack
Horizontal filter

Dual stack assembly detail

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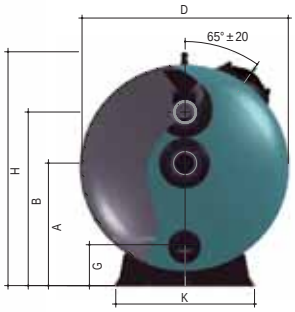
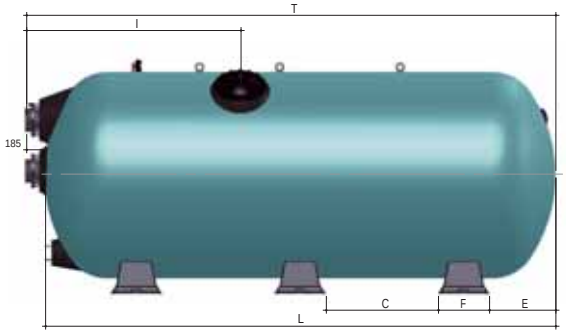
Composite Body Pool Filters

“Turbidron” Bobbin Wound Horizontal Filters





TECHNICAL CHARACTERISTICS

MODEL	D (mm)	L±20 (mm)	A±50 (mm)	B±20 (mm)	C±50 (mm)	E±50 (mm)	F±20 (mm)	G±50 (mm)	H±50 (mm)	I±100 (mm)	K±50 (mm)	T±30 (mm)	Connec. (Ø) (mm)	Flow (m³/h) (50 m³/h/m²)	Sand (Kg)	Net Weight (Kg)
02197161	1000	1500	610	930	370	380	190	250	1250	750	750	1630	90	40	525	138
02197162	1000	2500	610	930	1170	500	190	250	1250	1250	750	2650	125	40	525	208
02197171	1200	2000	710	1030	840	380	200	250	1450	750	900	2250	125	57	1075	216
02197172	1200	2500	710	1030	1100	500	200	250	1450	1000	900	2650	140	57	1075	258
02197181	1400	2000	810	1200	820	380	210	250	1650	750	1000	2250	125	77	1600	262
02197182	1400	2500	810	1200	1080	500	210	250	1650	1000	1000	2650	140	77	1600	310
02197183	1400	3000	810	1200	685	500	210	250	1650	1000	1000	3180	160	77	1600	359
02197191	1600	2000	810	1380	600	450	240	250	1850	750	1200	2250	140	101	2525	310
02197192	1600	2500	910	1380	1020	500	240	250	1850	1000	1200	2680	160	101	2525	366
02197193	1600	3000	910	1380	640	500	240	250	1850	1000	1200	3180	160	101	2525	421
02197194	1600	4000	910	1380	1090	550	240	250	1850	1500	1200	4180	160	101	2525	561
02197195	1600	4500	910	1380	780	600	240	250	1850	1500	1200	4700	200	101	2525	631
02197201	1800	2500	910	1560	860	550	270	300	2080	1000	1400	2680	160	127	3400	472
02197202	1800	3000	1030	1560	1260	600	270	300	2080	1000	1400	3680	160	127	3400	541
02197203	1800	3500	1030	1560	795	550	270	300	2080	1000	1400	3700	200	127	3400	611
02197204	1800	4000	1030	1560	1045	550	270	300	2080	1500	1400	4200	200	127	3400	680
02197211	2000	2500	1030	1730	800	550	300	400	2300	1000	1500	2680	160	157	4325	540
02197212	2000	3000	1160	1730	1100	650	300	400	2300	1000	1500	3180	160	157	4325	617
02197213	2000	3500	1160	1730	750	550	300	400	2300	1000	1500	3700	200	157	4325	694
02197214	2000	4000	1160	1730	1000	550	300	400	2300	1500	1500	4200	200	157	4325	771
02197215	2000	4500	1160	1730	1150	650	300	400	2300	1500	1500	4730	225	157	4325	848
02197216	2000	5000	1160	1730	900	550	300	400	2300	1750	1500	5230	225	157	4325	925
02197221	2200	2500	1260	1860	800	550	300	400	2500	1000	1750	2750	200	190	5925	673
02197222	2200	3000	1260	1860	1100	650	300	400	2500	1000	1750	3200	200	190	5925	766
02197223	2200	3500	1260	1860	750	550	300	400	2500	1000	1750	3700	200	190	5925	860
02197224	2200	4000	1260	1860	1000	550	300	400	2500	1500	1750	4230	225	190	5925	953
02197225	2200	4500	1260	1860	1250	550	300	400	2500	1500	1750	4730	225	190	5925	1046
02197226	2200	5000	1260	1860	900	550	300	400	2500	1750	1750	5200	250	190	5925	1245
02197231	2400	3000	1380	2030	1000	550	350	450	2720	1000	1900	3200	200	226	7600	935
02197232	2400	3500	1380	2030	625	650	350	450	2720	1000	1900	3700	200	226	7600	1277
02197233	2400	4000	1380	2030	875	600	350	450	2720	1500	1900	4230	225	226	7600	1413
02197234	2400	5000	1380	2030	1275	700	350	450	2720	1500	1900	5250	225	226	7600	1486
02197241	2500	4000	1430	2130	875	600	350	450	2820	1500	1980	4230	225	246	8150	1486
02197242	2500	5000	1430	2130	1275	700	350	450	2820	1750	1980	5250	250	246	8150	1769

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

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Composite Body Pool Filters

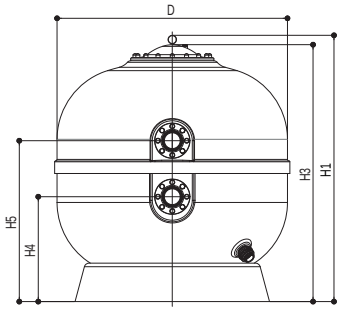
2 years Parts WARRANTY

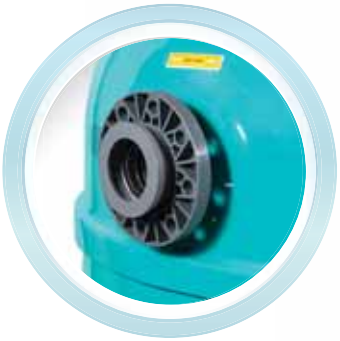
"Neptune" High Rate Sand Filters

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/cm². Max. operation pressure 2,5 kg/cm².
Filtration rate: 50 m³/h/m².
Filtration Depth: 1,0 m (except 021216, 021217).
Counter flange is not included in price (021216).

Description	Code	Pieces/ box	Weight Kg	Volume m^3
•Ø1200 mm - Connections Ø90 mm w/loose flange. Max. 57 m³/h.	**021216L**	1	78,500	1,460
•Ø1400 mm - Connections Ø110 mm flanged. Max. 77 m³/h	**021217**	1	145,000	2,350
•Ø1600 mm - without valve Ø125 mm flanged connection. Max. 101 m³/h	**021218**	1	202,500	3,760
•Ø1800 mm - without valve Ø140 mm flanged connection. Max. 127 m³/h	**021224**	1	225,000	5,080
•Ø2000 mm - without valve Ø160 mm flanged connection. Max. 157 m³/h	**021219**	1	245,000	6,410
•Ø2200 mm - without valve Ø200 mm flanged connection. Max. 190 m³/h	**021220**	1	425,000	8,900
•Ø2400 mm - without valve Ø200 mm flanged connection. Max. 226 m³/h	**021225**	1	535,000	12,200

PS: Filtration rate for public pools should not exceed 50 m³/h/m².





Loose flange connection (021216)

021218

Water drainage

TECHNICAL CHARACTERISTICS

MODEL	021216L	021217	021218	021224	021219	021220	021225
D (mm)	1200	1400	1600	1800	2000	2200	2400
H_1 (mm)	1325	1380	1640	1960	1960	2160	2750
H_3 (mm)	1265	1320	1580	1890	1900	2200	2600
H_4 (mm)	500	630	670	680	830	850	900
H_5 (mm)	900	980	1200	1090	1330	1280	1700
CONNECTIONS Ø (mm)	90	110	125	140	160	200	200
FLOW (m³/h) (50 m³/h/m²) max	57	77	101	127	157	190	226
(40 m³/h/m²)	45	62	80	102	126	152	181
(30 m³/h/m²) mini	34	46	60	76	94	114	136
SAND (Kg)	1300	1950	2750	3650	4750	5700	6600
NET WEIGHT (Kg)	78, 500	145, 000	202, 500	225, 000	245, 000	425	535

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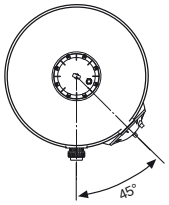
"Filtrex - Norm Plus" Sand Filters - Deep Bed

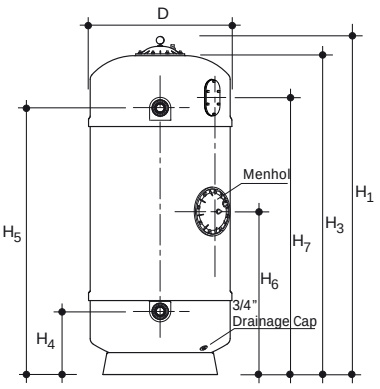
GEMAS FILTREX - NORM PLUS SAND FILTERS
According to DIN 19605 and 19643).
Filter shell made of fiberglass reinforced laminated polyester, including pressure gauge, air purge. Manufactured with collector plate with nozzles. Sight glass at side. Bed depth 120 cm.
Filtration rate for single layer: 30 m³/h/m².
Test pressure 3,5 kg/cm². Max. operation pressure 2,5 kg/cm².

Sight glass

Nozzle
Distribution system

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Ø630 mm - 9 m³/h - 12,5 m³/h	**021411**	1	52,650	0,630
• Ø830 mm -16 m³/h - 21,5 m³/h	**021412**	1	102,000	1,050
• Ø1000 mm - 23,5 m³/h - 31,5 m³/h	**021413**	1	135,000	1,880
• Ø1250 mm - 37 m³/h - 49 m³/h	**021414**	1	237,400	2,930
• Ø1400 mm - 46 m³/h - 61,5 m³/h	**021415**	1	300,000	3,700
• Ø1600 mm - 63 m³/h - 84 m³/h	**021416**	1	355,000	4,800





TECHNICAL CHARACTERISTICS

MODEL	021411	021412	021413	021414	021415	021416
D (mm)	630	830	1000	1250	1400	1600
H_1 (mm)	2060	1970	2145	2560	2540	2480
H_2 (mm)	-	-	-	-	-	-
H_3 (mm)	1940	1850	1985	2320	2380	2320
H_4 (mm)	330	385	500	270	840	830
H_5 (mm)	1720	1560	1620	2070	1620	1600
H_6 (mm)	600	940	970	950	1000	1050
H_7 (mm)	1750	1620	1665	1550	1600	1650
CONNECTIONS Ø (mm)	1,5"	2"	3"	3"	4"	4"
FLOW (m³/h) (40 m³/h/m²)	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

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Composite Body Pool Filters

“Filtrex - Norm Plus” Sand Filters - Deep Bed

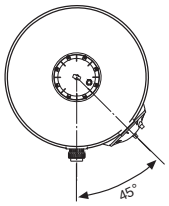
2 years Parts WARRANTY

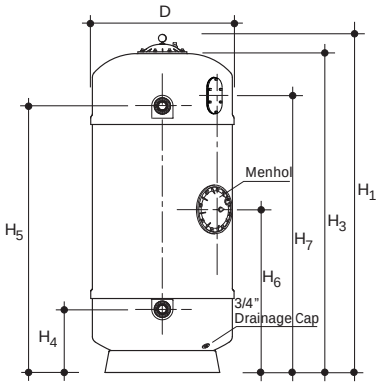
GEMAS FILTREX - NORM PLUS SAND FILTERS (According to DIN 19605 and 19643).

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 m³/h/m². Test pressure 3,5 kg/cm². Max. operation pressure 2,5 kg/cm².

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Ø1800 mm - 76 m³/h - 101 m³/h	**021417**	1	450,000	
• Ø2000 mm- 94 m³/h - 125 m³/h	**021418**	1	470,000	
• Ø2200 mm - 114 m³/h - 152 m³/h	**021419**	1	685,000	
• Ø2400 mm - 136 m³/h - 181 m³/h	**021420**	1	860,000	
• Ø2500 mm - 136 m³/h - 181 m³/h	**021421**	1	910,000	

021417

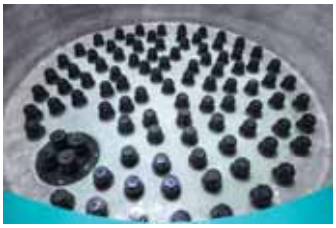




Sight glass

TECHNICAL CHARACTERISTICS

MODEL	021417	021418	021419	021420	021421
D (mm)	1800	2000	2200	2400	2500
H_1 (mm)	2490	2670	2610	2760	2710
H_2 (mm)	-	-	-	-	-
H_3 (mm)	2330	2600	2450	2600	-
H_4 (mm)	800	950	850	970	1000
H_5 (mm)	1550	1710	1630	1720	1800
H_6 (mm)	980	1040	950	1060	1090
H_7 (mm)	1580	1700	1660	1770	
CONNECTIONS Ø (mm)	5”	5”	6”	7,5”	7,5”
FLOW (m³/h) (40 m³/h/m²)	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



Nozzle
Distribution system

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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^3
• Ø75 Ball Valves Battery	**131117B**	1		
• Ø90 Ball Valves Battery	**131118B**	1		
• Ø110 Ball Valves Battery	**131119B**	1		
• Ø110 Butterfly Valves Battery	**131603B**	1		
• Ø125 Butterfly Valves Battery	**131604B**	1		
• Ø140 Butterfly Valves Battery	**131605B**	1		
• Ø160 Butterfly Valves Battery	**131606B**	1		
• Ø200 Butterfly Valves Battery	**131607B**	1		
• Ø225 Butterfly Valves Battery	**131608B**	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^3
• Ø110 Ball Valves Battery	**131119BD**	1		
• Ø110 Butterfly Valves Battery	**131603BD**	1		
• Ø125 Butterfly Valves Battery	**131604BD**	1		
• Ø140 Butterfly Valves Battery	**131605BD**	1		
• Ø160 Butterfly Valves Battery	**131606BD**	1		
• Ø200 Butterfly Valves Battery	**131607BD**	1		
• Ø225 Butterfly Valves Battery	**131608BD**	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^3
• 1"	**02701**	1		
• 2"	**02702**	1		

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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/ box	Weight Kg	Volume m^3
• Ø90 Butterfly Valves Battery	**131602BM**	1		
• Ø110 Butterfly Valves Battery	**131603BM**	1		
• Ø125 Butterfly Valves Battery	**131604BM**	1		
• Ø140 Butterfly Valves Battery	**131605BM**	1		
• Ø160 Butterfly Valves Battery	**131606BM**	1		
• Ø200 Butterfly Valves Battery	**131607BM**	1		
• Ø225 Butterfly Valves Battery	**131608BM**	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/ box	Weight Kg	Volume m^3
• Control Unit	**0221350P**	1		
• Electronic Pressure Sensor	**0221350PS**	1		
• Wifi addition	**0221350WF**	1		

The stainless steel panel is not included in the price.

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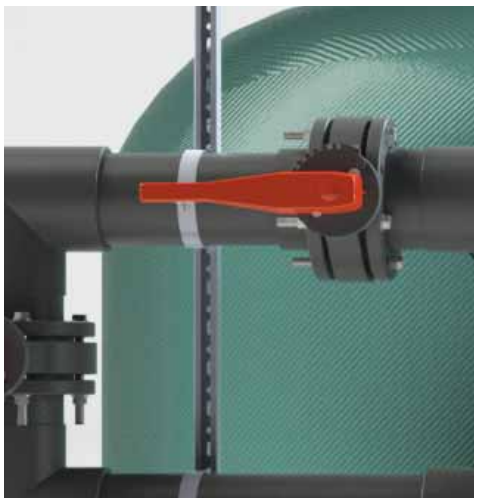
Valve Battery Support Systems

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^3
• 2 x Ø90 Clamp - h=1,5 m	**139111**	1		
• 2 x Ø110 Clamp - h=1,5 m	**139112**	1		
• 2 x Ø125 Clamp - h=1,5 m	**139113**	1		
• 2 x Ø140 Clamp - h=1,5 m	**139114**	1		
• 2 x Ø160 Clamp - h=1,5 m	**139115**	1		
• 2 x Ø200 Clamp - h=1,5 m	**139116**	1		
• 2 x Ø225 Clamp - h=1,5 m	**139117**	1		
• 2 x Ø140 Clamp - h=2,0 m	**139121**	1		
• 2 x Ø160 Clamp - h=2,0 m	**139122**	1		
• 2 x Ø200 Clamp - h=2,0 m	**139123**	1		
• 2 x Ø225 Clamp - h=2,0 m	**139124**	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^3
• 1 x Ø90 Clamp - h=0,40 m	**139211**	1		
• 1 x Ø110 Clamp - h=0,40 m	**139212**	1		
• 1 x Ø125 Clamp - h=0,40 m	**139213**	1		
• 1 x Ø140 Clamp - h=0,40 m	**139214**	1		
• 1 x Ø160 Clamp - h=0,40 m	**139215**	1		
• 1 x Ø200 Clamp - h=0,40 m	**139216**	1		
• 1 x Ø225 Clamp - h=0,40 m	**139217**	1		



Detail 1

Detail 2

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Valve Battery Support Systems

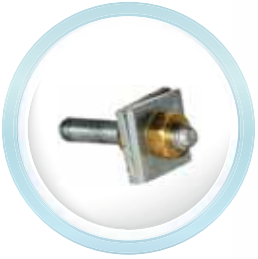
GEMAS VALVE BATTERY SUPPORT LANE - SINGLE.
Made of zinc plated steel, 40x40x2,5 mm steel profile. Complete with steel footers to be fixed with 4 screws on the ground. Other end with plastic cap.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• h = 2,0 m, Support Pivot	**1391112**	1		
• h = 1,5 m, Support Pivot	**1391111**	1		
• h = 0,4 m, Horizontal Support	**1391110**	1		

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø90	**13911111**	1		
• Ø110	**13911112**	1		
• Ø125	**13911113**	1		
• Ø140	**13911114**	1		
• Ø160	**13911115**	1		
• Ø200	**13911116**	1		
• Ø225	**13911117**	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/ box	Weight Kg	Volume m^3
	1391114	1		

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	1391113	1		

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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).

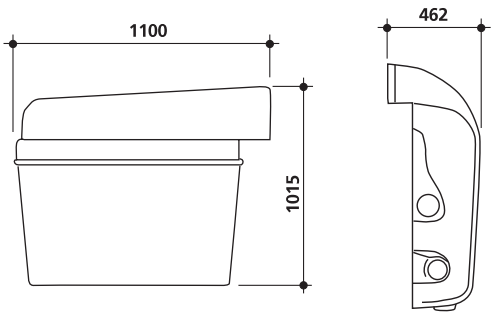
Filtration Room: The base part is made of FRP, and the upper frame and room cover are made of UV-resistant ABS plastic. It comes complete with a sand or cartridge filter, electrical control board, pneumatic on-off switch, and transformer. The machine room and Hang-over unit can be installed separately.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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Hang-over Unit	**02511**	1	**19,100**	**0,420**
Filtration room w/sand filter				
• Ø400 mm sand filter + 0,5 HP Pump - 6 m³/h	**02512**	1	**65,850**	**0,870**
• Ø500 mm sand filter+ 0,75 HP Pump - 10 m³/h	**02513**	1	**67,650**	**0,870**

PS. In case of any inquiry for Ø615 or Ø710 filter, this unit could be incorporated w/fitration room 02517.

Filtration room w/cartridge filter				
• P510 cartridge filter + 0,5 HP Pump - 6 m³/h	**02514**	1		
• P512 cartridge filter + 0,75 HP Pump - 10 m³/h	**02515**	1		
• P513 cartridge filter + 1" HP Pump - 15 m³/h	**02516**	1		
Options				
• ECOSlimLED Light	**051130EO**	1		
• Chlorine feeder	**069CLT167B**	1		

PS. Filter media not included.



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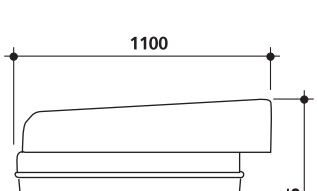
HANG-OVER Filtration Units

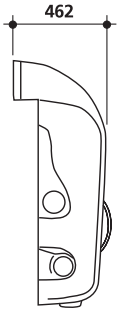
GEMAS "DECKON JET" HANG-OVER FILTRATION UNIT. with COUNTER CURRENT.
HANG-OVER Unit: The body is made of UV-resistant ABS plastic and includes a 23 W/12 V LED underwater light, skimmer, suction inlet, and 2+1 side and bottom oriented inlets, jet inlet, air regulator, counter current on/off pneumatic button,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

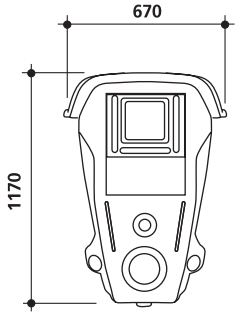
Filtration Room: The base part is made of FRP, and the upper frame and room cover are made of UV-resistant ABS plastic. It comes complete with a circulation pump, 2 HP jet pump, sand or cartridge filter, electrical control board, pneumatic on-off switch, and transformer. The machine room and Hang-over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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Hang-over Unit	**02511J**	1	**20,000**	**0,420**
Filtration room w/sand filter				
• Ø400 mm sand filter + 0,5 HP + 2" HP Jet pump - 6 m³/h	**02512J**	1	**85,850**	**0,870**
• Ø500 mm sand filter + 0,75 HP + 2" HP Jet Pump - 10 m³/h	**02513J**	1	**89,650**	**0,870**
PS. In case of any inquiry for Ø615 or Ø710 filter, this unit could be incorporated w/fitration room 02517.				
Filtration room w/cartridge filter				
• P510 cartridge filter + 0,5 HP + 2" HP Jet pump - 6 m³/h	**02514J**	1		
• P512 cartridge filter + 0,75 HP + 2" HP Jet pump - 10 m³/h	**02515J**	1		
• P513 cartridge filter + 1" HP + 2" HP Jet pump - 15 m³/h	**02516J**	1		
Options				
• ECOSlimLED Light	**051130EO**	1		
• Chlorine feeder	**069CLT167B**	1		

PS. Filter media not included.







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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.

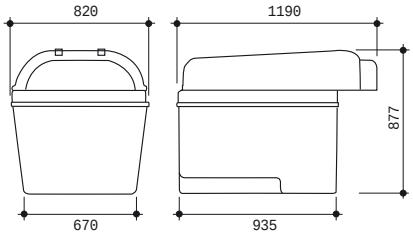
CABIN III: Body and lid made LDPE, It is produced with rotational moulding technique. Complete with double sided wall joints, water drainage and locking nuts.
Max. filter size Ø830 mm.

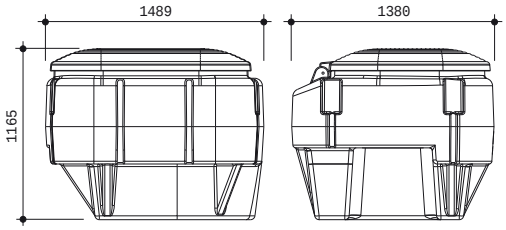
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Cabin II	**02510**	1		
• Cabin III	**0251702**	1		

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^3
• Ø615 mm Sand Filter (021713) + 0,75 HP Pump - 15 m^3/h.	**02517**	1	**124,000**	**1,950**
• Ø710 mm Sand Filter (021814) + 1,5 HP Pump - 20 m^3/h.	**02518**	1	**140,000**	**1,950**





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GEMAS Multiport Valves - Manual

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1,5" Threaded connections	**02400T**	1	1,600	
• Ø50 mm Slip connections - metric	**02400**	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/ box	Weight Kg	Volume m^3
• 1,5" Threaded connections	**02403T**	1	1,900	0,015
• Ø50 mm Slip connections - metric	**02403**	1	1,900	
• 2" Threaded connections	**02213029T**	1	3,500	
• Ø63 mm Slip connections - metric	**02213029**	1		

02403

02213029T

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

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

02404

02213027

GEMAS VALVEX 04 - SIDE. Multiport valve, 2"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Multiport valve, 2" Threaded connections	**02213027T**	1	2,956	0,016
• Ø63 mm Slip connections - metric	**02213027**	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/ box	Weight Kg	Volume m^3
Ø75 mm Slip connections - metric	**02213028**	1		0,016

022130001

022130003T

SIDE MULTIPORT VALVE. Threaded connection.

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

022380-E20

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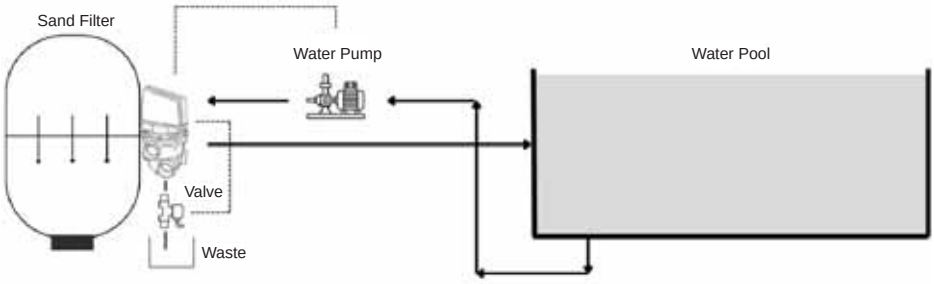
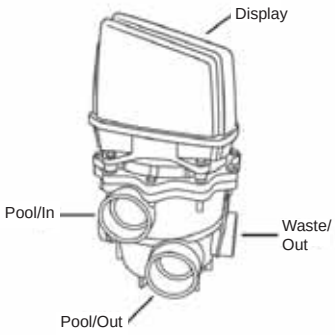
Automatic Multiport Valves

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^3
• Automatic M.Valves; 1,5”, Threaded con. IMPORT	**0221310**	1	**4,000**	**0,033**
• Automatic M.Valves; 2”, Threaded con. IMPORT	**0221320**	1	**5,000**	**0,033**
• GEMAS Automatic M.Valves; 1,5”, Threaded con.	**0221311**	1		
• GEMAS Automatic M.Valves; 2”, Threaded con.	**0221312**	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.

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Filtration Media - Ouartz Sand

Ouartz Sand

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• (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/ box	Weight Kg	Volume m^3
Price per liter	**02321**	1	**30,000**	**0,040**

Zeolite

Description	Code	Pieces/ box	Weight Kg	Volume m^3
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/ box	Weight Kg	Volume m^3
	02601	1		

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GEMAS Glass Filtration Media

Environment friendly

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^3
• 0,6 mm - 1,00 mm grain thickness	**023411**	1		
• 1 mm - 3,00 mm grain thickness	**023412**	1		
• 3 mm - 5,00 mm grain thickness	**023413**	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.

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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/ box	Weight Kg	Volume m^3
• PFM Bag	**02351**	1	**25**	

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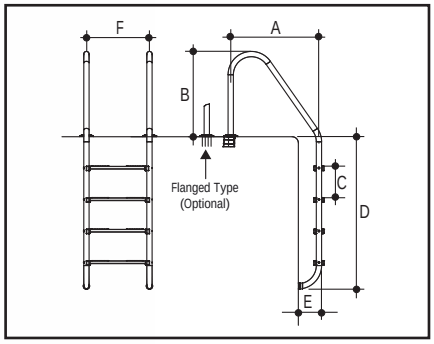
03	Poolside Equipment	77
04	In-Pool Materials	99

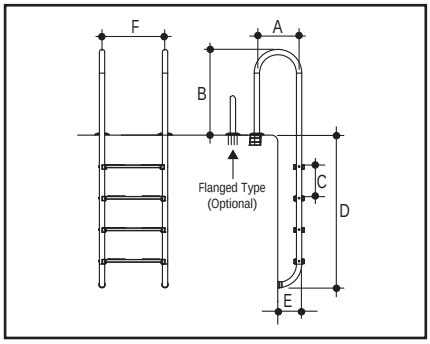
Pool Ladders

STANDARD



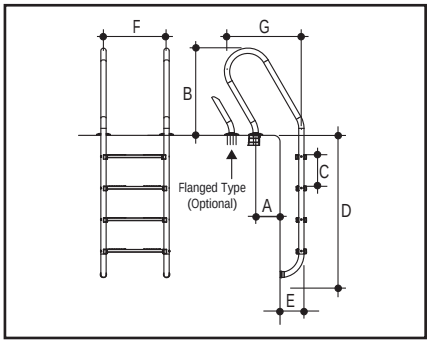
Number of Treads	A	B	C	D	E	F
2	700	690	250	700	190	500
3	700	690	250	950	190	500
4	700	690	250	1200	190	500
5	700	690	250	1450	190	500

"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.

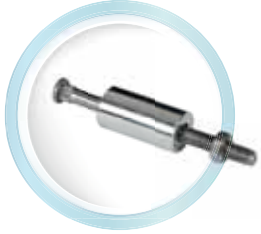
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0311111**	1	10,200	0,122
• With 3 Stainless Steel Treads	**0311112**	1	11,900	0,122
• With 4 Stainless Steel Treads	**0311113**	1	13,300	0,122
• With 5 Stainless Steel Treads	**0311114**	1	14,800	0,139

U 304 MODEL WITH STAINLESS STEEL TREADS.

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

COMBINED 304 MODEL WITH STAINLESS STEEL TREADS

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0311311**	1	9,700	0,118
• With 3 Stainless Steel Treads	**0311312**	1	11,200	0,118
• With 4 Stainless Steel Treads	**0311313**	1	12,800	0,118
• With 5 Stainless Steel Treads	**0311314**	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.

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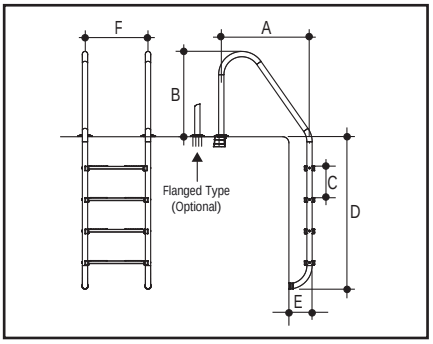
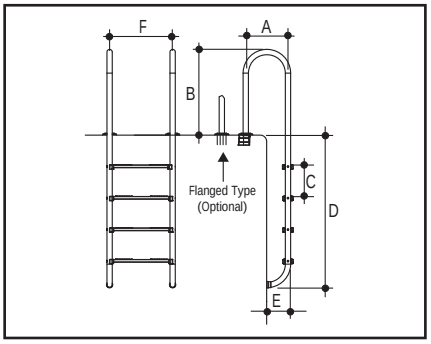
Pool Ladders

STANDARD



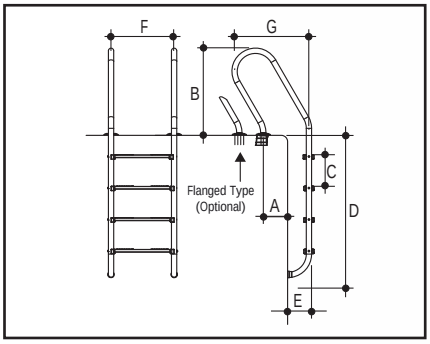
Number of Treads	A	B	C	D	E	F
2	700	690	250	700	190	500
3	700	690	250	950	190	500
4	700	690	250	1200	190	500
5	700	690	250	1450	190	500

"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 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.

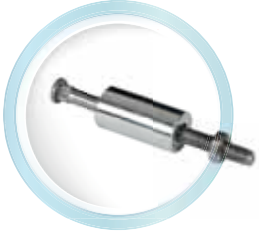
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312111**	1	10,600	0,122
• With 3 Stainless Steel Treads	**0312112**	1	12,300	0,122
• With 4 Stainless Steel Treads	**0312113**	1	13,700	0,122
• With 5 Stainless Steel Treads	**0312114**	1	15,200	0,139

U 316 MODEL WITH STAINLESS STEEL TREADS.

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

COMBINED 316 MODEL WITH STAINLESS STEEL TREADS.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312311**	1	10,100	0,118
• With 3 Stainless Steel Treads	**0312312**	1	11,600	0,118
• With 4 Stainless Steel Treads	**0312313**	1	13,200	0,118
• With 5 Stainless Steel Treads	**0312314**	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.

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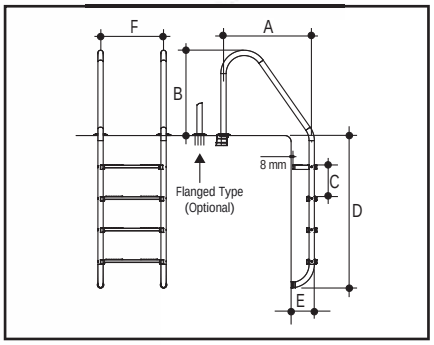
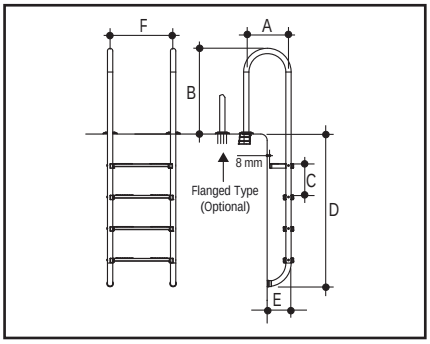
Pool Ladders - Commercial Pools

STANDARD



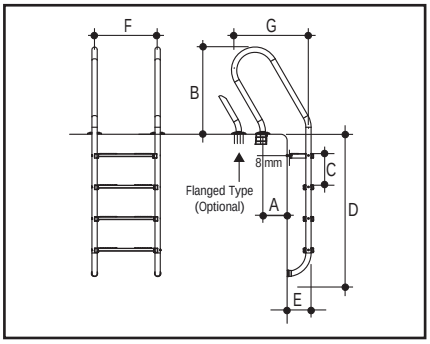
Number of Treads	A	B	C	D	E	F
2	700	690	250	700	190	500
3	700	690	250	950	190	500
4	700	690	250	1200	190	500
5	700	690	250	1450	190	500

"U" MODEL



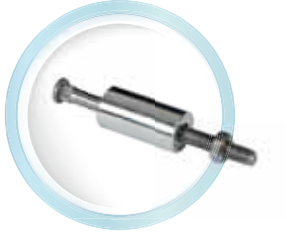
Number of Treads	A	B	C	D	E	F
2	330	670	250	700	190	500
3	330	670	250	950	190	500
4	330	670	250	1200	190	500
5	330	670	250	1450	190	500

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 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^3
• With 2 Stainless Steel Treads	**0311111EU**	1	11,400	0,122
• With 3 Stainless Steel Treads	**0311112EU**	1	13,100	0,122
• With 4 Stainless Steel Treads	**0311113EU**	1	14,500	0,122
• With 5 Stainless Steel Treads	**0311114EU**	1	16,000	0,139

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

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

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0311311EU**	1	10,900	0,118
• With 3 Stainless Steel Treads	**0311312EU**	1	12,400	0,118
• With 4 Stainless Steel Treads	**0311313EU**	1	14,000	0,118
• With 5 Stainless Steel Treads	**0311314EU**	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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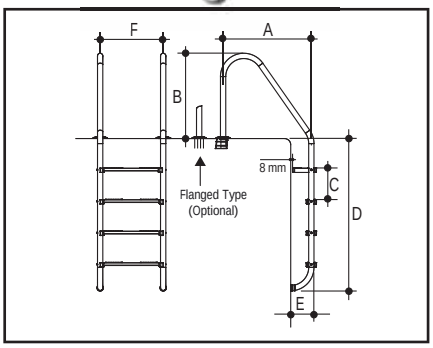
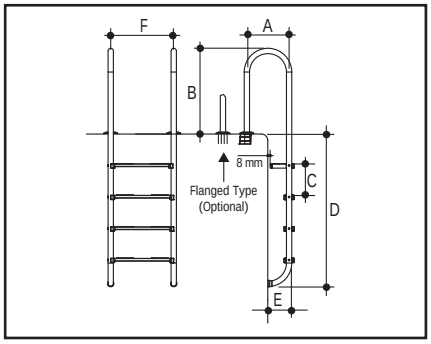
Pool Ladders - Commercial Pools

STANDARD



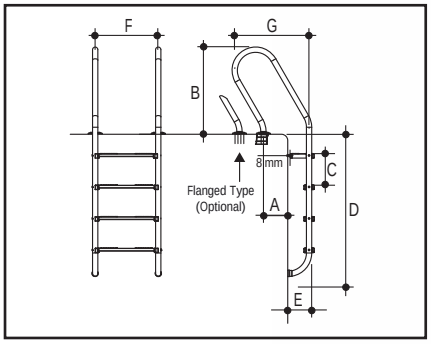
Number of Treads	A	B	C	D	E	F
2	700	690	250	700	190	500
3	700	690	250	950	190	500
4	700	690	250	1200	190	500
5	700	690	250	1450	190	500

"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.

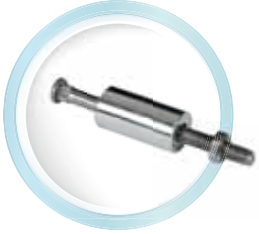
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312111EU**	1	11,800	0,122
• With 3 Stainless Steel Treads	**0312112EU**	1	13,500	0,122
• With 4 Stainless Steel Treads	**0312113EU**	1	14,900	0,122
• With 5 Stainless Steel Treads	**0312114EU**	1	16,400	0,139

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312211EU**	1	10,400	0,071
• With 3 Stainless Steel Treads	**0312212EU**	1	11,800	0,071
• With 4 Stainless Steel Treads	**0312213EU**	1	13,400	0,071
• With 5 Stainless Steel Treads	**0312214EU**	1	14,700	0,079

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312311EU**	1	11,300	0,118
• With 3 Stainless Steel Treads	**0312312EU**	1	12,800	0,118
• With 4 Stainless Steel Treads	**0312313EU**	1	14,200	0,118
• With 5 Stainless Steel Treads	**0312314EU**	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.

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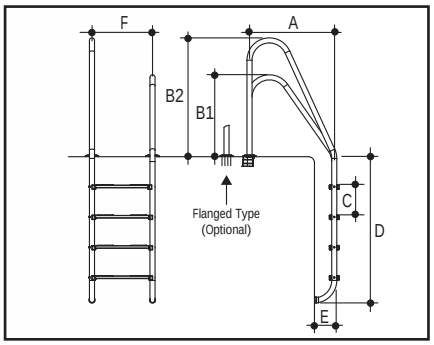
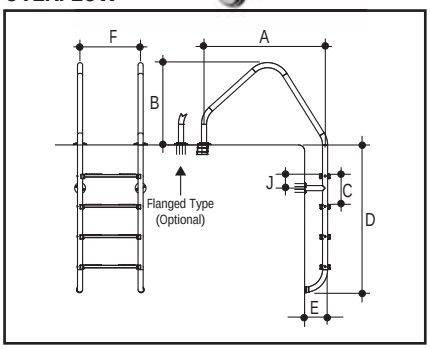
Pool Ladders

ASYMMETRIC



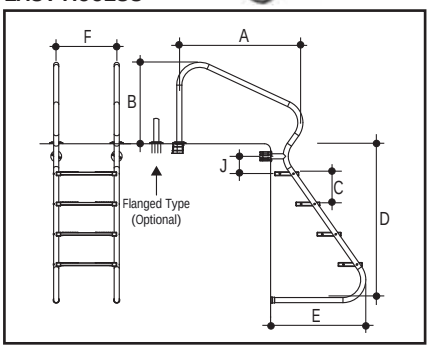
Number of Treads	A	B1	B2	C	D	E	F
2	700	690	980	250	730	190	500
3	700	690	980	250	980	190	500
4	700	690	980	250	1230	190	500
5	700	690	980	250	1480	190	500

OVERFLOW



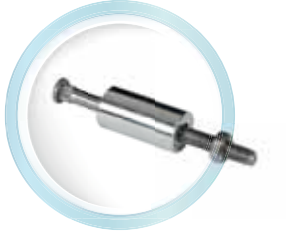
Number of Treads	A	B	C	D	E	F	J
2	1020	650	250	750	190	500	100
3	1020	650	250	1000	190	500	100
4	1020	650	250	1250	190	500	100
5	1020	650	250	1500	190	500	100

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^3
• With 2 Stainless Steel Treads	**0311811**	1		0,247
• With 3 Stainless Steel Treads	**0311812**	1		0,247
• With 4 Stainless Steel Treads	**0311813**	1		0,247
• With 5 Stainless Steel Treads	**0311814**	1		0,271

OVERFLOW 304 MODEL WITH STAINLESS STEEL TREADS.

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

EASY ACCESS 304 MODEL WITH STAINLESS STEEL TREADS.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0311511**	1		
• With 3 Stainless Steel Treads	**0311512**	1		
• With 4 Stainless Steel Treads	**0311513**	1		
• With 5 Stainless Steel Treads	**0311514**	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.

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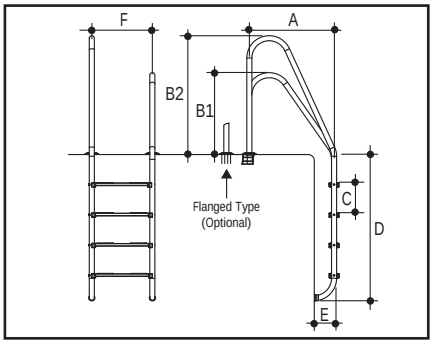
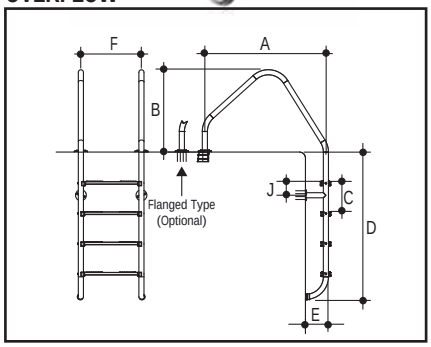
Pool Ladders

ASYMMETRIC



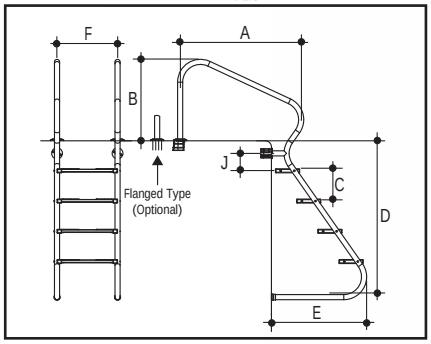
Number of Treads	A	B1	B2	C	D	E	F
2	700	690	980	250	730	190	500
3	700	690	980	250	980	190	500
4	700	690	980	250	1230	190	500
5	700	690	980	250	1480	190	500

OVERFLOW



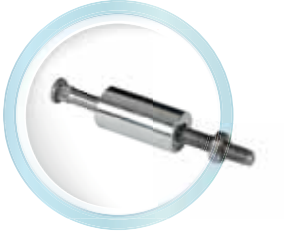
Number of Treads	A	B	C	D	E	F	J
2	1020	650	250	750	190	500	100
3	1020	650	250	1000	190	500	100
4	1020	650	250	1250	190	500	100
5	1020	650	250	1500	190	500	100

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 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.



Zinc Anode

ASYMMETRIC 316 MODEL WITH STAINLESS STEEL TREADS.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312811**	1		0,247
• With 3 Stainless Steel Treads	**0312812**	1		0,247
• With 4 Stainless Steel Treads	**0312813**	1		0,247
• With 5 Stainless Steel Treads	**0312814**	1		0,271

OVERFLOW 316 MODEL WITH STAINLESS STEEL TREADS.

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

EASY ACCESS 316 MODEL WITH STAINLESS STEEL TREADS.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312511**	1		
• With 3 Stainless Steel Treads	**0312512**	1		
• With 4 Stainless Steel Treads	**0312513**	1		
• With 5 Stainless Steel Treads	**0312514**	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.

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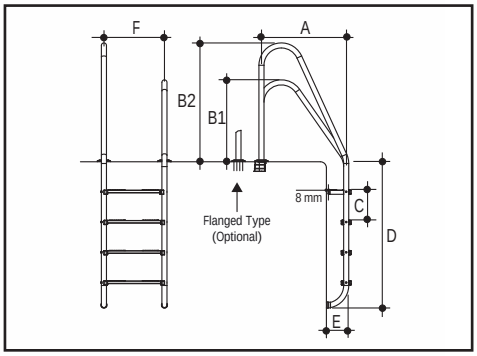
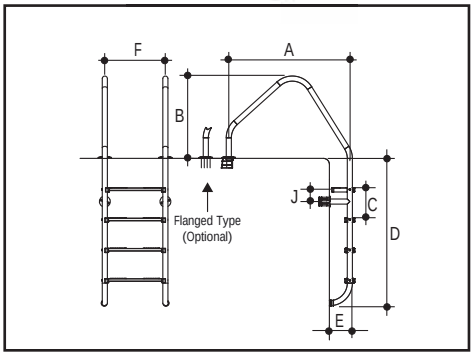
Pool Ladders - Commercial Pools

ASYMMETRIC



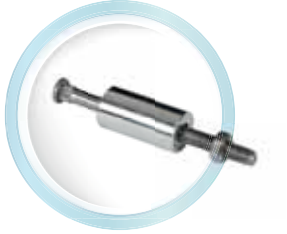
Number of Treads	A	B1	B2	C	D	E	F
2	700	670	965	250	720	180	500
3	700	670	965	250	980	180	500
4	700	670	965	250	1260	180	500
5	700	670	965	250	1470	180	500

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.



Zinc Anode

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0311811EU**	1		
• With 3 Stainless Steel Treads	**0311812EU**	1		
• With 4 Stainless Steel Treads	**0311813EU**	1		
• With 5 Stainless Steel Treads	**0311814EU**	1		

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

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

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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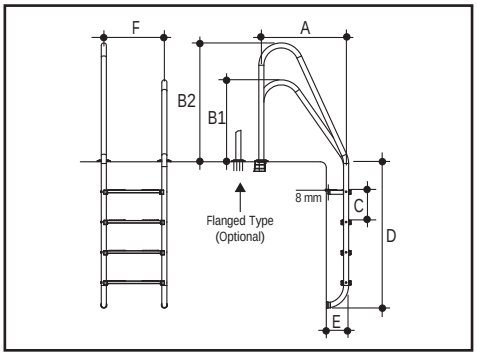
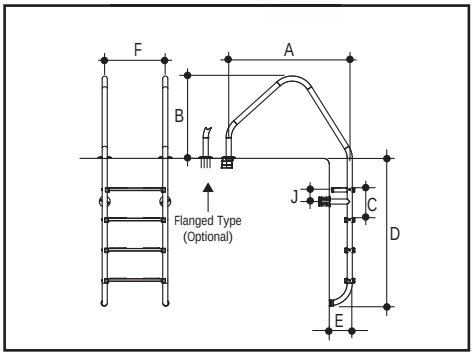
Pool Ladders - Commercial Pools

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

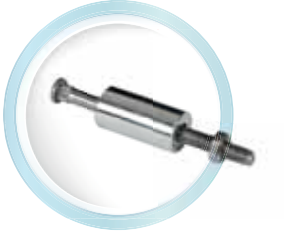
500 mm width. The treads are made of AISI 316 grade stainless steel and feature anti-slip surface.
The handrails are made of Ø42 mm AISI 316 grade polished stainless steel pipe.
Complete with plastic anchors, anchor escutcheons, end caps, bolts and nuts.
Manufactured with double safety tread in accordance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

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 2 Stainless Steel Treads	**0312811EU**	1		
• With 3 Stainless Steel Treads	**0312812EU**	1		
• With 4 Stainless Steel Treads	**0312813EU**	1		
• With 5 Stainless Steel Treads	**0312814EU**	1		

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

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



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.

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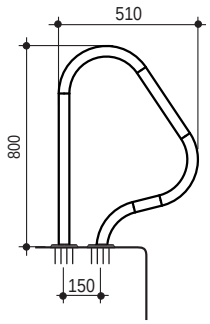
Grab Rails for Split Model Pool Ladders

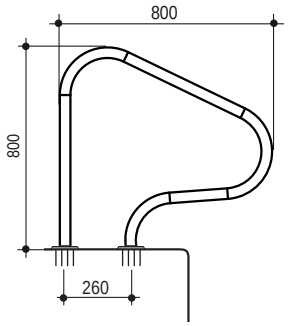
Steep Grab Rail: 510 x 800 mm. Made of Ø42 mm AISI 304 stainless steel pipe. Complete with fixing plates, bolts and bolt plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Set of 2	**03322**	1	**5,000**	**5,000**



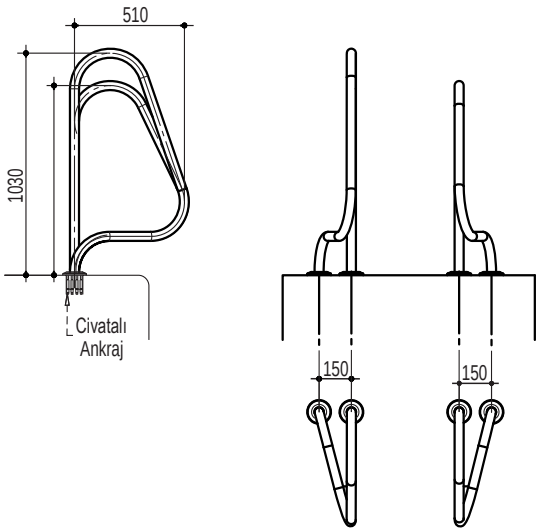
Deep Grab Rail: 800 x 800 mm. Made of Ø42 mm AISI 304 stainless steel pipe. Complete with fixing plates, bolts and bolt plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
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 m^3
Set of 2	**03324**	1	**5,000**	**5,000**



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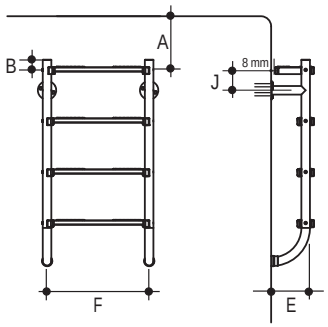
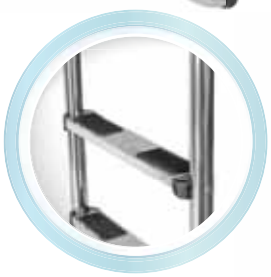
Pool Ladders

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 m^3
• With 2 Stainless Steel Treads	**0311711**	1	**12,500**	**0,247**
• With 3 Stainless Steel Treads	**0311712**	1	**13,700**	**0,247**
• With 4 Stainless Steel Treads	**0311713**	1	**15,100**	**0,247**
• With 5 Stainless Steel Treads	**0311714**	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 m^3
• With 2 Stainless Steel Treads	**0312711**	1	**12,500**	**0,247**
• With 3 Stainless Steel Treads	**0312712**	1	**13,700**	**0,247**
• With 4 Stainless Steel Treads	**0312713**	1	**15,100**	**0,247**
• With 5 Stainless Steel Treads	**0312714**	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 m^3
• With 2 Stainless Steel Treads	**0311711EU**	1	**12,900**	**0,247**
• With 3 Stainless Steel Treads	**0311712EU**	1	**14,100**	**0,247**
• With 4 Stainless Steel Treads	**0311713EU**	1	**15,500**	**0,247**
• With 5 Stainless Steel Treads	**0311714EU**	1	**17,400**	**0,271**

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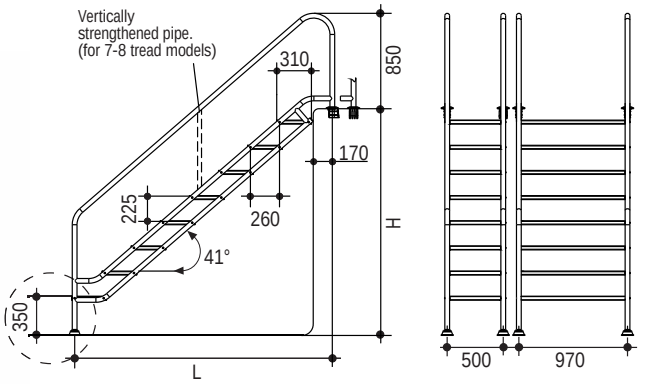
Pool Ladders for Disabled Persons

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.



Number of Treads	Height H	Length L
4	950 - 1150	1290
5	1175 - 1375	1550
6	1400 - 1600	1810
7	1625 - 1825	2070
8	1850 - 2050	2330

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With 4 Stainless Steel Treads	**0311611**	1		
• With 5 Stainless Steel Treads	**0311612**	1		
• With 6 Stainless Steel Treads	**0311613**	1		
• With 7 Stainless Steel Treads	**0311614**	1		
• With 8 Stainless Steel Treads	**0311615**	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^3
• With 4 Stainless Steel Treads	**0311621**	1		
• With 5 Stainless Steel Treads	**0311622**	1		
• With 6 Stainless Steel Treads	**0311623**	1		
• With 7 Stainless Steel Treads	**0311624**	1		
• With 8 Stainless Steel Treads	**0311625**	1		

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

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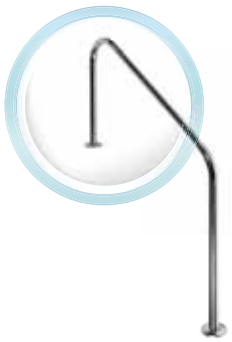
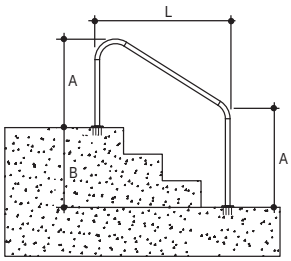
Handrails for Concrete Steps

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

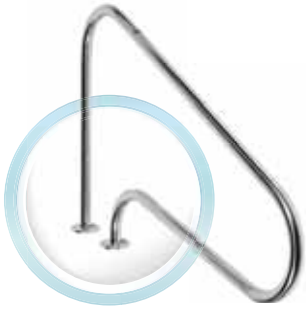


Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 1220 mm	**03311**	1	**7,000**	**0,237**
• Length: 1524 mm	**03312**	1	**8,000**	**0,261**

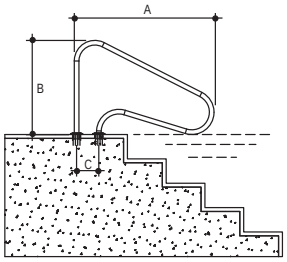


L	A	B
1220	800	680
1524	800	855

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

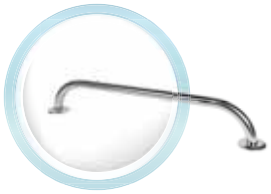


Description	Code	Pieces/ box	Weight Kg	Volume m^3
Length: 1250 mm	**03321**	1	**5,000**	**0,060**



A	B	C
1250	850	200

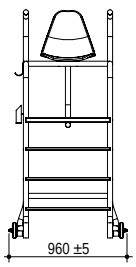
LATERAL GRAB RAIL WITH FIXING PLATES. Made of AISI 304 grade polished stainless steel Ø42 mm pipe. Complete with fixing plates and screws.

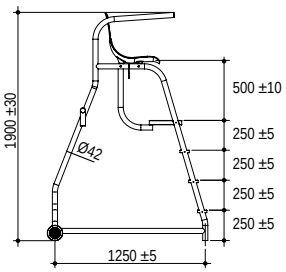


Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 0.5 m	**03331**	1	**2,000**	**0,019**
• Length: 1.0 m	**03332**	1	**3,000**	**0,037**
• Length: 2.0 m	**03333**	1	**7,500**	**0,072**
• Length: 2.5 m	**03334**	1	**9,000**	**0,089**

LIFEGUARD SEAT.
AISI 304 grade polished stainless steel Ø42 mm pipe.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Model 2	**14671**	1		





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Ladder Accessories

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Solid plastic for Ø42 mm pipe.	**03201**		**0,142**	
• Stainless steel anchor	**03201S**			
• Ditto, 316 K	**03201S01**			

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

ANCHOR ESCUTCHEON

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Made of AISI 304 grade polished stainless steel, price per piece	**032021**			

LADDER TREADS

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

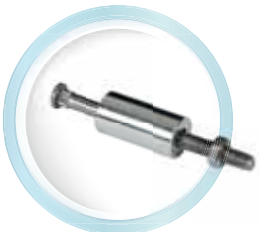
ARTICULATED ANCHOR

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Made of AISI 304 grade St.steel for Ø42 mm handrails. Price per piece	**03210**		**0,602**	

03204 03205

END CAP

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



ZINC ANODE FOR LADDER PROTECTION

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Made of pure Zinc to be mounted under ladder step	**03208**		**0,098**	

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

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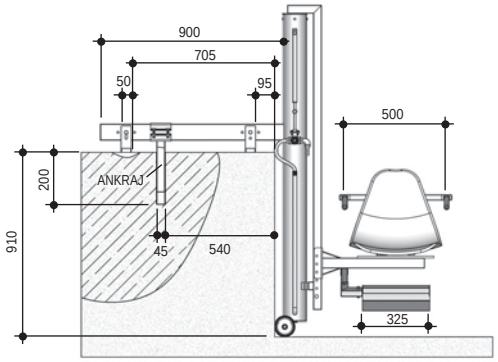
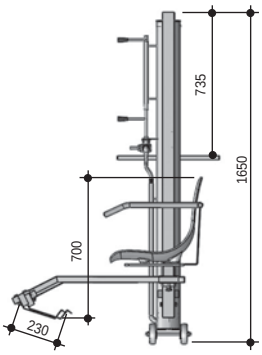
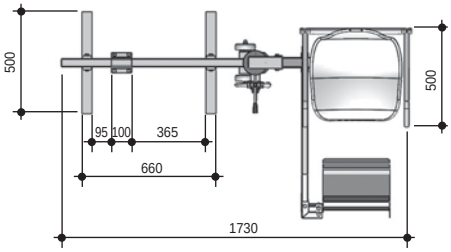
Pool Lift for Disabilities

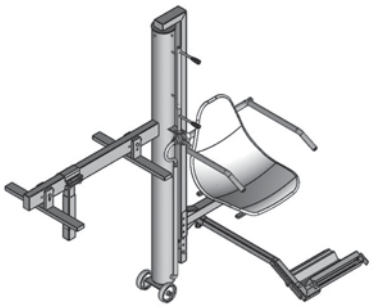
Pool lift for disabilities: Hydraulic lift made of AISI 316 stainless steel. Garden irrigation hose has to be connected to hydraulic lift. Required minimum water pressure is 3,5 kg/cm². User friendly installation and can easily be adapted to existing pool.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Pool lift for disabilities	**04101**	1		





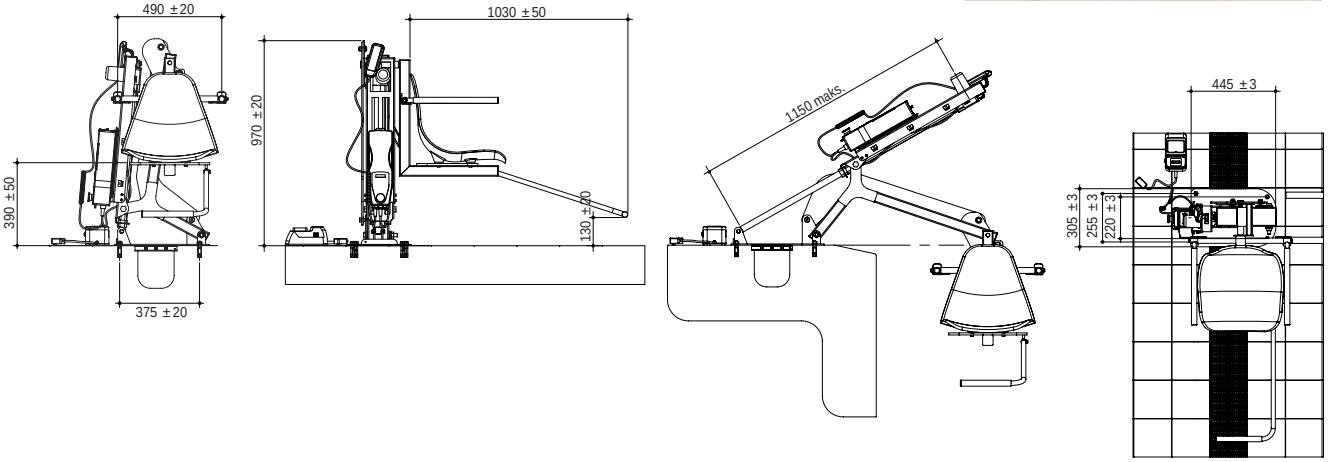




Disabled Lift Rechargeable

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^3
Disabled Lift Rechargeable	**04104**	1		



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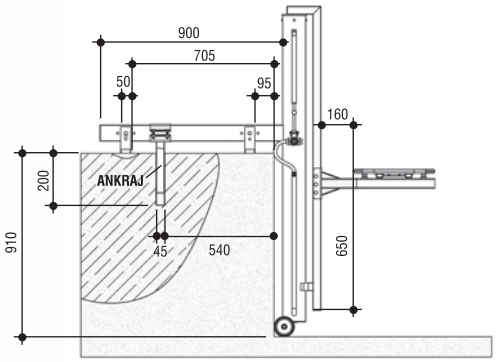
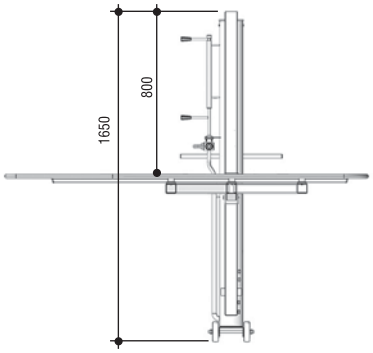
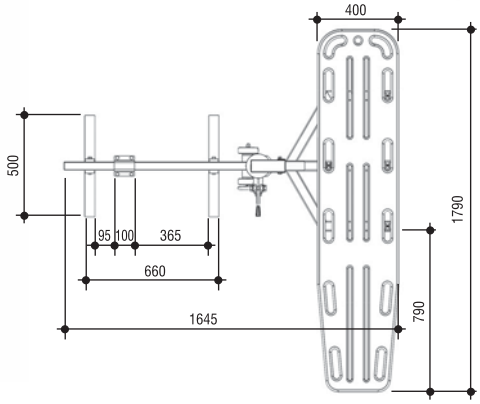
Pool Lift for Disabilities - Stretcher

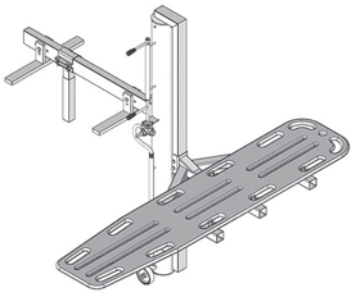
Pool lift for disabilities: Hydraulic lift made of AISI 304 stainless steel. Garden irrigation hose has to be connected to a hydraulic lift. Required minimum water pressure is 3,5 kg/cm². User friendly installation and can easily be adapted to an existing pool.

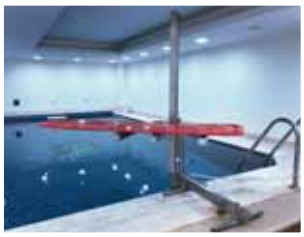
Description	Code	Pieces/ box	Weight Kg	Volume m^3
Pool lift for disabilities - Stretcher	**04103**	1		











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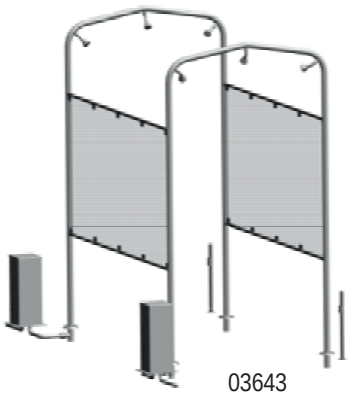
Pool Showers

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^3
• 3 Shower 1 arch. Width: 1,2 m	**03641**	1		
• 5 Shower 1 arch. Width: 1,2 m	**03642**	1		
• 2 Arched. Each arch has 3 showers	**03643**	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	**03645**	1		
• Same, also with foot washing tap.	**03645A**	1		
• Cobra shower, with foot washing tap.	**03648A**	1		
• Single head shower, baston type.	**03647**	1		
• 4 head shower, with foot washing tap.	**03644**	1		
• Same, with electric heater, hot and cold water mixing possible.	**03656**	1		



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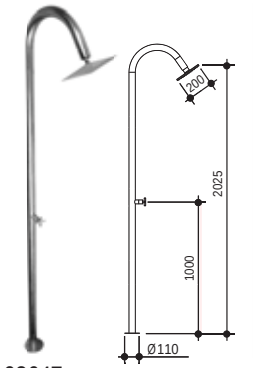

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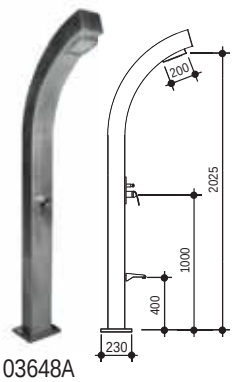
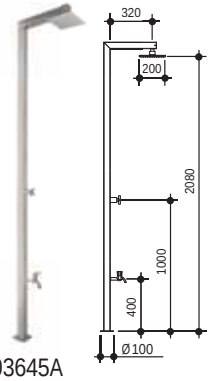
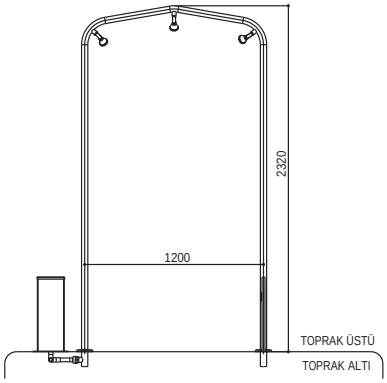


03648A



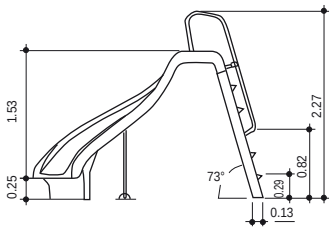
03645A



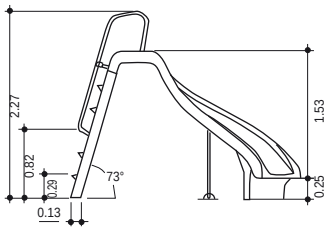
Pool Slides

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.

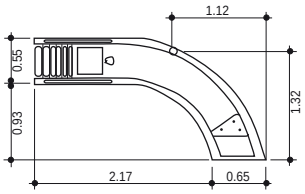
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Slide, curved to left	**03520**	1	83,000	2,913
• Slide, curved to right	**03521**	1	83,000	2,913



Slide, curved to left



Slide, curved to right



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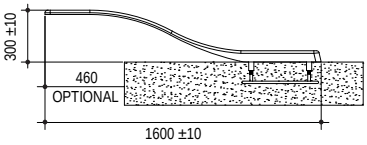
Diving Boards

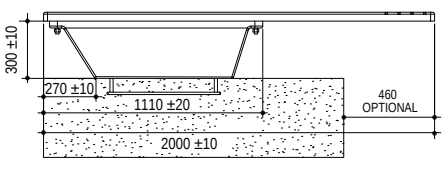
S - DIVING BOARD Made in laminated polyester and fiberglass.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 1.60 m	**03410**	1	23,000	0,107
• Height: 0.35 m				



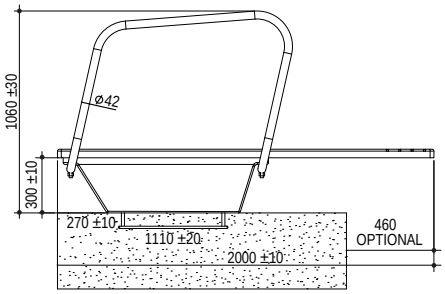
CLASSIC 200 DIVING BOARD Base and board made in laminated polyester and fiberglass.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 2.00 m	**03420**	1	29,000	0,196
• Height: 0.35 m				
• Width : 0.40 m				



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^3
• Length: 2.00 m	**03430**	1	39,000	
• Height: 0.35 m				
• Width : 0.40 m				



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^3
• Kit 1, Rust Remover + Protector	**031001**	1		
• Kit 2, Rust Remover + Protector + Polisher	**031002**	1		

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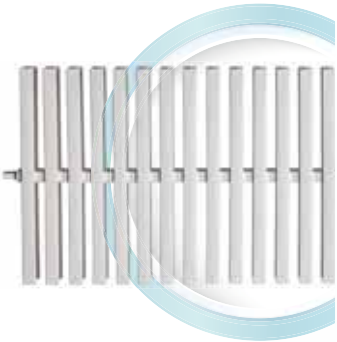
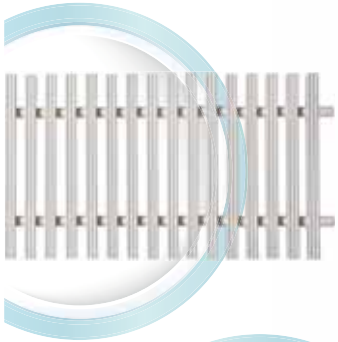
Overflow Grating



"MODEL 2018" Overflow Grating

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

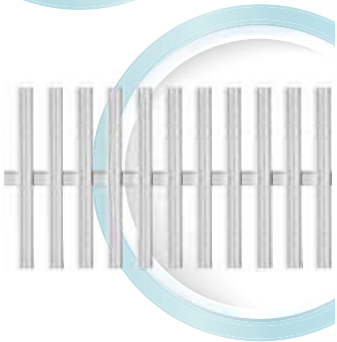
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Width: 20 cm (price per meter)	**0372232**	5 m		
• Width: 25 cm (price per meter)	**0372332**	5 m		



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/ box	Weight Kg	Volume m^3
• Classical Design Width: 20 cm	**0372221**	10 m	13,000	0,062
• Classical Design Width: 25 cm	**0372321**	10 m	13,000	0,062
• Classical Design Width: 30 cm	**0372421**	10 m	13,500	



MODEL 2001 OVERFLOW GRATING - SINGLE JOINT

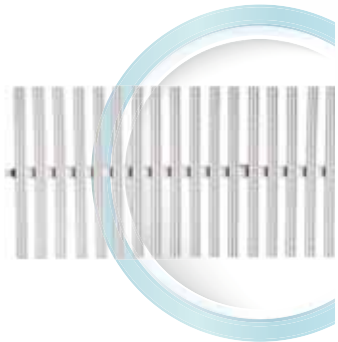
Made of PP plastic; modular with single joint. **"I"** shaped profile.
Height: 25 mm. Price per meter.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Classical Design Width: 15 cm	**0372211**	10 m	11,900	0,044
• Classical Design Width: 20 cm	**0372212**	10 m	11,500	0,062
• Classical Design Width: 25 cm	**0372312**	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/ box	Weight Kg	Volume m^3
Modular Plastic Width: 20 cm	**037321K**	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/ box	Weight Kg	Volume m^3
• Width: 20 cm	**037321**	10 m	11,700	0,062
• Width: 25 cm	**037331**	10 m	18,320	0,061

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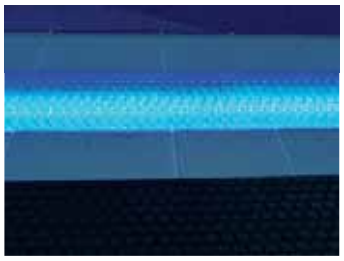
Overflow Grating

"MODEL GEMAS SQUARE" OVERFLOW GRATING

Plastic modular, single joint. **"I"** shaped profile. Height: 25 mm.

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

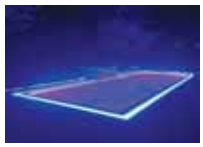
Overflow - For Strip Led Implementation



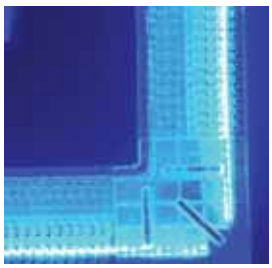
"Model GEMAS - Transparent Squared" Overflow Grating

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^3
• Width: 20 cm (price per meter)	**0372212KT**	1	14,000	0,051
• Width: 25 cm (price per meter)	**0372213KT**	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^3
• 25 cm	**037431**	20	9,960	0,048
• 20 cm	**037421**	25	8,800	0,038
• 25 cm - Transparent	**037431T**	20		
• 20 cm - Transparent	**037421T**	25		
• 15 cm	**037411**	20	4,438	0,019
• 25 cm H:33 mm	**037434**	20		
• 20 cm H:33 mm	**037433**	25		
• 30 cm	**037413**			

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^3
• 25 cm H:33 mm	**037432**	20	6,950	0,042
• 20 cm H:33 mm	**037422**	20	4,470	0,028
• 25 cm - Transparent	**037432T**	20		
• 20 cm - Transparent	**037422T**	20		
• 15 cm	**037412**	10	1,636	0,008
• 30 cm	**037414**			

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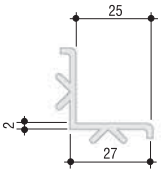
Grating Support Profile

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Overflow Support Profile	**03750**	100 m	18,170	0,051
PVC, 23 x 26 mm (Price per meter)		(2 m x 50)		
• Same, 33 x 25 mm (Price per meter)	**03751**	100 m (2 m x 50)		

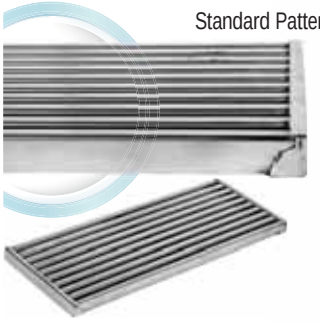


Stainless Steel Overflow Gratings

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Width: 25 cm (price per meter) - 2 pcs.	**0372221SS1**	1		

Standard Pattern

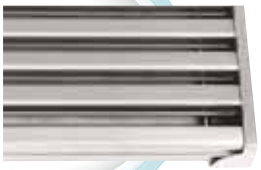


Made of AISI 316 grade stainless steel. Length: 0,50 m monoblock grating.
Standard antislip pattern.

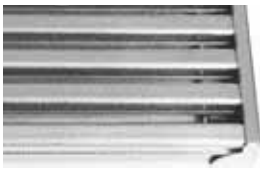
Description	Code	Pieces/ box	Weight Kg	Volume m^3
Width: 25 cm (price per meter) - 2 pcs.	**0372221SS2**	1		

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

Point Pattern



Leather Pattern



Stainless Steel Corner Tiles for Overflow Gratings

Corner Tiles, 90° - Stainless Steel

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 25 cm AISI 304 grade	**037421SS1**			
• 25 cm AISI 316 grade	**037421SS2**			

Standard Pattern Grating

Leather Pattern Grating

Point Pattern Grating

Grating And Corner Tile Detail

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Strainer for Overflow Gutter Drain

Made in stainless steel adjustable to drain pipes in gutter.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• for Ø63 mm pipe	**03801**	1		
• for Ø75 mm pipe	**03802**	1		
• for Ø90 mm pipe	**03803**	1		
• for Ø110 mm pipe	**03804**	1		
• Plastic - for up to Ø110 mm pipe	**03811**	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^3
	04150	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^3
• 52,50 x 37,50 x 8,75 cm	**03900**	1	1,270	0,021
• 85,00 x 65,00 x 9,00 cm	**03902**	1		
• 120,00 x 80,00 x 9,00 cm	**03901**	1		

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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^3
• 50 x 50 cm	**03911**	1	7,000	0,040
• 75 x 75 cm	**03912**	1	14,000	0,080
• 100 x 100 cm	**03913**	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

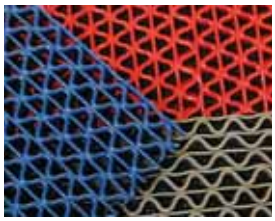
Inox handle with key lock

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^3
• Red. Price per meter	**03011**	1 Roll		
• Blue. Price per meter	**03012**	1 Roll		
• Green. Price per meter	**03013**	1 Roll		



I.T.U. Olympic Pool / Istanbul

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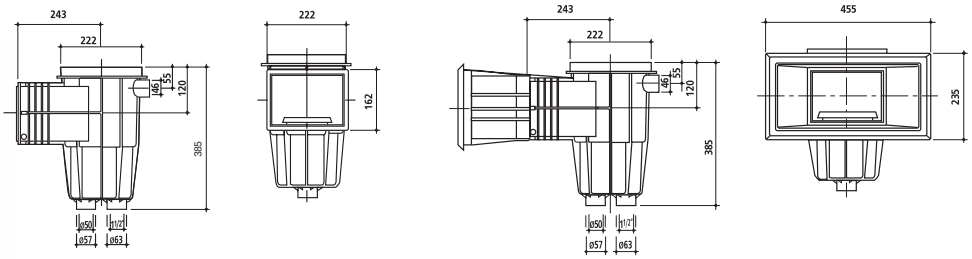
Skimmers for Concrete Pools

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^3
Standard				
• Standard squared lid skimmer	**04111**	1	3,036	0,054
• Ditto, w/floating weir	**04111FW**	1	2,840	0,054

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Wide Mouth				
• Wide mouth squared lid skimmer	**04112**	2	8,000	0,137
• Ditto, w/floating weir	**04112FW**	2	7,524	0,137

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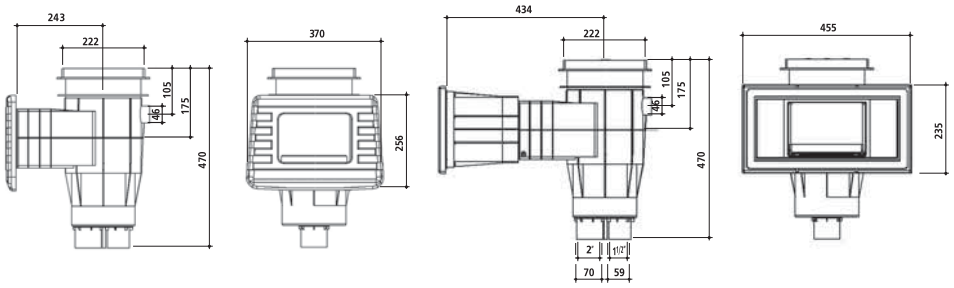
Lux-Skimmers for Concrete Pools

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 datail

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Lux Standard				
• Mouth squared lid skimmer	**04121**	2	6,954	0,137
• Ditto, w/floating weir	**04121FW**	2	6,530	0,137

Lockable lid for child protection

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Lux Extended Throat (+10 cm)				
• Lux standard extended	**04121E**	2	4,350	0,108
• Ditto, w/floating weir	**04121EFW**	2	4,150	0,108

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Lux Wide Mouth				
• Lux wide mouth squared lid skimmer	**04122**	2	4,610	0,108
• Ditto, w/floating weir	**04122FW**	2	4,378	0,108

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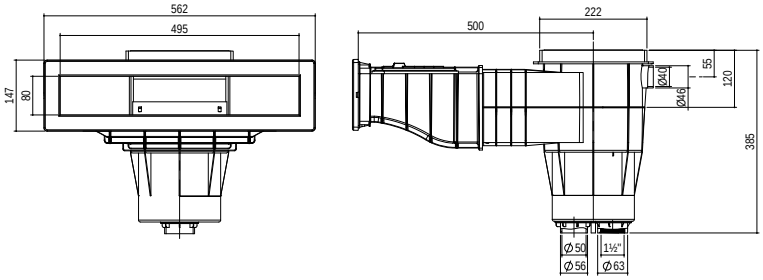
Elevated Wide Mouth Skimmers for Concrete Pools

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.

Elevated wide mouth for high water level

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

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004



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).

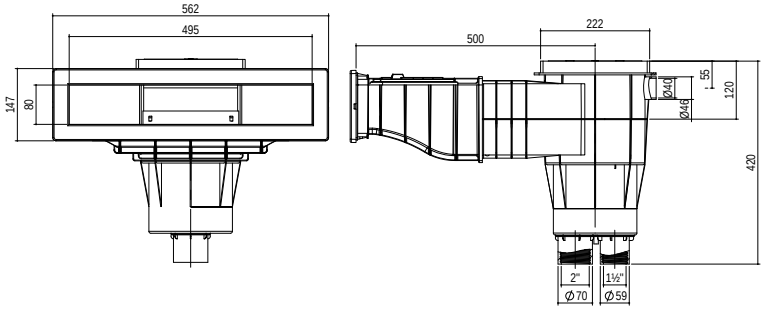
RAL 7016

RAL 1015

RAL 7004

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

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004



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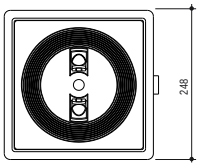
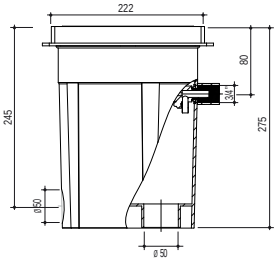
Skimmers - Level Regulator

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^3
• Automatic Level Regulator	**04120**	1	1,600	0,021
• Ditto, with locking decklid	**04120L**	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^3
• Face Plate Skimmer Standard	**0412102**	1	0,300	0,003
• Face Plate Skimmer Anthracite - RAL 7016	**0412102A**	1	0,300	0,003
• Face Plate Skimmer Beige - RAL 1015	**0412102B**	1	0,300	0,003
• Face Plate Skimmer Gray - RAL 7004	**0412102G**	1	0,300	0,003

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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

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

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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^3
Skimmer Horizontal Extension	**04111E10**	1		

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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^3
	04111E03	1		

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

Decklid with Safety Locking Mechanism. Made of ABS plastic.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	0412101	1		

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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

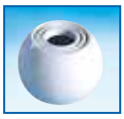
Description	Code	Pieces/ box	Weight Kg	Volume m^3
	04110BF	1	0,364	0,006

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

04131S1

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

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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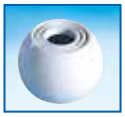
Return Inlets (Concrete Pools) - ABS

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/ box	Weight Kg	Volume m^3
• 2" Male Threaded : Ø50 mm internal slip connection.	**04131TP**	10	1,100	0,006
• 2" Slip to be glued inside Ø63 mm (10 atm) pipe.	**04131SP**	10	1,060	0,006

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

Suction Inlet for Concrete Pools.

04134S1

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 2" Male Threaded : Ø50 mm internal slip connection.	**04134T**	10	0,900	0,006
• 2" Slip to be glued inside Ø63 mm (10atm) pipe.	**04134S**	10	0,900	0,006
• Slip to be glued inside Ø50 mm (10atm) pipe.	**04134S1**			

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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/ box	Weight Kg	Volume m^3
• 2" Male Threaded: Pool side 2" Female thr.	**04160T**	20	8,700	0,060
• Ditto, with nozzle seat	**04260T1**			
• Ditto, back outlet 2" Male threaded	**04160T1**	20	8,700	0,060
• Ditto, with Protection plugs	**04160TP**	20	9,200	0,014
• Pool side for slip connection. (i.e same size with internal dia of Ø63 mm (10atm) PVC pipe.)	**04160S**	20	8,700	0,060

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Return Inlets (Concrete Pools) - ABS

Floor Inlet - Adjustable for Concrete Pools. Injected of white ABS plastic, according to EU 13451-¼.8.3" 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^3
• Flat Lid - 2" Male Threaded	**04132TF**	8	1,430	0,006
• Flat Lid - Slip, to be glued inside Ø63 mm (10 atm) pipe.	**04132SF**	8	1,400	0,006
• Conical Lid - 2" Male Threaded	**04132TC**	8	1,300	0,006
• Conical Lid - Slip, to be glued inside Ø63 mm (10 atm) pipe.	**04132SC**	8	1,600	0,006

CD

04133T

AD

04132S4 - 04133S1

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^3
• 2" Male Threaded - CD	**04133T**	10	0,930	0,007
• Ditto, AD	**04133T4**			
• 2" Slip - CD	**04133S**	10	0,912	0,007
• Ditto, AD	**04132S4**			
• 1,5" Slip - CD	**04133S1**			

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

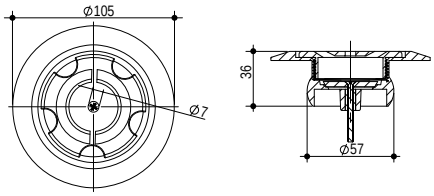
041331S

041321S

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^3
• 2" Slip - CD	**041331S**			
• 2" Slip - AD	**041321S**			

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004



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^3
	04150	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^3
	04151	1		

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In-Pool Materials

Junction Box

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	05040	8	2,610	0,016

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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/ box	Weight Kg	Volume m^3
• 1,5" Female Thread	**04141T1**	1	0,832	0,013
• 2" Female Thread	**04141T2**	1	0,800	0,013
• Ø50 mm Slip Connection	**04141S1**	1	0,802	0,013
• Ø63 mm Slip Connection	**04141S2**	1	0,776	0,013
• Ø75 mm Slip Connection	**04141S3**	1	0,784	0,013

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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/ box	Weight Kg	Volume m^3
• 2" Female Thread	**04142T1**	1	1,360	0,013
• Ditto, but with extended thread of	**04142T1E**	1	1,400	0,013
5 cm length facilitating test plug				
• 2,5" Female Thread	**04142T2**	1	1,590	0,013
• 3" Female Thread	**04143T3**	1	1,520	0,013
• Ø63 mm Slip Connection	**04142S1**	1	1,352	0,013
• Ø75 mm Slip Connection	**04142S2**	1	1,250	0,013
• Ø90 mm Slip Connection	**04142S3**	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/ box	Weight Kg	Volume m^3
	04143C	1	0,376	0,003

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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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^3
	04143R1	1	0,954	0,003

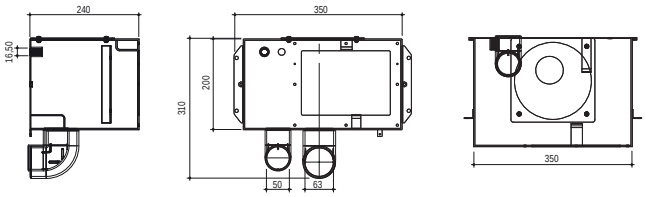
PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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^3
	04143R2	1	4,200	0,015

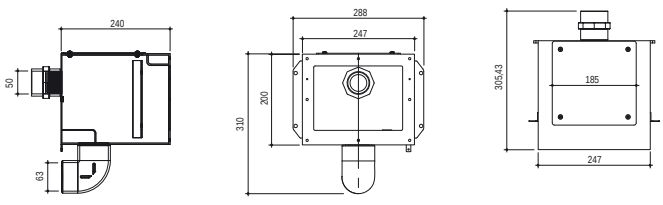
St. Steel Skimmers for Concrete Pools

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^3
• Model 1	**04112SS**	1	6,510	0,040
• Ditto, with Floater	**04112SSF**	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^3
Model 2	**04111SS**	1	5,250	0,040

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St. Steel Skimmers for Concrete Pools

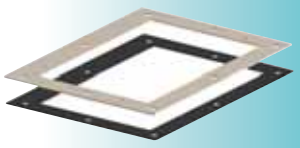
Stainless Steel Skimmer Strainer Basket for Concrete Pools. Made of AISI 304 quality stainless Steel Complete with face plate for direct removal through skimmer mouth. (Applicable to Model 1 and Model 2).

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	04111SS01	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/ box	Weight Kg	Volume m^3
	04111SS02	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/ box	Weight Kg	Volume m^3
	04211SS01	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/ box	Weight Kg	Volume m^3
• 304 Wall Inlet 2" Threaded	**04131TSSM**	1		
• 304 Suction Inlet 2" Threaded	**04134TSSM**	1		
• 304 Floor Inlet - CD 2" Threaded	**04133TSSM**	1		
• 304 Floor Inlet - AD 2" Threaded	**04135TSSM**	1		
• 316 Return Inlet 2" Threaded	**04131TSSM01**	1		
• 316 Suction Inlet 2" Threaded	**04134TSSM01**	1		
• 316 Floor Inlet - CD 2" Threaded	**04133TSSM01**	1		
• 316 Floor Inlet - AD 2" Threaded	**04135TSSM01**	1		

04131TSSM01

04134TSSM01

04133TSSM

04135TSSM

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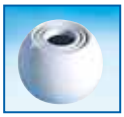
Wall Inlet (Concrete Pools) - St. Steel Dressed

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	**04131TSS**	10	2,400	0,006
• 2" Slip to be glued inside Ø63 mm pipe	**04131SSS**			

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.	**04134TSS**	10	3,572	0,007
• 2" Slip to be glued inside Ø63 mm pipe	**04134SSS**			

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
• Flad Lid - 2" Male Threaded : Flat Lid AISI 304 Quality St.Steel	**04132TFSS**	8	2,200	0,006
• 2" Slip to be glued inside Ø63 mm pipe	**04132SFSS**			

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	**04133TSS**	8	2,400	0,007
• 2" Slip to be glued inside Ø63 mm pipe	**04133SSS**			

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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/ box	Weight Kg	Volume m^3
• 1,5" Female Thread	**04141T1SS**	1		
• 2" Female Thread	**04141T2SS**	1		
• 1,5" glued	**04141S1SS**	1		
• 2" glued	**04141S2SS**	1		
• 2,5" glued	**04141S3SS**	1		

04141T1SS

04141S1SS

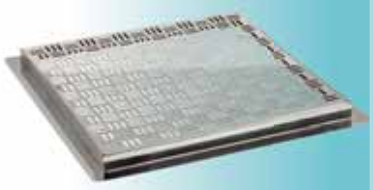
Grilles for Main Drain (Concrete Pools) - St. Steel

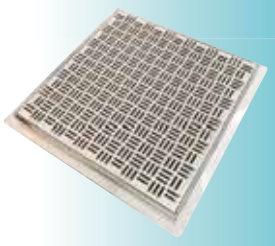
Stainless steel circular grilles. Made of AISI 304 quality stainless steel with stainless steel screws Ø186 - 242 mm.

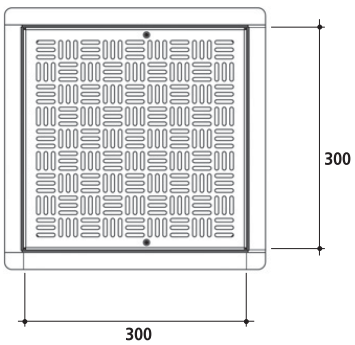
Description	Code	Pieces/ box	Weight Kg	Volume m^3
Circular Grille	**04143SS**	1	0,258	0,003

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/ box	Weight Kg	Volume m^3
• 200 x 200 mm (out)	**04143RSS1**	1		
• 300 x 300 mm (out)	**04143RSS2**	1		
• 400 x 400 mm (out)	**04143RSS3**	1		
• 500 x 500 mm (out)	**04143RSS4**	1		
• 600 x 600 mm (out)	**04143RSS5**	1		







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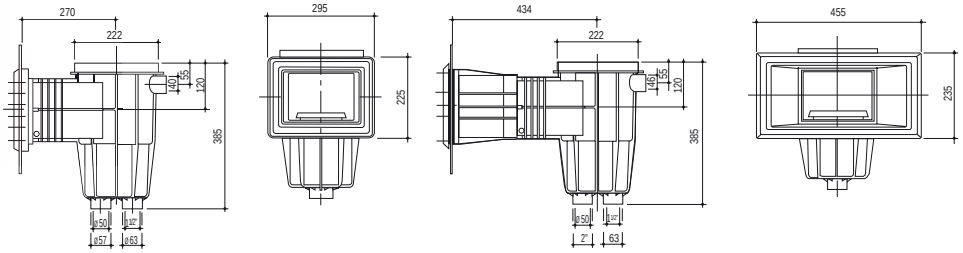
Skimmers for Liner Pools

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^3
Standard Throat				
• Standard Squared Lid Skimmer	**04211**	1	4,104	0,054
• Ditto, W/Brass Cavities	**04211B**	1	4,142	0,054
• Standard Squared Lid Skimmer W/Floating Weir	**04211FW**	1	3,820	0,054
• Ditto, W/Brass Cavities	**04211BFW**	1	3,986	0,054

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

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

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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/ box	Weight Kg	Volume m^3
Lux Standard Throat				
• Lux Standard Squared Lid Skimmer	**04221**	2	9,150	0,137
• Ditto, W/Brass Cavities	**04221B**	2	9,400	0,137
• Lux Standard Squared Lid Skimmer W/Floating Weir	**04221FW**	2	8,720	0,137
• Ditto, W/Brass Cavities	**04221BFW**	2	8,890	0,137

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Lux Extension Throat (+ 10 cm)				
• Lux Standard Squared Lid Skimmer	**04221E**	1	5,600	0,110
• Ditto, W/Brass Cavities	**04221EB**	1	5,700	0,110
• Lux Standard Squared Lid Skimmer W/Floating Weir	**04221EFW**	1	4,350	0,110
• Ditto, W/Brass Cavities	**04221EBFW**	1	4,500	0,110

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Lux Wide Mouth				
• Lux Wide Mouth Squared Lid Skimmer	**04222**	1	5,296	0,110
• Ditto, W/Brass Cavities	**04222B**	1	5,525	0,110
• Lux Wide Mouth Squared Lid Skimmer W/Floating Weir	**04222FW**	1	5,250	0,110
• Ditto, W/Brass Cavities	**04222BFW**	1	5,370	0,110

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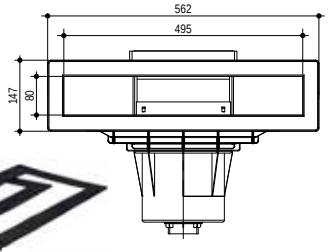
Elevated Wide Mouth Skimmers for Liner Pools

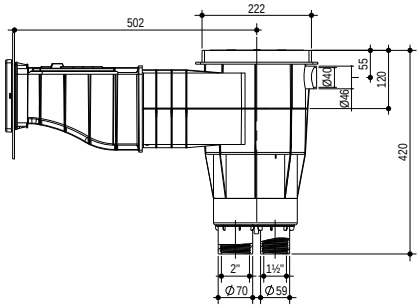
Elevated Skimmer raises the pool water level by 5 cm compared to normal skimmers. All skimmer models are made of ABS plastic and equipped with "suction regulator" and locking mechanism basket against back pressure. Skimming by **"buoy float"** or **"floating weir"**. Suction port: 1,5" female threaded (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.

Description	Code	Pieces/ box	Weight Kg
• Liner Pools with brass cavities	**04215BFW**	1	
• Liner Pools wout brass cavities	**04215FW**	1	

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See below RAL codes. RAL 7016 RAL 1015 RAL 7004

Elevated wide mouth for high water level





Liner Flange, Gasket ans 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).

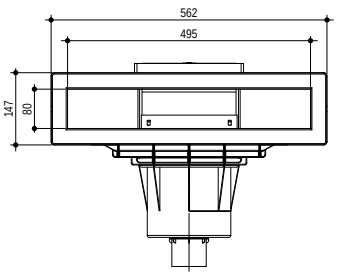
RAL 7016

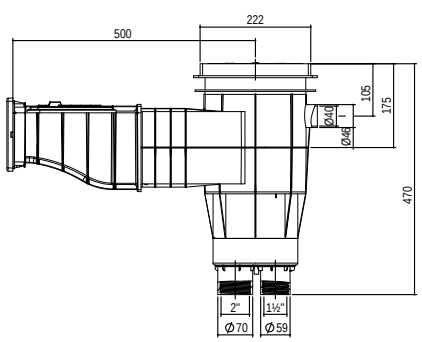
RAL 1015

RAL 7004

Description	Code	Pieces/ box	Weight Kg
• Liner Pools with brass cavities	**04225BFW**	1	
• Liner Pools wout brass cavities	**04225FW**	1	

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004





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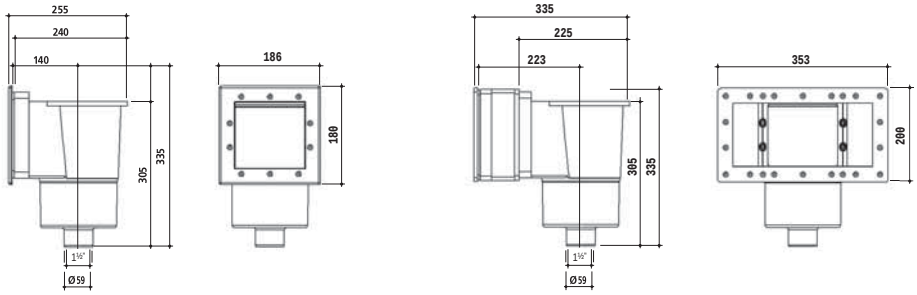
In-Pool Materials

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/ box	Weight Kg	Volume m^3
• Standard Mouth Square Lid Skimmer	**04213**	8	19,500	
• Wide Mouth Square Lid Skimmer	**04214**	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 m³/h
Ø20 mm ball 5 m³/h
Ø25 mm ball 7 m³/h

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

04231BTG

RAL 7004

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 2" Male threaded :	**04231TP**	8	1,460	0,007
Ø50 internal slip connection.				
• Ditto, W/Brass Cavities	**04231BTP**	8	1,508	0,007
• 2" Male threaded : Also 2" nut included	**04231TNP**	8	1,750	0,007
• Ditto, W/Brass Cavities	**04231BTNP**	8	1,806	0,007

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside. RAL 7016 RAL 1015 RAL 7004

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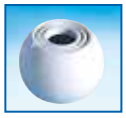
Return Inlets (Liner Pools) - ABS

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.	**04231C**	8	1,676	0,006
• Ditto, W/Brass Cavities	**04231CB**	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.	**04231CN**	8		
• Ditto, W/Brass Cavities	**04231CNB**	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.	**04234T**	8	1,500	0,006
• Ditto, W/Brass Cavities	**04234TB**	8	1,600	0,006
• 2" Male Threaded: Injected of white ABS plastic. Also 2" nut included.	**04234TN**	8	1,520	0,006
• Ditto, W/Brass Cavities	**04234TNB**	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 30% 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	**04232TF**	4	1,270	0,007
• Ditto, W/Brass Cavities	**04232TFB**	4	1,270	0,007
• Conycal Lid - 2" Male Threaded	**04232TC**	4	1,340	0,007
• Ditto, W/Brass Cavities	**04232TCB**	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 30% 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	**04237**	35	1,474	0,006

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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/ box	Weight Kg	Volume m^3
• 1,5" Female Thread	**04241T1**	1	1,740	0,013
• Ditto, W/Brass Cavities	**04241T1B**	1	1,130	0,013
• 2" Female Thread	**04241T2**	1	1,134	0,013
• Ditto, W/Brass Cavities	**04241T2B**	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 30% 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/ box	Weight Kg	Volume m^3
• 1,5" Thread	**04243T1**	1	1,034	0,013
• Ditto, W/Brass Cavities	**04243T1B**	1	1,034	0,013
• 2" Thread	**04243T2**	1	1,072	0,013
• Ditto, W/Brass Cavities	**04243T2B**	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 30% 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/ box	Weight Kg	Volume m^3
• 1,5" Female Thread	**04241T1SS**	1		
• 2" Female Thread	**04241T2SS**	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/ box	Weight Kg	Volume m^3
• 2" Female Thread	**04242T1**	1	1,600	0,013
• Ditto, but with extended threaded of 5 cm length facilitating test plug	**04242T1E**	1	1,600	0,013
• Ditto, W/Brass Cavities	**04242T1EB**	1	1,600	0,013
• 2,5" Female Thread	**04242T2**	1	1,606	0,013
• Ditto, W/Brass Cavities	**04242T2B**	1	1,606	0,013
• 3" Female Thread	**04242T3**	1	1,606	0,013
• Ditto, W/Brass Cavities	**04242T3B**	1	1,606	0,013
• Ø63 mm Slip Connection	**04242A1**	1	1,600	0,013
• Ditto, W/Brass Cavities	**04242A1B**	1	1,570	0,013
• Ø75 mm Slip Connection	**04242A2**	1	1,570	0,013
• Ditto, W/Brass Cavities	**04242A2B**	1	1,570	0,013
• Ø90 mm Slip Connection	**04242A3**	1	1,570	0,013
• Ditto, W/Brass Cavities	**04242A3B**	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 30% more expensive.

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Underwater Lights for Concrete Pools

New Generation

2 years Parts WARRANTY

"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°.**

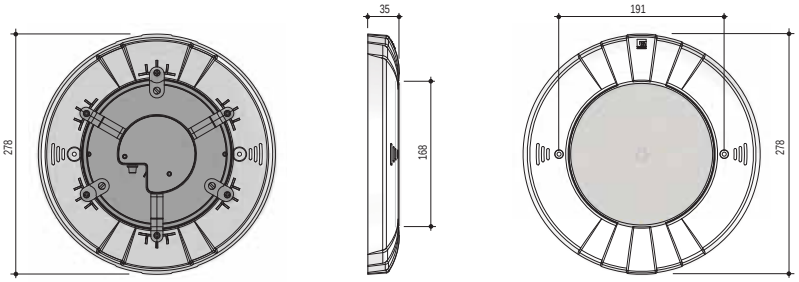
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 252 LED White - 50 W	**051140**	1	1,050	0,005
• 252 LED Daylight - 50 W	**051141**	1	1,050	0,005
• 81 LED White - 35 W Aluminium PCB	**051130**	1	1,050	0,005
• 81 LED Daylight - 35 W Aluminium PCB	**051131**	1	1,050	0,005
• Optional Wall Mounting Bracket	**051130EY01**	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^3
Central Control				
• 252 LED RGB, 36 W Aluminium PCB	**051155**	1	1,050	0,005
• 90 LED RGB-White, 36 W Aluminium PCB	**051152**	1	1,050	0,005
• 81 LED RGB, 30 W	**051157**	1	1,050	0,005
• Built-in Control				
• 252 LED RGB, 36 W Aluminium PCB	**051153**	1	1,050	0,005
• 90 LED RGB-White, 36 W Aluminium PCB	**051150**	1	1,050	0,005
• 81 LED RGB, 30 W	**051156**	1	1,050	0,005

051130EY01
Optional wall mounting bracket



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"New Generation"

Underwater Lights for Concrete Pools

2 years Parts WARRANTY

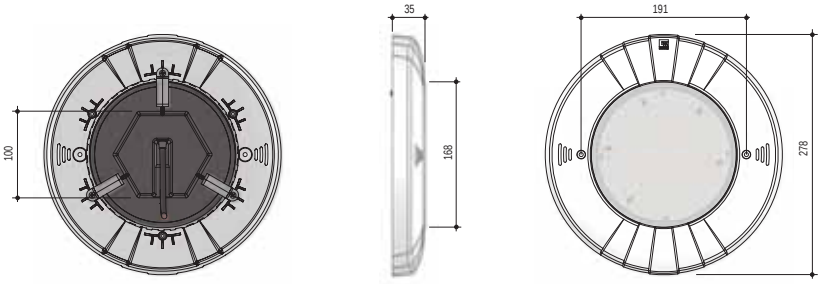
"ECOSlimLED"
Underwater Light without Niche, Single Color.
Frame made of ABS or Transparent Plastic. Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,5 m length. 120° - IP68. Wall mounting is done by fixing the light directly onto the pool wall with stainless 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^3
• 72 LED White - 24 W	**051130EO**	1	0,835	0,005
• 72 LED Daylight - 24 W	**051131EO**	1	0,835	0,005
• 72 LED Turquoise - 20 W	**051132EO**	1	0,835	0,005
• 72 LED Blue - 20 W	**051133EO**	1	0,835	0,005
• 72 LED Red - 20 W	**051134EO**	1	0,835	0,005
• 72 LED Green - 20 W	**051135EO**	1	0,835	0,005
• Optional Wall Mounting Bracket	**051130EY01**	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^3
• 72 LED RGB-Built-in Control-20 W	**051150EO**	1	0,835	0,005
• 72 LED RGB-Central Control-20 W	**051152EO**	1	0,835	0,005
• 72 LED RGB-Self Control	**051150SCEO**	1	0,835	0,005
• Optional Wall Mounting Bracket	**051130EY01**	1	0,835	0,005

051130EY01
Optional wall mounting bracket



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NEW ! "New Generation"

Underwater Lights for Concrete Pools

ECOSlim2025 LED

Underwater Light without Niche, Single Color.

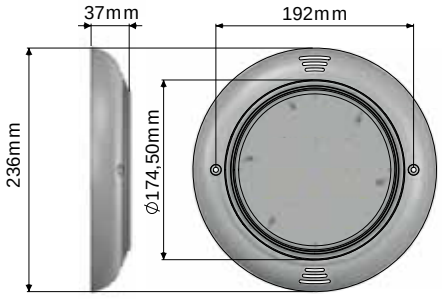
Frame made of ABS or Transparent Plastic. Complete with 72 SMD LEDs: Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1,5 m length. 120° - IP68. Wall mounting is done by fixing the light directly onto the pool wall with stainless steel screws and plugs. Optional wall mounting bracket is available.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

2 years Parts WARRANTY

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 24 W	**051120EO**	1	0,835	0,005
• 72 LED Daylight - 24 W	**051121EO**	1	0,835	0,005
• 72 LED Turquoise - 20 W	**051122EO**	1	0,835	0,005
• 72 LED Blue - 20 W	**051123EO**	1	0,835	0,005
• 72 LED Red - 20 W	**051124EO**	1	0,835	0,005
• 72 LED Green - 20 W	**051125EO**	1	0,835	0,005
• Optional Wall Mounting Bracket	**051130EY01**			

"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 m^3
• 72 LED RGB-Built-in Control-20 W	**051126EO**	1	0,835	0,005
• 72 LED RGB-Central Control-20 W	**051127EO**	1	0,835	0,005
• Optional Wall Mounting Bracket	**051130EY01**			



051130EY01
Optional wall mounting bracket

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Underwater Lights for Concrete Pools

New Generation

2 years Parts WARRANTY

Product Video

"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.

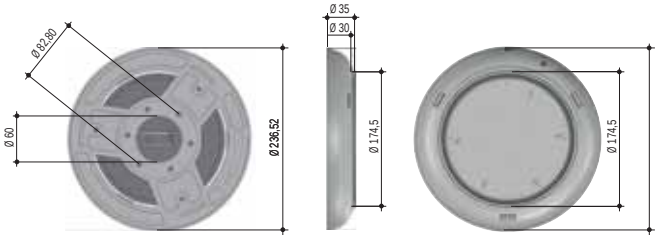
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 35 W Aluminium PCB	**051230**	1		
• 72 LED Daylight - 35 W Aluminium PCB	**051231**	1		
• 72 LED Turquoise - 30 W	**051232**	1		
• 72 LED Blue - 30 W	**051233**	1		
• 72 LED Red - 30 W	**051234**	1		
• 72 LED Green - 30 W	**051235**	1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

Patented Bayonet "Click" System

"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^3
• 72 LED RGB - Built-in Control - 30 W	**051236**	1		
• 72 LED RGB - Center Control - 30 W	**051237**	1		
• 72 LED RGB - Built-in Control - 20 W	**0512361**	1		
• 72 LED RGB - Center Control - 20 W	**0512371**	1		

Rear View



RAL 7016

RAL 1015

RAL 7004

"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^3
• Anthracite - RAL 7016	**05120001A**	1		
• Beige - RAL 1015	**05120001B**	1		
• Gray - RAL 7004	**05120001G**	1		
• Stainless Steel 304	**0512001SS**	1		

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey. Prices will be 30% more expensive. See RAL codes aside.

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Product Video

New Generation

2 years Parts WARRANTY

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.**

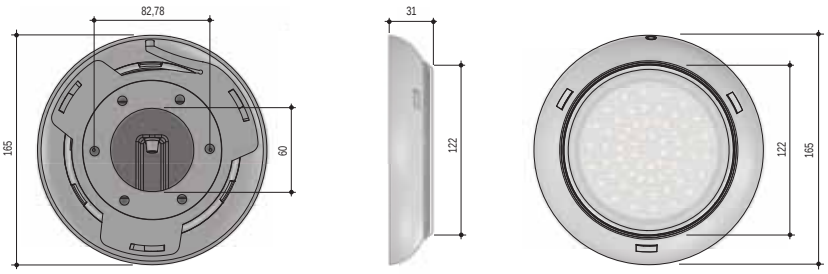
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 10 W	**051160E**	1		
• 72 LED Daylight - 10 W	**051161E**	1		
• 72 LED Turquoise - 9 W	**051162E**	1		
• 72 LED Blue - 9 W	**051163E**	1		
• 72 LED Red - 9 W	**051164E**	1		
• 72 LED Green - 9 W	**051165E**	1		

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^3
• 72 LED RGB - Built-in Control -9 W	**051170E**	1		
• 72 LED RGB - Central Control -9 W	**051171E**	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^3
	0511175	1	1,882	0,016

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Underwater Lights for Concrete Pools

"New Generation"

2 years Parts WARRANTY

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

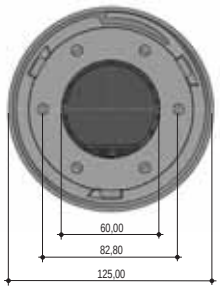
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED White - 7 W	**051180**	1		
• 36 LED Daylight - 7 W	**051181**	1		
• 36 LED Turquoise - 4 W	**051182**	1		
• 36 LED Blue - 4 W	**051183**	1		
• 36 LED Red - 4 W	**051184**	1		
• 36 LED Green - 4 W	**051185**	1		

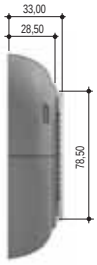
Rear View

Wall Mounting Bracket

"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^3
• 36 LED RGB-Built-in Control -4 W	**051190**	1		
• 36 LED RGB-Central Control -4 W	**051191**	1		





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"New Generation"

NEW !

2 years Parts WARRANTY

Underwater Lights for Concrete Pools

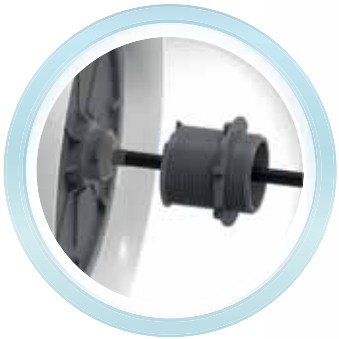
"Twister"
Underwater light without niche.

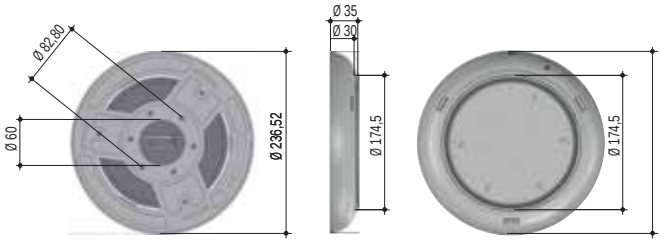
Single color, frame made of ABS Plastic complete with 72 SMD LED. Polycarbonate light body, epoxy PCB and 2 x 0,75 mm cable of 1.5 m length. 120° - IP68 Consists of wall bracket and the light w/frame. Installation for different pool types could be achieved easily as shown in the schemes below. The bracket 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.

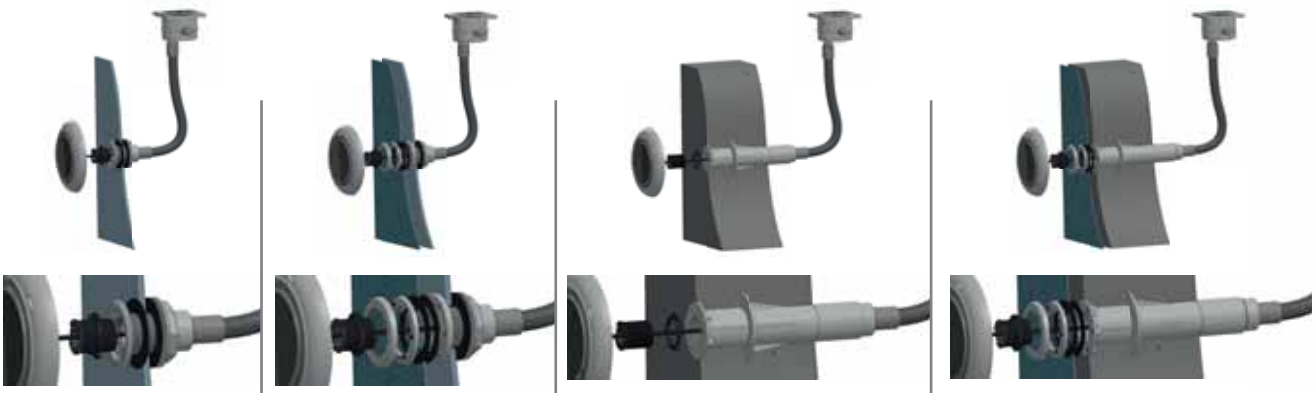
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 24 W	**051210**	1		
• 72 LED Daylight - 24 W	**051211**	1		
• 72 LED Turquoise - 20 W	**051212**	1		
• 72 LED Blue - 20 W	**051213**	1		
• 72 LED Red - 20 W	**051214**	1		
• 72 LED Green - 20 W	**051215**	1		

"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/ box	Weight Kg	Volume m^3
• 72 LED RGB-Built-in Control -20 W	**051216**	1		
• 72 LED RGB-Central Control -20 W	**051217**	1		







FRP Pool | Liner Panel Pool | Concrete Pool | Concrete - Membrane Pool

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Underwater Lights for Concrete Pools - St. Steel

AISI 304/316

2 years Parts WARRANTY

"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 40% should be added to the price. Max. operating temperature 30°.**

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

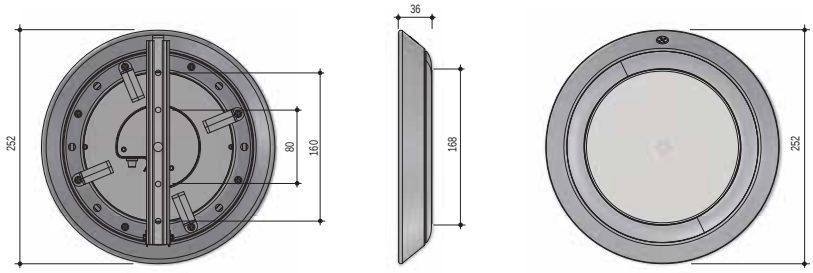
"SlimLED-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.
For built in PCB models there are 13 different lighting patterns.
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

Fixing with Top Screw

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 252 LED RGB, 36 W - Built-in Control	**051153SS**	1	1,100	0,005
• 252 LED RGB, 36 W - Centrally Control	**051155SS**	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.

Rear View



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AISI 304/316

New Generation

2 years Parts WARRANTY

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 40% should be added to the price. Max. operating temperature 30°.**

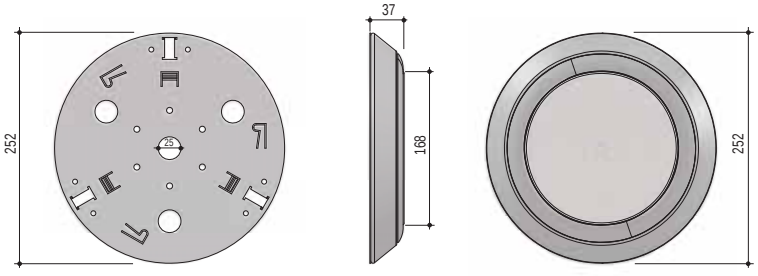
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 252 LED White - 50 W	**051140SSC**	1	1,100	0,005
• 252 LED Daylight - 50 W	**051141SSC**	1	1,100	0,005
• 252 LED Turquoise - 36 W	**051142SSC**	1	1,100	0,005
• 252 LED Blue - 36 W	**051143SSC**	1	1,100	0,005
• 252 LED Red - 36 W	**051144SSC**	1	1,100	0,005
• 252 LED Green - 36 W	**051145SSC**	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^3
• 252 LED RGB, 36 W - Built-in Control	**051153SSC**	1	1,100	0,005
• 252 LED RGB, 36 W - Centrally Control	**051155SSC**	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



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Underwater Lights for Concrete Pools - St. Steel

"New Generation"

NEW !

2 years Parts WARRANTY

AISI 304/316

Product Video

"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 40% should be added to the price.**

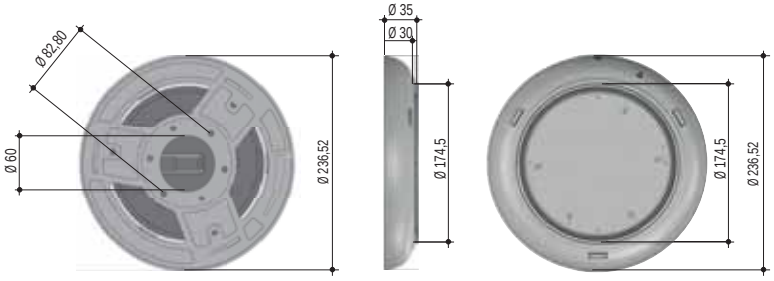
Patented Bayonet "Click" System

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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		

Rear View



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AISI 304/316

"New Generation"

Product Video

2 years Parts WARRANTY

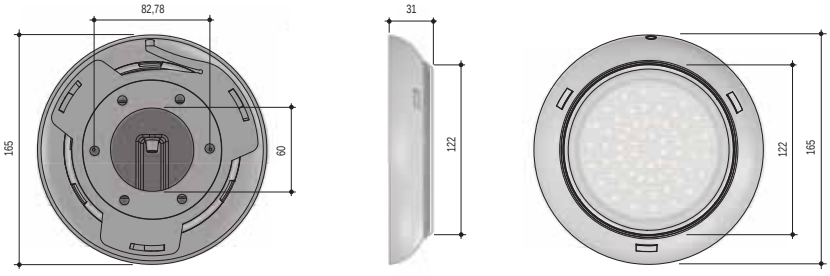
Underwater Lights for Concrete Pools - St. Steel

"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° - IP68Consists 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 30º clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30º 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 40% should be added to the price.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 10 W	**051160ESS**	1		
• 72 LED Daylight - 10 W	**051161ESS**	1		
• 72 LED Turquoise - 9 W	**051162ESS**	1		
• 72 LED Blue - 9 W	**051163ESS**	1		
• 72 LED Red - 9 W	**051164ESS**	1		
• 72 LED Green - 9 W	**051165ESS**	1		

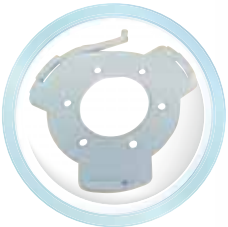
"MIDI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.
For built in PCB models there are 13 different lighting patterns.
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED RGB - Built-in Control -9 W	**051170ESS**	1		
• 72 LED RGB - Central Control -9 W	**051171ESS**	1		



Patented Bayonet "Click" System

Rear View



Wall Mounting Bracket

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Underwater Lights for Concrete Pools - AISI 304 St. Steel

New Generation

AISI 304/316

Product Video

2 years Parts WARRANTY

"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 30º clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30º 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 40% should be added to the price.**

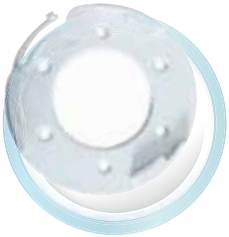
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED White - 7 W	**051180SS**	1		
• 36 LED Daylight - 7 W	**051181SS**	1		
• 36 LED Turquoise - 4 W	**051182SS**	1		
• 36 LED Blue - 4 W	**051183SS**	1		
• 36 LED Red - 4 W	**051184SS**	1		
• 36 LED Green - 4 W	**051185SS**	1		

Patented Bayonet "Click" System

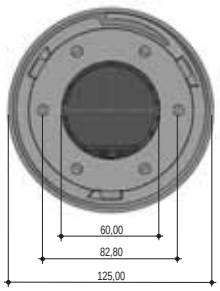
"MINI-Clicker" Underwater Light without Niche; Ditto, but RGB Changing Color.
For built in PCB models there are 13 different lighting patterns.
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional). 120° - IP68.

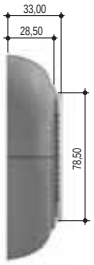
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED RGB-Built-in Control -4 W	**051190SS**	1		
• 36 LED RGB-Central Control -4 W	**051191SS**	1		

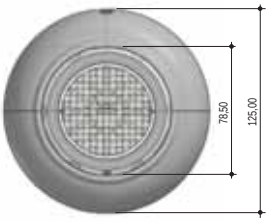
Rear View



Wall Mounting Bracket







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"New Generation"

2 years Parts WARRANTY

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^3
• 252 LED White - 50 W	**052140**	1	0,835	0,005
• 252 LED Daylight - 50 W	**052141**	1	0,835	0,005
• 81 LED White - 35 W Aluminium PCB	**052130**	1	0,835	0,005
• 81 LED Daylight - 35 W Aluminium PCB	**052131**	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^3
Centrally Control				
• 252 LED RGB, 36 W Aluminium PCB	**052155**	1	1,350	0,005
• 90 LED RGB-White, 36 W Aluminium PCB	**052152**	1	1,350	0,005
• 81 LED RGB, 30 W	**052157**	1	1,350	0,005
• Built-in Control				
• 252 LED RGB, 36 W Aluminium PCB	**052153**	1	1,350	0,005
• 90 LED RGB-White, 36 W Aluminium PCB	**052150**	1	1,350	0,005
• 81 LED RGB, 30 W	**052156**	1	1,350	0,005

"SlimLED" Underwater Light without Niche, Silicone Filled Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**0521403**	1	0,300	0,003

051130EY01
Optional Wall Mounting Bracket

052160E01

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Underwater Lights for Liner Pools

"New Generation"

2 years Parts WARRANTY

Product Video

"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

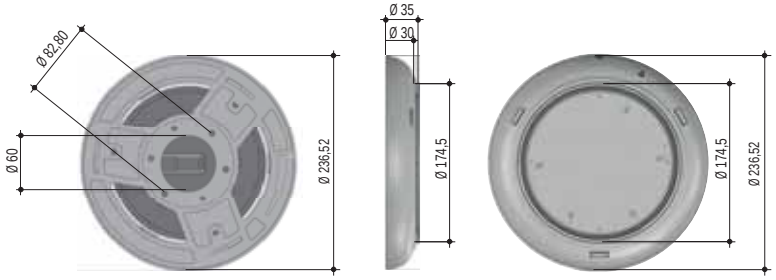
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 35 W Aluminium PCB	**052230**	1		
• 72 LED Daylight - 35 W Aluminium PCB	**052231**	1		
• 72 LED Turquoise - 30 W	**052232**	1		
• 72 LED Blue - 30 W	**052233**	1		
• 72 LED Red - 30 W	**052234**	1		
• 72 LED Green - 30 W	**052235**	1		
• 72 LED White - 24 W	**0522301**	1		
• 72 LED Daylight - 24 W	**0522311**	1		
• 72 LED Turquoise - 20 W	**0522321**	1		
• 72 LED Blue - 20 W	**0522331**	1		
• 72 LED Red - 20 W	**0522341**	1		
• 72 LED Green - 20 W	**0522351**	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^3
• 72 LED RGB - Built-in Control - 30 W	**052236**	1		
• 72 LED RGB - Center Control - 30 W	**052237**	1		
• 72 LED RGB - Built-in Control - 20 W	**0522361**	1		
• 72 LED RGB - Center Control - 20 W	**0522371**	1		

"MAXI-Clicker" Underwater Light without Niche, Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**05223003**	1	0,300	0,003



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Product Video

"New Generation"

2 years Parts WARRANTY

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 30º clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30º counter clockwise. 2 Year Leakage Warranty.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 10 W	**052160E**	1		
• 72 LED Daylight - 10 W	**052161E**	1		
• 72 LED Turquoise - 9 W	**052162E**	1		
• 72 LED Blue - 9 W	**052163E**	1		
• 72 LED Red - 9 W	**052164E**	1		
• 72 LED Green - 9 W	**052165E**	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.

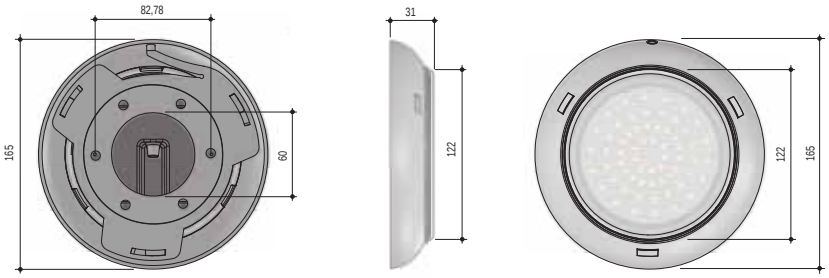
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED RGB - Built-in Control -9 W	**052170E**	1		
• 72 LED RGB - Central Control -9 W	**052171E**	1		

Patented Bayonet "Click" System

"MIDI-Clicker" Underwater Light without Niche Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**052160E03**	1	0,300	0,003

052160E01



052160E03

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Underwater Lights for Liner Pools

"New Generation"

2 years Parts WARRANTY

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 30º clockwise turn. Just turn & click! In order to remove it, push a screw driver on to the button gently and turn the frame 30º counter clockwise. 2 Year Leakage Warranty.** This product is patented.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED White - 7 W	**052180**	1		
• 36 LED Daylight - 7 W	**052181**	1		
• 36 LED Turquoise - 4 W	**052182**	1		
• 36 LED Blue - 4 W	**052183**	1		
• 36 LED Red - 4 W	**052184**	1		
• 36 LED Green - 4 W	**052185**	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.

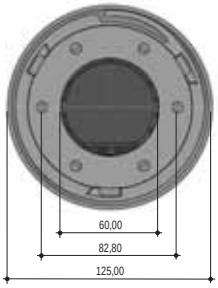
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED RGB-Built-in Control -4 W	**052190**	1		
• 36 LED RGB-Central Control -4 W	**052191**	1		

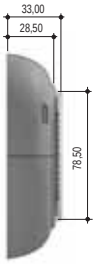
"MINI-Clicker" Underwater Light without Niche, Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**052180E03**	1	0,300	0,003

052160E01

052180E03





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AISI 304/316

New Generation

Underwater Lights for Liner Pools - AISI 304 St. Steel

2 years Parts WARRANTY

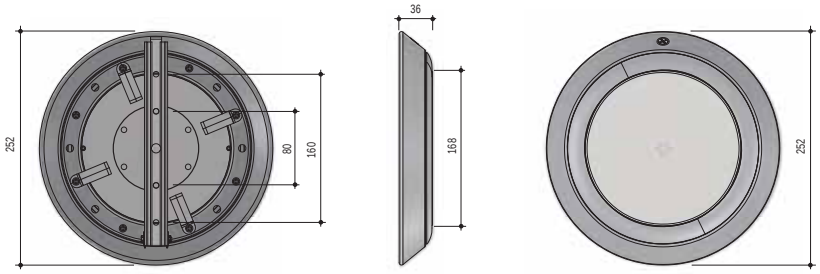
"SlimLED-INOX"
Underwater Light without Niche, Silicone Filled, Single Color.
Frame made of AISI 304 grade Stainless Steel. Polycarbonate light body with a choice of LED quantities and powers embedded into a special transparent silicone. Complete with Aluminium PCB. 2 x 1,5 mm cable of 2,5 m length. 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 40% should be added to the price. Max. operating temperature 30°.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 252 LED White - 50 W	**052140SS**	1	1,400	0,008
• 252 LED Daylight - 50 W	**052141SS**	1	1,400	0,008
• 252 LED Turquoise - 36 W	**052142SS**	1	1,400	0,008
• 252 LED Blue - 36 W	**052143SS**	1	1,400	0,008
• 252 LED Red - 36 W	**052144SS**	1	1,400	0,008
• 252 LED Green - 36 W	**052145SS**	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 m^3
• 252 LED RGB, 36 W - Built-in Control	**052153SS**	1	1,400	0,008
• 252 LED RGB, 36 W - Centrally Control	**052155SS**	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

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Underwater Lights for Liner Pools - AISI 304 St. Steel

"New Generation"

AISI 304/316

2 years Parts WARRANTY

"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 40% should be added to the price. Max. operating temperature 30°.**

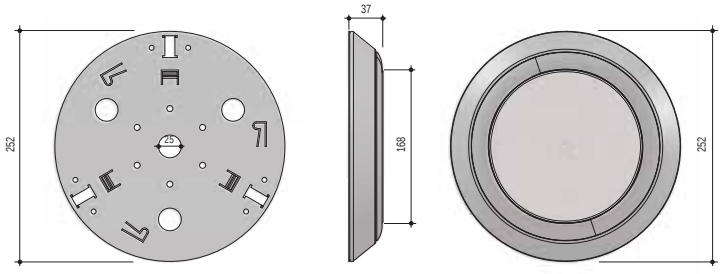
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 252 LED White - 50 W	**052140SSC**	1	1,400	0,008
• 252 LED Daylight- 50 W	**052141SSC**	1	1,400	0,008
• 252 LED Turquoise - 36 W	**052142SSC**	1	1,400	0,008
• 252 LED Blue - 36 W	**052143SSC**	1	1,400	0,008
• 252 LED Red - 36 W	**052144SSC**	1	1,400	0,008
• 252 LED Green - 36 W	**052145SSC**	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^3
• 252 LED RGB, 36 W - Built-in Control	**052153SSC**	1	1,400	0,008
• 252 LED RGB, 36 W - Centrally Control	**052155SSC**	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.

Wall Mount Bracket



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AISI 304/316

"New Generation"

Underwater Lights for Liner Pools - St. Steel

Product Video

2 years Parts WARRANTY

"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 mlength 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 40% should be added to the price.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 35 W Aluminium PCB	**052230SS**	1		
• 72 LED Daylight - 35 W Aluminium PCB	**052231SS**	1		
• 72 LED Turquoise - 30 W	**052232SS**	1		
• 72 LED Blue - 30 W	**052233SS**	1		
• 72 LED Red - 30 W	**052234SS**	1		
• 72 LED Green - 30 W	**052235SS**	1		
• 72 LED White - 24 W	**0522301SS**	1		
• 72 LED Daylight - 24 W	**0522311SS**	1		
• 72 LED Turquoise - 20 W	**0522321SS**	1		
• 72 LED Blue - 20 W	**0522331SS**	1		
• 72 LED Red - 20 W	**0522341SS**	1		
• 72 LED Green - 20 W	**0522351SS**	1		

Patented Bayonet "Click" System

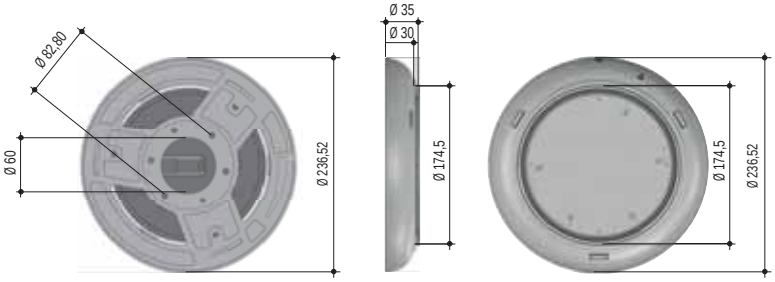
"MAXI-Clicker-INOX" Underwater Light without Niche; Ditto, but RGB Changing Color.
For built in PCB models there are 13 different lighting patterns.
For central PCB models there are 16 different lighting patterns. Lighting patterns are changed by remote control (optional).

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED RGB - Built-in Control - 30 W	**052236SS**	1		
• 72 LED RGB - Center Control - 30 W	**052237SS**	1		
• 72 LED RGB - Built-in Control - 20 W	**0522361SS**	1		
• 72 LED RGB - Center Control - 20 W	**0522371SS**	1		

"MAXI-Clicker" Underwater Light without Niche Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
Polyester pool mounting kit (2'' with nut)	**05223003**	1	0,300	0,003

052160E01



05223003

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Underwater Lights for Liner Pools - St. Steel

"New Generation"

AISI 304/316

2 years Parts WARRANTY

Product Video

"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 40% should be added to the price.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - 10 W	**052160ESS**	1		
• 72 LED Daylight - 10 W	**052161ESS**	1		
• 72 LED Turquoise - 9 W	**052162ESS**	1		
• 72 LED Blue - 9 W	**052163ESS**	1		
• 72 LED Red - 9 W	**052164ESS**	1		
• 72 LED Green - 9 W	**052165ESS**	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).

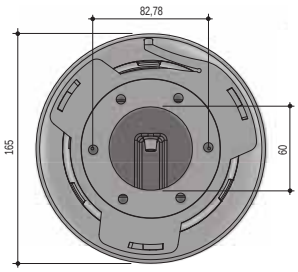
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED RGB - Built-in Control -9 W	**052170ESS**	1		
• 72 LED RGB - Central Control -9 W	**052171ESS**	1		

052160E01

"MIDI-Clicker" Underwater Light without Niche Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**052160E03**	1	0,300	0,003

052160E03



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AISI 304/316

"New Generation"

Underwater Lights for Liner Pools - AISI 304 St. Steel

Product Video

2 years Parts WARRANTY

"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 40% should be added to the price.**

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED White - 7 W	**052180SS**	1		
• 36 LED Daylight - 7 W	**052181SS**	1		
• 36 LED Turquoise - 4 W	**052182SS**	1		
• 36 LED Blue - 4 W	**052183SS**	1		
• 36 LED Red - 4 W	**052184SS**	1		
• 36 LED Green - 4 W	**052185SS**	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).

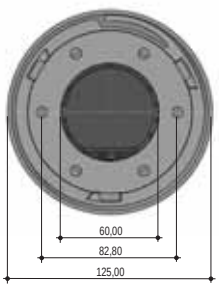
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 36 LED RGB-Built-in Control -4 W	**052190SS**	1		
• 36 LED RGB-Central Control -4 W	**052191SS**	1		

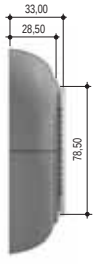
Patented Bayonet "Click" System

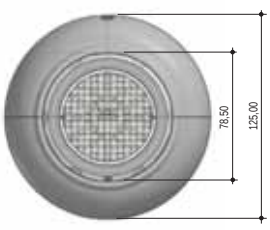
"MINI-Clicker" Underwater Light without Niche Mounting Kits.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Liner panel pool mounting kit (2'' with nut)	**052160E01**	1	0,300	0,003
• Polyester pool mounting kit (2'' with nut)	**052180E03**	1	0,300	0,003

052160E01







052180E03

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Hang Over Underwater LED Light for Prefbricated Pools

"New Generation"

2 years Parts WARRANTY

"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

CE

"Hang Over" Underwater LED Light. Single Color.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3
• 72 LED RGB-Built-in Control - 13 W	**0511711**	1		

Easy DIY Installation

50W/12VAC Transformer

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Underwater Lights for Concrete Pools - ABS

051111

2 years Parts WARRANTY

"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^3
• Complete light, with 300 W/12 V PAR56	**051111**	1	2,160	0,016
Complete light, with 20 W-63 SMD LED	**051111LS**	1		
• 051111, without cable	**051111C**	1		
• 051111LS, without cable	**051111LSC**	1		
• 051111, without niche and cable	**051111NC**	1		
• 051111LS, without niche and cable	**051111LSNC**	1		
• Niche	**05111110S**	1		

051111LS

"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^3
• Complete light, with 300 W/12 V PAR56	**051114**	1	2,160	0,016
• Complete light, with 20 W-63 SMD LED	**051114LS**	1		
• 051114, with locking	**051115**	1		
• 051114LS, with locking	**051115LS**	1		
• 051114, without cable	**051114C**	1		
• 051114LS, without cable	**051114LSC**	1		
• 051114, without cable and niche	**051114NC**	1		
• 051114LS, without cable and niche	**051114LSNC**	1		
• Niche	**05111410S**	1		
• Modular niche extension	**0511411**	1		

051114

051114LS

"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^3
• Complete light, with 300 W/12 V PAR56	**051118**	1		
• Complete light, with 20 W-63 SMD LED	**051118LS**	1		
• 051118, with locking	**051119**	1		
• 051118LS, with locking	**051119LS**	1		
• 051118, without cable	**051118C**	1		
• 051118LS, without cable	**051118LSC**	1		
• 051118, without cable and niche	**051118NC**	1		
• 051118LS, without cable and niche	**051118LSNC**	1		
• Niche	**05111810S**	1		
• Modular niche extension	**0511411**	1		

051119

0511411

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Underwater Lights for Concrete Pools - ABS

2 years Parts WARRANTY

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^3
• Complete Light, with 300 W/12 V PAR56	**051112**	1	2,800	0,016
• Complete Light, with 20 W-63 SMD LED	**051112LS**	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^3
• 50 W/12 V	**05112**	1		
• 7 W/12 V with white SMD 36 LED	**05112LS**	1		
• Niche	**0511212S**	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^3
• Slip type body with plastic frame	**05112S**	4	2,000	0,007
• 05112S, with 7 W/12 V SMD 36 LED	**05112SLS**	4	2,500	0,007
• 2" threaded with plastic frame	**05112T**	4	2,100	0,007
• 05112T, with 7 W/12 V SMD 36 LED	**05112TLS**	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^3
	04160A	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^3
	0511200101S	1		

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Underwater Lights for Concrete Pools - S.S.

2 years Parts WARRANTY

"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/ box	Weight Kg	Volume m^3
• Complete Light	**051114SS**	1	2,790	0,016
• Complete Light, SMD LED version	**051114SSLS**	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/ box	Weight Kg	Volume m^3
• Complete Light	**051113SS**	1	2,646	0,016
• Complete Light, SMD LED version	**051113SSLS**	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/ box	Weight Kg	Volume m^3
• For "Flat" Light	**05111608**	1		
• For "Standard 2002" Light	**05111408**	1		
• For "Mini 2008" Light	**0511212508**	1		
• "Standard 2002" For Locked Light	**05111508**	1		
• For "Standard 95" Light	**05111108**	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/ box	Weight Kg	Volume m^3
• Complete Light 50 W / 12 V	**05112C**	4	2,300	0,007
• Ditto, 7 W/12 V SMD 36 LED	**05112LSC**	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/ box	Weight Kg	Volume m^3
• Slip type body with st. steel frame	**05112SC**	4	2,300	0,007
• Ditto, with white 36 LED	**05112SCLS**	4		
• 2" threaded with st. steel frame	**05112TC**	4	2,400	0,007
• Ditto, with white 36 LED	**05112TCLS**	4		

05112SC

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Underwater Lights for Liner Pools

2 years Parts WARRANTY CE

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^3
• Complete light with 300 W/12 V PAR56	**052111B**	1	2,450	0,016
• Complete light with 20 W-63 SMD LED	**052111BLS**	1	2,450	0,016
• 052111B, without cable	**052111BC**	1	2,300	0,016
• 052111BLS, without cable	**052111BLSC**	1	2,300	0,016
• 052111B, without niche and cable	**052111BNC**	1	2,100	0,016
• 052111BLS, without niche and cable	**052111BLSNC**	1	2,100	0,016
• Niche	**05211101BSP**	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^3
• Complete light, with 300W/12V PAR56	**052114B**	1	2,450	0,016
• Complete light, with 20W – 63 SMD LED	**052114BLS**	1	2,450	0,016
• 052114B, with locking mechanism	**052115B**	1	2,700	0,016
• 052114BLS, with locking mechanism	**052115BLS**	1	2,700	0,016
• 052114B, without cable	**052114BC**	1	2,300	0,016
• 052114BLS, without cable	**052114BLSC**	1	2,300	0,016
• 052114B, without niche and cable	**052114BNC**	1	2,100	0,016
• 052114BLS, without niche and cable	**052114BLSNC**	1	2,100	0,016
• Niche	**05211410BSP**	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^3
• Complete light, with 300W/12V PAR56	**052118B**	1	2,450	0,016
• Complete light, with 20W – 63 SMD LED	**052118BLS**	1	2,450	0,016
• 052118B, with locking mechanism	**052119B**	1	2,700	0,016
• 052118BLS, with locking mechanism	**052119BLS**	1	2,700	0,016
• 052118B, without cable	**052118BC**	1	2,300	0,016
• 052118BLS, without cable	**052118BLSC**	1	2,300	0,016
• 052118B, without niche and cable	**052118BNC**	1	2,100	0,016
• 052118BLS, without niche and cable	**052118BLSNC**	1	2,100	0,016
• Niche	**05211810BSP**	1		0,016

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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/ box	Weight Kg	Volume m^3
• Complete Light	**052112**	1	2,800	0,016
• Complete Light, with SMD LED	**052112LS**	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/ box	Weight Kg	Volume m^3
• 50 W / 12 V	**05212B**	1		
• 7 W / 12 V White SMD 36 LED	**05212BLS**	1		
• Niche	**0521212S**	1		

05212B

"Mini 2001" Underwater Light.
Heat resistant plastic body, bottom cable outlet, 2 m silicon cable. 50 W / 12 V.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Slip body, plastic frame	**05112S**	4	2,000	0,007
• Ditto, White SMD 36 LED	**05112SLS**	4		
• 2" threaded body, plastic frame	**05112T**	4	2,100	0,007
• Ditto, White SMD 36 LED	**05112TLS**	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/ box	Weight Kg	Volume m^3
• Housing	**04260A**	20	11,800	0,060
• Ditto, brass cavities	**04260AB**	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/ box	Weight Kg	Volume m^3
• Anthracite - RAL 7016	**051114011A**	1		
• Beige - RAL 1015	**051114011B**	1		
• Gray - RAL 7004	**051114011G**	1		

PS: Full colored products can be ordered by adding "A" for Anthracite, "B" for Beige, "G" for Grey.
Prices will be 30% more expensive. See RAL codes aside.

RAL 7016
RAL 1015
RAL 7004

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Technical Table For PAR56 LED Bulbs - Single Color

Code	Description	LED Type	# of LED	Voltage (V)	AC V Power (W)	Light Intensity (lux = lm/m²)	Light Angle	Case
0541101	**Slim 252 SMD LED - White**	**SMD**	**252**	**12**	**50**	**3536**	**120°**	**Policarbonate**
0541102	Slim 252 SMD LED - Daylight	SMD	252	12	50	3536	120°	Policarbonate
0541103	Slim 252 SMD LED - Turquoise	SMD	252	12	36	1011	120°	Policarbonate
0541104	Slim 252 SMD LED - Blue	SMD	252	12	36	1011	120°	Policarbonate
0541105	Slim 252 SMD LED - Red	SMD	252	12	36	1011	120°	Policarbonate
0541106	Slim 252 SMD LED - Green	SMD	252	12	36	1011	120°	Policarbonate
0541111	**Slim 81 SMD LED - White**	**SMD**	**81**	**12**	**35**	**2739**	**120°**	**Policarbonate**
0541112	Slim 81 SMD LED - Daylight	SMD	81	12	35	2739	120°	Policarbonate
0541113	Slim 81 SMD LED - Turquoise	SMD	81	12	30	1241	120°	Policarbonate
0541114	Slim 81 SMD LED - Blue	SMD	81	12	30	1241	120°	Policarbonate
0541115	Slim 81 SMD LED - Red	SMD	81	12	30	1241	120°	Policarbonate
0541116	Slim 81 SMD LED - Green	SMD	81	12	30	1241	120°	Policarbonate
051130ER	**ECOSlim 72 SMD LED - White**	**SMD**	**72**	**12**	**24**	**1614**	**120°**	**Policarbonate**
051131ER	ECOSlim 72 SMD LED - Daylight	SMD	72	12	24	1614	120°	Policarbonate
051132ER	ECOSlim 72 SMD LED - Turquoise	SMD	72	12	20	671	120°	Policarbonate
051133ER	ECOSlim 72 SMD LED - Blue	SMD	72	12	20	671	120°	Policarbonate
051134ER	ECOSlim 72 SMD LED - Red	SMD	72	12	20	671	120°	Policarbonate
051135ER	ECOSlim 72 SMD LED - Green	SMD	72	12	20	671	120°	Policarbonate
051160E	**MIDI-Clicker 72 SMD LED - White**	**SMD**	**72**	**12**	**10**	**562**	**120°**	**Policarbonate**
051161E	MIDI-Clicker 72 SMD LED - Daylight	SMD	72	12	10	562	120°	Policarbonate
051162E	MIDI-Clicker 72 SMD LED - Turquoise	SMD	72	12	9	181	120°	Policarbonate
051163E	MIDI-Clicker 72 SMD LED - Blue	SMD	72	12	9	181	120°	Policarbonate
051164E	MIDI-Clicker 72 SMD LED - Red	SMD	72	12	9	182	120°	Policarbonate
051165E	MIDI-Clicker 72 SMD LED - Green	SMD	72	12	9	183	120°	Policarbonate
051180	**MINI-Clicker 36 SMD LED - White**	**SMD**	**36**	**12**	**7**	**550**	**120°**	**Policarbonate**
051181	MINI-Clicker 36 SMD LED - Daylight	SMD	36	12	7	550	120°	Policarbonate
051182	MINI-Clicker 36 SMD LED - Turquoise	SMD	36	12	4	92	120°	Policarbonate
051183	MINI-Clicker 36 SMD LED - Blue	SMD	36	12	4	92	120°	Policarbonate
051184	MINI-Clicker 36 SMD LED - Red	SMD	36	12	4	92	120°	Policarbonate
051185	MINI-Clicker 36 SMD LED - Green	SMD	36	12	4	92	120°	Policarbonate
0531101	**Single color PAR56 SMD with 63 LED - White**	**SMD**	**63**	**12**	**20**	**1404**	**120°**	**Policarbonate**
0531102	Single color PAR56 SMD with 63 LED - Daylight	SMD	63	12	20	1404	120°	Policarbonate
0531103	Single color PAR56 SMD with 63 LED - Turquoise	SMD	63	12	16	550	120°	Policarbonate
0531104	Single color PAR56 SMD with 63 LED - Blue	SMD	63	12	16	550	120°	Policarbonate
0531105	Single color PAR56 SMD with 63 LED - Red	SMD	63	12	16	550	120°	Policarbonate
0531106	Single color PAR56 SMD with 63 LED - Green	SMD	63	12	16	550	120°	Policarbonate
0531111	**Single color PAR56 SMD with 252 LED - White**	**SMD 2835**	**252**	**12**	**40**	**3059**	**85°**	**Policarbonate**
0531112	Single color PAR56 SMD with 252 LED - Daylight	SMD 2835	252	12	40	3059	85°	Policarbonate
0531113	Single color PAR56 SMD with 252 LED - Turquoise	SMD 2835	252	12	31	900	80°	Policarbonate
0531114	Single color PAR56 SMD with 252 LED - Blue	SMD 2835	252	12	31	900	80°	Policarbonate
0531115	Single color PAR56 SMD with 252 LED - Red	SMD 2835	252	12	31	900	80°	Policarbonate
0531116	Single color PAR56 SMD with 252 LED - Green	SMD 2835	252	12	31	900	80°	Policarbonate
0532311	**Single color PAR56 with 9 OSRAM Power LED-White**	**OSRAM POWER**	**9**	**12**	**20**	**2409**	**80°**	**Policarbonate**
0532312	Single color PAR56 with 9 OSRAM Power LED-Daylight	OSRAM POWER	9	12	20	2409	80°	Policarbonate
0532313	Single color PAR56 with 9 OSRAM Power LED-Turquoise	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532314	Single color PAR56 with 9 OSRAM Power LED-Blue	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532315	Single color PAR56 with 9 OSRAM Power LED-Red	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532316	Single color PAR56 with 9 OSRAM Power LED-Green	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532111	**Single color PAR56 with 18 Power LED - White**	**POWER**	**18**	**12**	**24**	**1690**	**140°**	**Policarbonate**
0532112	Single color PAR56 with 18 Power LED - Daylight	POWER	18	12	24	**1690**	140°	Policarbonate
0532113	Single color PAR56 with 18 Power LED - Turquoise	POWER	18	12	24	848	140°	Policarbonate
0532114	Single color PAR56 with 18 Power LED - Blue	POWER	18	12	24	848	140°	Policarbonate
0532115	Single color PAR56 with 18 Power LED - Red	POWER	18	12	24	848	140°	Policarbonate
0532116	Single color PAR56 with 18 Power LED - Green	POWER	18	12	24	848	140°	Policarbonate
05321111	**Single color PAR56 with 27 Power LED - White**	**POWER**	**27**	**12**	**36**	**1038**	**140°**	**Policarbonate**
05321121	Single color PAR56 with 27 Power LED - Daylight	POWER	27	12	36	1038	140°	Policarbonate
05321131	Single color PAR56 with 27 Power LED - Turquoise	POWER	27	12	36	1038	140°	Policarbonate

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Technical Table For PAR56 LED Bulbs - Single Color

Code	Description	LED Type	# of LED	Voltage (V)	AC V Power (W)	Light Intensity (lux = lm/m²)	Light Angle	Case
05321141	Single color PAR56 with 27 Power LED - Blue	POWER	27	12	36	1038	140°	Policarbonate
05321151	Single color PAR56 with 27 Power LED - Red	POWER	27	12	36	1038	140°	Policarbonate
05321161	Single color PAR56 with 27 Power LED - Gren	POWER	27	12	36	1038	140°	Policarbonate
0532211	**Single color PAR56 with 18 Power LED - White**	**POWER**	**18**	**24**	**46**		**140°**	**Aluminium**
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
05322111	**Single color PAR56 with 27 Power LED - White**	**POWER**	**27**	**12**	**70**	**4225**	**140°**	**Aluminium**
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/m²)	Light Angle	Case
05115301	Slim 252 SMD LED Built-in Control	SMD	252	12	36	1011	120°	Policarbonate
05115501	Slim 252 SMD LED Centrally Control	SMD	252	12	36	1011	120°	Policarbonate
0541201	Slim 90 SMD LED Built-in Control	SMD	90	12	36	1081	120°	Policarbonate
0541202	Slim 90 SMD LED Centrally Control	SMD	90	12	36	1081	120°	Policarbonate
05115601	Slim 81 SMD LED Built-in Control	SMD	81	12	30	1241	120°	Policarbonate
05115701	Slim 81 SMD LED Centrally Control	SMD	81	12	30	1241	120°	Policarbonate
051150ER	ECOSlim 72 SMD LED Bulbs with Built-in Control	SMD	72	12	20	671	120°	Policarbonate
051151ER	ECOSlim 72 SMD LED Bulbs with Central Control	SMD	72	12	20	671	120°	Policarbonate
051236	MAXI-Clicker 72 SMD LED Bulbs with Built-in Control	SMD	72	12	30	774	120°	Policarbonate
051237	MAXI-Clicker 72 SMD LED Bulbs with Central Control	SMD	72	12	30	774	120°	Policarbonate
0512361	MAXI-Clicker 72 SMD LED Bulbs with Built-in Control	SMD	72	12	20	671	120°	Policarbonate
0512371	MAXI-Clicker 72 SMD LED Bulbs with Central Control	SMD	72	12	20	671	120°	Policarbonate
0532523	MIDI-Clicker 72 SMD LED Bulbs with Built-in Control	SMD	72	12	9	184	120°	Policarbonate
0532524	MIDI-Clicker 72 SMD LED Bulbs with Central Control	SMD	72	12	9	185	120°	Policarbonate
0532631	MINI-Clicker 36 SMD LED Bulbs with Built-in Control	SMD	36	12	4	92	120°	Policarbonate
0532622	MINI-Clicker 36 SMD LED Bulbs with Central Control	SMD	36	12	4	92	120°	Policarbonate
0531201	RGB PAR56 SMD with 54 LED - Built-in Control System	SMD	54	12	16	550	120°	Policarbonate
0531202	RGB PAR56 SMD with 54 LED - Central Control System	SMD	54	12	16	550	120°	Policarbonate
0531211	RGB PAR56 SMD with 252 LED - Built-in Control System	SMD	252	12	31	900	120°	Policarbonate
0531212	RGB PAR56 SMD with 252 LED - Central Control System	SMD	252	12	31	900	120°	Policarbonate
0532321	PAR56 9 OSRAM Power LED Centrally Control	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532322	PAR56 9 OSRAM Power LED Built-in Control	OSRAM POWER	9	12	23	893	80°	Policarbonate
0532121	PAR56 18 Power LED Bulbs with Built-in Control	POWER	18	12	24	848	140°	Policarbonate
0532721	PAR56 18 Power LED'li Bulbs with Central Control	POWER	18	12	24	848	140°	Policarbonate
0532221	**PAR56 with 18 Power LED - Built-in Control System with Alu. Body**	**POWER**	**18**	**12**	**46**	**2226**	**140°**	**Aluminium**
0532222	**PAR56 with 18 Power LED - Central Control System with Alu. Body**	**POWER**	**18**	**12**	**46**	**2226**	**140°**	**Aluminium**
0532122	PAR56 27 Power LED Bulbs with Built-in Control	POWER	27	12	36	1038	140°	Policarbonate
0532722	PAR56 27 Power LED Bulbs with Central Control	POWER	27	12	36	1038	140°	Policarbonate
0532123	RGBW PAR56 30 Power LED Built-in Control	POWER	30	12	31	1779	120°	Policarbonate
0532223	**RGB PAR56 with 27 Power LED - Built-in Control System with Alu. Body**	**POWER**	**27**	**12**	**70**	**4225**	**140°**	**Aluminium**
0532224	**RGB PAR56 with 27 Power LED - Central Control System with Alu. Body**	**POWER**	**27**	**12**	**70**	**4225**	**140°**	**Aluminium**
0532226	RGBW PAR56 with 50 Power LED - Built-in Control System	POWER	30	12	50	2525	120°	Policarbonate

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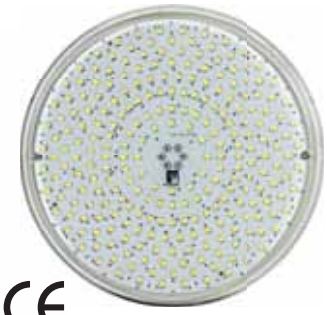
SlimLED Bulbs for PAR56 Replacement - Single Color

2 years Parts WARRANTY

"New Generation"

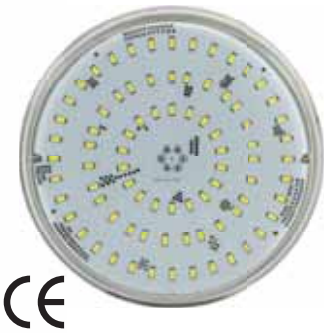
120˚ Light Spectrum



"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/m²)	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^3
• White	**0541101**	1		
• Daylight	**0541102**	1		
• Turquoise	**0541103**	1		
• Blue	**0541104**	1		
• Red	**0541105**	1		
• Green	**0541106**	1		



2 years Parts WARRANTY

"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/m²)	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^3
• White	**0541111**	1		
• Daylight	**0541112**	1		
• Turquoise	**0541113**	1		
• Blue	**0541114**	1		
• Red	**0541115**	1		
• Green	**0541116**	1		

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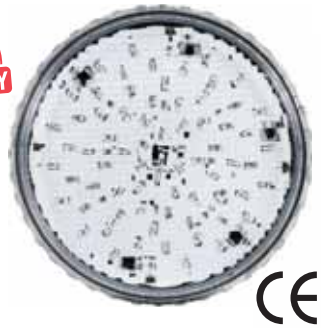
"New Generation"

120° Light Spectrum

ECOSlimLED Bulbs for PAR56 Replacement - Single Color

2 years Parts WARRANTY



"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 m^3
• White	**051130ER**	1		
• Daylight	**051131ER**	1		
• Turquoise	**051132ER**	1		
• Blue	**051133ER**	1		
• Red	**051134ER**	1		
• Green	**051135ER**	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

2 years Parts WARRANTY

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 m^3
• White	**0531101**	1		
• Daylight	**0531102**	1		
• Turquoise	**0531103**	1		
• Blue	**0531104**	1		
• Red	**0531105**	1		
• Green	**0531106**	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 m^3
• White	**0531111**	1		
• Daylight	**0531112**	1		
• Turquoise	**0531113**	1		
• Blue	**0531114**	1		
• Red	**0531115**	1		
• Green	**0531116**	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.

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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.**

2 years Parts WARRANTY

80˚ Light Spectrum

9 PAR56 "POWER" LED BULBS				
Color	# of LED	AC 12 V Power (W)	Light Intensity (lux = lm/m²)	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^3
• White	**0532311**	1		
• Daylight	**0532312**	1		
• Turquoise	**0532313**	1		
• Blue	**0532314**	1		
• Red	**0532315**	1		
• Green	**0532316**	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.**

2 years Parts WARRANTY

140˚ Light Spectrum

18 PAR56 "POWER" LED BULBS				
Color	# of LED	AC 12 V Power (W)	Light Intensity (lux = lm/m²)	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^3
• White	**0532111**	1		
• Daylight	**0532112**	1		
• Turquoise	**0532113**	1		
• Blue	**0532114**	1		
• Red	**0532115**	1		
• Green	**0532116**	1		

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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/ box	Weight Kg	Volume m^3
• White	**05321111**	1		
• Daylight	**05321121**	1		
• Turquoise	**05321131**	1		
• Blue	**05321141**	1		
• Red	**05321151**	1		
• Green	**05321161**	1		

27 PAR56 "POWER" LED BULBS				
Color	# of LED	AC 12 V Power (W)	Light Intensity (lux = lm/m²)	Light 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/ box	Weight Kg	Volume m^3
• White	**05322111**	1		
• Daylight	**05322121**	1		
• Turquoise	**05322131**	1		
• Blue	**05322141**	1		
• Red	**05322151**	1		
• Green	**05322161**	1		

27 PAR56 "POWER" LED BULBS				
Color	# of LED	AC 24 V Power (W)	Light Intensity (lux = lm/m²)	Light 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°

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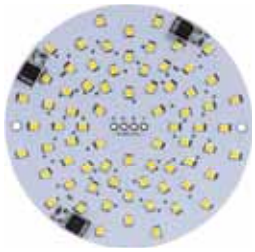
PAR38 LED Bulbs - Single Color - With SMD LED



Single Color 72 SMD LED bulb.
Polycarbonate body, AC-DC 11-14V. **2-year leakage warranty.**

2 years Parts WARRANTY

30˚ Light Spectrum
Automatic Current Control

63 "SMD" LED BULBS				
Color	# of LED	AC 12 V Power (W)	Light Intensity (lux = lm/m²)	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^3
• White	**0532711**	1		
• Daylight	**0532712**	1		
• Turquoise	**0532713**	1		
• Blue	**0532714**	1		
• Red	**0532715**	1		
• Green	**0532716**	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.**

2 years Parts WARRANTY

90˚ Light Spectrum

36 "SMD" LED BULBS				
Color	# of LED	AC 12 V Power (W)	Light Intensity (lux = lm/m²)	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^3
• White	**0532822**	1		
• Daylight	**0532821**	1		
• Turquoise	**0532824**	1		
• Blue	**0532823**	1		
• Red	**0532825**	1		
• Green	**0532826**	1		

Underwater STRIP LED Lights - IP68

2 years Parts WARRANTY

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^3
• White - price per meter	**0534111**			
• Daylight - price per meter	**0534112**			
• Blue - price per meter	**0534113**			
• RGB - price per meter	**0534121**			
• Aluminium Mounting Strip, w/opaque cover	**0534111C**			
• Aluminium Mounting Strip, cap	**0534111CC**			

Note: LED Strip Light can be pre-assembled into the overflow channel profile. Please ask for price.

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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^3
• 252 Built-in Control replacement kit	**05115301**	1		
• 252 Central Control replacement kit	**05115501**	1		
• 90 Built-in Control replacement kit	**0541201**	1		
• 90 Central Control replacement kit	**0541202**	1		
• 81 Built-in Control replacement kit	**05115601**	1		
• 81 Central Control replacement kit	**05115701**	1		

"SLIMLED" BULBS

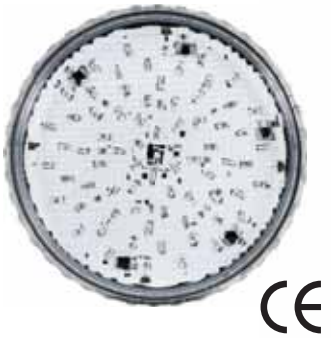
Color	# of LED	AC Power (W)	Light Intensity (lux = lm/m²)	Light Angle
RGB B.I.	252	36	1011	120°
RGB C.I.	252	36	1011	120°
RGB B.I.	90	36	1081	120°
RGB C.I.	90	36	1081	120°
RGB B.I.	81	30	1241	120°
RGB C.I.	81	30	1241	120°

"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^3
• 72 Built-in Control replacement kit	**051150ER**	1		
• 72 Central Control replacement kit	**051151ER**	1		
• 72 Self Control replacement kit	**051150ERSC**	1		

"ECOSLIMLED" BULBS

Color	# of LED	AC Power (W)	Light Intensity (lux = lm/m²)	Light Angle
RGB B.I.	72	20	671	120°
RGB C.I.	72	20	671	120°
RGB S.C.	72	20	671	120°

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PAR56 LED Bulbs - RGB - With SMD LED

2 years Parts WARRANTY

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 syncronization 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/m²)	Light Angle
RGB B.I.	54	16	550	120°
RGB C.I.	54	16	550	120°

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Rainbow 54 Built in Control	**0531201**	1		
• Rainbow 54 Central Control	**0531202**	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 syncronization 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/m²)	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^3
• Rainbow 252 Built in Control	**0531211**	1		
• Rainbow 252 Self RCU Controlled	**0531211SC**	1		
• Rainbow 252 Central Control	**0531212**	1		

Note: Bulbs with "Flat Transparent Glass" fronts are available, please add F to the end of the above product codes.

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PAR56 LED Bulbs - RGB - Power LED

2 years Parts WARRANTY

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 twocore cable infrastructure together with a central control pannel is required. It is recommended to use central control models to avoid syncronization 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^3
• Rainbow 9 Built-in Control	**0532322**	1		
• Rainbow 9 Central Control	**0532321**	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/m²)	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^3
• Rainbow 18 Built in Control	**0532121**	1		
• Rainbow 18 Central Control	**0532721**	1		

PAR56 "POWER" LED BULBS				
Color	# of LED	AC Power (W)	Light Intensity (lux = lm/m²)	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^3
• Rainbow 27 Built in Control	**0532122**	1		
• Rainbow 27 Central Control	**0532722**	1		
• Rainbow 27 Built in Control - Alu. Body	**0532223**	1		
• Rainbow 27 Central Control - Alu. Body	**0532224**	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/m²)	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°

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PAR 56 LED BULBS - RGB
Single and Multi Color with Power LED

Brand New Concept

140˚ Light Spectrum

White and RGB together

Rainbow 30 and Rainbow 50 PAR 56 LED Bulb - 140°.
Made of 18 RGB plus12 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 specificatioms 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/m²)	Light Angle
RGBW B.I.	30	31	1779	140°
RGBW B.I.	30	50	2525	140°

Built in Control System Led Bulbs

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Rainbow 30	**0532123**	1		
• Rainbow 50 - Aluminium Body	**0532226**	1		

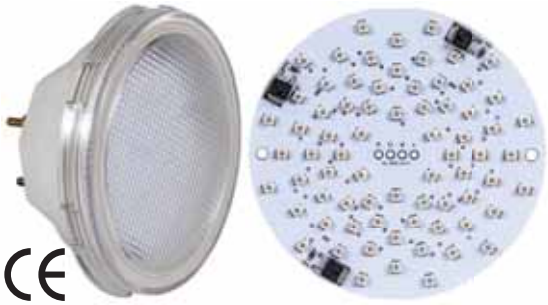
Power LED Bulb Lens

2 years Parts WARRANTY

Power LED Lenses.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 30º Lens	**0532001**	1		
• 45º Lens	**0532002**	1		
• 60º Lens	**0532003**	1		

PAR38 LED Bulbs - RGB - SMD LED



2 years Parts WARRANTY

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/m²)	Light Angle
RGB B.I.	72	8	316	120°
RGB C.I.	72	8	316	120°

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/m²)	Light Angle
RGB B.I.	36	6	75	120°
RGB C.I.	36	6	75	120°

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Built-in Control - 6 W	**0532631**	1		
• Central Control - 6 W	**0532622**	1		

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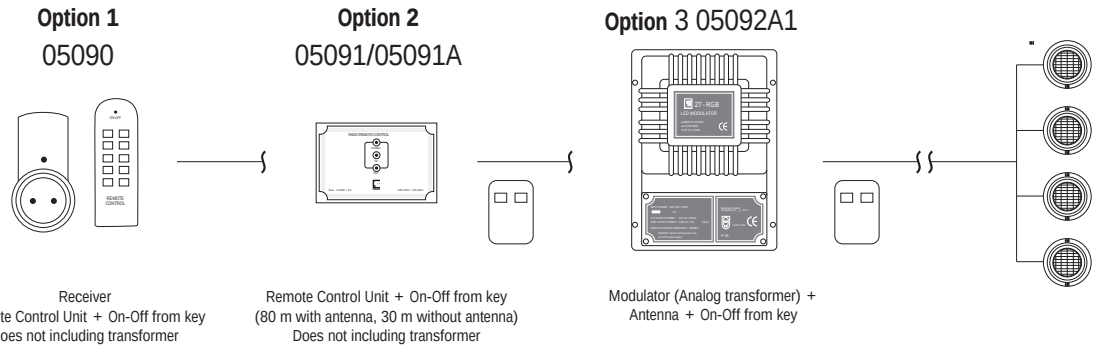
Single Color LED Bulbs - Control Systems

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^3
Modulator for Single Color LED Light	**05092A1**	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.

05090

05091A

05091AY01

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Receiver with the plug + remote control key	**05090**	1	0,200	
• In-line receiver + remote control key	**05091**	1		
• 05091, with antenna	**05091A**	1		
• Remote Control Unit	**05091AY01**	1		
• Two Terminal Panel 2 with 4 button Remote Control	**05092A3**	1		
• 05092A3's Panel Type	**05092A3P**	1		

05092A3

05092A3P

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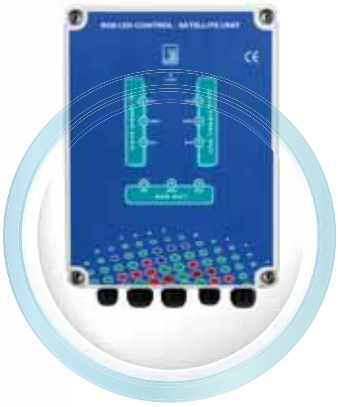
RGB LED Bulbs - Control Systems

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

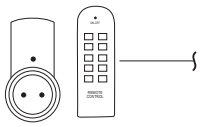
(2). These receivers make sure that the light program has changed for all the lights by switching them on and off with the command from the remote control. As the distances between the PCBs in the lights and the receiver are different, synchronization problem may occur in operations longer than 2 hours. 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.

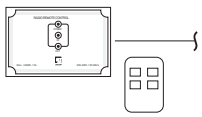
BUILT-IN PCB SYSTEM CONNECTION DIAGRAM

Option 1
05090



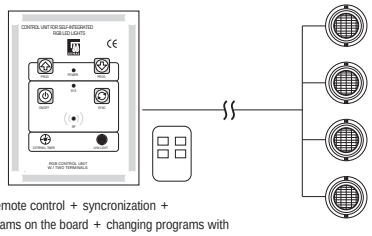
Receiver with plug and remote control + changing programs by switch ON-OFF on remote

Option 2
05091/05091A



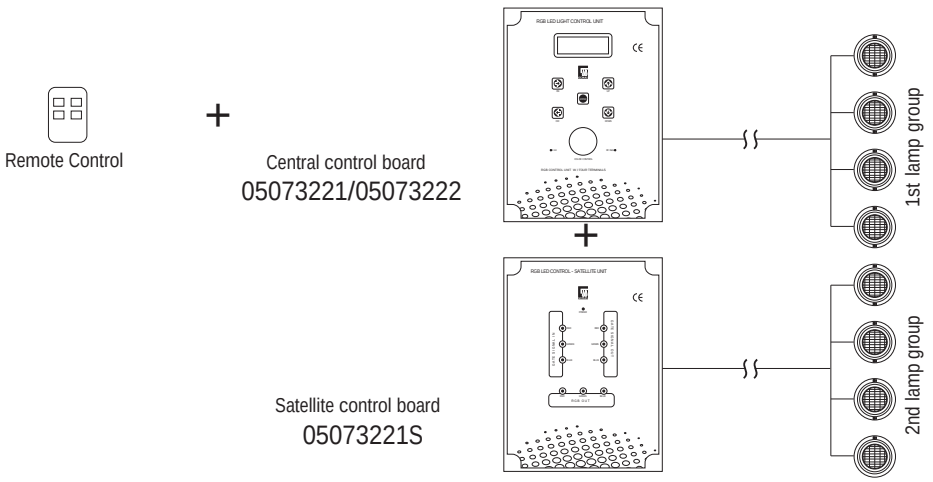
Remote Control + changing programs with the remote (with antenna 80 m - without antenna 30 m)

Option 3 05073231



Remote control + syncronization + changing programs on the board + changing programs with remote control + external timer connection + antenna

CENTRAL PCB SYSTEN CONNECTION DIAGRAM



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RGB LED Lights Control Panels and Remote Control Devices

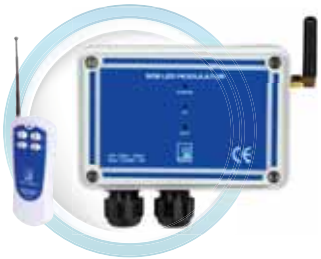
Light Modulator for RGB Color and Single Color Led Lights. Complete with 220 V input, 12 V output, radio remote control receiver, antenna and 4-key remote-control switch. Synchronization with one button, on-off button, reset button, program change buttons via control switch. **It is a 200 W Analog Transformer,** 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^3
• LED Modulator, for RGB LED	**05092A**	1		
• 4- Button Remote Control, for RGB LED	**05092A3Y01**	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).**

05073231

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Two Terminal Panel 1 with 4 button Remote Control	**05073231**	1		
• Two Terminal Panel 2 with 4 button Remote Control	**05092A3**	1		
• 05092A3's Panel Type	**05092A3P**	1		



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.**

05073221

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Board I with four terminals	**05073221**	1		
• Satellite board*, for four terminals	**05073221S**	1		

* Electronic transformer.

05073221S

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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^3
IP65 300 W / 230 - 12 V Outlet	**05073**	1	4,000	0,003

100 W / 230 - 12 V Outlet. Plastic housing, polyurethane isolation.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
IP65 100 W / 230 - 12 V Outlet	**05067**	1		0,007

50 W / 220 - 12 V Outlet.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
IP65 50 W / 220 - 12 V Outlet	**05069**			

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^3
• IP20 300 W / 230 - 12 V Outlet	**05074**	1	5,050	0,007
• Ditto, w/polyester isolation, IP65	**05074P**	1	6,250	0,007
• 400 W / 230 - 12 V Outlet	**05078P**	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^3
IP65, w/polyester isolation	**05063**	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^3
	05062	1	6,100	0,007
Fully insulated	**05062P**	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

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Transformers - 230/24V

230 V - 24 V Outlet Transformer. Plastic box, wall mounted.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 150 W - IP20	**05064**	1	4,600	0,007
• 300 W - IP20	**05065**	1	5,900	0,007

600 W / 230 - 24 V Outlet Transformer. Plastic box, wall mounted.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
IP20 600 W / 230 - 24 V Outlet	**05066**	1	7,400	0,008

Bulbs for Underwater Lights

PAR38 - 150 W/24 V Bulb.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
PAR38 - 150 W/24 V Bulb	**05021001**	12	4,916	0,003

05021001

100 W/12 V Halogen Bulb.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
100 W/12 V Halogen Bulb	**05113002**			

05113002

50 W/12 V Halogen Bulb.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
50 W/12 V Halogen Bulb	**0511207**	50	2,000	0,007

0511207

Sandwich Gasket for Underwater Lights

Sandwich gasket for underwater lights.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
For Standard 2002 Underwater light	**05211401S**	1	0,800	

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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^3
Junction Box	**05040**	8	2,610	0,016

05051

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3
• 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^3
• 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^3
For Ø1,2 - 3 mm cables, price per meter	**050831**	1		

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Electronic Switches

Flow Switch, 1,5 m cable.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Flow Switch 1 (Floater Type)	**05081**	1		
• Flow Switch 2 (Paddle Type)	**05083**	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/ box	Weight Kg	Volume m^3
Floater switch	**05082**	1		

Pneumatic Switch.
Up to 1 HP. Detects air flow or the absence of air flow through the button.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Pneumatic Switch	**156871**	1		

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/ box	Weight Kg	Volume m^3
Pneumatic switch board	**05080**	1	0,748	0,003

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/ box	Weight Kg	Volume m^3
Pneumatic Button For Underwater	**05080B**	1	0,650	0,004

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/ box	Weight Kg	Volume m^3
• Three Function Button + Driver	**15233**	1		
• Three Function Button	**15231**	1		
• Single Function Button + Driver	**15234**	1		
• Single Function Button	**15232**	1		
• Driver	**15230**	1		

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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^3
• In-Line Receiver and Remote Control	**05091A**	1		
• Remote Control Handset only (2 button)	**05091AY01**	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^3
RS485-Wi-Fi Modul	**050701**	1		

Electrical Control Boards

050712T

With contactor.

Electric control board; made of injection plastic, resistent 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^3
• 1 triphase pump + 1 group of lights	**050711**	1	3,300	0,017
• Ditto, w/timer	**050711T**	1	3,500	0,017
• Ditto, w/200 W Analog Transformer	**050711TT**	1		0,017
• 1 triphase pump + 2 groups of lights	**050712**	1	3,594	0,017
• Ditto, w/timer	**050712T**	1	3,725	0,017
• 2 triphase pumps + 2 groups of lights	**050713**	1	4,382	0,017
• Ditto, w/timer	**050713T**	1	4,580	0,017

Note: Please ask for the price for your special boards.

050722T

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 Monophase Pump+1 group of lights	**050721**	1	3,300	0,017
• Ditto, w/timer	**050721T**	1	3,500	0,017
• Ditto, w/200 W Analog Transformer	**050721TT**	1		0,017
• 1 Monophase Pump+2 group of lights	**050722**	1	3,594	0,017
• Ditto, w/timer	**050722T**	1	3,725	0,017
• 2 Monophase Pump+2 group of lights	**050723**	1	4,382	0,017
• Ditto, w/timer	**050723T**	1	4,580	0,017

Note: For special panels with phase protection and circuit breakers etc, please ask for price.

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Pool Control Mono/Tri - Electronic Control Boards

Product Video

"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.

2 years Parts WARRANTY

050731101

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.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Pool Control Mono; (Max. 100 W)	**0507311**	1		
• 1 Pump (+1 spare)+1 Gr. Light				
• 050731, (Max. 200 W)	**0507312**	1		
• Pool Control Tri; (Max. 100 W)	**0507311T**	1		
• 1 Pump (+1 spare)+1 Gr. Light				
• 0507311T, (Max. 200 W)	**0507312T**	1		
• Modul Control	**050731101**	1		
• Modul Control w/smartphone Wi-Fi app.	**050731101WF**			

"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."

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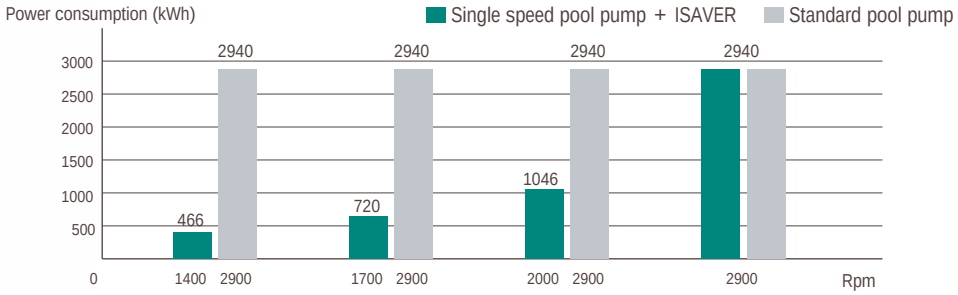
ISAVER - Pool Pump Frequency Inverter

"New Inverter Technology"

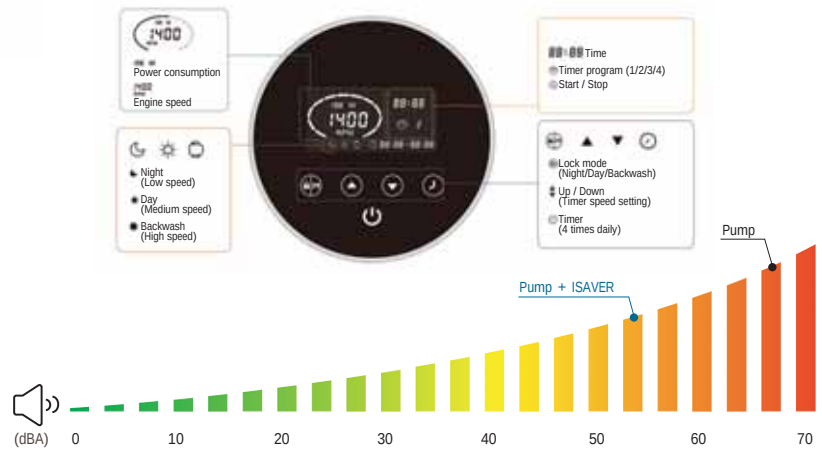
2 years Parts WARRANTY

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^3
• ISAVER 1100	**0111INV1100**	1		
• ISAVER 1100C	**0111INV1100C**	1		
• ISAVER 2200	**0111INV2200**	1		
• ISAVER 2200C	**0111INV2200C**	1		



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			

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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 selenoid 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" selenoid valve and 1 electronic floater.
Level Control II, Automatic water top up and overflow alarm.
Complete with 3/4" selenoid valve, 2 electronic floater and sound alarm.
Level Control III, water top up, lower level and overflow alarm.
3/4" selenoid 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^3
• Level Control I	**050741**	1	0,500	0,002
• Level Control II	**050742**	1		
• Level Control III	**050743**	1		
For Overflow Control;				
• Ø50 mm motorized ball valve	**131115M**	1		
• Ø63 mm motorized ball valve	**131116M**	1		

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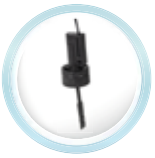
Automatic pH - Redox Controller

06311N

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

05082



05083

06312N

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Pool Director - with board	**06311N**	1		
• Pool Director - w/out board	**06312N**	1		
• Additional heat sensor	**063212N**	1		
• Additional dosing pump level control	**05082**	1		
• Additional flow switch	**05083**	1		

06311E

Sensor holder

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^3
• Pool Director Eco, 1,5 lt/h	**06310E**	1		
• Pool Director Eco, 3,0 lt/h	**06311E**	1		
• Additional heat sensor	**063212N**	1		
• Additional dosing pump level control	**05082**	1		
• Additional flow switch	**05083**	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	Wolume m^3
	06420	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.**

	Code	Pieces/ box	Weight Kg	Wolume m³
Description	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	Wolume m³
	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, seramic valve.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• pH	065MD01	1	3,164	0,009
• ORP	065MD02	1	3,156	0,009

GEMAS Selenoid 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.

NEW !

06GM1005 065GM01 065GM02

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Analog Selenoid Dosing Pump	06GM1005	1		
• pH Selenoid Dosing Pump	065GM01	1		
• ORP Selenoid Dosing Pump	065GM02	1		

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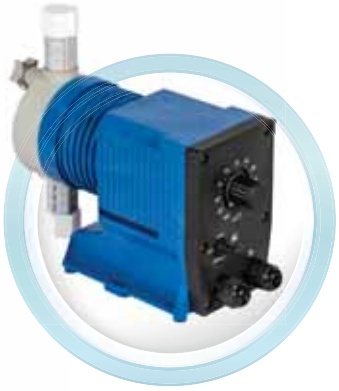
Dosing Pumps

GEMAS Dosing Pump. Membrane type. Analogue. Manually adjustable from 10% to 100%.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 2 lt / h - 12 Bar	**06MD0212**	1	3,092	0,009
• 3 lt / h - 11 Bar	**06MD0311**	1	3,092	0,009
• 5 lt / h - 9 Bar	**06MD0509**	1	3,092	0,009
• 8 lt / h - 5 Bar	**06MD0805**	1	3,092	0,009
• 10 lt / h - 4 Bar	**06MD1004**	1	3,092	0,009
• 15 lt / h - 2 Bar	**06MD1502**	1	3,092	0,009



GEMAS Vertical Dosing Pumps. Membrane type. Analoque. Manually adjustable from 10% to 100%. Easily mounted on the chemical container.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 2 lt / h - 12 Bar	**06T1202AB11**	1	3,092	0,009
• 6 lt / h - 8 Bar	**06T0806AB11**	1	3,092	0,009
• 11 lt / h - 3 Bar	**06T0311AB11**	1	3,092	0,009
• 22 lt / h - 2 Bar	**06T0222AB11**	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^3
• 1,5 lt / h - 1 Bar	**06PD0302**	1		
• 3 lt / h - 1 Bar	**06PD0301**	1		

Dosing Pumps Capacity Calculation

Chosing 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 meditarranean 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^3 in meditarranean belt.

Daily Chlorine Requirement (gr) = The Number of Swimmers x 10 gr + Pool Volume (m^3) x 2,5 gr For example: The Pool that 250 swimmer's daily use and 1000 m^3 pool volume. Daily Chlorine Requirement = 250 x 10 gr + 1000 m^3 x 2,5 gr/m^3 = 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 lt depends on the fact that the determined capacity equals to the daily need of chlorine with %12 sodium hypoclorid get dosed 12 hours period. If dosing period is wanted to be shortened, the capacity should be increased with same level of shortining. 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^3/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^3 flow, flocculant dosing pump capacity (l/h) = 100 m^3/h x 0,002 = 0,2 l/h. In this case the dosing pump which has 2 l/h capacity should work with 10%.

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Chemical Drums

Polythene Chemical Drums.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 100 l	**06811**	1	5,086	0,145
• 200 l	**06812**	1	8,110	0,285

06811 06812

Chemical Drum Mixers

Manual Mixer. Made of PVC Plastic.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	06831	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/ box	Weight Kg	Volume m^3
Fast Mixer	**06832**	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/ box	Weight Kg	Volume m^3
Slow Mixer	**06833**	1		

06832 06833

Spare Parts for Control Systems - Sensors

pH ELECTRODE : Complete with cable and, BNC socket.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	06611	1	0,124	0,0006

REDOX ELECTRODE : Complete with cable and, BNC socket.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	06612	1	0,920	0,0006

Free Chlorine Electrode, ion selective. 0 - 5 ppm measuring range.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• F.C. Electrode Amperometric (Open cell)	**0642004**	1		

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Spare Parts for Control Systems - Others

Heat sensor with 1,5 m cable

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	063212N	1		

PVC FLOW CELL : Ø20 mm, single.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	06631	1	0,048	

06633

Electrode Cell, Double.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3
• 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^3
Sensor Holder for pH and ORP sensors	**0642017**	1		

06511

06512

Redox Buffer Solution

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3
• 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^3
	05082	1		

05081

05083

102008

Flow switch, 1,5 m cable

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Flow Switch 1 (Floater type)	**05081**	1		
• Flow Switch 2 (Paddle type)	**05083**	1		
• Magnetic Flow Switch 3	**102008**	1		

PS. 05081 Can be used as floater swicth. 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/ box	Weight Kg	Volume m^3
• Chlorine Dispenser Model 1-7 Tablet	**0619027**	1	0,290	0,004
• Chlorine Dispenser Model 2-6 Tablet	**0611504**	1	0,358	0,008
• Chlorine Dispenser Model 3-6 Tablet	**06190701**	1		
• Chlorine Dispenser Model 4-6 Tablet	**06190701T**	1		
• With thermometer.				

619027

0611504

06190701

06190701T

GEMAS CLT-167 CHLORINATOR. ABS body, 2 kg tablet capacity. Dosage adjustment on the device. Used for pools of maximum 95 m^3 capacity. Off-line model can be installed in the pool circulation line with an easy by-pass.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Off - Line	**069CLT167A**	1	1,130	0,012
• On - Line	**069CLT167B**	1	0,962	0,012
• Chlorinator Base, Inox for wall mounting	**069CLT01**	1		

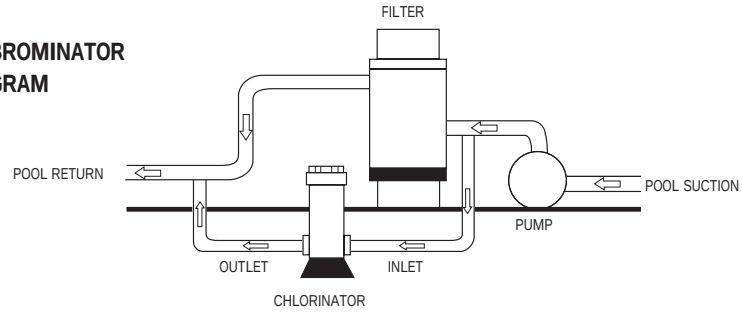
069CLT167A

069CLT167B

GEMAS CLT-168 CHLORINATOR. ABS body, 4 kg tablet capacity. Dosage adjustment on the device. Used for pools of maximum 150 m^3 capacity. Off-line model can be installed in the pool circulation line with an easy by-pass.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Off - Line	**069CLT168A**	1	1,748	0,017
• On - Line	**069CLT168B**	1	1,626	0,017

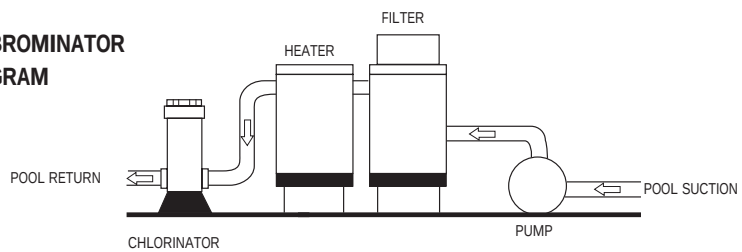
OFFLINE CHLORINATOR/BROMINATOR ASSEMBLY DIAGRAM



069CLT168A

069CLT168B

ONLINE CHLORINATOR/BROMINATOR ASSEMBLY DIAGRAM



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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 ampers. 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 8.000 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/m³). The approximate salinity in sea water is 35.000 ppm.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Puritron GSCN-10, 10 g/h	**064253**	1		
• Puritron GSCN-15, 15 g/h	**064243**	1		
• Puritron GSCN-20, 20 g/h	**064263**	1		
• Puritron GSCN-30, 30 g/h	**064273**	1		
• Puritron GSCN-50, 50 g/h	**064293**	1		

Model	Pool Volume (m³)	Cl Prod. (g/h)	Salt (kg/m³)	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 Chlarinator 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 tempeture measurement options. Please ask price for larger capacity dosing pumps. (0642932 model is produced with 3lt/h - 1bar pump)

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Puritron GSCN-101, pH Control	**0642532**	1		
• Puritron GSCN-151, pH Control	**0642432**	1		
• Puritron GSCN-201, pH Control	**0642632**	1		
• Puritron GSCN-301, pH Control	**0642732**	1		
• Puritron GSCN-501, pH Control	**0642932**	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	**064153**	1
• Puritron GSCN-151, pH Control Panel	**064143**	1
• Puritron GSCN-201, pH Control Panel	**064163**	1
• Puritron GSCN-301, pH Control Panel	**064173**	1
• Puritron GSCN-501, pH Control Panel	**064193**	1

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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 m^3
• Puritron GSCN-102, pH & Redox Control	**064254**	1		
• Puritron GSCN-152, pH & Redox Control	**064244**	1		
• Puritron GSCN-202, pH & Redox Control	**064264**	1		
• Puritron GSCN-302, pH & Redox Control	**064274**	1		
• Puritron GSCN-502, pH & Redox Control	**064294**	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	**064154**	1
• Puritron GSCN-152, pH & Redox Control Panel	**064144**	1
• Puritron GSCN-202, pH & Redox Control Panel	**064164**	1
• Puritron GSCN-302, pH & Redox Control Panel	**064174**	1
• Puritron GSCN-502, pH & Redox Control Panel	**064194**	1

For electrode 50g/h models

For electrode 10-15-20-30 gr/h models

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Puritron On-Line Salt-Water Chlorinators

Product Video

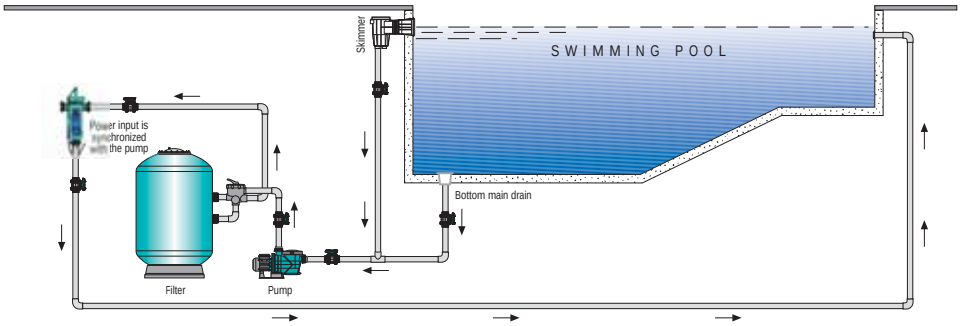
"On-Line" devices with a monobloc body that produce chlorine from salt using electrolysis, providing salt concentration in the pool water at the same rate as tear salinity. The device has self-clean feature in order to clean electrode against calcification at periodic intervals. Digital screen; temperature 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 8,000 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/m³). The salinity rate in sea waters is 35.000 ppm on average.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Puritron GSCOL-10	**064250OL**	1	5,650	0,035
• Puritron GSCOL-15	**064255OL**	1	5,650	0,035
• Puritron GSCOL-20	**064260OL**	1	5,650	0,035
• Puritron GSCOL-30	**064270OL**	1	5,650	0,035

Model	Pool Volume (m^3)	Cl Prod. (g/h)	Salt (kg/m^3)	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 m³
• Granule Salt, 25 kg	**02317**	1		
• Tablet Salt, 25 kg	**02318**	1		

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Puritron Salt-Water Chlorinators

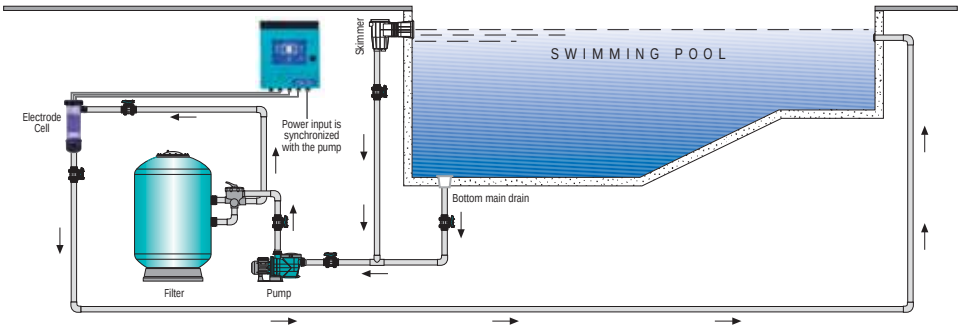
Designed for midsize hotel and apartment complex pools. The device produces chlorine by electrolysis of pool water with salinity of teardrop. It has a standart cleaning cycle process against calcification. **Electrodes are made of titanium and have a 8.000 hours long life.** Corrosion resist stainless steel body. Electrods 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^3
• Puritron GSC - 75	**06435**	1	15,000	
• Puritron GSC - 100	**06436**	1	20,000	
• Puritron GSC - 150	**06437**	1	25,000	

Model	Pool Volume (m^3)	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 meditarranean 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^3 in meditarranean belt.

Daily Chlorine Requirement (gr) = The Number of Swimmers x 10 gr + Pool Volume (m^3) x 2,5 gr
For example: The Pool that 250 swimmer's daily use and 1000 m^3 pool volume.
Daily Chlorine Requirement = 250 x 10 gr + 1000 m^3 x 2,5 gr/m^3 = 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

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Puritron-GSC
Salt - Water Chlorinators

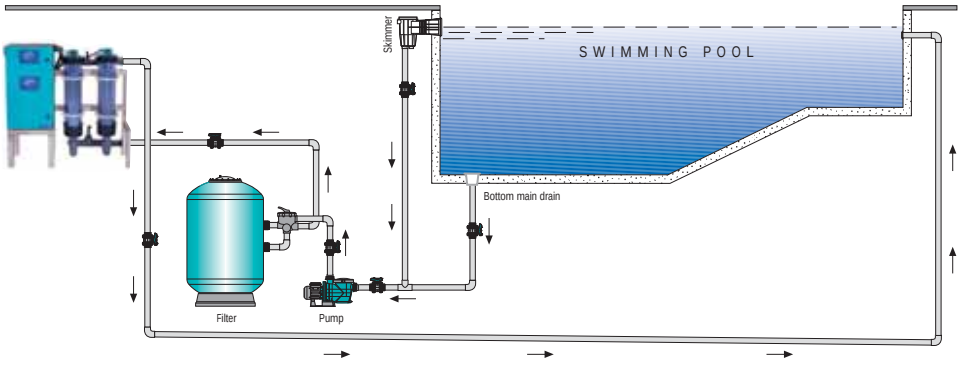
Designed for large public and competition pools. The device produces chlorine by electrolysis of pool water with salinity of teardrop. It has a standart cleaning cycle process against calcification. **Electrods are made of titanium and have 8.000 hours long life.** Corrosion resistant stainless steel 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^3
• Puritron GSC - 250	**06438**	1	40,000	
• Puritron GSC - 500	**06439**	1	60,000	
• Puritron GSC - 750	**06440**	1	80,000	
• Puritron GSC - 1000	**06446**	1	100,000	

Model	Chlorine Production (g/h) (5kg/m^3 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

Electrode cells made of transparent PVC tube

INSTALLATION DIAGRAM:



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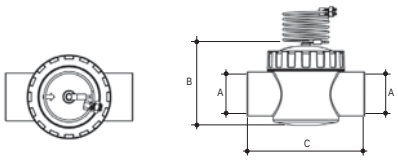
Salt-Water Chlorinators - Anodic Protection

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.

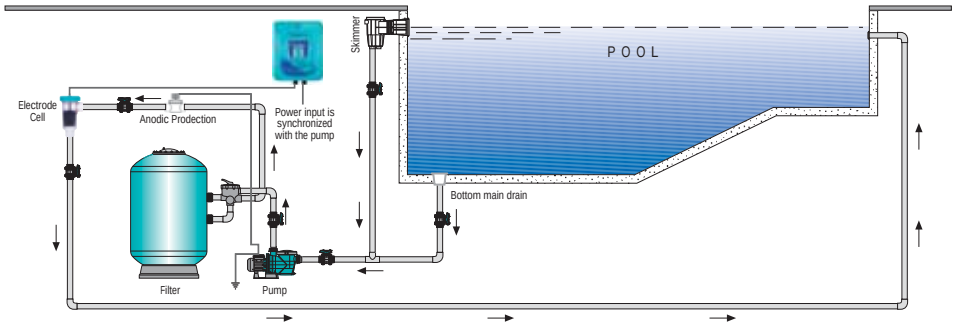
- Easy to install.
- Provides "Electric Shock" protection in fiberglass pools.
- Maximum 4 bars - 63 body
- Transparent cover for anode control
- Pure zinc, its average life is 3 years

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Ø 63 Anodic Protection	**06423**	1		



TYPE	DIMENSIONS			
	CONECTION	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 m³ 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^3
• 5 l	**075327**	1	5,000	0,001
• 10 l	**075328**	1	10,000	0,007
• 20 l	**075329**	1	20,000	0,028

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Salt-Water Chlorinators - Spare Parts

Description	Code	Pieces/ box
GSC10 Bipolar Electrode **(Old)**	**06430YE01**	**1**
GSC15 Electrode Cell-Yellow Solid Electrode Connection **(Old)**	**06428YE01**	**1**
GSC20 Bipolar Electrode **(Old)**	**06425YE01**	**1**
GSC30 Bipolar Electrode **(Old)**	**06426YE01**	**1**
GSC Electrode Housing Nut **(Old)**	**0643103**	**1**
GSC Electrode Oring **(Old)**	**0643105**	**1**
GSC Electrode Connection Cable **(Old)**	**0643113**	**1**
GSC10 Bipolar Electrode (with Pin) **(New)**	**06430YE**	**1**
GSC15 Electrode Cell-Yellow (with Pin) Electrode Connection **(New)**	**06428YE**	**1**
GSC20 Bipolar Electrode (with Pin) **(New)**	**06425YE**	**1**
GSC30 Bipolar Electrode (with Pin) **(New)**	**06426YE**	**1**
GSC Electrode Housing Nut **(New)**	**0643117**	**1**
GSC Electrode Oring **(New)**	**860488**	**1**
GSC Electrode Connection Cable **(New)**	**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

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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 m³	**06NTUV40T**	1
• Pool UV-C 75 Device, with Timer up to 75 m³	**06NTUV75T**	1
• Pool UV-C 130 Device, with Timer, Flow Switch up to 150 m³	**06NTUV130TF**	1

Technic Specifications	NT-UV40-T	NT-UV75-T	NT-UV130-TF
Pool Volume (m^3)	40	75	150
Max. Flow Rate (m^3/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

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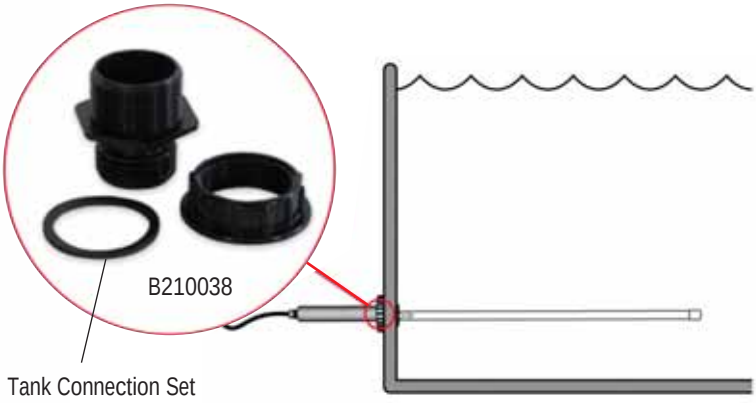
Ultraviolet UV-C Disinfection Systems

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^3
• UV-C Device, for Water Tanks	**06C100120**	1		
• UV-C Device Montage Kit	**06C100121**	1		



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
$\mu W/cm^2$ 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

06451 - 06452

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^3
• HOZ CD-05, 5 gr/h	**06421**	1		
• HOZ CD-15, 15 gr/h*	**06424**	1		
• HOZ CD-08, 8 gr/h	**06451**	1		
• HOZ CD-25, 25 gr/h*	**06452**	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, deozonization 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^3
HOZ CD-05, 5gr/h Compact Unit	**06421C**	1		

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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 deozonization 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/ box	Weight Kg	Volume m^3
• HOZ CDP-15, 15 gr/h-2" connection	**06424P**	1		
• HOZ CDP-20, 20 gr/h-2" connection	**06425P**	1		
• HOZ CDP-50, 50 gr/h-3" connection	**06427P**	1		

Oxygen Concentrator

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 l/h (for 5 - 20 gr/h devices)	**064201**	1		
• 10 l/h (for 50 gr/h devices)	**064203**	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/ box	Weight Kg	Volume m^3
• Ø900 mm Oxygen Cone Max Op. Pressure 2 bar	**064400**	1		
• Ø1000 mm Oxygen Cone Max Op. Pressure 2 bar	**064401**	1		
• Ø1200 mm Oxygen Cone Max Op. Pressure 2 bar	**064402**	1		
• Ø1400 mm Oxygen Cone Max Op. Pressure 2 bar	**064403**	1		
• Ø1600 mm Oxygen Cone Max Op. Pressure 2 bar	**064404**	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/ box	Weight Kg	Volume m^3
• Venture-3/4"-1/4", center 1-3 m^3/h	**06441**	1		
• Venture-1"-1/2", center 3-10 m^3/h	**06442**	1		
• Venture-1 1/4"-1/2", center 10-25 m^3/h	**06443**	1		
• Venture-2"-1/4", center 30-50 m^3/h	**06444**	1		

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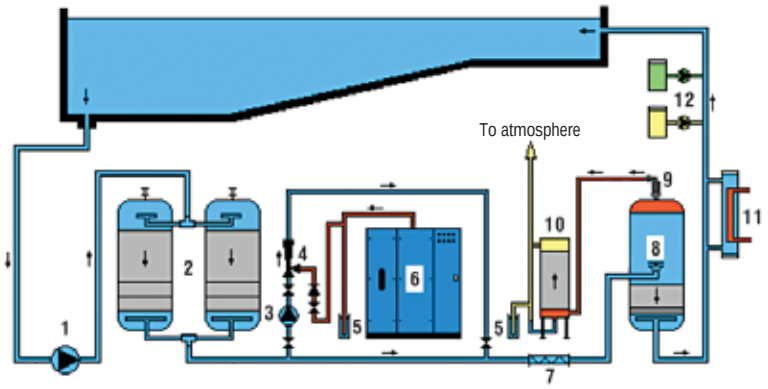
Ozone Generators - CORONA DISCHARGE

Ozone Capacity (g/h)	Pool Flow Rate (m³/h)		Recommended Pool Volume (m³)		Contact + Deozonization 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 deozonization tank



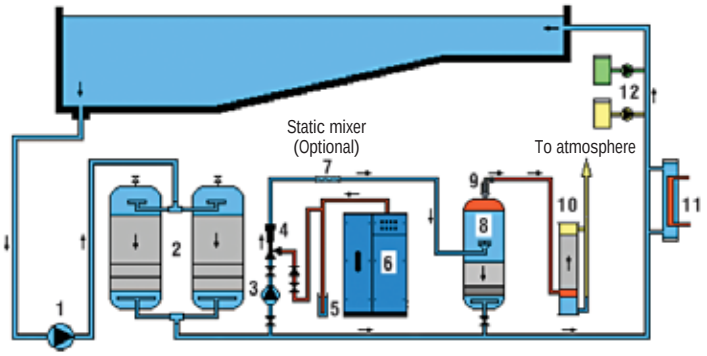
1- Pool Circulation Pump
2- Sand Filters
3- Jet Pump
4- Ozone Injector
5- Water Trap
6- Ozone Generator
7- Static Mixer
8- Contact + Active Carbon Tank
9- Automatic Discharge Pump
10- Discharge Ozone Filter
11- Pool Heater
12- Pool Disinfection System

WATER TRAP
(Pls. see 186)

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

Partial flow ozone system: with contact and deozonization tank

Partial Flowrate:	20% of Total Flowrate



STATIC MIXER
(Pls. see 186)

1- Pool Circulation Pump
2- Sand Filters
3- Jet Pump
4- Ozone Injector
5- Water Trap
6- Ozone Generator
7- Static Mixer
8- Contact + Active Carbon Tank
9- Automatic Discharge Pump
10- Discharge Ozone Filter
11- Pool Heater
12- Pool Disinfection System

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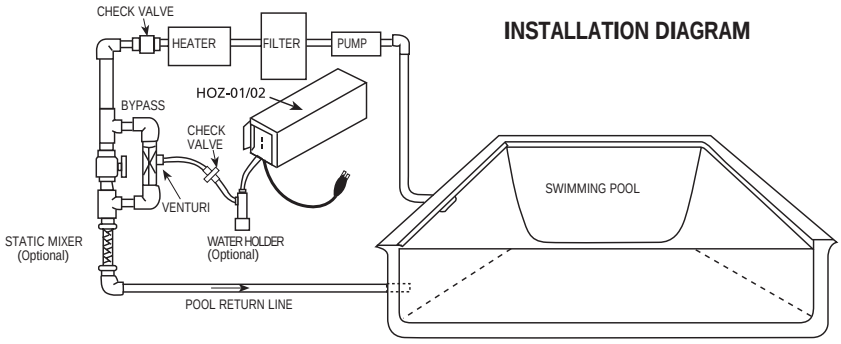
Ozone Generators with UV Method

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^3
• HOZ-01, up to 90 m^3 - 0,248 g/h	**06411**	1	13,000	0,051
• HOZ-02, up to 150 m^3 - 0,437 g/h	**06412**	1	14,000	0,051

INSTALLATION DIAGRAM



UV-Ozone Spare Bulb For GEMAS HYDROZONE Ozone Generator.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	064101	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^3
	064102	1		
	064103	1		

064102

064103

Static Mixer. Provides evenly diffusion of ozone in water flow.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1,5"	**0641031**	1		
• 2"	**0641032**	1		
• 2,5"	**0641033**	1		
• 3"	**0641034**	1		

0641031

GEMAS CORONA Ozone Discharge Valve. Ozone resistant.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
0,5, 316 Inox Floater	**0641041**	1	0,616	0,003

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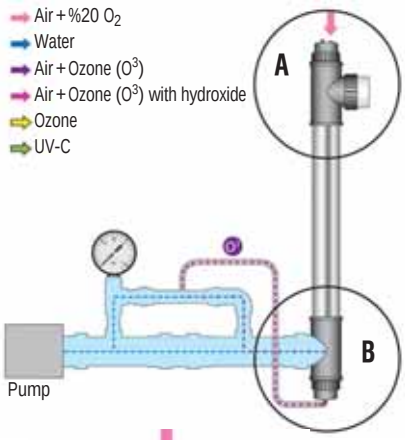
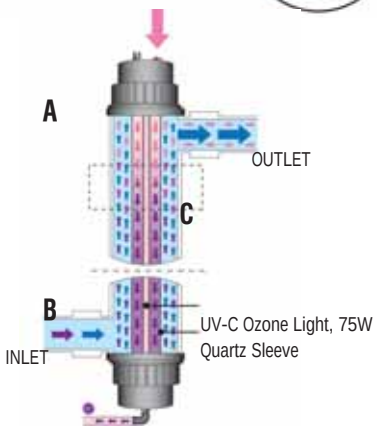
Ozone + Ultraviolet Combined Disinfection Systems

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 quarts housing. Devices 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 m³. 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^3
Ozon + UV-C Device (Gemas OEM)	**06NTUV87TO**	1	7,700	





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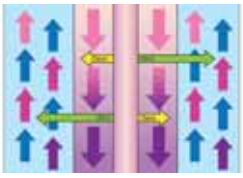

Technic Specifications	NT-UV87-TO
Pool Volume (m^3)	90
Max. Flow Rate (m^3/h)	25
Max. Working Pressure (bar)	3
Diameter (mm)	72
Length (cm)	100
Outlet Diameter (mm)	63
Stainless Steel	316L
Electronic Ballast	120-240V AC 50/60Hz
Max. Current (Amp)	0,60
Bulb Power (W)	87
Wave Length (nm)	253,7
Bulb Voltage (V)	97
Bulb Current (Amp)	0,90
UV-C 100 h outlet (W)	25
$\mu W/cm^2$ 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

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Floating - Solar Copper Ionization System

Solar Clear, Copper + Zinc Alloyed Ionization System.
Works with solar battery. Max pool volume120 m³. Decreases the chlorine or equivalents oxidation disinfection requirement aproximately 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 algecide, because Copper having positive effect on algea 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 m³ 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 aproximately 12 to 24 months.

Description	Code	Pieces/ box	Weight Kg	Volume m³
Solar Clear	**0601**	1		

Solar Copper Ionization System Spares

0601Y01

0601Y02

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 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 m³
• 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

DECHLORAMIN	Non-chlorine Shock Treatment Agent	For Clarifying Pool Water	100 gr/week to 10 m³ pool water (Residential pool) 150 gr/week to 10 m³ pool water (Public pool)

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07	Pool Chemicals	192
08	Test Kits	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^3
• 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^3
• 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^3
• 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. Algecide and flocculant.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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

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Water Disinfection and Chlorine Stabilizer

"CALCIUM HYPOCHLORITE" 70%

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 40 kg Granular	**071125**	1	40,000	0,044
• 40 kg Tablet	**071226**	1	40,000	0,044

"FASTCHLOR L".

Sodium hypochlorite with 12% active chlorine content.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 10 l / 12 kg	**071311**	1	10,000	0,012
• 20 l / 25 kg	**071313**	1	20,000	0,028
• 25 l / 30 kg	**071315**	1	25,000	0,044
• 30 l / 36 kg	**071312**	1	30,000	0,044

CHLORSTAB isocyanuric acid - chlorine stabilizer.

It can be used with FASTCHLOR L, Calcium Hypochloride and Salt-Water Chlorinators. Reduces chlorine consumption by 10%.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 kg	**075391**	1	5,000	0,008
• 10 kg	**075392**	1	10,000	0,017
• 20 kg	**075393**	1	20,000	0,023
• 50 kg	**075395**	1	50,000	0,057

CHLORSTAB	Isocyanuric acid	Chlorine Stabilizer	5 kg first dose for 100 m^3 pool water Following doses according to test results max. 100 ppm

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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/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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^3 pool water by 1 ppm, dissolve 300 gr of Chlorine-Out in water and add to the pool water.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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

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pH Regulators

“pH (-) DOWN HCl” Liquid pH reducer and limescale remover. (30% Hydrochloric acid)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 10 l	**072126**	1	10,000	0,014
• 25 l	**072125**	1	25,000	0,028
• 30 l	**072129**	1	30,000	0,044
• 35 l	**072128**	1	35,000	0,044

“pH (+) UP”.
Alkaline in powder form to increase and stabilize pH level.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 4 kg	**072211**	1	4,000	0,006
• 10 kg	**072212**	1	10,000	0,012
• 25 kg	**072218**	1	25,000	0,022

Algicides

“ALGEX”.
Liquid Algicide and bactericide for destruction of algae.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 l	**073111**	1	5,000	0,007
• 10 l	**073112**	1	10,000	0,014
• 20 l	**073114**	1	20,000	0,028
• 30 l	**073113**	1	30,000	0,044

“ALGEX PROTECTOR”.
Liquid Algicide and bactericide against algae growth.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 l	**073311**	1	5,000	0,007
• 10 l	**073312**	1	10,000	0,014
• 20 l	**073314**	1	20,000	0,028
• 30 l	**073313**	1	30,000	0,044

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Algicides

A BRAND NEW KIND OF ALGICIDE

“STARVEX” Anti Phosphate.
Starvex is an ECO-firendly chemical which destroys algea 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^3
• 5 l	**075381**	1	5,000	0,007
• 10 l	**075382**	1	10,000	0,014
• 20 l	**075383**	1	20,000	0,028
• 30 l	**075384**	1	30,000	0,044

For Phosphate Test Kit, Please see Test Kits Section.

STARVEX	Liquid	Algicide	1 l dose for 50 m^3 pool water. 0,5 l dose in following weeks.

Flocculant

“PUREFLOCK L”. Highly Effective Liquid Flocculant.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 l	**07411**	1	5,000	0,007
• 10 l	**07422**	1	10,000	0,014
• 20 l	**07424**	1	20,000	0,028
• 30 l	**07423**	1	30,000	0,044

“PUREFLOCK C”.
Cartridges Flocculant for continuous clarifying treatment.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Box containes 8 cartridges	**07421**	1	1,280	0,003

“MULTIFLOCK C”.
Cartridges Flocculant and algicide for continuous clarifying treatment.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Box containes 8 cartridges	**07430**	1	1,280	0,003

07425 07427

“CLEARFLOCK GEL” Gel Flocculant.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Box containes 4 gel cartridges	**07425**	1	0,30	
• Box containes 1 gel cartridges	**07427**	1	0,65	

•

“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^3
• 5 l	**074241**	1	5,000	0,007
• 10 l	**074242**	1	10,000	0,014
• 20 l	**074243**	1	20,000	0,028
• 30 l	**074244**	1	30,000	0,044

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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/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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	

07522

075320

Prevention of Lime Sedimentation in Hard Pool Waters

"CALSTAB".
Stabilizes hardness prevents scaling on pool surfaces.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3 pool water. This figure should be doubled in pools using hard water. Consecutive use dose: 2.5 l/6 months.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 10 l	**07541**	1	10,000	0,014
• 30 l	**07542**	1	30,000	0,044

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Pool Surface Cleaning

"SCALEX POOL" Limescale Removal - effective when the pool is "FULL"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 kg	**075323**	1	5,000	0,001
• 10 kg	**075324**	1	10,000	0,007
• 20 kg	**075325**	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^3
• 1 l	**075311**	1	1,000	0,001
• 5 l	**075312**	1	5,000	0,007
• 10 l	**075313**	1	10,000	0,012
• 20 l	**075315**	1	20,000	0,028
• 30 l	**075314**	1	30,000	0,044

"SOOT-OFF".
Cleaner for removing grease and dirts at the water rim.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 l	**075321**	1	1,000	0,001
• 5 l	**075322**	1	5,000	0,007
• 10 l	**075333**	1	10,000	0,014
• 20 l	**075334**	1	20,000	0,028

"CLEAN GROUTING" Grouting cleaner.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 l	**075341**	1	1,000	0,001
• 5 l	**075342**	1	5,000	0,007

"MORTAR-OFF" Mortar cleaner.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 l	**075351**	1	1,000	0,001
• 5 l	**075352**	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^3
• 5 l	**07511**	1	5,000	0,007
• 10 l	**07512**	1	10,000	0,014
• 20 l	**07514**	1	20,000	0,028
• 30 l	**07513**	1	30,000	0,044

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GEMAS POOL CHEMICALS DOSING INSTRUCTIONS

PRODUCT	DESCRIPTION	FUNCTION	DOSAGE
FASTCHLOR	Stabilized Granular Dichlorine	Disinfection	0,5 kg/day for 100 m³ pool water (Public pools) 0,5 kg/week for 100 m³ pool water (Residential pools)
		Shocking	0,6-1 kg/15day for 100 m³ pool water (Public pools) 0,6-1 kg/month for 100 m³ pool water (Residential pools)
FASTCHLOR 100	Stabilized Granular Trichlorine	Disinfection	0,35 kg/day for 100 m³ pool water (Public pools) 0,35 kg/week for 100 m³ pool water (Residential pools)
TABCHLOR 200 gr	Stabilized Trichlorine Tablet	Disinfection	1 Tablet for 30 m³ pool water (once 10-12 days)
H.TRICHLOR T 200 gr	Stabilized Trichlorine Tablet	Disinfection	1 Tablet for 30 m³ pool water (once 10-12 days)
CALCIUM HYPOCHLORITE	%70 Granular/Tablet	Disinfection	200 gr/day for 100 m³ pool water
BROMINE	Bromine Tablet	Disinfection	400 gr/day for 30 m³ pool water
FASTCHLOR L	Sodium Hypochlorite %12	Disinfection	2,5-5 liters/day for 100 m³ pool water
CHLORSTAB	Isocyanuric Acid	Chlorine Stabilizer	5 kg first dose for 100 m³ 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 m³ pool water (Residential pools)
			150 gr/week for 10 m³ pool water (Public pools)
OXYTRONE	Granular	Oxygen based organic cleaner	1000-1300 gr/week dose per 100 m³ pool water (Residential pools) 1500-1800 gr/week dose per 100 m³ pool water (Public pools)
CHLORINE-OUT	Gralunar	Chlorine and chlorine remover	300 gr dose per 100 m³ pool water to reduce total chlorine by 1 ppm
pH (-) DOWN	Granular	pH Down	1 kg for 100 m³ pool water decreases pH by 0,1 unit
pH (-) DOWN L	Liquid	pH Down	1 liter for 100 m³ pool water decreases pH by 1 unit
pH (-) DOWN HCl	Liquid	pH Reduce and Limescale cleaner	1 l dose per 100 m³ pool water reduces pH by 0,1 and alkalinity by 0,23 ppm
pH (+) UP	Granular	pH Up	1 kg for 100 m³ 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 m³ pool water. 0,5 l dose in following weeks.
PUREFLOCK L	Liquid	Flocculant	30-200 ml/day for 100 m³ pool water
CLEARFLOCK GEL	Mold Gel	Gel Flocculant	
PUREFLOCK C	Cartridge	Flocculant	1 cartridge/5-7 days for 60 m³ pool water
MULTIFLOCK C	Cartridge	Flocculant + Anti-Algea	1 cartridge/5-7 days for 60 m³ pool water
ACTIVE FLOCK	Liquid	Polisher	100 m³ pool water 30-200 ml/day
MIRACLEAR	Liquid	Super Shock Clerifier	1 l first dose for 100 m³ pool water. Same dose in following 3-4 week.
CALCEX FILTER	Granular	Anti Calcification	1 kg/15-30 days for each m³ of filter volume
CALSTAB	Liquid	Hardness Stabilization	100-400 ml for 10 m³ 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 m³ pool water
SCALEX	Liquid	Anti-Lime for Salt-Chlorine Generators	2,5 l first dose to 100 m³ 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 m³ pool Re-dose in 2 months.

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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, CaCO3 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 algaecide 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 acceptible 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	Limit Values Maximum
Cyanuric acid (1)	Once a month	mg/l	-	100
Biguanid (2)			2	30
Hydrogen peroxide (2)			40	80
pH (2)			6,5	7,8
Ammonium (2)				0,5
Nitrite				0,5
Nitrate				50
Copper				1
Aluminum				0,2
Total alkalinity (2) ($CaCO_3$)			30	180
Bound chlorine (3)				0,2
Indoor swimming pool water free chlorine (3)			1	1,5
Open swimming pool water free chlorine (3)			1	3
Free chlorine (4)			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/ box	Weight Kg	Volume m^3
	08211	1	0,170	

LIQUID REAGENTS

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• CHLORINE OTO - 25 cc	**082111**	1	0,028	
• PHENOL RED - 25 cc	**082112**	1	0,028	

TOTAL HARDNESS TEST KIT. By titration method.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	08221	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/ box	Weight Kg	Volume m^3
	08111	10	0,160	0,0004

TEST KIT FOR CHLORINE/BROMINE, pH & ALKALINITY

Description	Code	Pieces/ box	Weight Kg	Volume m^3
PT 500	**08131**	1	0,160	0,0004

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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^3
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^3
SALINITY TEST KIT	**0835**	1		

Electronic Photometer - Test Strips & Readers

AQUACHECK "TRUTEST" DIGITAL TEST STRIPS & READER.
pH, free chlorine and total alkalinity. After the AQUCHECK 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^3
• 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 poollab, 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^3
POOLLAB 5 in 1 kit	**0844**	1		

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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^3
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^3
• 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.

0850

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 5 in 1 Test Kit , with disc comparator	**0850**	1		
• Phosphate Test Kit, with disc comparator	**0851**	1		

0851

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Tablet Reagents

"DPD1 FREE CHLORINE REAGENT. (1 Folio includes 10 tablets)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• DPD1 – Folio	**081111**	50	0,128	0,001
• Box inc. 500 pcs	**0811111**	1	0,170	0,0009
• Box inc. 1000 pcs..	**08111112**	1		

PHENOL RED REAGENT. (1 Folio includes 10 tablets)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Phenol Red – Folio	**081112**	50	0,128	0,001
• Box inc. 500 pcs	**0811121**	1		
• Box inc. 1000 pcs..	**0811122**	1		

DPD3 DEPENDENT CHLORINE AGENT. (1 Folio includes 10 tablets)

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• DPD3 – Folio	**081113**	50	0,128	0,001
• Box inc. 500 pcs	**0811131**	1	0,170	0,0009
• Box inc. 1000 pcs..	**0811132**	1		

Photometer Tablet Reagents

Below spare agents for 250 pieces packages. PLS. ASK PRICE.

Description
TABLET REAGENTS
Alkalinity - M
Cholorine - DPD1
Cholorine - DPD3
Cyanuric Acid
Calcium Hardness
pH - Phenol Red
Aluminium - No:1
Aluminium - No:2
Ammonia - No:1
Ammonia - No:2
Bromine - DPD1
Bromine - Glycine
Copper - No:1
Copper - No:2
Nitrite
Ozone - DPD1
Ozone - DPD2
Ozone - DPD3
PHMB
Chloramine DPD1
Chloramine DPD2
Chloramine DPD3
Chloride - No:1
Chloride - No:2
Chlor dioxide - DPD1

Description
Chlor dioxide - Glycine
Total Hardness
Iron
Phosphate - No:1
Phosphate - No:2
Sodium Hypochloride 1
Sodium Hypochloride 2
Sulphate
Urea - Amonia No:1
Urea - Amonia No:2
Zinc - Copper Zinc
Zinc - EDTA
LIQUID REAGENTS
Hydrogen Peroxide - No:1
Hydrogen Peroxide - No:2
Nitrate - No:1
Nitrate - No:2
Chlorine - No:1
Chlorine - No:2
Chlorine - No:3
Iron - No:1
Iron - No:2
pH
Urea - No:3
Urea - No:4

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"Residential" Robotic Pool Cleaners

PLECOS "S2" ROBOTIC POOL CLEANERS.
The Plecos 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^3
"S2" Automatic Pool Cleaner	**091187**	1	12,000	

PLECOS "M4" ROBOTIC POOL CLEANERS.
The Plecos 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^3/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^3
• "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 Plecos 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^3
"FREE" Automatic Pool Cleaner - Cordless	**091192**	1	12,000	

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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 m³/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/ box	Weight Kg	Volume m³
“W9i” Automatic Pool Cleaner	**091190**	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 m³/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/ box	Weight Kg	Volume m³
“W10” Automatic Pool Cleaner	**091189**	1	25,000	
“W10” Caddy	**091189C**	1		

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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^3
"W30XL" Auto. Pool Cleaner	**091191**	1	101,000	0,150

W30XL entrance to pool.

W30XL can be controlled remotely.

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

Active Brush System: Hard brushes of polyethylene plastic brushes and rubs the pool and prevents algea 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^3/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.

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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.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Rechargable Cordless Vacuum Cleaner	091230	1	2,000	

PS: Compatible with all GEMAS Telescopic Poles

Removable brush head

60 min. battery capacity

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^3
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^3
S250 Hose	09123Y01	1		

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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/ box	Weight Kg	Volume m^3
• 11 m^3/h - 0,75 HP Pump	093101	1	37,000	
• 16 m^3/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/ box	Weight Kg	Volume m^3
6 m^3/h. Sand Filter - 0,5 HP Pump	093103	1		

PS: Please ask price for larger capacities.

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Manual Pool Cleaners

GEMAS "POOLVAC" Pool Cleaner.
For concrete pools. Anodized aluminum body.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• With butterfly nut, 11/2"-L = 346 mm	**092111**	1	2,382	0,012
• With butterfly nut, 11/2"-L = 456 mm	**092112**	1	3,094	0,015
• With clip, 11/2"-L = 346 mm	**092121**	1	2,388	0,012
• With clip, 11/2" -L = 456 mm	**092122**	1	3,220	0,015
• With butterfly nut, 2"-L = 456 mm	**0921121**	1	3,060	0,015
• With clip, 2"-L = 456 mm	**0921122**	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^3
• Width: 35,5 cm	**092211**	1	3,000	0,017
• Width: 45,5 cm	**092212**	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^3
• Pull Type	**09213**	1	10,008	0,020
• With fork for using with Handle	**09214**	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^3
	09222	1	0,860	
Spare bag	**092221**	1		

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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/ box	Weight Kg	Volume m^3
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/ box	Weight Kg	Volume m^3
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/ box	Weight Kg	Volume m^3
• 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.

09224

09225

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Heavy-Duty Flex	**09224**	1		
• Ditto, with brush on bottom	**09225**	1		
• Metallic Handle	**0922401**	1		

GEMAS "FLEX" POOL CLEANER.

09220

09223

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
Pool & SPA VAC	**09216**	1	1,418	0,060

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Vacuum Hoses

GEMAS VACUUM HOSE.
Economic blue and white colored, 30 m roll. Without adapter.

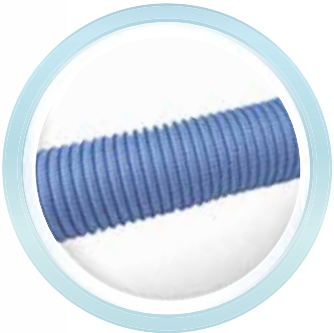
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• D.38 mm, 1,5"- Price per meter.	**09511**	30	4,992	0,152
• D.50 mm, 2"- Price per meter.	**09512**	30	7,696	0,298

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^3
• 1,5" - 8 m	**095111**	1	2,784	0,073
• 1,5" - 10 m	**095112**	1	3,112	0,073
• 1,5" - 12 m	**095113**	1	3,340	0,073
• 1,5" - 15 m	**095114**	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^3
• 2" - 12 m	**095121**	1	4,646	0,127
• 2" - 15 m	**095122**	1	5,372	0,127
• 2" - 18 m	**095123**	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^3
• D.38 mm, 1,5"- Price per meter.	**09511E**	30 m		
• D.50 mm, 2"- Price per meter.	**09512E**	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^3
• 1,5" - 8 m	**09511E1**			
• 1,5" - 10 m	**09511E2**			
• 1,5" - 12 m	**09511E3**			
• 1,5" - 15 m	**09511E4**			

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^3
• 2" - 12 m	**09512E1**			
• 2" - 15 m	**09512E2**			
• 2" - 18 m	**09512E4**			

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Hose Adapters and Clips

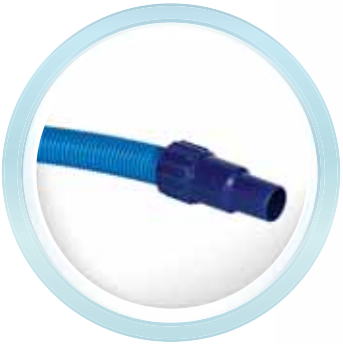
GEMAS LINK CONNECTOR.
For connection of Ø38 mm hose to “04134” suction inlet, in white ABS plastic. 1,5" threaded.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09821	20	0,812	0,006

BULLDOG CLIP. For hose fixing, in stainless steel.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For Ø38 mm. (1,5") hose	**09831**	100	3,000	0,001
• For Ø50 mm. (2”) hose	**09832**	50	1,800	0,002

GEMAS HOSE CUFFS. In flexible PVC plastic, threaded inside.



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For Ø38 mm. (1,5") hose	**09811**	120	6,000	0,028
• For Ø50 mm. (2”) hose	**09812**	120	7,200	0,028
• For both Ø38 mm and Ø50 mm Gemas Eva hose.	**09813**	120	10,800	0,064
• For both Ø38 mm and Ø50 mm Gemas hose.	**09814**	120	10,800	0,064

GEMAS THREADED HOSE CUFFS. In PVC plastic, 1,5" male threaded.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
For Ø38 mm.	**09841**		0,040	

GEMAS HOSE COLLECTION WHEEL.
Made of ABS plastic. 15 m of D.38 Hose collection capacity.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Hose wheel	**09513**	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/ box	Weight Kg	Volume m^3
Leaf Trap	**09851**	1		

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Leaf Scoops

GEMAS LEAF SCOOP IN PLASTIC. Fixing with clip.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09710	12	3,350	0,053

GEMAS LEAF SKIMMER IN PLASTIC. Fixing with clip.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09720	12	3,780	0,053

GEMAS "LUX" LEAF SCOOP IN PLASTIC. Fixing with clip.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09730	12	7,950	0,085

GEMAS "ECONOMIC" LEAF SCOOP IN PLASTIC. Fixing with clip.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09740	12		

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Pool Brushes

GEMAS VACUUM BRUSH IN PLASTIC.
Pool wall brush, standard. With hose connection.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09624	1		

GEMAS WALL BRUSH IN PLASTIC. Pool wall brush, 60 cm, standard.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09622	1		

GEMAS WALL BRUSH IN PLASTIC. Pool wall brush, 90 cm, standard.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09623	1		

GEMAS CURVED BRUSH IN PLASTIC. Pool wall brush, 46 cm, standard.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09620	1	0,348	0,002

GEMAS FLOOR BRUSH IN PLASTIC.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Flat 12,5 cm	**09611**			
• Flat 26 cm	**09626**	2	0,244	0,002

GEMAS ALGAE BRUSH WITH STAINLES STEEL BRISTLES.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
	09640	1	0,114	0,001

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Auxiliary Cleaning Equipment

GEMAS SCRUBBING PAD. With plastic handle.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09633			

GEMAS SCRUBBING PAD. Plastic.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09632		0,050	0,050

GEMAS "LUX" LEAF SCOOP IN PLASTIC. Fixing with clip.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09630		0,296	0,001

GEMAS PUMICE. Plastic clip body. Used for algae cleaning between ceramics.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09631		0,096	

GEMAS LIFEGUARD HOOK. Aluminum.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09800		0,408	0,044

GEMAS LIFEGUARD RING. Plastic.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Big Life Buoy 440x700	**09809**	1		
• Small Life Buoy	**09810**	1		

GEMAS LIFEGUARD RING - WALL HANG PART. Stainless Steel.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	09815	1		

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Telescopic Handles

TELESCOPIC HANDLES.
In anodized aluminium (natural or gold color). Connection via clip or butterfly nut.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 x 1,5 m	**09410**	1	0,430	0,159
• 1 x 3 m	**09420**	1	0,890	0,312
• 2 x 2 m	**09430**	1	1,100	0,220
• 2 x 2,4 m	**09490**	1	1,600	0,261
• 2 x 3 m	**09440**	1	1,500	0,323
• 3 x 1,5 m	**09450**	1	1,300	0,169
• 3 x 2 m	**09460**	1	1,540	0,220
• 3 x 3 m	**09470**	1	2,200	0,328
• 3 x 6 m	**09480**	1	4,200	0,630

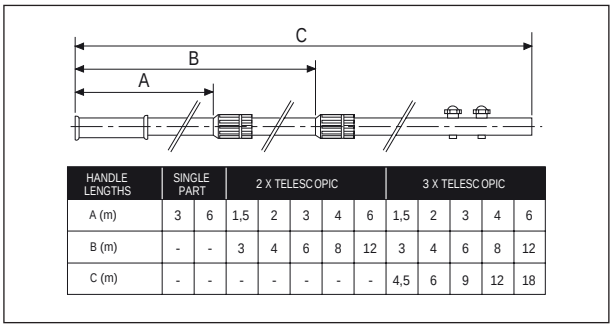
09420

09430

TELESCOPIC HANDLE.
Aluminum, blue anodized. Stripy lower body.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 2 x 1,8 m	**09489**	1	0,800	0,262
• 2 x 2,4 m	**09491**	1	1,000	0,262
• 2 x 3,0 m Blue	**09492**	1		

09489



HANDLE LENGTHS	SINGLE PART		2 X TELESCOPIC					3 X TELESCOPIC				
A (m)	3	6	1,5	2	3	4	6	1,5	2	3	4	6
B (m)	-	-	3	4	6	8	12	3	4	6	8	12
C (m)	-	-	-	-	-	-	-	4,5	6	9	12	18

09491

WALL HANG SET FOR TELESCOPIC HANDLE.
Made of Plastic. Complete with screws.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Wall Hang Set	**09400**	1	0,160	0,001

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Pool Thermometers

Pool Thermometers, floating.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Thermometer - Floating Type (Duck)	**10414**	24		
• Thermometer - Floating Type (Fish)	**10412**	24		
• Thermometer - Floating Type (Turtle)	**10415**	24		

Pool Thermometer, to be connected to the ladder.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Thermometer - Floating Type	**10411**	1	0,090	
• To be connected to the ladder	**10421**	1	0,068	

Pool Thermometer, floating and circular scaled, Ø190 mm.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	10431	1	0,298	0,010

Digital Pool Thermometer with Solar Battery, Ø80 mm.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	10432	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^3
Ice Barrier	**1297105**	Piece		

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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 ±12°C in 5 days when the outside temperature 20°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°C.

101313

101315

101317

101320

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 030MS3 - Heating/Cooling, 12,6 kW	**101313**	1		
• 040MS3 - Heating/Cooling, 18,9 kW	**101314**	1		
• 060MS3 - Heating/Cooling, 25,2 kW	**101315**	1		
• 080MS3 - Heating/Cooling, 33,8 kW	**101317**	1		
• 100MS3 - Heating/Cooling, 42 kW	**101318**	1		
• 120MS3 - Heating/Cooling, 50,4 kW	**101320**	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^3	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^3/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

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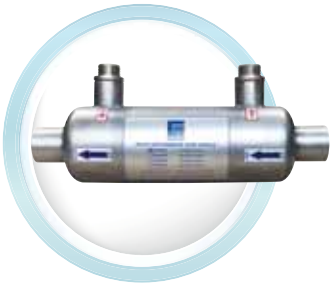
Pool Heat Pumps

Models with Inverter:

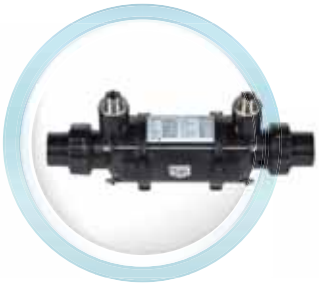
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• FIP7S - Heating: 7.80 kW / Cooling, 4.30 kW	**101325**	1		
• FIP10S - Heating: 10.60 kW / Cooling, 5.90 kW	**101326**	1		
• FIP13S - Heating: 13.70 kW / Cooling, 7.30 kW	**101327**	1		
• FIP17S - Heating: 17.20 kW / Cooling, 9.50 kW	**101329**	1		
• FIP21S - Heating: 21.40 kW / Cooling, 11.60 kW	**101334**	1		
• FIP30S - Heating: 30.00 kW / Cooling, 15.90 kW	**101335**	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^3
• 22.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75	**101210**	1		
• 35.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75	**101211**	1		
• 40.000 kcal/h Conn.: Pool side 1,5"- boiler side 0,75	**101217**	1		
• 65,000 kcal/h Conn.: Pool side 1,5"- boiler side 1"	**101212**	1		
• 80.000 kcal/h Conn.: Pool side 2"- boiler side 1"	**101218**	1		
• 90.000 kcal/h Conn.: Pool side 2"- boiler side 2x1"	**101213**	1		
• 110.000 kcal/h Conn.: Pool side 2"- boiler side 1"	**101219**	1		
• 180.000 kcal/h Conn.: Pool side 2"- boiler side 2x1,5"	**101214**	1		
• 220.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"	**101220**	1		
• 250.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"	**101215**	1		
• 330.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"	**101221**	1		
• 400.000 kcal/h Conn.: Pool side 2"- boiler side 2x2"	**101216**	1		
• St. Steel Wall Clampset	**10121101**	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, 0-rings are silicone.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• D-KWT 25, 25 kW - 21,500 kcal/h, AISI 316	**101201**	1		
• D-KWT 45, 45 kW - 39,560 kcal/h, AISI 316	**101202**	1		
• D-KWT 85, 85 kW - 78,260 kcal/h, AISI 316	**101203**	1		
• D-KWT 105, 105 kW - 108,360 kcal/h, AISI 316	**101204**	1		
• D-KWT 25, Titanium	**101201T**	1		
• D-KWT 45, Titanium	**101202T**	1		
• D-KWT 85, Titanium	**101203T**	1		
• D-KWT 105, Titanium	**101204T**	1		

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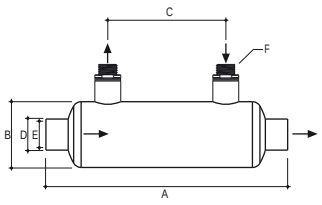
Heat Exchangers, Shell & Tube Type

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	m^2	0.09	0.15	0.33	0.54
Flow Primary*	m^3/h	2	2	2	2
Flow Secondary*	m^3/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	m^3	0.079	0.095	0.162	0.233

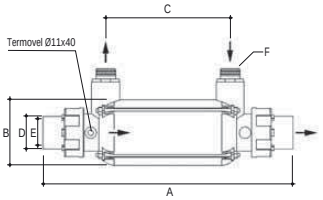
*Primary: Heating fluid, Secondary: Heating fluid (Pool water)

**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	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

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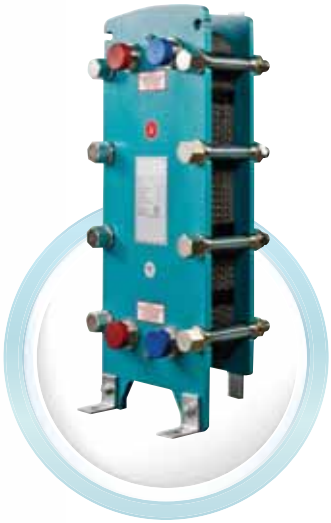
Plate Heat Exchangers - High Pressure Drop

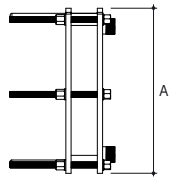


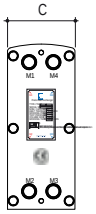
101260 Optional

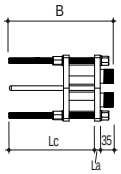
GEMAS Stainless Steel Plate Heat Exchanger. Made of AISI 316 quality stainless steel with nitryl or EPDM seal exchangers. Operated by 90-70°C hot water from boiler. Max. pressure 10 bars - Max. heat 130°C. Pressure loss from boiler and pool is 5 mwh.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 30,000 kcal/h, 504 Body, 5 Pl.	**101251**	1		
• 40,000 kcal/h, 504 Body, 6 Pl.	**101252**	1		
• 50,000 kcal/h, 504 Body, 7 Pl.	**101253**	1		
• 60,000 kcal/h, 504 Body, 8 Pl.	**101254**	1		
• 70,000 kcal/h, 504 Body, 10 Pl.	**101255**	1		
• 80,000 kcal/h, 504 Body, 10 Pl.	**101256**	1		
• 90,000 kcal/h, 504 Body, 12 Pl.	**101257**	1		
• 100,000 kcal/h, 504 Body, 12 Pl.	**101258**	1		
• 125,000 kcal/h, 504 Body, 16 Pl.	**101259**	1		
• 150,000 kcal/h, 504 Body, 20 Pl.	**101261**	1		
• 175,000 kcal/h, 504 Body, 24 Pl.	**101262**	1		
• 200,000 kcal/h, 514 Body, 10 Pl.	**101263**	1		
• 250,000 kcal/h, 514 Body, 12 Pl.	**101264**	1		
• 300,000 kcal/h, 514 Body, 14 Pl.	**101265**	1		
• 325,000 kcal/h, 514 Body, 14 Pl.	**101266**	1		
• 400,000 kcal/h, 514 Body, 18 Pl.	**101267**	1		
• 500,000 kcal/h, 514 Body, 22 Pl.	**101268**	1		
• 600,000 kcal/h, 514 Body, 28 Pl.	**101269**	1		
• Thermostat and Solenoid Automation	**101260**	1		

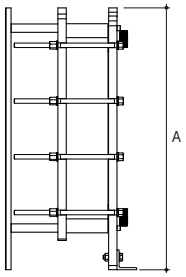
504 BODY

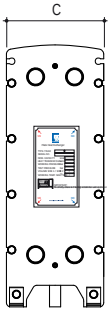


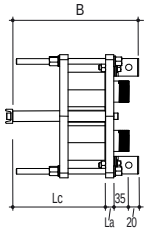




514 BODY







Body Model	A (mm)	B (mm)	C (mm)
504 BODY	490	La+Lc+35	200
514 BODY	942	La+Lc+40+20	350

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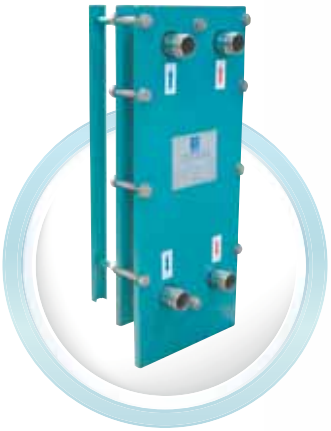
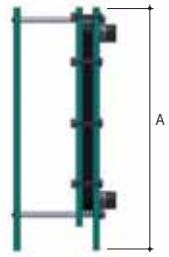
Plate Heat Exchangers - Low Pressure Drop

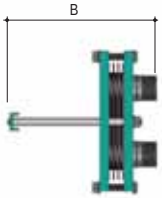
GEMAS Plate Heat Exchangers.
Plates made of AISI 316 quality stainless steel, with nitryl or EPDM gaskets. Body plates are 20 mm and painted over galvanization. Operated by 90-70°C hot water from boiler. Max Pressure 10 bar - Max temperature 130°C. Pressure losses from the sides of the pool and boiler are shown seperately for each capacity.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 40,000 kcal/h: Pool side 1,02 mwh - Boiler side 1,00 mwh 2,00 - 2,00 m³/h 6 pl.	**101231**	1	34,500	
• 65,000 kcal/h: Pool side 1,16 mwh - Boiler side 1,20 mwh 3,20 - 3,30 m³/h 8 pl.	**101232**	1	35,900	
• 90,000 kcal/h: Pool side 1,28 mwh - Boiler side 1,29 mwh 4,50 - 4,60 m³/h 10 pl.	**101233**	1	64,000	
• 110,000 kcal/h: Pool side 1,21 mwh - Boiler side 1,90 mwh 5,50 - 5,60 m³/h 11 pl.	**101234**	1	65,200	
• 130,000 kcal/h: Pool side 1,18 mwh - Boiler side 1,71 mwh 6,50 - 6,60 m³/h 13 pl.	**101235**	1	85,600	
• 150,000 kcal/h: Pool side 1,55 mwh - Boiler side 1,60 mwh 7,50 - 7,70 m³/h 14 pl.	**101236**	1	87,200	
• 180,000 kcal/h: Pool side 1,65 mwh - Boiler side 1,70 mwh 9,00 - 9,20 m³/h 16 pl.	**101237**	1	87,200	
• 225,000 kcal/h: Pool side 1,58 mwh - Boiler side 1,63 mwh 11,00 - 11,00 m³/h 20 pl.	**101238**	1	88,800	
• 300,000 kcal/h: Pool side 1,63 mwh - Boiler side 1,97 mwh 15,00 - 15,40 m³/h 25 pl.	**101239**	1		
• 400,000 kcal/h: Pool side 1,71 mwh - Boiler side 1,97 mwh 20,00 - 20,50 m³/h 33 pl.	**101240**	1		
• 500,000 kcal/h: Pool side 1,81 mwh - Boiler side 1,87 mwh 25,00 - 26,00 m³/h 41 pl.	**101241**	1		
• 700.000 kcal/h: Pool side 1,14 mwh - Boiler side 1,88 mwh 27,00 - 36,00 m³/h 62 pl.	**101242**	1		





SIDE



TOP

FRONT

101260 Optional

Code	A (mm)	B (mm)	C (mm)
101231 101232 101233	580	255	290
101234 101235 101236		280	
101237 101238 101239		330	
101240 101241 101242		355	

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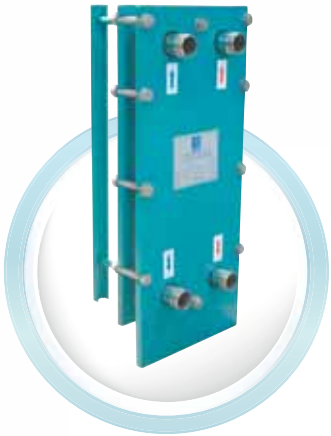
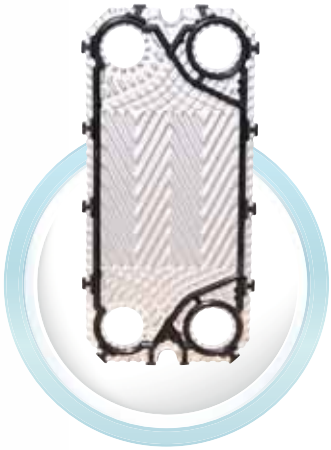
Plate Heat Exchangers-Titanium-Low Pressure Drop





GEMAS Titanium Plate Exchanger.
Titanium plates resistent 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^3
• 40,000 kcal/h: Pool side 1,02 mwh - Boiler side 1,00 mwh 2,00 - 2,00 m³/h 6 pl.	**101231T**	1	34,500	
• 65,000 kcal/h: Pool side 1,16 mwh - Boiler side 1,20 mwh 3,20 - 3,30 m³/h 8 pl.	**101232T**	1	35,900	
• 90,000 kcal/h: Pool side 1,28 mwh - Boiler side 1,29 mwh 4,50 - 4,60 m³/h 10 pl.	**101233T**	1	64,000	
• 110,000 kcal/h: Pool side 1,21 mwh - Boiler side 1,90 mwh 5,50 - 5,60 m³/h 11 pl.	**101234T**	1	65,200	
• 130,000 kcal/h: Pool side 1,18 mwh - Boiler side 1,71 mwh 6,50 - 6,60 m³/h 13 pl.	**101235T**	1	85,600	
• 150,000 kcal/h: Pool side 1,55 mwh - Boiler side 1,60 mwh 7,50 - 7,70 m³/h 14 pl.	**101236T**	1	87,200	
• 180,000 kcal/h: Pool side 1,65 mwh - Boiler side 1,70 mwh 9,00 - 9,20 m³/h 16 pl.	**101237T**	1	87,200	
• 225,000 kcal/h: Pool side 1,58 mwh - Boiler side 1,63 mwh 11,00 - 11,00 m³/h 20 pl.	**101238T**	1	88,800	
• 300,000 kcal/h: Pool side 1,63 mwh - Boiler side 1,97 mwh 15,00 - 15,40 m³/h 25 pl.	**101239T**	1		
• 400,000 kcal/h: Pool side 1,71 mwh - Boiler side 1,97 mwh 20,00 - 20,50 m³/h 33 pl.	**101240T**	1		
• 500,000 kcal/h: Pool side 1,81 mwh - Boiler side 1,87 mwh 25,00 - 26,00 m³/h 41 pl.	**101241T**	1		
• 700.000 kcal/h: Pool side 1,14 mwh - Boiler side 1,88 mwh 27,00 - 36,00 m³/h 62 pl.	**101242T**	1		

Option (101260): Complete with solenoid valve, thermostat and thermostat cap for automation-€650.

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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.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 9 kW Electrical Heater	**10121**	1		
• 12 kW Electrical Heater	**10122**	1		
• 15 kW Electrical Heater	**10123**	1		
• 18 kW Electrical Heater	**10124**	1		

GEMAS Heatrone PRO-Ti

Ditto, but heating elements made of Titanium.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 9 kW Electrical Heater	**10121T**	1		
• 12 kW Electrical Heater	**10122T**	1		
• 15 kW Electrical Heater	**10123T**	1		
• 18 kW Electrical Heater	**10124T**	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.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 kW Electrical Heater (Monofaze)	**10020**	1		
• 2 kW Electrical Heater (Monofaze)	**10021**	1		
• 3 kW Electrical Heater (Trifaze)	**10022**	1		
• 6 kW Electrical Heater (Trifaze)	**10024**	1		

GEMAS Heatrone PRO-MINI - Ti

Ditto, but heating elements made of Titanium.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1 kW Electrical Heater (Monofaze)	**10020T**	1		
• 2 kW Electrical Heater (Monofaze)	**10021T**	1		
• 3 kW Electrical Heater (Trifaze)	**10022T**	1		
• 6 kW Electrical Heater (Trifaze)	**10024T**	1		

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Pool Thermometers

Pool Thermometers, floating.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Thermometer - Floating Type (Duck)	**10414**	24		
• Thermometer - Floating Type (Fish)	**10412**	24		
• Thermometer - Floating Type (Turtle)	**10415**	24		

Pool Thermometer, to be connected to the ladder.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Thermometer - Floating Type	**10411**	1	0,090	
• To be connected to the ladder	**10421**	1	0,068	

Pool Thermometer, floating and circular scaled, Ø190 mm.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	10431	1	0,298	0,010

Digital Pool Thermometer with Solar Battery, Ø80 mm.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	10432	1	0,140	0,001

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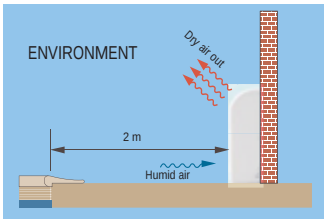
Dehumidifiers

GEMAS Dehumidifier. Provides energy-saving humid control for indoor swimming pool. Allows adjusting desired humidity rate with digital hygrometer.



- Quite operation,
- HP Buster Technology,
- R410A Eco-Friendly Gas,
- Installation on basement or wall,
- Plastic Case,
- Optional Electrical Heater.

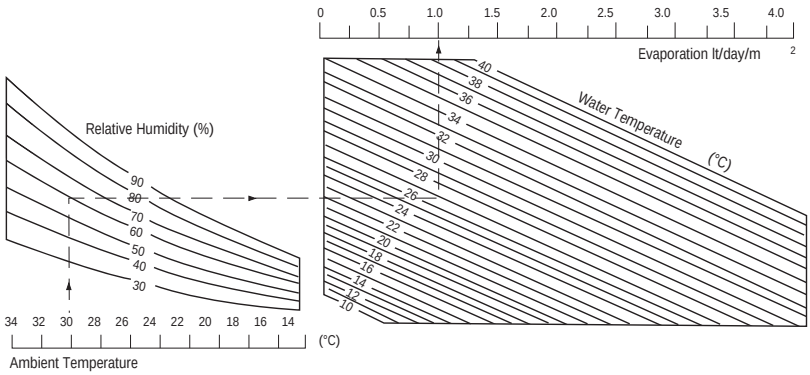
10231

10234

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Model MDH75A / 75 l/day	**10231**	1	57,000	0,244
• Model MDH90A / 90 l/day	**10236**	1	64,000	0,336
• Model MDH125A / 125 l/day	**10234**	1	66,000	0,336
• Model MDH170A / 170 l/day	**10235**	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 (m^3/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 D›ş 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

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Heat Requirement Chart For Miscellaneous Pools

Pool Dimensions (m)	Pool Volume (m^3)	Heat Requirement (kcal/h) (÷ 0,86 = Watt)																	
		Wind Sheltered Pools						Open Pools						Indoor Pools					
		Δt = 5°C			Δt = 10°C			Δt = 5°C			Δt = 10°C			Δt = 17°C			Δt = 25°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	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	37308	20305	14638	53311	28307	23223
5,00 x 10,00 x 1,50	75	34977	27164	24560	50606	34978	29769	47878	40064	37459	63506	47878	42669	58295	31727	22872	83299	44230	31206
6,00 x 12,00 x 1,50	108	50368	39116	35365	72872	50368	42867	68944	57692	53942	91448	68944	61443	83944	45687	32935	119951	63691	44937
8,00 x 16,00 x 1,50	192	89543	69539	62872	129551	89543	76208	122567	102564	95896	189040	142520	109232	149234	81222	58551	213246	113228	79888
12,50 x 25,00 x 1,50	469	218663	169800	153513	367895	218664	186088	299288	250425	234137	461645	348010	266713	364518	198384	143006	520880	276565	195127
12,50 x 25,00 x 1,80	563	277035	179594	160041	355563	238250	199146	318875	260209	240667	436188	318875	279771	431113	231682	165205	719551	325532	227771
16,00 x 35,00 x 1,50	840	391751	304236	275064	566783	391752	333408	536231	448716	419544	711263	536232	477888	652899	355346	256161	932950	495371	349511
20,00 x 40,00 x 1,50	1200	559645	434622	392948	809690	559645	476297	766045	641023	599348	1016090	766045	682697	932713	507637	365944	1332785	707673	499302
25,00 x 50,00 x 1,50	1875	874445	679098	613982	1265141	874445	744214	1196946	1001598	936482	1587641	1196945	1066714	1457364	793182	571788	2082477	1105738	780159
25,00 x 50,00 x 2,00	2500	1004678	744214	657393	1525604	1004677	831035	1327177	1066714	979892	1848104	1327177	1153535	1900152	1014576	719384	2733635	1431317	997212

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- Δt = Preferred temprature increase for pools.
5- Above time values for preffered 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.

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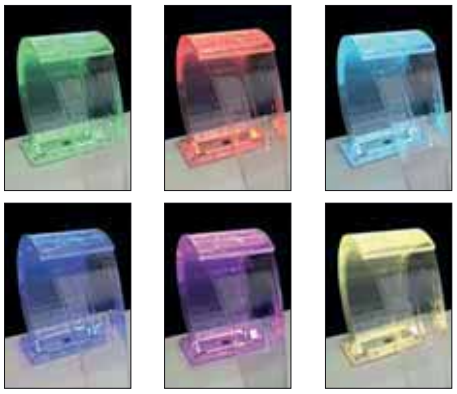
11	Water Attractions	239
12	Winter Pool Covers	256

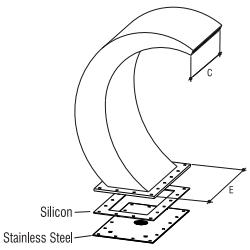
Water Cascade - Acrylic - RGB LED

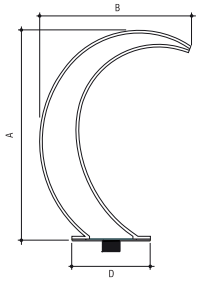
Acrylic Water Curtain.
Made of transparent acrylic. Complete with stainless steel bottom mounting plate, gasket, screws and nuts. Different light animations are created with RGB LED. Transformer remote control unit is not included in the price. Color change can be achieved with on-off.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• WF300LED - 1,5"	**11194**	1		
• WF301LED - 2,0"	**11195**	1		
• Four-terminal control unit for RGB LEDs Panel type	**05092A4P**	1		

PS: It must be used with a dedicated 1 HP Streamer pump.







TECHNICAL CHARACTERISTICS

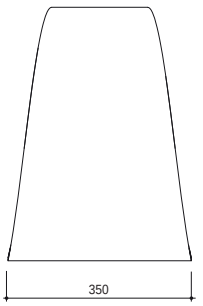
MODEL	Ø	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Power (W)	Voltage (VDC)
WF-300 LED	1.5"	603	423.5	320	236	416	12.0	12
WF-301 LED	2.0"	750	540.6	395	280	500	13.0	12

Water Cascade

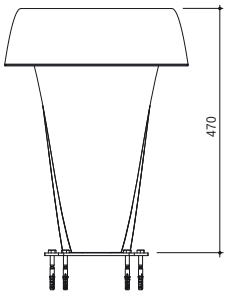
Mini Cobra Water Cascade.
Made of AISI 304 grade stainless steel. Connection 1,5" female threaded. Complete with bolts and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	11190	1		

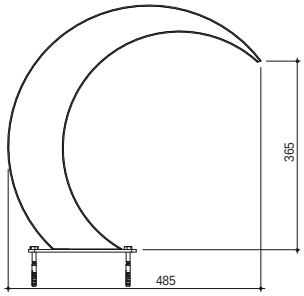
PS: It must be used with a dedicated 1 HP Streamer pump.



Top view



Front view



Side view

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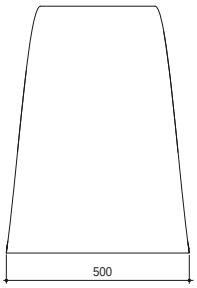
Water Cascade

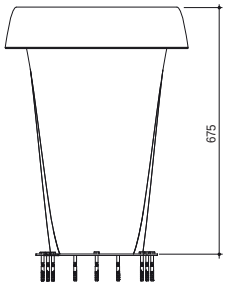
Midi Cobra Water Cascade.
Made of AISI 304 grade stainless steel. Connection 2” female threaded.
Complete with bolts and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Midi 1 - h=575 x 500 mm	**11191**	1		
• Midi 2 - h=900 x 600 mm	**11193**	1		

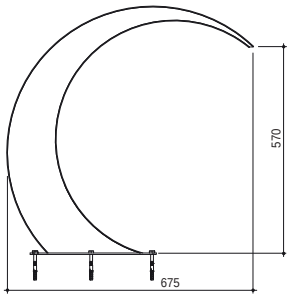
PS: It must be used with a dedicated 2 HP Streamer pump.



Top view

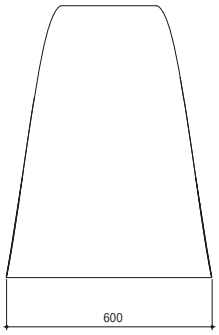


Front view

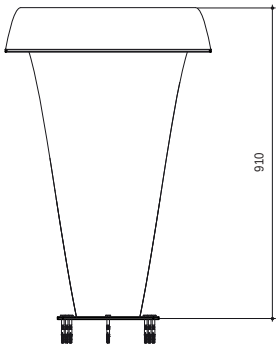


Side view

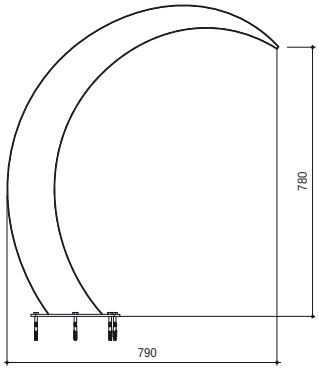
11191



Top view



Front view



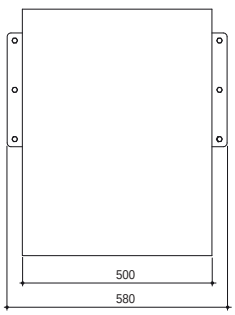
Side view

11193

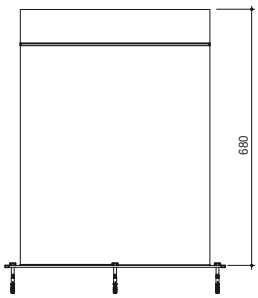
Niagara Water Cascade.
Made of AISI 304 grade stainless steel. Connection 2” female threaded. Complete with bolts and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	11192	1		

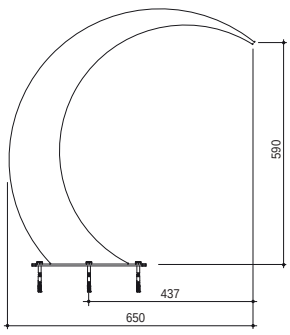
PS: It must be used with a dedicated 2 HP Streamer pump.



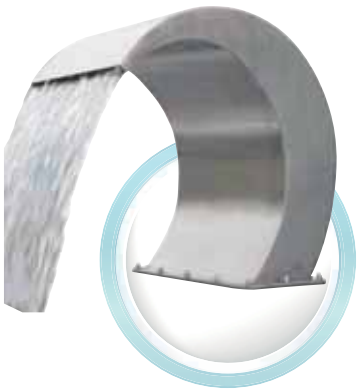
Top view



Front view



Side view



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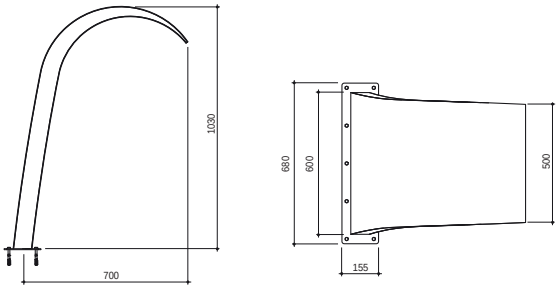
Water Cascade

Arcade - Lux Water Cascade.
Made of AISI 304 grade stainless steel. 2" female thereaded connection. Complete with bolt and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 500 mm cascade	**11150**	1		
• 600 mm cascade	**11151**	1		

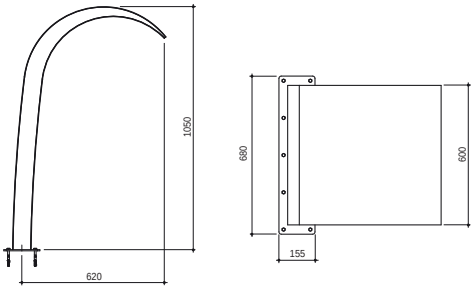
PS: It must be used with a dedicated 3 HP Streamer pump.

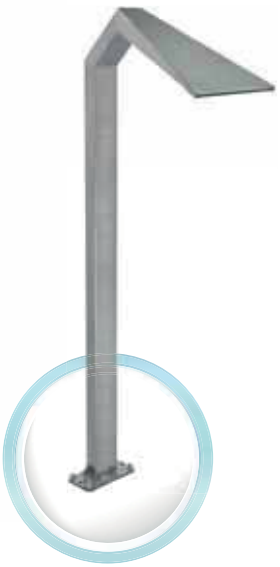


Arcade - Water Cascade.
Made of AISI 304 grade stainless steel. 2" female thereaded connection. Complete with bolt and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 400 mm cascade	**11160**	1	30,300	
• 600 mm cascade	**11161**	1		

PS: It must be used with a dedicated 3 HP Streamer pump.

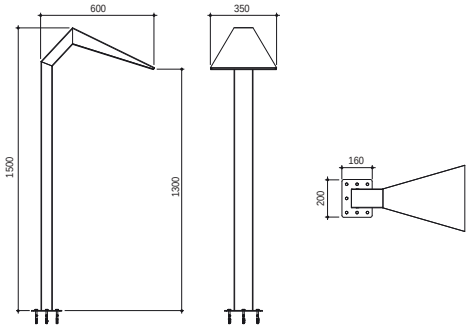




Delta - Water Cascade.
Made of AISI 304 grade stainless steel. 2" female thereaded connection. Complete with bolt and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
350 mm cascade	**11170**	1	12,400	

PS: It must be used with a dedicated 3 HP Streamer pump.



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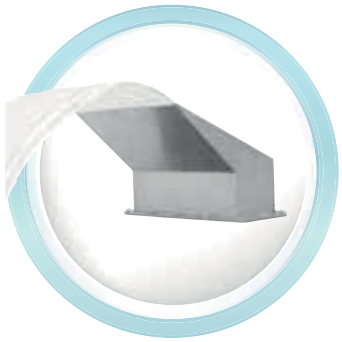
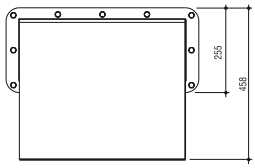
Water Cascade

Floor Waterfall.
Made of AISI 304 grade stainless steel. Connection 2" female threaded.
Complete with bolts and plugs.

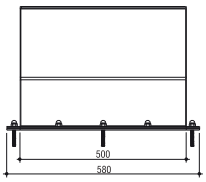
Description	Code	Pieces/ box	Weight Kg	Volume m^3
	11200	1		

PS: It must be used with a dedicated 3 HP Streamer pump.

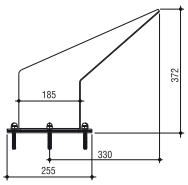




Top view



Front view

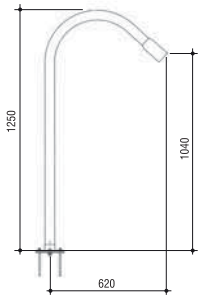


Side view

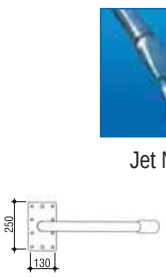
Water Jet.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø50 body made of AISI 304 grade stainless steel. Exchangeable jet mouth.	**11140**	1		
• Jet No 1	**11141**	1		
• Jet No 2	**11142**	1		
• Jet No 3	**11143**	1		
• Jet No 4	**11144**	1		

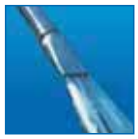
PS: It must be used with a dedicated 3 HP Streamer pump.



Side view



Top view



Jet No 1

Jet No 2

Jet No 3

Jet No 4

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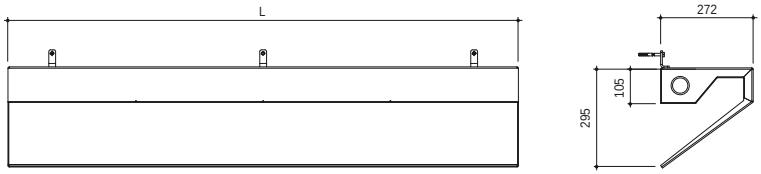
Water Cascade - Wall Type

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^3
• L = 1 m.	**11110**	1		
• L = 1,5 m.	**11111**			

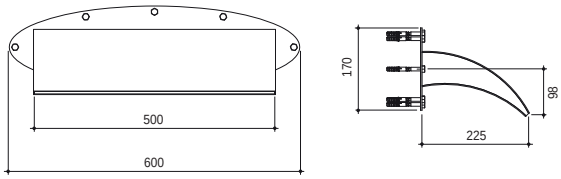
PS: It must be used with a dedicated 1 - 1 1/2 HP Streamer pump.



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^3
• L = 0,3 m.	**11112**	1		
• L = 0,5 m.	**11113**	1		

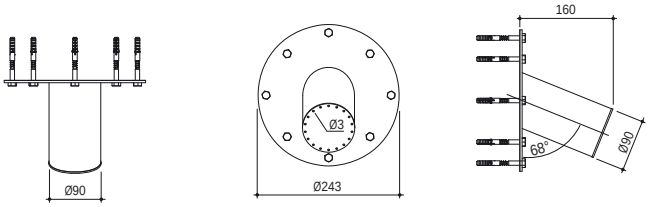
PS: It must be used with a dedicated 3/4 - 1 HP Streamer pump.



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^3
	11121	1		

PS: It must be used with a dedicated 0,75 HP Streamer pump.



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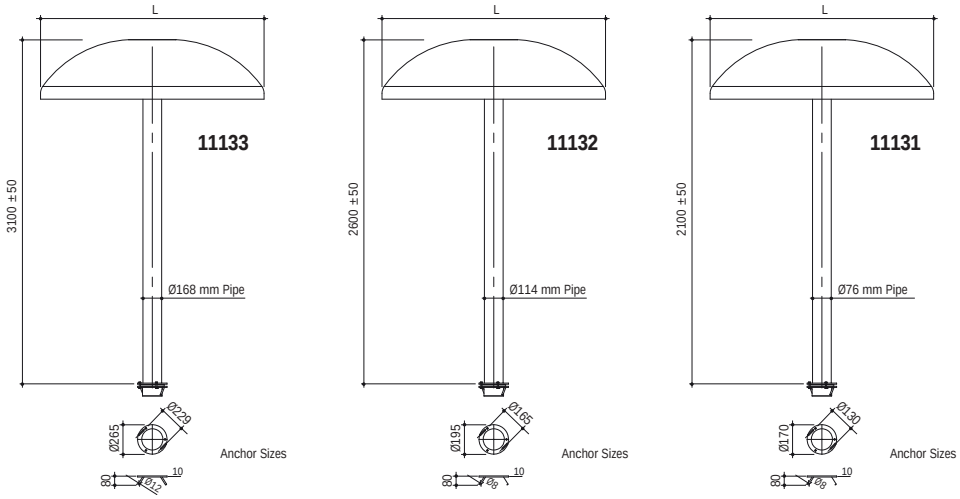
Water Cascade - Mushroom Type

Mushroom Cascade.
FRP mushroom with AISI 304 grade stainless steel pivot, flanged at both ends.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Mushroom Cascade L = Ø2000 mm:	**11133**	1		
Requires 150 m³/h				
• Mushroom Cascade L = Ø1600 mm:	**11132**	1	53,000	1,190
Requires 80 m³/h				
• Mushroom Cascade L = Ø1000 mm:	**11131**	1		
Requires 40 m³/h				

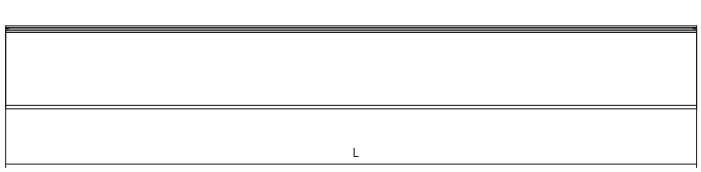


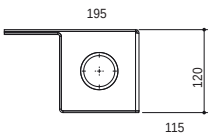
Water Cascade - Wall Type - Stainless Steel

"Pool Waterfall".
Made of AISI 304 grade stainless steel. Connection 2 x 1,5" female threaded.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Model HS01 - L = 0,30 m width	**11180**	1		
• Model HS02 - L = 0,50 m width	**11181**	1		
• Model HS03 - L = 1,00 m width	**11182**	1		
• Model HS04 - L = 1,50 m width	**11183**	1		

PS: Suggested pumps are Streamer Mini 0,33 HP, 0,5 HP, 0,75 HP ve 1 HP respectively.





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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	Remote Control	Width	Length
12V DC	10 Lighting Patterns	25/150 mm	600/900/1200 mm

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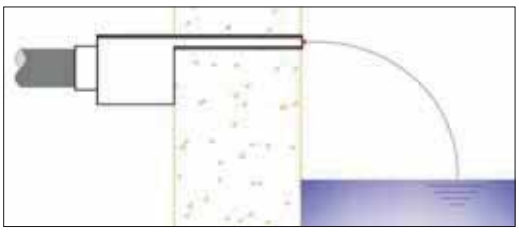
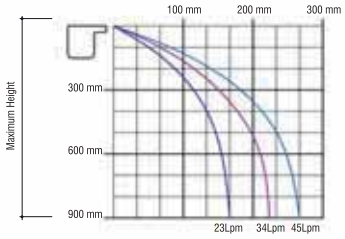
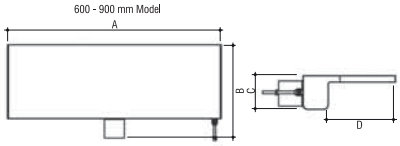
Water Cascade - Wall Type - LED

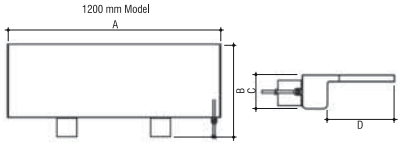
PB Series Pool Waterfall.
Provides excellent water light effect by creating standard continuous waterfall flow.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• PB600-150L	11PB600	1		
• PB900-150L	11PB900	1		
• PB1200-150L	11PB1200	1		





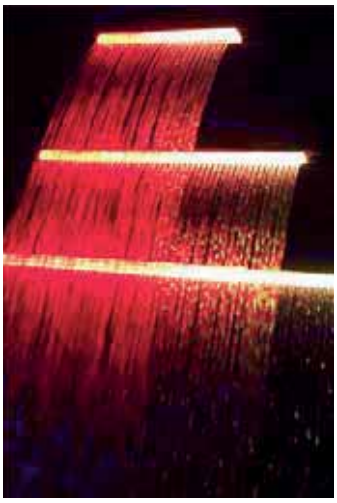




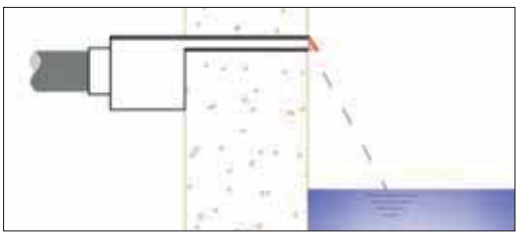
TECHNICAL CHARACTERISTICS

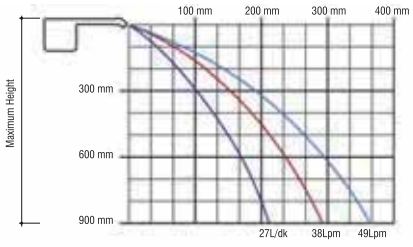
MODEL	A (mm)	B (mm)	C (mm)	D (mm)	Voltage (VDC)	Power (W)
PB600-150L	606	263	76	150	12	8.0
PB900-150L	906	263	76	150	12	12.0
PB1200-150L	1206	263	76	150	12	17.0

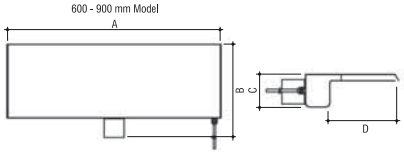
RS Series Pool Waterfall.
Creates a rain-like waterfall flow, providing a perfect water and light effect in your pool.



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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

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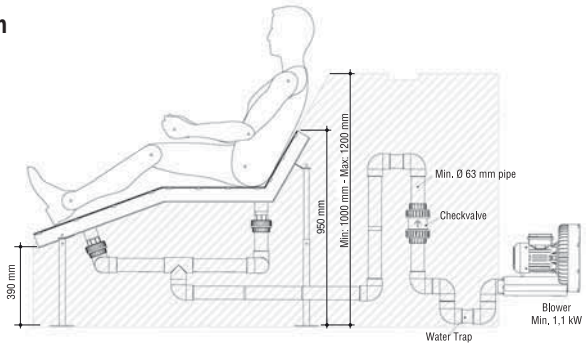
Inpool Hydro Massage Systems

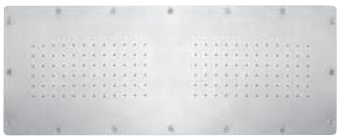
Air Bed.
Made of AISI 304 grade stainless steel. Complete with adjustable legs and PVC piping. Ø63 mm air connection.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Double	**11330**	1		
• Single	**11331**	1		

PS: This product must be used with 2,2 - 1,1 kw blower.

Assembly Diagram

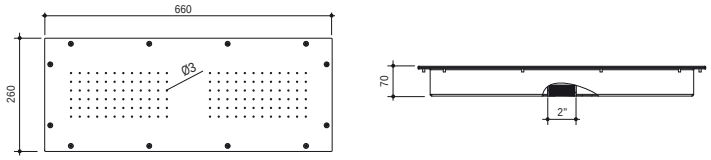




Rectangular Floor Air Jet.
Made of AISI 304 grade stainless steel. Connection 2" female threaded. Complete with bolt and plugs.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
660 x 260 mm	**11340**	1		

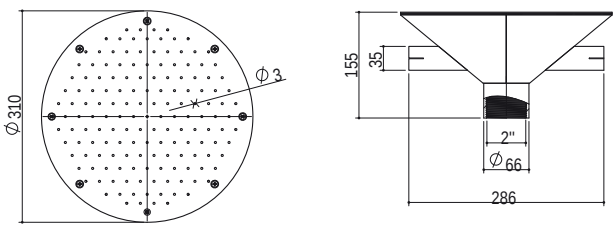
PS: This product must be used with 2,2 kw blower.



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^3
Ø310 mm dia	**11350**	1		

PS: This product must be used with 1,1 kw blower.



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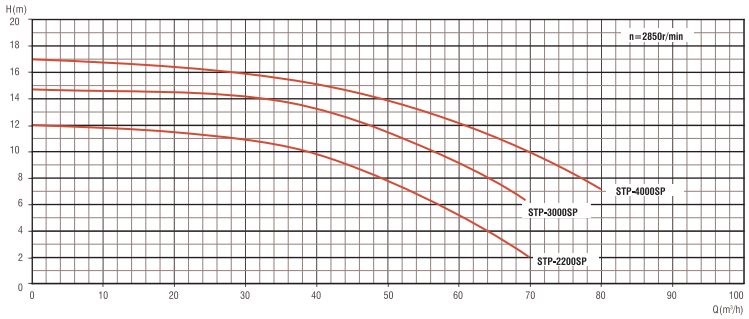
Counter Current and Massage Systems

STP-SP Counter Current System. Complete with jet pump, pneumatic switch, LED light, valves and fittings. Two seperate air buttons for pump and LED. Completely made of ABS plastic. The suction line is Ø90 mm and the discharge line is Ø75 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.

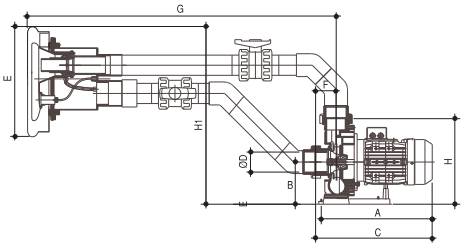
For Concrete and Liner Pools:

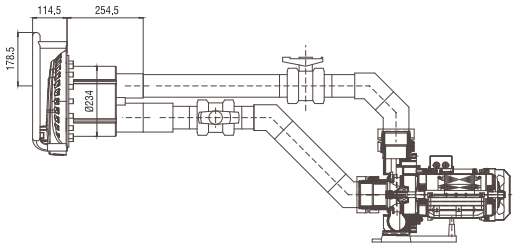
Description	Code	Pieces/ box	Weight Kg
• STP-SPM Monophase-with 3,0 HP BTP 0,396	**112270M**	1	
• STP-SPT Triphase-with 3,0 HP BTP	**112271T**	1	
• STP-SPT Triphase-with 4,5 HP BTP	**112272T**	1	
• STP-SPT Triphase-with 5,5 HP BTP	**112273T**	1	
• STP-SP Counter Current System, Niche, front frame set	**1122213**	1	
• Massage Hose Set	**1122211**	1	

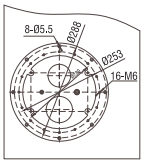
PERFORMANCE CURVES



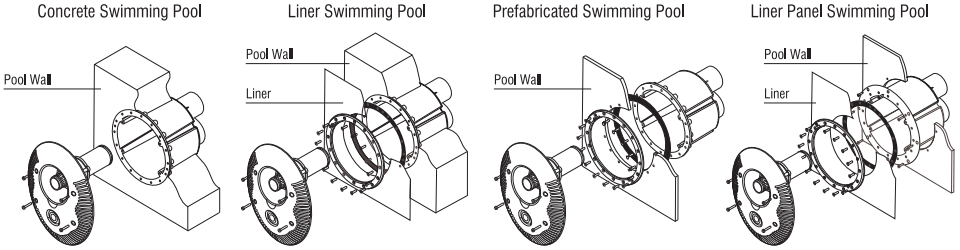
PUMP TYPE	DIMENSIONS									Weight (Kg)
	A	B	C	D	E	F	G	H	H1	
STP-2200	370	156	440	Ø75	395	77	1110	340	635	22
STP-3000	410	156	470	Ø75	395	77	1110	340	635	24
STP-4000	440	156	500	Ø75	395	77	1110	340	635	26







MOUNTING TYPE:



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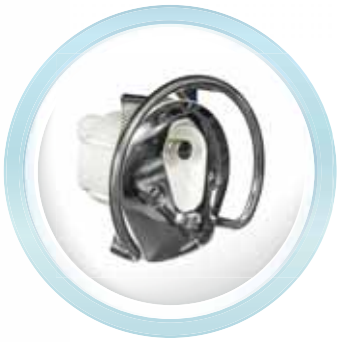
Counter Current and Massage Systems - S. Steel

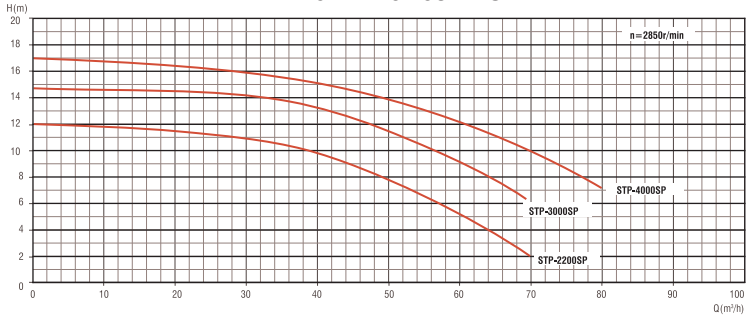
STP-SS Counter Current System.
Complete with jet pump, pneumatic switch, LED light, valves and fittings. Two seperate air buttons for pump and LED.
Completely made of stainless steel 304 grade. The suction line is Ø90 mm and the discharge line is Ø75 mm. Thanks to the suction check valve, the air suction line can be installed below the water level. Hand massage is possible with optional massage hose. For Concrete and Liner Pools.

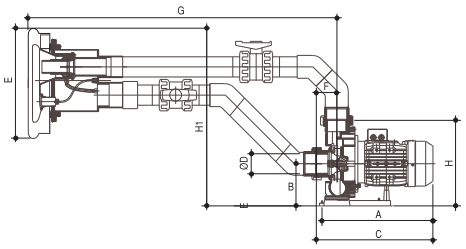
For Concrete and Liner Pools:

Description	Code	Pieces/ box	Weight Kg
• STP-SSM Monophase-with 3,0 HP BTP	**112270MSS**	1	
• STP-SST Triphase-with 3,0 HP BTP	**112271TSS**	1	
• STP-SST Triphase-with 4,5 HP BTP	**112272TSS**	1	
• STP-SST Triphase-with 5,5 HP BTP	**112273TSS**	1	
• STP-SS Counter Current System, Niche, front frame set		1	
• Massage Hose Set	**1122211**	1	

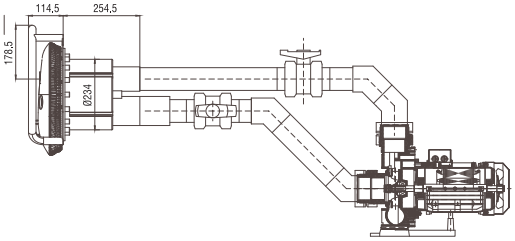


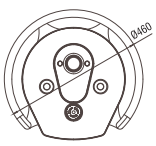
PERFORMANCE CURVES

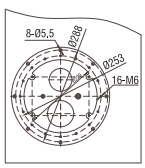




PUMP TYPE	DIMENSIONS									Weight (Kg)
	A	B	C	D	E	F	G	H	H1	
STP-2200	370	156	440	Ø75	395	77	1110	340	635	22
STP-3000	410	156	470	Ø75	395	77	1110	340	635	24
STP-4000	440	156	500	Ø75	395	77	1110	340	635	26







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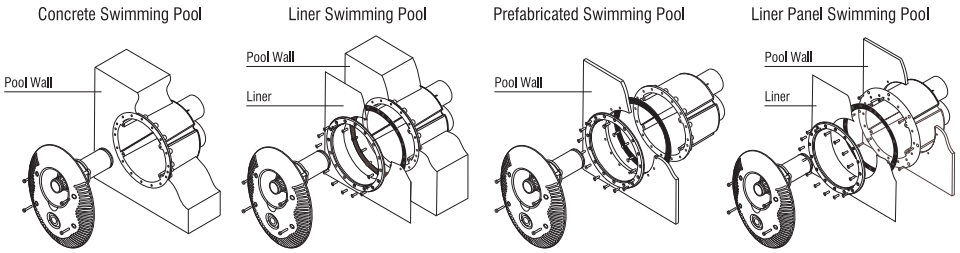

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Counter Current and Massage Systems

GEMAS "ELIPTICAL 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 Ø90 mm, return line Ø75 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	**112221**	1		
• 3,5 HP Monophase-with Fooderjet pump	**112222**	1		
• 3,0 HP Triphase-with Pumpex pump	**112223**	1		
• 3,5 HP Triphase-with Fooderjet pump	**112224**	1		
• 4,5 HP Triphase-with Fooderjet pump	**112225**	1		
• 5,5 HP Triphase-with Fooderjet pump	**112226**	1		

For Liner Pools:

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 3,0 HP Monophase-with Pumpex pump	**112251**	1		
• 3,5 HP Monophase-with Fooderjet pump	**112252**	1		
• 3,0 HP Triphase-with Pumpex pump	**112253**	1		
• 3,5 HP Triphase-with Fooderjet pump	**112254**	1		
• 4,5 HP Triphase-with Fooderjet pump	**112255**	1		
• 5,5 HP Triphase-with Fooderjet pump	**112256**	1		

GEMAS "ELIPTICAL MODEL" Counter Current System.
Niche made of ABS and front frame set.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• For Concrete Pools	**11223**	1		
• For Liner Pools	**11224**	1		

GEMAS "ELIPTICAL MODEL" Counter Current System, Massage Hose Set.

Description	Code	Pieces/ box	Weight Kg	Volume m³
	1122211	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	**1122212**	1		

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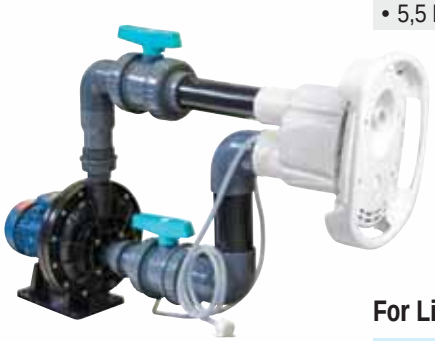
Counter Current and Massage Systems

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 Ø90 mm, return line Ø75 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	**112221K**	1		
• 3,5 HP Monophase-with Fooderjet pump	**112222K**	1		
• 3,0 HP Triphase-with Pumpex pump	**112223K**	1		
• 3,5 HP Triphase-with Fooderjet pump	**112224K**	1		
• 4,5 HP Triphase-with Fooderjet pump	**112225K**	1		
• 5,5 HP Triphase-with Fooderjet pump	**112226K**	1		



For Liner Pools:

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 3,0 HP Monophase-with Pumpex pump	**112251K**	1		
• 3,5 HP Monophase-with Fooderjet pump	**112252K**	1		
• 3,0 HP Triphase-with Pumpex pump	**112253K**	1		
• 3,5 HP Triphase-with Fooderjet pump	**112254K**	1		
• 4,5 HP Triphase-with Fooderjet pump	**112255K**	1		
• 5,5 HP Triphase-with Fooderjet pump	**112256K**	1		

GEMAS "SQUARE MODEL" Counter Current System.
Niche made of ABS and front frame set.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• For Concrete Pools	**11223K**	1		
• For Liner Pools	**11224K**	1		

GEMAS "SQUARE MODEL" Counter Current System, Massage Hose Set.

Description	Code	Pieces/ box	Weight Kg	Volume m³
	1122211	1		

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Inpool Hydro Massage Systems

In-Pool Hydro Massage Bed.
Made of Acrylic + Polyester. Water and air connections are ready to install.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Type 1	**11310**	1	15,000	
• Type 2	**11311**	1		

Type 2

Type 1

In-Pool Hydro Massage Chair.
Made of Acrylic + Polyester. Water and air connections are ready to install.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	11320	1		

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Decorative Wall Nozzles

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

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/ box	Weight Kg	Volume m³
• Small Lionhead, Antique Copper	**1122411**	1		
• Large Lionhead, Antique Copper	**1122421**	1		
• Plain Bowl Waterfall, Antique Copper	**1122431**	1		
• Slotted Bowl Waterfall, Antique Copper	**1122241**	1		
• Snail, Antique Copper	**1122251**	1		
• Antique Badge, Antique Copper	**1122261**	1		

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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/ box	Weight Kg	Volume m^3
	1122711			

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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^3
• Rectangular shape, price per square meter	**12110**			
• Irregular shape, price per square meter	**12111**			
• Free form cover, price per square meter	**12112**			
• Special cut for pool ladder or other special forms, price per cut	**12117**			

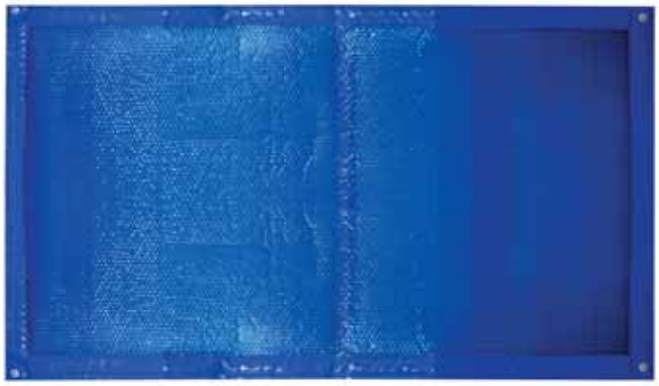
PS. Pool dimensions should be increased by 1,20 m for overflow pools; whereas by 0,6 m for skimmer pools.

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^3
Solar Cover, in roll per m^2	**1211101**			
Width: 2 m. (Welded price is double).				

PS. Please ask for prices of Solar Covers in special shape.



Cover Accessories

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Retractable anchor	**121101**	1	0,062	
• Dynamometric Spring. AISI 304 grade stainless steel	**121102**	1	0,144	
• Manuel Vacuum Pump. Used for discharge of rain water on the cover.	**12114**	1		

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Motorized Pool Cover

COVERTEC Pool Cover.
Blue PVC 650 gr/m². 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 enviroments, 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/ box	Weight Kg	Volume m^3
• 3 x 6 m Pool	**12210**	1		
• 4 x 8 m Pool	**12211**	1		
• 5 x 10 m Pool	**12212**	1		
• 6 x 12 m Pool	**12213**	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

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Motorized Pool Cover

Automatic PVC Slatted Pool Cover. Made of PVC profiles, 24 V Above-groun 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^3
• 3 x 6 m Pool - White	**12220**			
• 4 x 8 m Pool - White	**12221**			
• 5 x 10 m Pool - White	**12222**			
• 6 x 12 m Pool - White	**12223**			
• 3 x 6 m Pool - Solar Blue	**12224**			
• 4 x 8 m Pool - Solar Blue	**12225**			
• 5 x 10 m Pool - Solar Blue	**12226**			
• 6 x 12 m Pool - Solar Blue	**12227**			

PS. This is a no-stock item. Produced according to order.

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Cover Reels

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Cover Reel. Made of	**12113**	1	6,100	0,047
ABS plastic with cover tie set. w/o Bar				
• Ditto, made of	**12115**	1		
stainless steel with cover tie set (excluding bar)				
• 3 x 2 m Aluminium	**121131**	1	6,394	0,039
Telescopic Cover Bar.				

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/ box	Weight Kg	Volume m^3
Ice Barrier	**1297105**	1		

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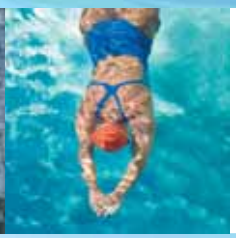

13	Valves, Unions and Fittings	260
14	Olympic Pool Accessories	279

Ball Valves

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^3
• d.20 mm - Slip connection	**131111**	88	23,050	0,094
• d.25 mm - Slip connection (NEW)	**131112**	78	27,160	0,094
• d.32 mm - Slip connection (NEW)	**131113**	20	7,900	0,017
• d.40 mm - Slip connection (NEW)	**131114**	12	7,800	0,017
• 0,5 - Threaded	**131111T**	88	23,050	0,094
• 0,75 - Threaded	**131112T**	78	27,160	0,094
• 1" - Threaded	**131113T**	20	7,900	0,017
• 1,25" - Threaded	**131114T**	12	7,800	0,017

Product Video

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^3
• d.50 mm - Slip connection	**131115L**	6	4,620	0,013
• d.63 mm - Slip connection	**131116L**	6	7,542	0,021
• d.75 mm - Slip connection	**131117L**	2	3,680	0,016
• d.90 mm - Slip connection	**131118L**	2	3,660	0,016
• d.110 mm - Slip connection	**131119L**	1	6,240	0,018
• 1,5" - Threaded	**131115LT**	6	4,620	0,013
• 2" - Threaded	**131116LT**	6	7,542	0,021
• 2,5" - Threadedi	**131117LT**	2	3,680	0,016
• 3" - Threaded	**131118LT**	2	3,660	0,016
• 4" - Threaded	**131119LT**	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^3
• d.50 mm	**131415**	6	3,900	0,013
• d.63 mm	**131416**	6	6,200	0,021
• d.75 mm	**131417**	2	3,000	0,016
• d.90 mm	**131418**	2	3,030	0,016

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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/ box	Weight Kg	Volume m^3
• d.32 mm	**131123**	20	7,900	0,017
• d.40 mm	**131124**	12	7,800	0,017
• d.50 mm	**131125L**	6	4,620	0,013
• d.63 mm	**131126L**	6	7,542	0,021
• d.75 mm	**131127L**	2	3,000	0,016
• d.90 mm	**131128L**	2	3,060	0,016
• d.110 mm	**131129L**	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/ box	Weight Kg	Volume m^3
• 1"	**131123T**	20	7,900	0,017
• 1,25"	**131124T**	12	7,800	0,017
• 1,5"	**131125LT**	6	4,620	0,013
• 2"	**131126LT**	6	7,542	0,021
• 2,5"	**131127LT**	2	3,680	0,016
• 3"	**131128LT**	2	3,660	0,016
• 4"	**131129LT**	1	6,240	0,018

UPVC Automatic Ball w/Actuator Valves

UPVC Automatic Ball w/Actuator Valves
Ø50 - Ø63 mm with optional wifi control

131115LGA

131116LGA

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø50 mm Motorized Valve	**131115LGA**	1	1,602	0,008
• Ø63 mm Motorized Valve	**131116LGA**	1	1,876	0,008

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/ box	Weight Kg	Volume m^3
• Ø50 mm Motorized Valve	**131115LEA**	1	1,602	0,008
• Ø63 mm Motorized Valve	**131116LEA**	1	1,876	0,008

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3-Way Valves

Three Way Disc Valve.
Made of ABS. Slip Connection.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Three Way Disc Valve - Ø50 mm	**13171**	1	1,602	0,008
• Three Way Disc Valve - Ø63 mm (NEW)	**13172**	1	1,876	0,008

Mini Valves

PP Mini Irrigation Valve.
Handle from ABS PN16.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1" x 0,75 Male-Female Valve	**131210**	100	19,600	0,055
• 0,75 Male-Female Valve	**131211**	100	18,700	0,055
• 1" Male-Female Valve	**131212**	100	20,800	0,055
• 1" x 0,75 Female-Female Valve	**131210D**	100	19,200	0,055
• 0,75 Female-Female Valve	**131211D**	100	18,400	0,055
• 1" Female-Female Valve	**131212D**	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^3
• Ø63 mm	**131600**	1	2,470	0,094
• Ø75 mm (NEW)	**131601**	1	3,250	0,094
• Ø90 mm (NEW)	**131602**	1	5,270	0,124
• Ø110 mm	**131603**	1	6,530	0,124
• Ø125 mm	**131604**	1	8,770	0,124
• Ø140 mm	**131605**	1	9,100	0,124
• Ø160 mm	**131606**	1	12,100	0,124
• Ø200 mm (NEW)	**131607**	1	17,300	0,124
• Ø225 mm (NEW)	**131608**	1	17,800	0,124
• Ø250 mm	**131609**	1	36,200	0,124
• Ø280 mm	**131610**	1	40,100	0,124
• Ø315 mm	**131611**	1	46,100	0,124

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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/ box	Weight Kg	Volume m^3
• 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 PROPOTIONAL MODELS.

Check Valves - Wafer Check Valves

UPVC Swing Check Valves. Two piece body. Complete with bolts.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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.

NEW !

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Ø63 mm Slip connection	**131500G**	1		

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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^3
• Ø50 mm	**131315**	6	4,330	0,013
• Ø63 mm	**131316**	6	5,810	0,022
• Ø75 mm	**131317**	2	3,920	0,016
• Ø90 mm	**131318**	2	3,780	0,016
• Ø50 mm - Transparent	**131315PC**	6	4,330	0,013
• Ø63 mm - Transparent	**131316PC**	6	5,800	0,022
• Ø75 mm - Transparent	**131317PC**	2	3,920	0,016
• Ø90 mm - Transparent	**131318PC**	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^3
• Ø250 mm, circular (10")	**135601**	1		
• 250 x 375 mm, prismatic (12")	**135602**	1		

Sight Glass

"Union Sight Glass" In UPVC.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• d.50 mm	**134204**			
• d.63 mm	**134205**			
• d.75 mm	**134206**			
• d.90 mm	**134207**			
• d.110 mm	**134208**			

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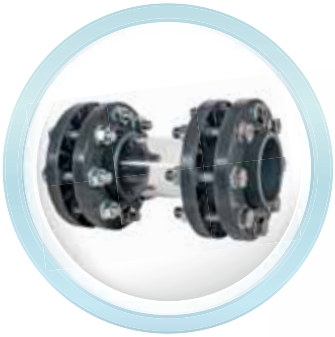
Sight Glass

“Flanged Sight Glass”

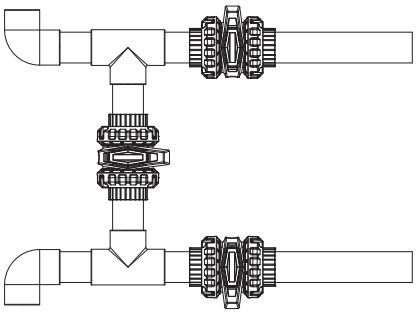
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• d.90 mm	**134220**			
• d.110 mm	**134221**			
• d.125 mm	**134222**			
• d.140 mm	**134223**			
• d.160 mm	**134224**			
• d.200 mm	**134225**			
• d.225 mm	**134226**			



UPVC By-Pass Kit

UPVC By-Pass Kit
Easy mount valve and fittings kit for installation of BY-Pass lines to auxilary equipment such as heat pumps, salt chlorinators, UV strelizers etc. Complete with 125 ml UPVC glue and 100 ml cleaner.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **KIT BY-PASS DIAMETER 50 mm**	**13543BP**			
Valve (3x), Tee (2x), Elbow (2x),				
UPVC Tube, UPVC Glue 125ml (1x) and				
Cleaner 100ml (1x)				
• **KIT BY-PASS DIAMETER 63 mm**	**13547BP**			
Valve (3x), Tee (2x), Elbow (2x),				
UPVC Tube, UPVC Glue 125ml (1x) and				
Cleaner 100ml (1x)				



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UPVC Fittings - Elbow

NEW !

"Elbow, 90°" PN16 up to size 160 mm. Bigger size PN10.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø20 mm	**133101**	250	4,000	0,021
• Ø25 mm	**133102**	500	5,500	0,021
• Ø32 mm	**133103**	250	17,500	0,094
• Ø40 mm	**133104**	144	3,400	0,021
• Ø50 mm (NEW)	**133105**	180	25,380	0,034
• Ø63 mm (NEW)	**133106**	100	20,700	0,034
• Ø75 mm	**133107**	80	24,400	0,124
• Ø90 mm	**133108**	50	25,800	0,124
• Ø110 mm	**133109**	30	23,800	0,124
• Ø125 mm	**133110**	16	15,600	0,124
• Ø140 mm	**133111**	12	15,400	0,124
• Ø160 mm	**133112**	8	18,300	0,124
• Ø200 mm	**133113**	4	14,660	0,124
• Ø225 mm	**133114**	3	13,300	0,124
• Ø250 mm (NEW)	**133115**	1	7,710	0,094
• Ø280 mm	**133116**	1	9,800	0,124
• Ø315 mm	**133117**	1	14,440	0,124

"Elbow, 45°" PN16 up to size 160 mm. Bigger size PN10.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø20 mm	**133201**	600	3.400	0,021
• Ø25 mm	**133202**	500	3,400	0,021
• Ø32 mm	**133203**	320	4,200	0,021
• Ø40 mm	**133204**	150	4,200	0,021
• Ø50 mm	**133205**	225	24,070	0,940
• Ø63 mm	**133206**	120	19,800	0,940
• Ø75 mm	**133207**	100	24,180	0,124
• Ø90 mm	**133208**	50	18,080	0,124
• Ø110 mm	**133209**	30	17,120	0,124
• Ø125 mm	**133210**	18	14,340	0,124
• Ø140 mm	**133211**	15	16,380	0,124
• Ø160 mm	**133212**	9	16,400	0,124
• Ø200 mm	**133213**	4	14,300	0,124
• Ø225 mm	**133214**	4	15,260	0,124
• Ø250 mm	**133215**	1	6,100	0,124
• Ø280 mm	**133216**	1	8,980	0,124
• Ø315 mm	**133217**	1	10,880	0,124

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UPVC Fittings - Tee

"Tee"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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

UPVC Fittings - Reducing Tee

"Reducing Tee"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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

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UPVC Fittings - Reducing Tee

"Reducing Tee"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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^3
• 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^3
• 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**			

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UPVC Fittings - Adaptors

"Female Threaded Adaptor"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø50 mm	**133405**	120	13,600	0,049
• Ø63 mm	**133406**	87	15,010	0,049
• Ø75 mm	**133407**	120	25,760	0,094
• Ø90 mm	**133408**	60	19,600	0,094
• Ø110 mm	**133409**	44	13,460	0,094

"Male Threaded Adaptor"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø50 mm	**133505**	156	17,720	0,049
• Ø63 mm	**133506**	116	18,040	0,049
• Ø75 mm	**133507**	120	26,700	0,094
• Ø90 mm	**133508**	75	25,860	0,094
• Ø110 mm	**133509**	36	17,000	0,094

UPVC Sockets

"Socket"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø20 mm	**133821**	500	7,000	0,021
• Ø25 mm	**133822**	500	10,500	0,021
• Ø32 mm	**133823**	300	10,650	0,021
• Ø40 mm	**133824**	250	15,500	0,021
• Ø50 mm	**133805**	150	13,100	0,049
• Ø63 mm	**133806**	87	13,400	0,049
• Ø75 mm	**133807**	96	22,300	0,094
• Ø90 mm	**133808**	60	22,540	0,094
• Ø110 mm	**133809**	36	21,480	0,094
• Ø125 mm	**133804**	24	14,340	0,094
• Ø140 mm	**133803**	15	14,380	0,094
• Ø160 mm	**133802**	12	16,660	0,094
• Ø200 mm	**133810**	5	11,320	0,094
• Ø225 mm	**133811**	3	10,220	0,094
• Ø250 mm	**133812**	2	8,910	0,124
• Ø280 mm	**133813**	1	6,120	0,124
• Ø315 mm	**133814**	1	7,100	0,124

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UPVC Fittings - Reducing Sockets

"Reducing Socket"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø25 - Ø20 mm	**133602**	250		
• Ø32 - Ø25 mm	**133604**	1000		
• Ø40 - Ø32 mm	**133603**	600		
• Ø50 - Ø32 mm	**133601**	200		
• Ø50 - Ø40 mm	**1336095**	200	16,800	0,094
• Ø63 - Ø50 mm	**133605**	252	16,100	0,049
• Ø75 - Ø63 mm	**133606**	150	12,400	0,049
• Ø90 - Ø75 mm	**133607**	88	12,496	0,049
• Ø110 - Ø90 mm	**133608**	48	12,912	0,049
• Ø75 - Ø50 mm	**1336061**	150	15,100	0,049
• Ø90 - Ø63 mm	**1336071**	88	15,900	0,049
• Ø110 - Ø75 mm	**1336081**	48	13,800	0,049
• Ø110 - Ø63 mm	**1336082**	48	13,700	0,049
• Ø125 - Ø90 mm	**1336091**	36	15,190	0,049
• Ø125 - Ø110 mm	**133609**	36	10,440	0,049
• Ø140 - Ø90 mm	**133612**	23	18,800	0,049
• Ø140 - Ø110 mm	**1336121**	23	6,400	0,049
• Ø140 - Ø125 mm	**1336122**	23	8,700	0,049
• Ø160 - Ø90 mm	**133610**	15	11,320	0,049
• Ø160 - Ø110 mm	**133611**	15	10,180	0,049
• Ø160 - Ø140 mm	**13366111**	15	8,940	0,049
• Ø200 - Ø160 mm	**133672**	14	17,500	0,094
• Ø200 - Ø140 mm	**133671**	14		0,094
• Ø225 - Ø200 mm	**133681**	12	16,300	0,094
• Ø225 - Ø160 mm	**133682**	12	15,400	0,094
• Ø250 - Ø225 mm	**133683**	8	13,900	0,094
• Ø280 - Ø250 mm	**133686**			
• Ø315 - Ø250 mm	**133693**			

"Conical Socket"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø75 - Ø50 mm	**1339071**			
• Ø75 - Ø63 mm	**1339072**			
• Ø90 - Ø63 mm	**1339082**			
• Ø110 - Ø63 mm	**1339091**			
• Ø160 - Ø110 mm	**13390121**			
• Ø200 - Ø110 mm	**13390131**			

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UPVC Fittings - Caps

"Caps"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 2,5"	**133722**			
• 3"	**133723**			
• 4"	**133724**			

"Caps Male Threaded"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1,5" Male Threaded w/oring	**133728T**			
• 2" Male Threaded w/oring	**133729T**			

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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^3
• d.20 mm	**132111**	250	11,400	0,021
• d.25 mm	**132112**	200	12,800	0,021
• d.32 mm	**132113**	150	13,400	0,021
• d.40 mm	**132114**	80	11,280	0,021
• d.50 mm	**132115**	100	19,600	0,094
• d.63 mm	**132116**	50	18,400	0,094
• d.75 mm	**132117**	30	22,300	0,094
• d.90 mm	**132118**	30	19,600	0,094
• d.110 mm	**132119**	20	30,000	0,094

UPVC One Sided Threaded Union. O-Ring in EPDM.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• d.20 mm	**132111T1**	250	11,400	0,021
• d.25 mm	**132112T1**	200	12,800	0,021
• d.32 mm	**132113T1**	150	13,400	0,021
• d.40 mm	**132114T1**	80	11,280	0,021
• d.50 mm	**132115T1**	100	19,600	0,094
• d.63 mm	**132116T1**	50	18,400	0,094
• d.75 mm	**132117T1**	40	22,300	0,094
• d.90 mm	**132118T1**	30	19,600	0,094
• d.110 mm	**132119T1**	20	30,000	0,094

UPVC Both Sided Threaded Union. EPDM O-Ring.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 0,5	**132111T**	250	11,400	0,021
• 0,75	**132112T**	200	12,800	0,021
• 1"	**132113T**	150	13,400	0,021
• 1,25"	**132114T**	80	11,280	0,021
• 1,5"	**132115T**	100	19,600	0,094
• 2"	**132116T**	50	18,400	0,094
• 2,5"	**132117T**	40	22,300	0,094
• 3"	**132118T**	30	19,600	0,094
• 4"	**132119T**	20	30,000	0,094

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Unions

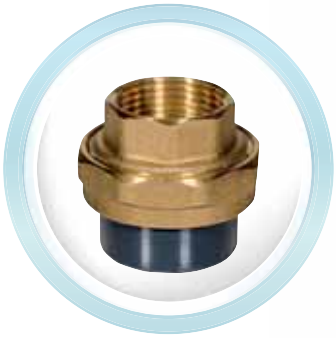
UPVC Unions. Female socket / Male threaded.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1,5" - d.50 mm	**132121**	100	24,200	0,094
• 2" - d.63 mm	**132122**	50	21,800	0,094
• 1,5" - d.63 mm Male Adapter.	**132123**	50	21,400	0,094
• 1,5" - d.50 mm*	**1321211**	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/ box	Weight Kg	Volume m^3
• d.20 mm	**133450**			
• d.25 mm	**133451**			
• d.32 mm	**133452**			
• d.40 mm	**133453**			
• d.50 mm	**133454**			
• d.63 mm	**133455**			



UPVC Fittings - Flange Adaptors

"UPVC Flange Adaptor"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø50 mm	**133927**	200	13,600	0,049
• Ø63 mm	**133928**	100	11,200	0,049
• Ø75 mm	**133929**	70	12,400	0,049
• Ø90 mm	**133908**	42	10,850	0,049
• Ø110 mm	**133909**	25	10,380	0,049
• Ø125 mm	**133910**	15	9,400	0,049
• Ø140 mm	**133911**	14	8,940	0,049
• Ø160 mm	**133912**	16	18,320	0,094
• Ø200 mm	**133913**	8	12,640	0,094
• Ø225 mm	**133914**	8	14,740	0,094
• Ø250 mm (NEW)	**133915**	5	14,800	0,124
• Ø280 mm	**133916**	4	11,700	0,124
• Ø315 mm	**133917**	2	8,500	0,124

NEW !

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Unions

“Female Threaded Flange Adaptor"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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

“UPVC Flange”

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• Ø110 mm	**1331109**	34		
• Ø125 mm	**1331110**	23		
• Ø140 mm	**1331111**	23		
• Ø160 mm	**1331112**	25		
• Ø200 mm	**1331113**			
• Ø225 mm	**1331114**			

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Flange Adaptors and Flanges

"Vibration Flange"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• For d.38 mm hose-1,5"	**136115**	100	24,200	0,094
• For d.38 mm hose-1,5" used above adaptor	**136125**	50	21,800	0,094
		50	21,400	0,094

136115

136125

UPVC Wall Conduit Flange.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø63 mm	**041602**			
• Ø75 mm	**041603**			
• Ø90 mm	**041604**			
• Ø110 mm	**041605**			

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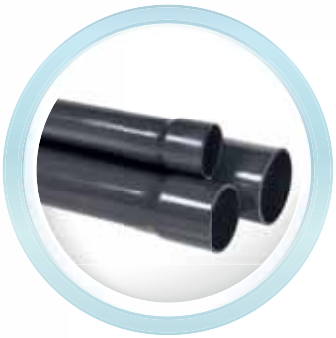
UPVC Pipes - 6 bars

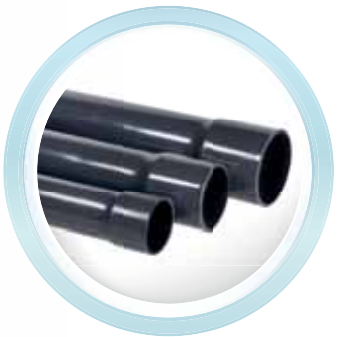
UPVC Solvent Cement Socket Pressure Pipes for Clean Water:
UPVC Clean Water Pipes have a smooth and a regular surface. Resistant to pressure and atmosphere conditions. With its high durability to chemicals, it is suitable for all kinds of liquid flow. Manufactured according to the norms of TS274, EN 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 regulary at the laboratory.



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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**			

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UPVC Pipes - 10 bars - 16 bars

UPVC Solvent Cement Socket Pressure Pipes for Clean Water. 10 BARS

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
• 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**			

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UPVC Solvent Cements

13530

"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^3
• Fitvalf 1000 ml	**13525**	12		
• Fitvalf 500 ml	**13527**	12	6,900	0,011
• Fitvalf 250 ml	**13529**	24	7,600	0,011
• Fitvalf 125 ml	**13537**	16		
• CHRISTY'S Solvent Cement 1 KG	**13570**			
• Fitvalf UPVC Solvent Cement 125 ml Tube	**13580**			

"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^3
• Fitvalf Pool 1000 ml	**13531**	6		
• Fitvalf Pool 500 ml	**13550**	12	7,200	0,012
• Fitvalf Pool 250 ml	**13554**	24	6,900	0,011
• Fitvalf Pool 125 ml	**13556**	16	7,600	0,011
• Hydrodif Glue for UPVC Flex Tubes-500 gr	**13530**			

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^3
1 kg	**13540**			

UPVC Pipe Clamps

UPVC Pipe Clamps.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Ø20 mm	**133350**			
• Ø25 mm	**133351**			
• Ø32 mm	**133352**			
• Ø40 mm	**133353**			
• Ø50 mm	**133354**			
• Ø63 mm	**133355**			
• Ø75 mm	**133356**			
• Ø90 mm	**133357**			
• Ø110 mm	**133358**			
• Ø125 mm	**133359**			
• Ø140 mm	**133360**			
• Ø160 mm	**133361**			

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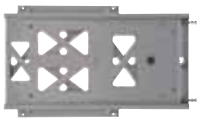
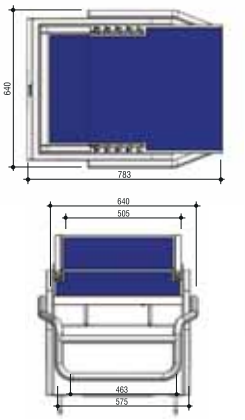
Starting Platforms

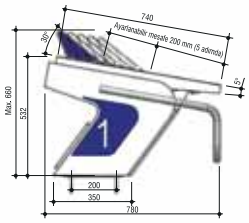
Track-Start Platforms. Made of FRP, AISI 304 stainless steel handles. Foot rest pad can be adjusted to front or back. Platform in non-slip and large surface.

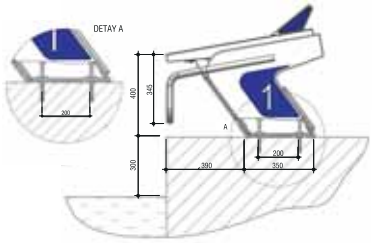
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Height: 400 mm	**14141**	1		
• Relay Sensor, Mechatronic	**14141DS**	1		
• Height: 700 mm (NEW)	**14142**	1		



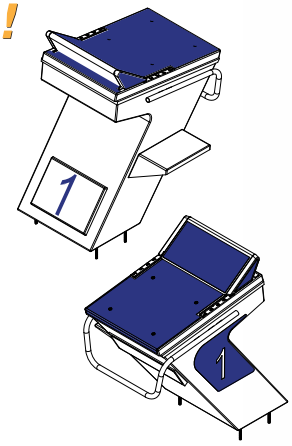
14141DS



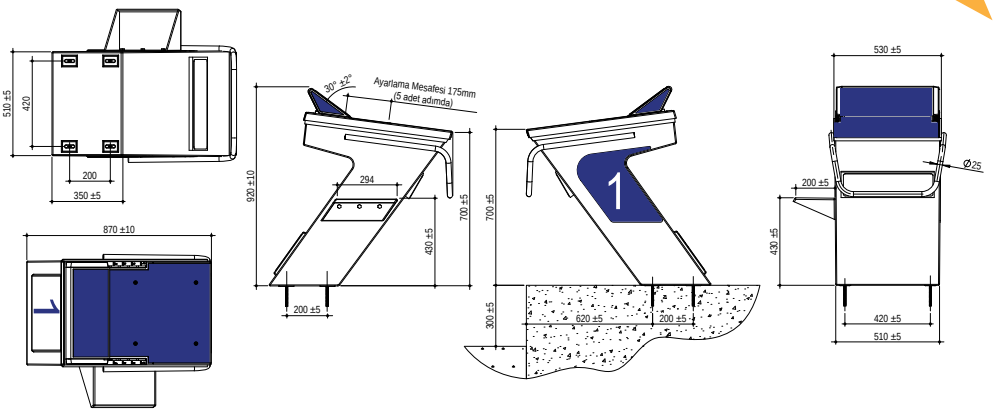




NEW !



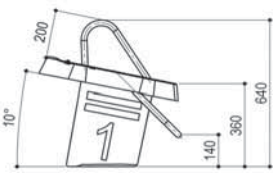
14142

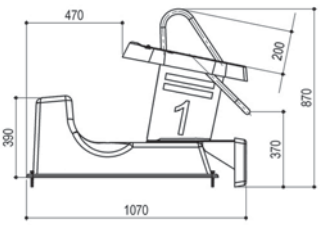


Fixed Starting Platforms. Made of FRP, AISI 304 grade stainless steel top and front handles. Height can be adjusted up to 700 mm through the elevation platform. FRP turning panels can be adapted to front side of the platform.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Height: 400mm	**14151**	1		
• Height: 700mm	**14152**	1		
• FRP Turning Panel (Optional)	**14153**	1		

14151





14151

14153

View with elevation platform

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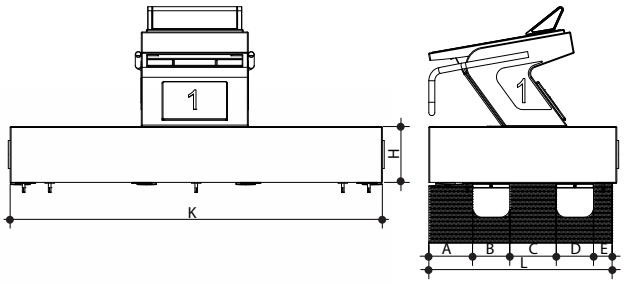
Starting Platforms

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^3
• 2000 x 1000 mm	**141411**	1		
• 2500 x 1000 mm	**141412**	1		

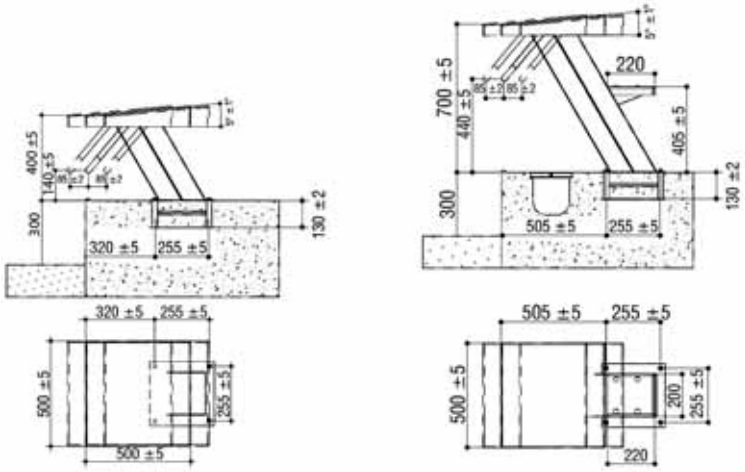
PS: For platform connection, the dimensions of "A, B, C, D and E" must be given.



Special Anchor (Optional)

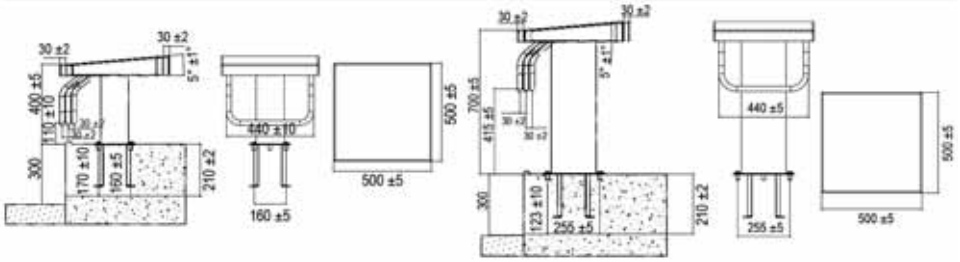
Starting Platforms; Adjustable. Base in AISI 304 grade stainless steel, platform in fiberglass reinforced polyester with non-slip finish. 500 x 500 mm. Special anchor to be installed in concrete slab is upon request.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Height : 700 mm	**14111**	1	23,112	0,340
• Height : 400 mm	**14112**	1	17,200	0,375



Adjustable Starting Platform. AISI 304 grade stainless steel cylindrical body. The platform can by 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^3
• Height : 400 mm	**14113**	1		
• Height : 700 mm	**14114**	1		



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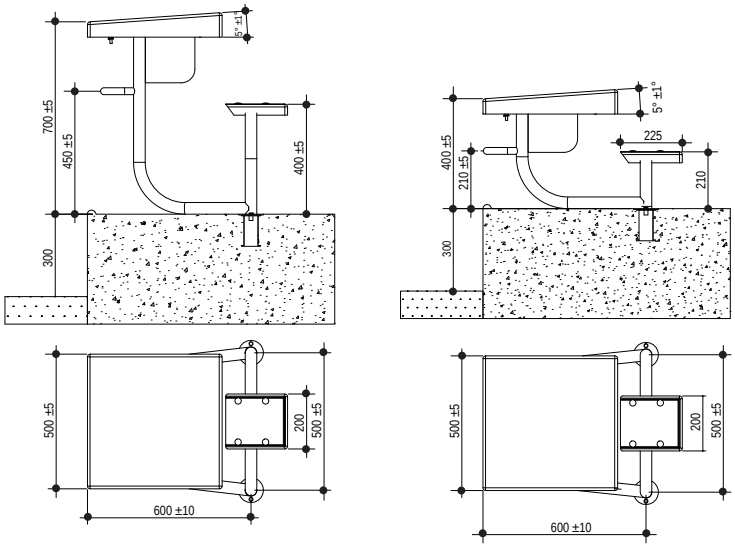
Starting Platforms

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.

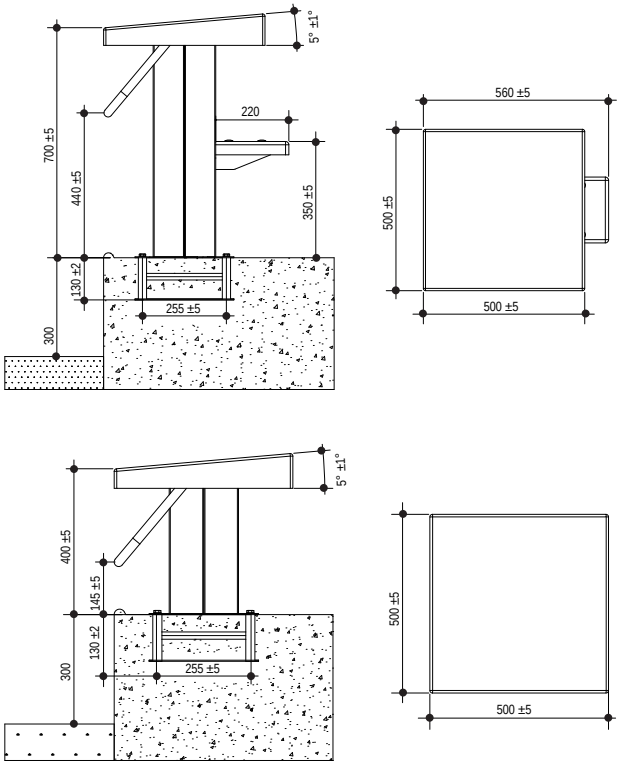
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Height : 700 mm	**14121**	1		
• Height : 400 mm	**14122**	1		

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/ box	Weight Kg	Volume m^3
• Height : 700 mm	**14131**	1		
• Height : 400 mm	**14132**	1		



Special Anchor (Optional)

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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^3
	14410	2	1,672	0,008

Inclined Anchors for Finnish Type Swimming Pools.
In AISI 304 grade stainless steel, for Ø42 mm pipe.

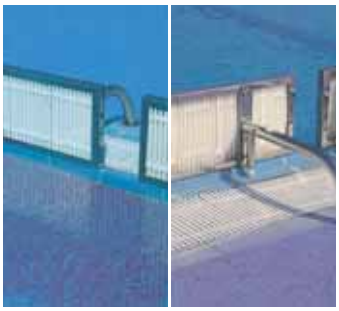
Description	Code	Pieces/ box	Weight Kg	Volume m^3
	14420	2	1,020	0,008

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^3
	14430	2	1,240	0,008

Turning Panels

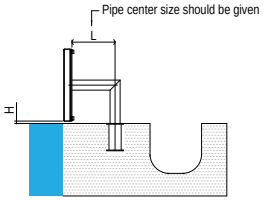
Turning Panels for Overflow Competition Pools.
Frame in AISI 304 grade stainless steel frame screened with plastic grating. Height 300 mm.



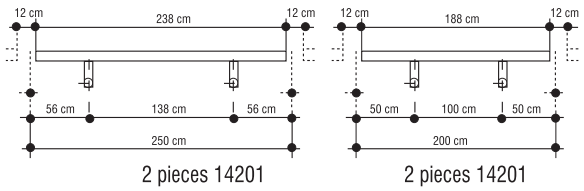
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Lane width : 2,0 m	**14210**	1	12,000	
• Lane width : 2,5 m	**14220**	1	14,000	
• Support for turning panels in AISI 304 grade stainless steel.	**14201**	2	7,000	

PS: Designed to be fixed with "14410" or "14420" anchors which are not included.

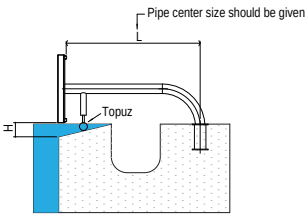
"L" and **"H"** should be dimensioned when ordering.



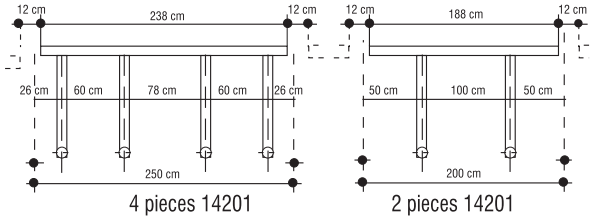
If length **"L"** is smaller than 500 mm



2 pieces 14201 2 pieces 14201



If length **"L"** is larger than 500 mm



4 pieces 14201 2 pieces 14201

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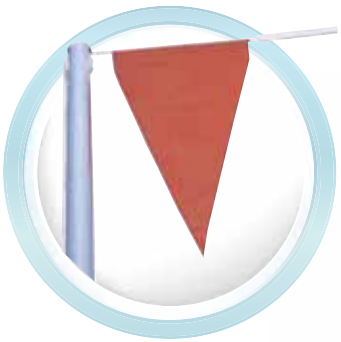
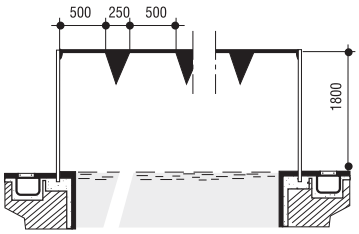
Post Set

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.

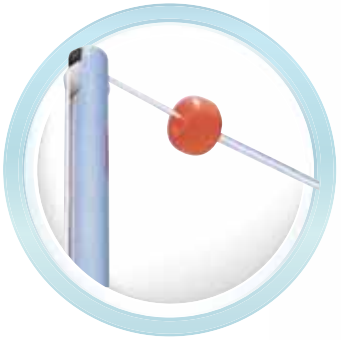


Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For pools of 12,5 m width	**14311**	1	16,000	0,060
• For pools of 25 m width	**14312**	1	14,000	0,050

PS: Designed to be fixed with "14410" or "14420" anchors which are not included.

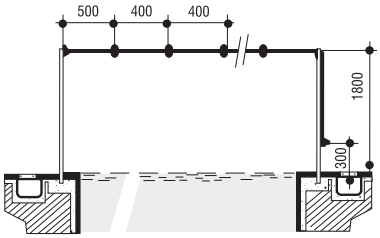


Set of False Start Posts. Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with plastic floats and nylon cord.



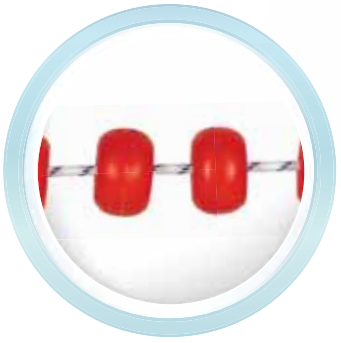
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For pools of 12,5 m width.	**14321**	1	12,000	0,057
• For pools of 25 m width.	**14322**	1	14,000	0,030

PS: Designed to be fixed with "14410" or "14420" anchors which are not included.
Two sets are necessary for a competition pool.

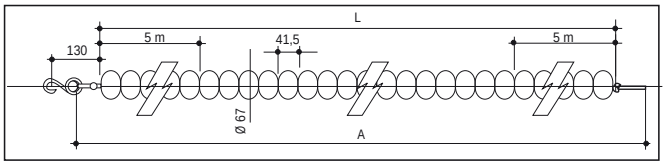


Floating Lanes

Rome Model. Complete with plastic floats, nylon line and 1 hook.



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14511**	1	8,700	0,135
• Length: 50 m	**14512**	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

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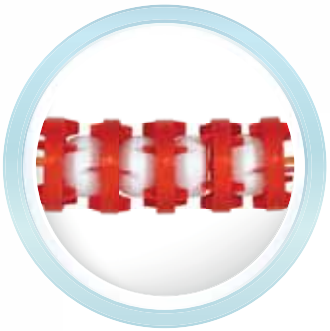
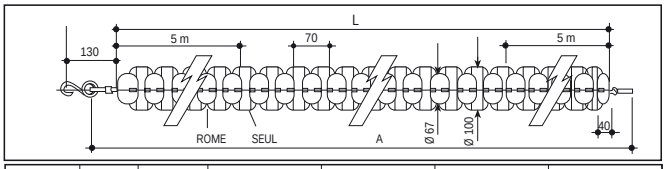
Floating Lanes

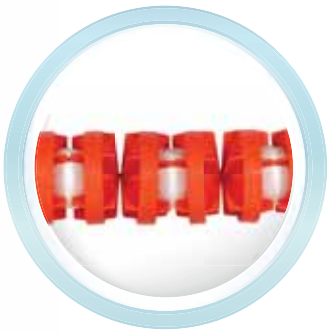


Seul Model. Complete with plastic floats, nylon line and 1 hook

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14521**	1	23,700	0,340
• Length: 50 m	**14522**	1	47,400	0,620

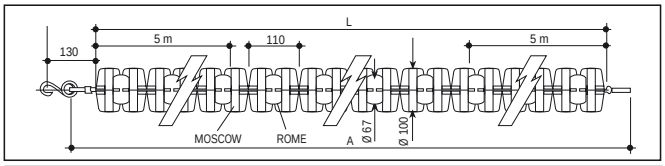


Code	L (m)	A (m)	Colored Seul Breakwaters total	White Rome Ball total	White Seul Breakwaters total	Colored Rome Ball total
14521	25	26	198	188	175	284
14522	50	51	206	188	744	745

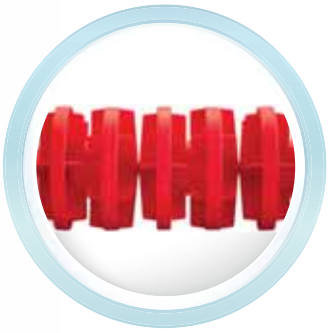


Moscow Model. Complete with plastic floats, nylon line and 1 hook

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14531**	1	22,150	0,340
• Length: 50 m	**14532**	1	44,300	0,620

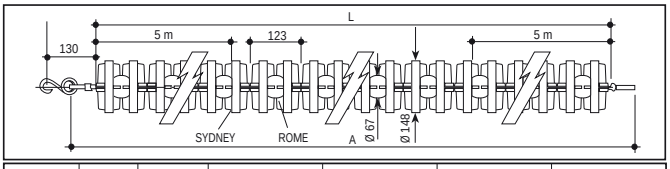


Code	L (m)	A (m)	Colored Moscow Breakwaters total	White Rome Ball total	White Moscow Breakwaters total	Colored Rome Ball total
14531	25	26	192	92	268	138
14532	50	51	200	92	732	374



Sydney Model. Complete with plastic floats, nylon line and 1 hook

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14541**	1		
• Length: 50 m	**14542**	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

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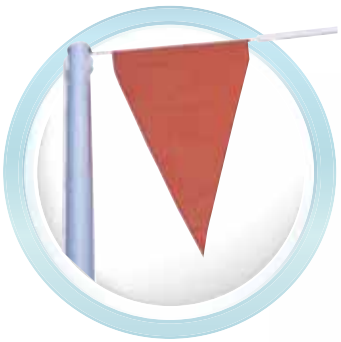
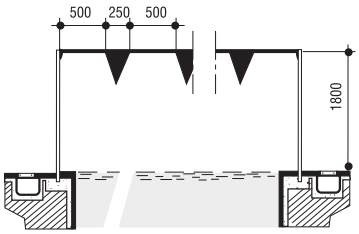
Post Set

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.

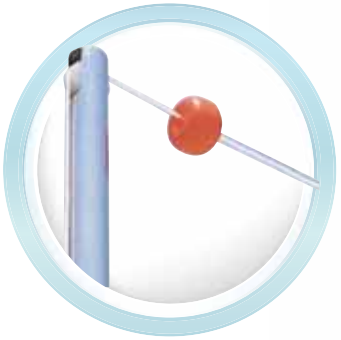


Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For pools of 12,5 m width	**14311**	1	16,000	0,060
• For pools of 25 m width	**14312**	1	14,000	0,050

PS: Designed to be fixed with "14410" or "14420" anchors which are not included.

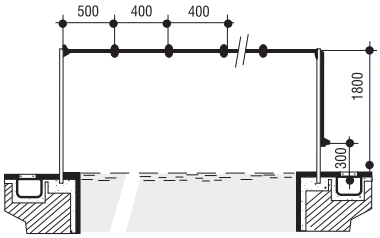


Set of False Start Posts. Composed of 2 posts Ø42 mm. in AISI 304 grade stainless steel. Height: 1,80 m. One of them is with a pulley and the other with a fixing element for cord. Complete with plastic floats and nylon cord.



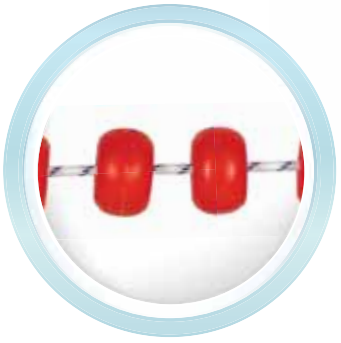
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• For pools of 12,5 m width.	**14321**	1	12,000	0,057
• For pools of 25 m width.	**14322**	1	14,000	0,030

PS: Designed to be fixed with "14410" or "14420" anchors which are not included.
Two sets are necessary for a competition pool.

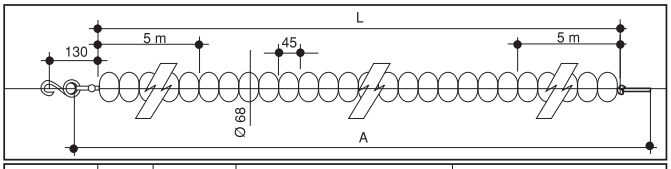


Floating Lanes

Rome Model. Complete with plastic floats, nylon line and 1 hook "14650"



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14511**	1	8,700	0,135
• Length: 50 m	**14512**	1	17,400	0,265



Code	L (m)	A (m)	# of floats - Rome, Colored	# of floats - Rome, White
14511	25	27	232	318
14512	50	52	232	868

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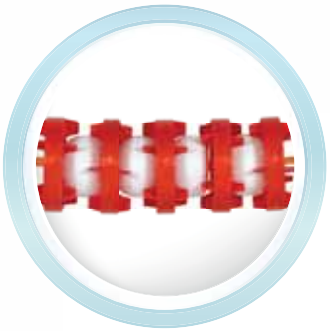
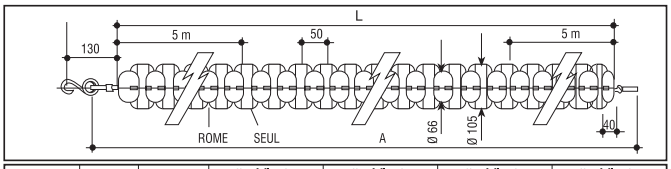
Floating Lanes



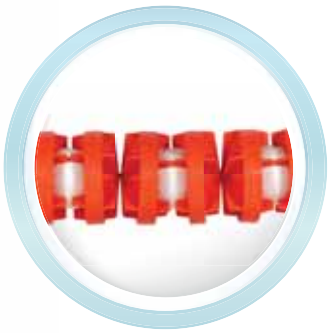
Seul Model. Complete with plastic floats, nylon line and 1 hook “14650”

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14521**	1	23,700	0,340
• Length: 50 m	**14522**	1	47,400	0,620



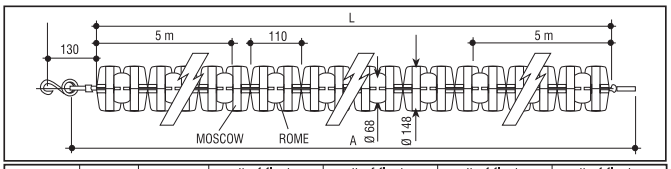
Code	L (m)	A (m)	# of floats Seul, Colored	# of floats Rome, White	# of floats Seul, White	# of floats Rome, Colored
14521	25	27	178	178	268	269
14522	50	52	178	178	714	715

PS: For FINA standarts, all floating lanes must be ordered with Stainless Steel line (14632).



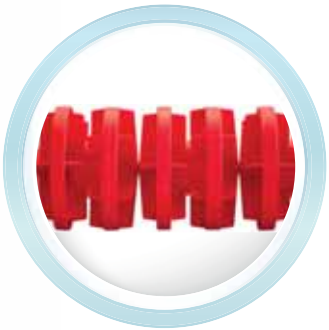
Moscow Model. Complete with plastic floats, nylon line and 1 hook “14650”

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Length: 25 m	**14531**	1	22,150	0,340
• Length: 50 m	**14532**	1	44,300	0,620



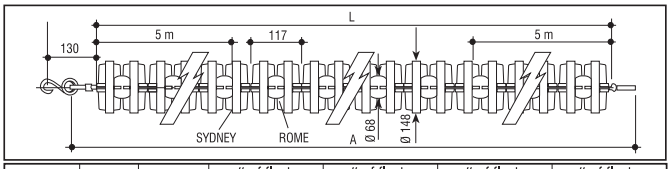
Code	L (m)	A (m)	# of floats Moscow, Colored	# of floats Rome, White	# of floats Moscow, White	# of floats Rome, Colored
14531	25	27	192	96	192	143
14532	50	52	192	96	192	378

PS: For FINA standarts, 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^3
• Length: 25 m	**14541**	1		
• Length: 50 m	**14542**	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 standarts, all floating lanes must be ordered with Stainless Steel line (14632).

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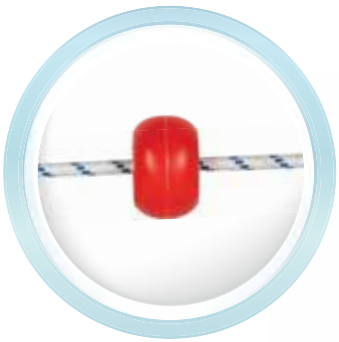
Floaters

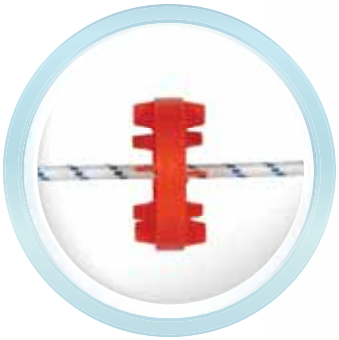
"Rome Model". Floater.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• White	**145101**	500	7,000	0,110
• Orange	**145102**	500	7,000	0,110
• Blue	**145103**	500	7,000	0,110
• Red	**145104**	500	7,000	0,110



"Seul Model". Floater.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• White	**145201**	150	7,000	0,080
• Orange	**145202**	150	7,000	0,080
• Blue	**145203**	150	7,000	0,080
• Red	**145204**	150	7,000	0,080



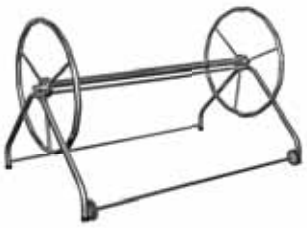
Floating Lane Accessories

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/ box	Weight Kg	Volume m^3
	14680	1		

Float Lane Roller. Made of AISI 304 grade stainless steel, Ø42 pipe. Width: 1,20 m.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Width: 1,20 m	**14660**	1	25,000	2,200
• Width: 1,80 m	**14661**	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/ box	Weight Kg	Volume m^3
• Nylon.	**14631**	160 m	8,420	0,025
Ø7 mm. Price per meter.				
• Plastified Stainless Steel.	**14632**			
Ø5 mm. Price per meter.				

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Floating Lane Accessories

Ergonomic Seperator 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^3
	14643			

Separator Vibration Damping Spring. In AISI 316 grade stainless steel.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	14644	1	0,686	0,001

Floating Line Tensor with Spring. In chrome plated bronze.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	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^3
	14642	6	0,182	

Rope Anchor. Made of bronze. 0,75.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	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^3
	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^3
• 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^3
	14620	2	0,520	

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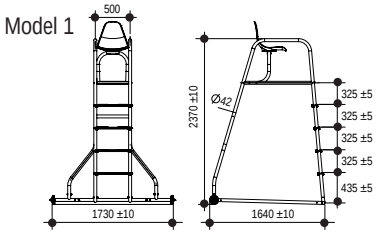
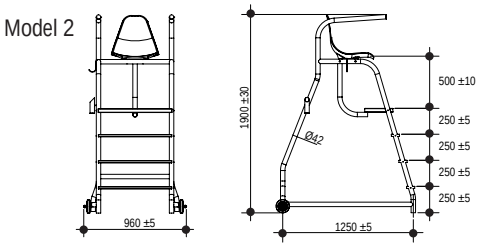
Floating Lane Accessories

Refree Seat. Made of AISI 304 grade stainless steel and Ø42 mm pipe.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Model 1	**14670**	1	0,566	0,001
• Model 2	**14671**	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.

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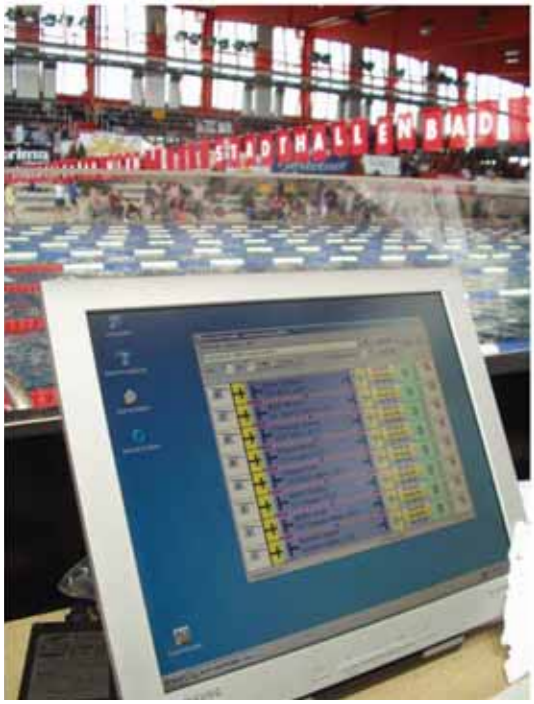
AUTOMATIC TIMING SYSTEMS FOR COMPETITION POOLS
ALGE TIMEMANAGER TM-SWIM

PC Software

Alge Swimtime Software provides the information of time-manager processor, with user friendly and visual interface. Available for all Windows Systems.



- User Friendly software
- Visual illustration
- Same layout with pool
- Free update for 10 years
- Back-up Battery
- Manage 16 swimlane
- Competitors Information

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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, 59,9999 seconds.

SWIM Terminal SWT3: Needs to be installed to each swimlane. The TimeManager automaticly 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.

Start Unit: Complete with integrated microphone and start buton.

Active (SPA) and Passive (SPP) Speakers. Each active speakers includes a amplifier and controls a passive speaker.

LED SCORE BOARDS :
Options for 1, 8, 10 lines, wall matrix video options and options for colored displays.

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.

Manuel Time Buttons:
Waterproof design, 2 m cable.

Track Start Blocks.
Made of FRP. Foot rest pad can be adjusted for ergonomic start.

Platform with Time Sensor: Can be adapted to available platforms. Starting time detection platform adaptor.

Backstroke Starting Kit.
Prevents the start through the glide from touching panel. Compatible with GEMAS Starting Platform

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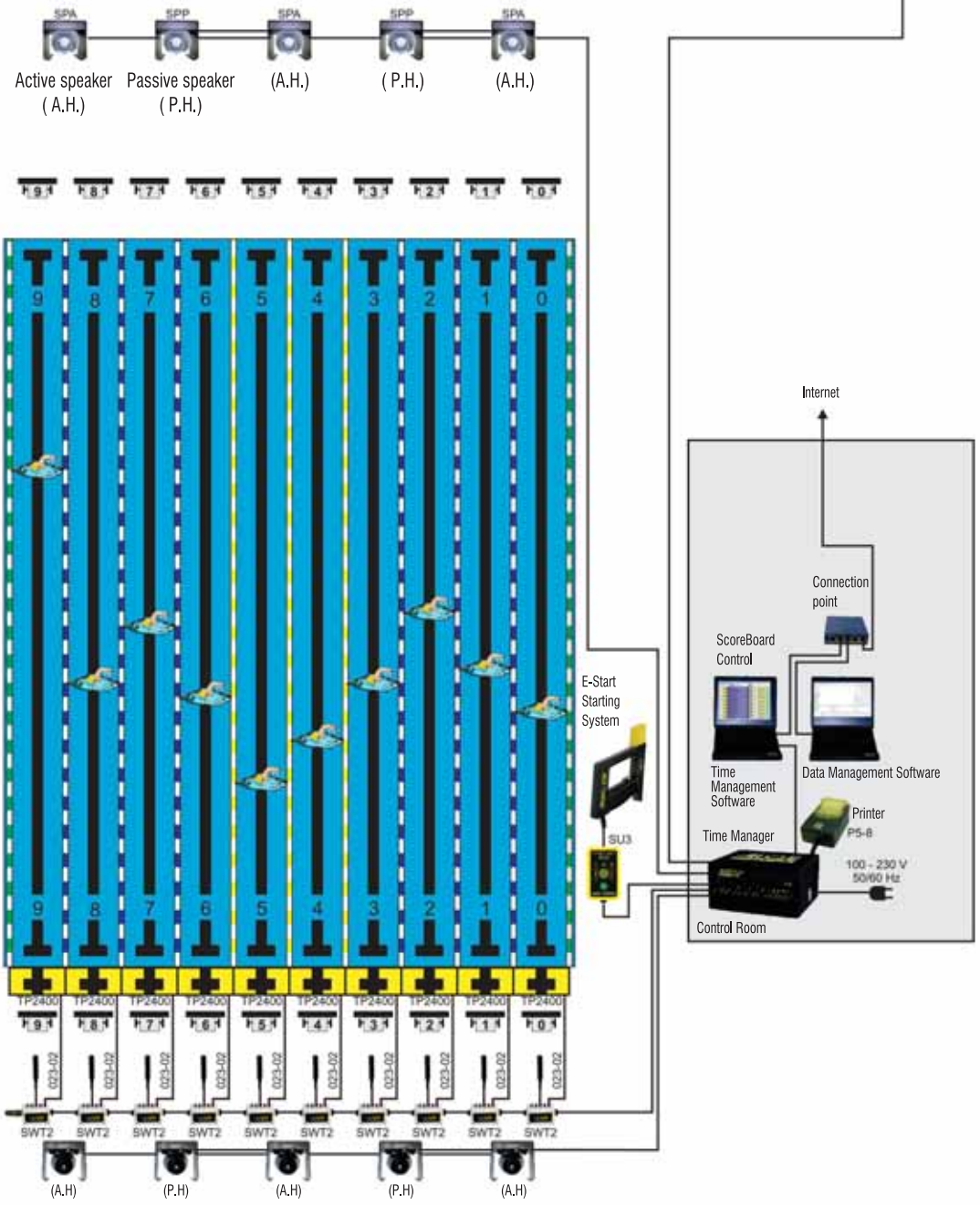
ALGE TIMING

SWIMTIME PACKAGE 1

SINGLE LINE DIGITAL SCOREBOARD

For 50 m pools, speaker is obligatory on the returning side.



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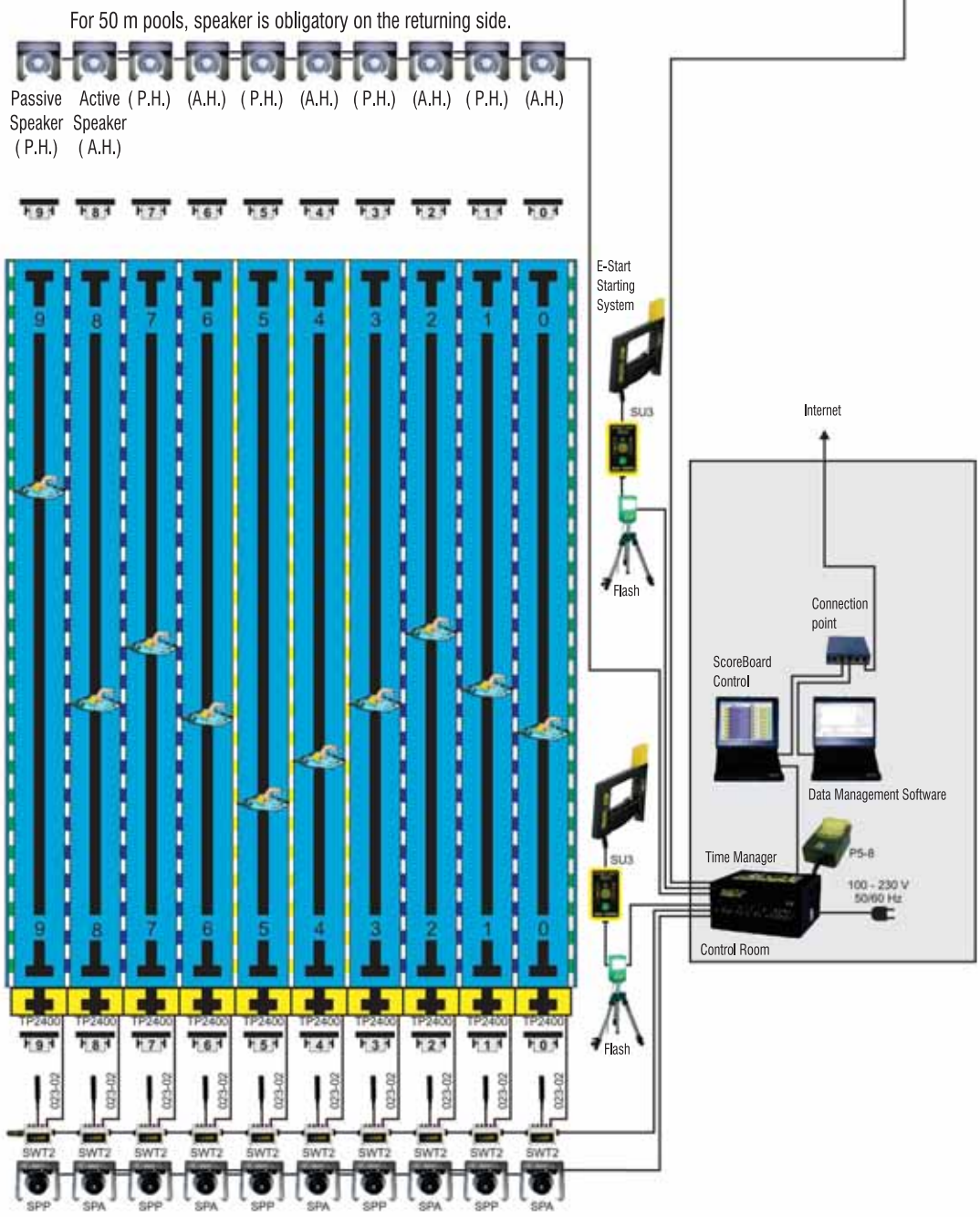
ALGE TIMING

SWIMTIME PACKAGE 2



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10 LINES MATRIX LED SCOREBOARD

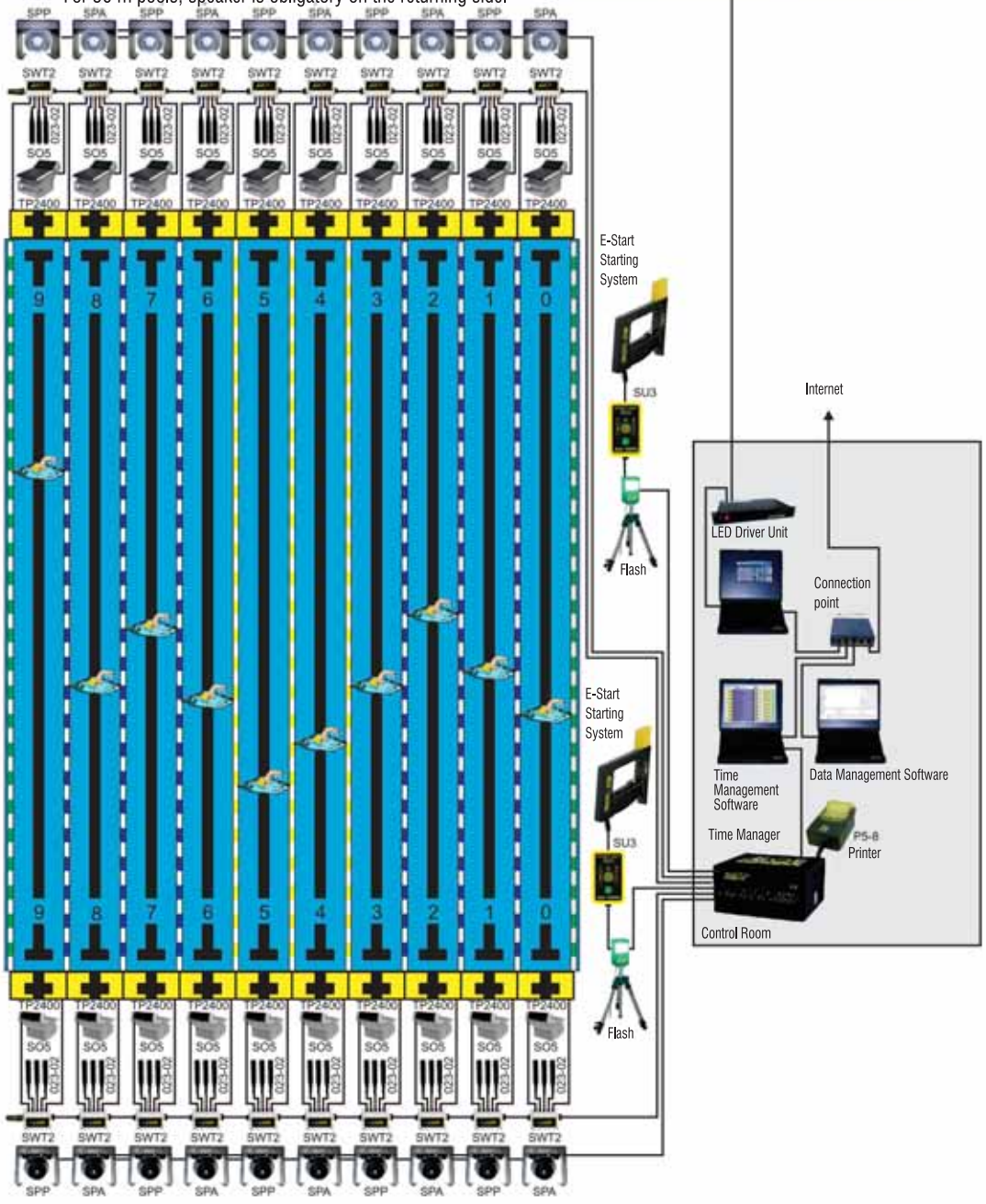
Below seen videowall is optional

ALGE TIMING

SWIMTIME OLIMPIC SYSTEM

SWIMTIME PACKAGE 3

For 50 m pools, speaker is obligatory on the returning side.



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Contents

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-FSOOTA	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
• **Magna'SSage:** Single mouth 0,008 heading jet nozzle.	**1516-4821**	1	0,062	
• **Magna'SSage:** 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			

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Massage Jets

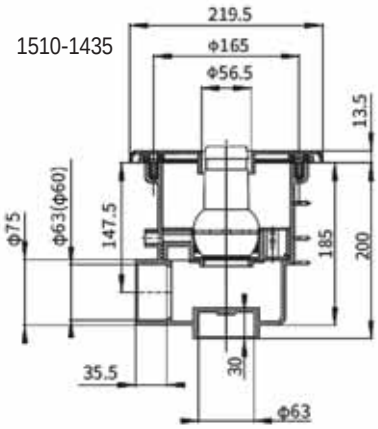
Massage Unit.
Bare unit. Can be installed as single or multiple wall-floor massage stations. Comes with air suction hose and wall-floor air regulator.

Description	Code	Pieces/ box	Weigh Kg	Volume m^3
• Model 1 - Ø40 mm	**1510-1435**	1		
• Model 2 - Ø28 mm	**1510-1436**			

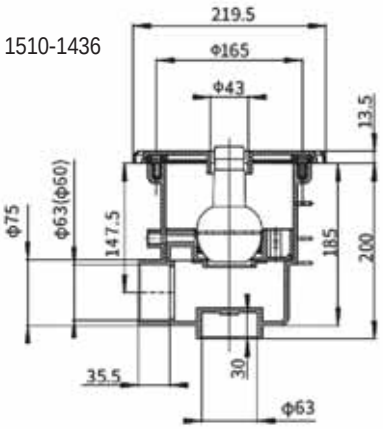
1510-1436

1510-1435

1510-1435

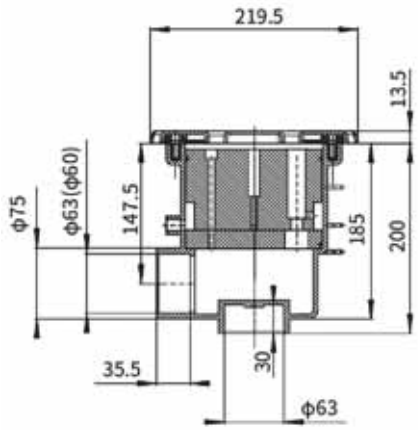


1510-1436



Massage Unit.
Used for massage from the floor.
Comes with air suction hose and wall-floor air regulator.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Model 3 - 5 x Ø19 mm	**1510-1437**	1		



"EM" Model Massage Jets. Water connection D.50, air connection D.32. Complete with adjustable type internal set.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
	1596601207	1	0,420	

"EM" Model Massage Jet Internal Set.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Adjustable type, Recommended Flow 1,5m^3/h	**1588090812**	1	0,090	
• Rotary type, Recommended Flow 1,5m^3/h	**1588090912**	1	0,090	

1588090812 1588090912

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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. F‹TT‹NGS.	**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	**1510-6201**	1	1,222	
Ø 152 mm external diameter				
Ø 90 mm Slip Connection				
Recommended Flow Rate 20 m³/h				

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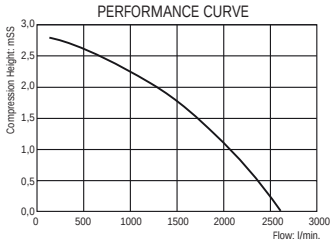
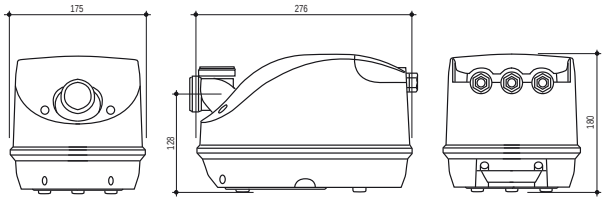
Air Blowers

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/ box	Weight Kg	Volume m³
Genesis Blower 1,2 kW	**15GB120-2NN-3**	1	2,792	0,011





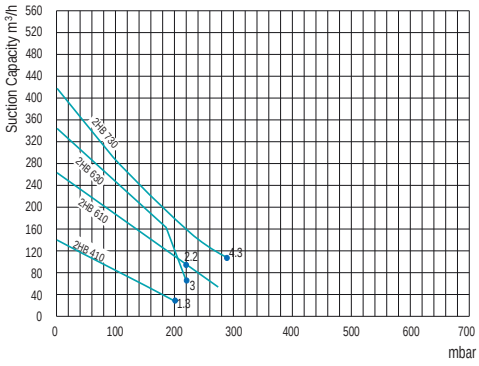
"Air Blower for Continuous Use"

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Blower 1.3 kW, Single Stage, 220/380V	**15410H26**	1	17,000	
• Blower 2.2 kW, Single Stage, 220/380V	**15610H16**	1	28,000	
• Blower 2.2 kW, Double Stage, 220/380V	**15420H46**	1	27,000	
• Blower 3 kW, Single Stage, 220/380V	**15630H26**	1	35,000	
• Blower 3 kW, Double Stage, 220/380V	**15720H26**	1	48,000	
• Blower 4.3 kW, Double Stage, 380/660V	**15730H47**	1	45,000	
• Blower 4.3 kW, Double Stage, 380/660V	**15720H37**	1	54,000	
• Blower 5.5 kW, Double Stage, 380/660V	**15720H47**	1	70,000	
• Blower 7.5 kW, Double Stage, 380/660V	**15720H57**	1	74,000	

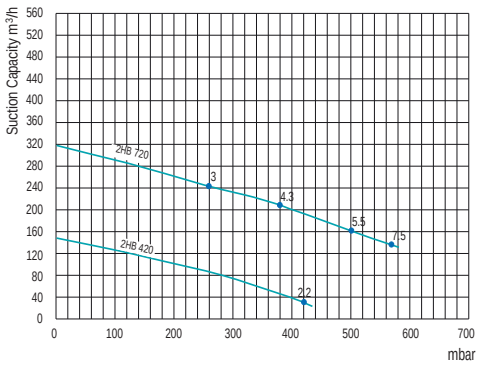
TECHNICAL CHARACTERISTICS

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

PERFORMANCE CURVE - Single Stage



PERFORMANCE CURVE - Double Stage



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Air Buttons

1522-1043 1522-1044

"Standard" Pneumatic Air Button

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Body external diameter 31,5 mm, 3 mm tube connection.	**1522-1043**	1	0,020	
• Body external diameter 1", 3 mm tube connection.	**1522-1044**			

156438 156437

Gemas Pneumatic Air Button

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Gemas Large model air button with Ø 63 mm 2" connection	**156437**	1	0,035	
• Gemas Small model air button with Ø 50 mm 1.5" connection	**156438**	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^3
• **PNEUMATIC SWITCH BOARD,**	**05080**	1	0,748	
Complete with contactor and circuit breaker for up to 4 kw triphase pumps. Assembled in a humid resistant plastic box.				
• **PNEUMATIC SWITCH.**	**156871**	1	0,020	
Permanent type. Up to 1 HP				
• **PNEUMATIC SWITCH HOSE.**	**15310**			
D 2,0 - 4,0 mm. Price per meter.				

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^3
• 3-Function Button	**15231**	1		
• Driver	**15230**	1		

Air Regulators

1510-2100 1510-2100S

1510-2200 1510-2300

"Standart" Type Air Regulator

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Big model 1 1/4" male threaded	**1510-2100**	1	0,084	
• Big model 1 1/4" male threaded. St.Steel	**1510-2100S**	1		
• Small model 3/4" male threaded	**1510-2200**	1	0,036	
• Small model 1" male threaded. Chrome-plated.	**1510-2300**	1		

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Caps

Hydro-Air "Caps"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Ø 50 mm	**1520-1015**	1	0,036	

PVC Flexible Tubes

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
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/ box	Weight Kg	Volume m^3
• 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/ box	Weight Kg	Volume m^3
Ø 50 mm	**04237**	35	1,474	0,006

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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^3
• FL-45, 4,5 kW	**182101**			
• FL-60, 6 kW	**182102**			
• FL-90, 9 kW	**182104**			
• FL-120, 12 kW	**182105**			
• FL-150, 15 kW	**182106**			
• FL-180, 18 kW	**182107**			

Control panels for steam generators with electric heater. The "Operating" light, steam room temperature display, working hour countdown, automatic disinfection function (ozone) can be obsevered outside the panel.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• FAN-T, For 60/90 models	**182201**			
• FAN-M, For 120/180 models	**182202**			

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^3
• EL1000-3, up to 18 kW	**182111**			
• Lime Protector 1 liter	**075311**			

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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^3
ELKT1000	**182211**			

Steam Room Accessory Equipments

Steam Nozzle.

182301

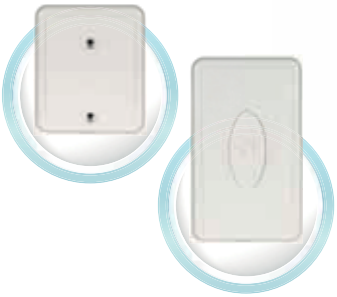
182302

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Stainless Steel AISI 304	**182301**	1		
• Steam Nozzle Plastic	**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^3
	182401	1		

Steam Bath Door Handle. Made of plastic.



Description	Code	Pieces/ box	Weight Kg	Volume m^3
	1824011	1		

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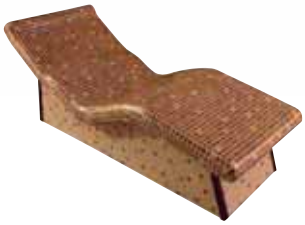
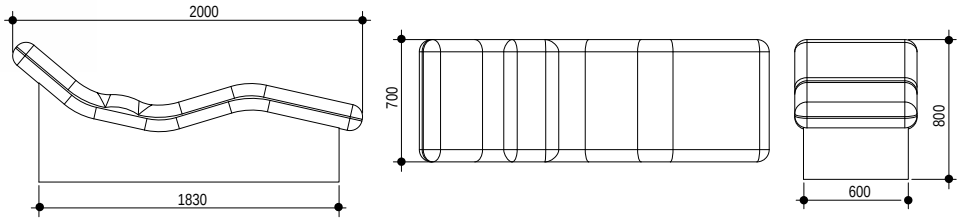
Prefabricated Construction Materials for SPA

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^3
	184101			

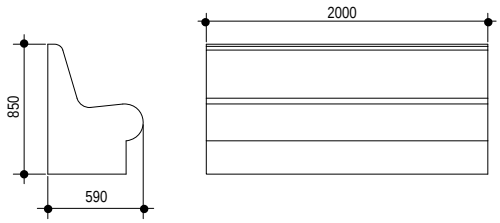




Steam Room Seats

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^3
	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^3
	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^3
	186102			

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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. Kulanıcıların 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 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.

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 Fıskiye/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: Kontrplak kasa/
Plywood case

Merdiven/Stair: 2 Basamaklı Merdiven (Gri)
2 Steps-Stairs (Grey)

Firmamız, müşteriye ihbarda bulunmaksızın liste muhteviyatı tüm ürünlerinde değişiklik yapma hakkını mahfuz tutar.
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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. Kulanıcıların 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 kompledir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

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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: 12pcs

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

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: Kontrplak kasa/
Plywood case

Merdiven/Stair: 2 Basamaklı Merdiven (Gri)
2 Steps-Stairs (Grey)

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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.

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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)

Firmamız, müşteriye ihbarda bulunmaksızın liste muhteviyatı tüm ürünlerinde değişiklik yapma hakkını mahfuz tutar.
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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. Kulanıcıların 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): 1.1m³
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: Kontrplak kasa/
Plywood case

Merdiven/Stair: 2 Basamaklı Merdiven (Gri)
2 Steps-Stairs (Grey)

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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. Kulanıcıların 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 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
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)

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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. Kulanıcıların 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 kompledir. Akrilik gövde dış tarafından Poli Üretan izolasyonla ısı kaybına karşı izole edilmiştir.

H Series:
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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 Fıskiye/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)

Firmamız, müşteriye ihbarda bulunmaksızın liste muhteviyatı tüm ürünlerinde değişiklik yapma hakkını mahfuz tutar.
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Pond Products

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^3
• **Cascade (50T)** 1" Male threaded:	**161161**	1		
Articulated. Ø50 mm water column				
• **Cascade (70T)** 1,5" Male threaded:	**161121**	1		
Articulated. Ø75 mm water column				
• **Cascade (90T)** 2" Male threaded:	**161131**	1		
Articulated. Ø97 mm water column				
• **Cascade (110T)** 2,5" Female threaded:	**161141**	1		
Articulated. Ø117 mm water column				
• **Cascade (130T)** 3" Female threaded:	**161151**	1		
Articulated. Ø135 mm water column				

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^3
• **Cascade (50T)** 1" Female threaded:	**16111**	1	0,722	0,0006
Articulated. Ø50 mm water column				
• **Cascade (70T)** 1,5" Female threaded:	**16112**	1	1,828	0,0015
Articulated. Ø75 mm water column				
• **Cascade (90T)** 2" Female threaded:	**16113**	1	2,346	0,0023
Articulated. Ø97 mm water column				
• **Cascade (110T)** 2,5" Female threaded:	**16114**	1	2,732	0,0045
Articulated. Ø117 mm water column				
• **Cascade (130T)** 3" Female threaded:	**16115**	1	14,194	0,0130
Articulated. Ø135 mm water column				

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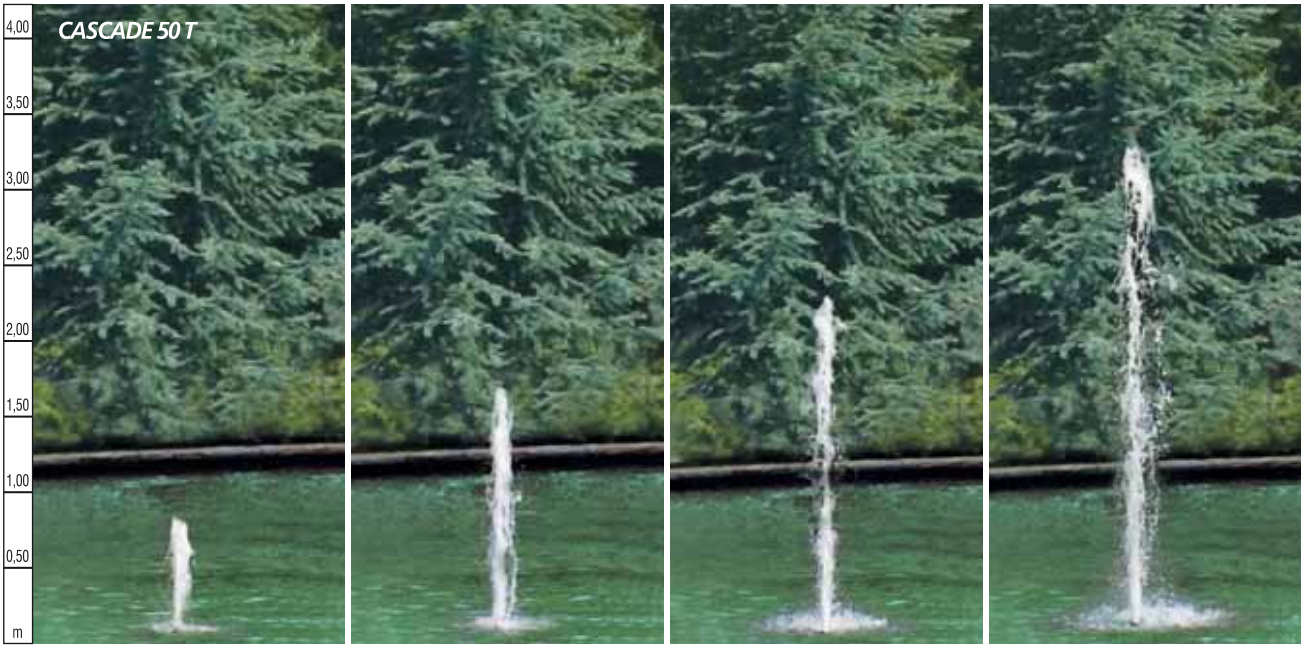
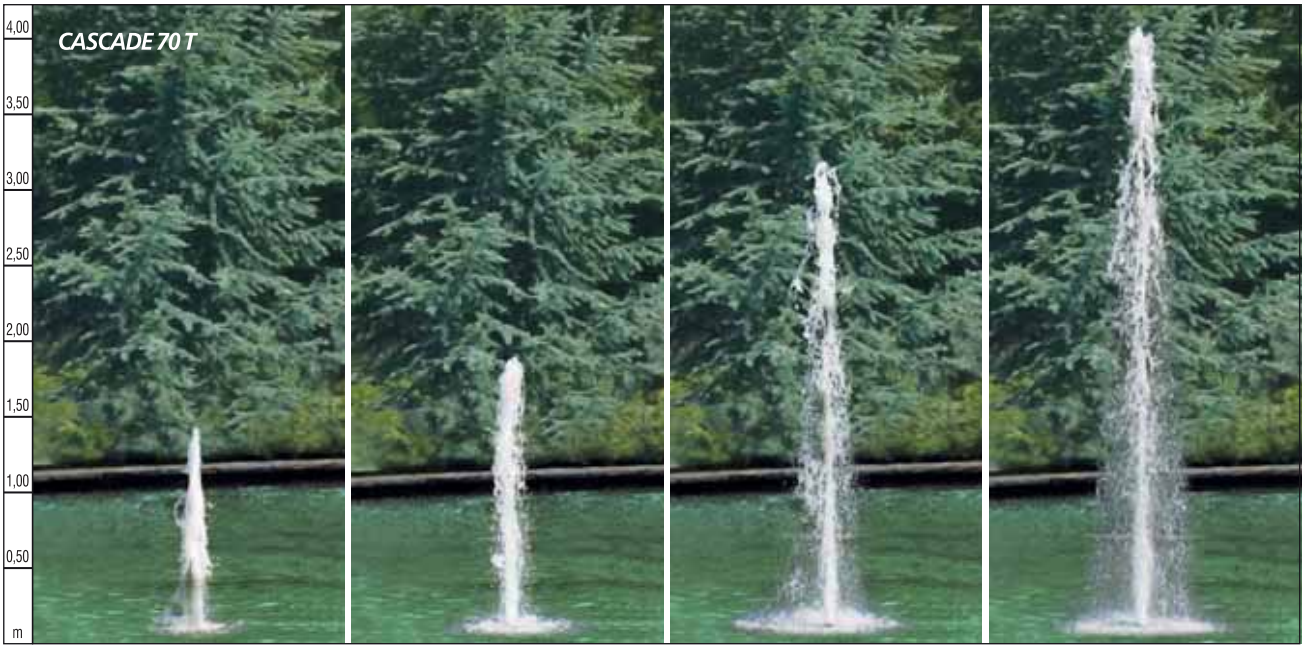
_Flow and Pressure Chart for Fountain Nozzles

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 m^3/h	Pressure requirement mSS	atm	Flow m^3/h	Pressure requirement mSS	atm	Flow m^3/h	Pressure requirement mSS	atm	Flow m^3/h	Pressure requirement mSS	atm	Flow m^3/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

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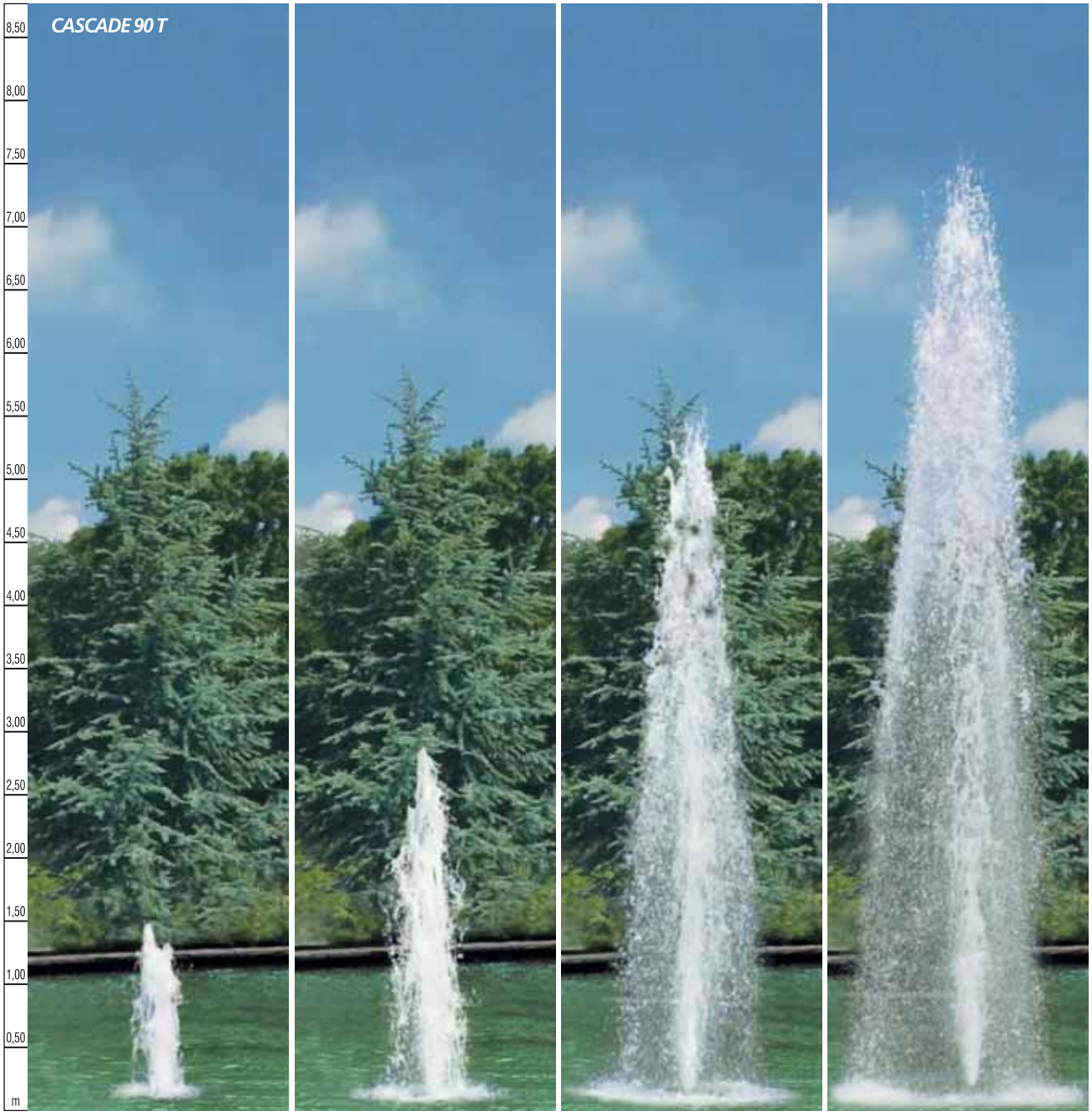
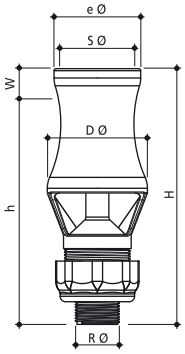
Cascade Nozzles





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)					

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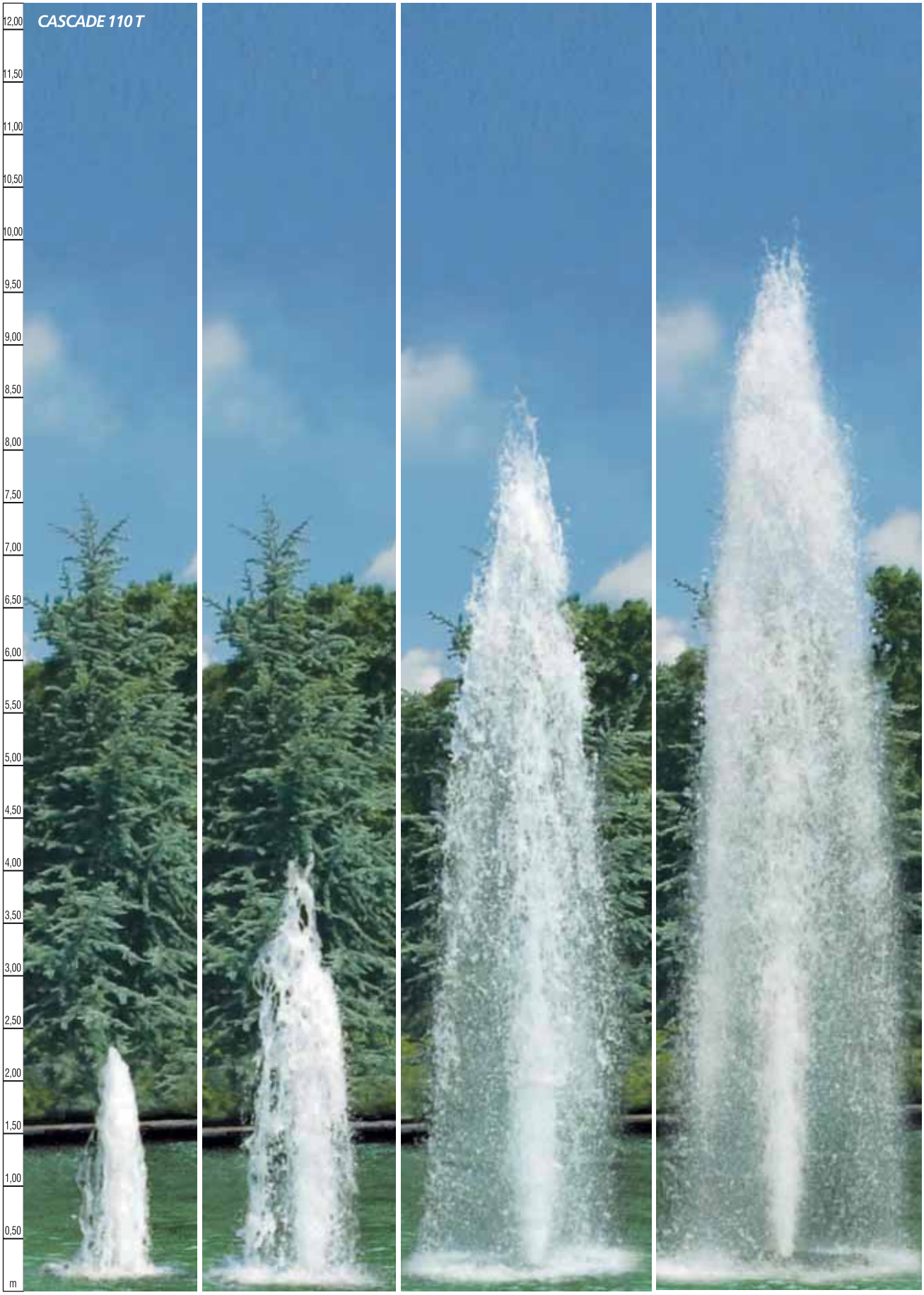
Cascade Nozzles



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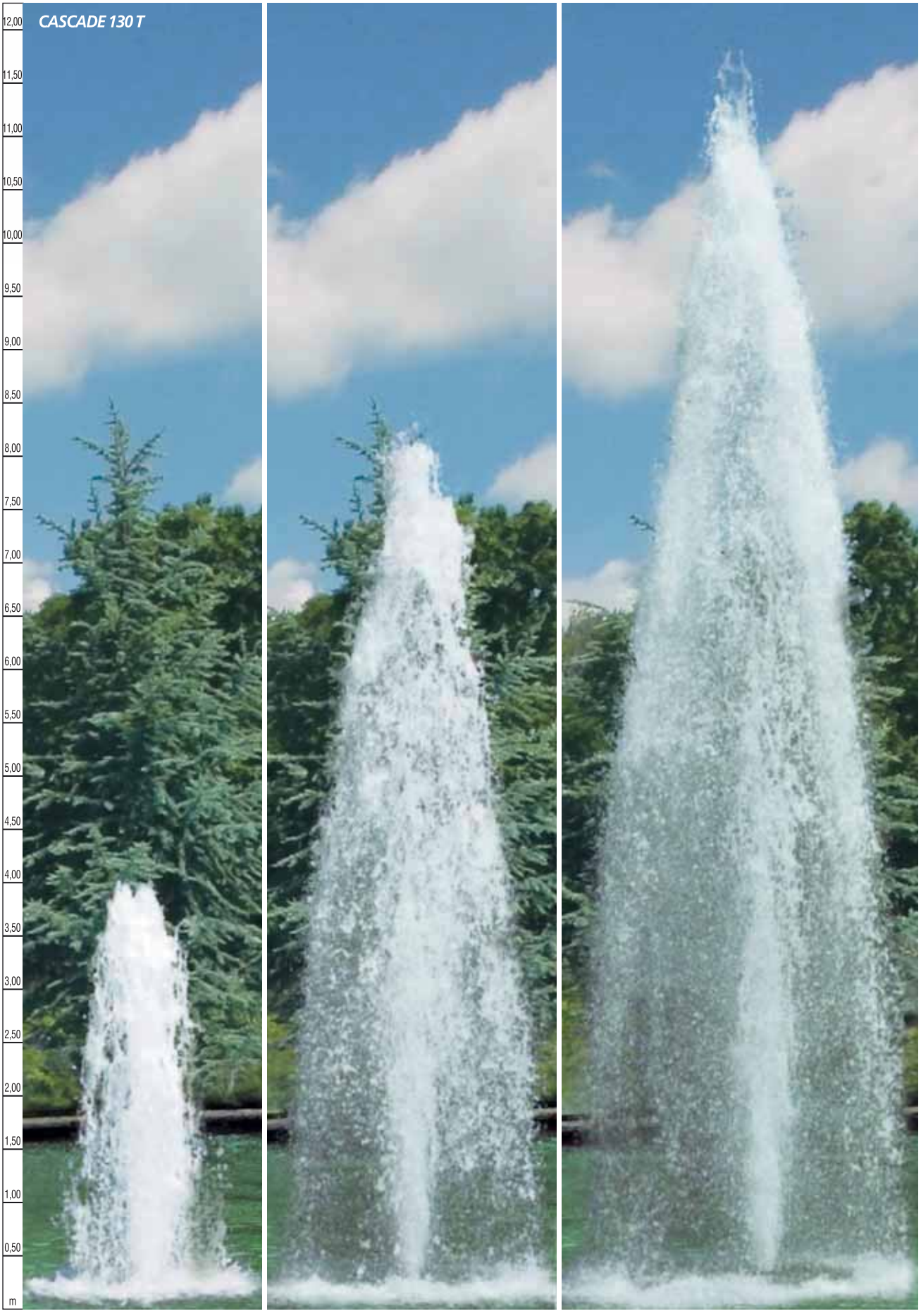
Cascade Nozzles



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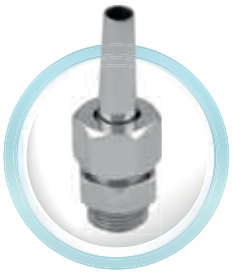
Finger Nozzles - Bronze/Chrome plated

Made of bronze. Can be articulated up to 15°.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**161211**	1	0,054	
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**161221**	1	0,086	
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10 mm	**161222**	1	0,080	
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12 mm	**161231**	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/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**1612111**	1		
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**1612211**	1		
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10,0 mm	**1612221**	1		
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12,0 mm	**1612311**	1		

Finger Nozzles - Plastic/Chrome Plated - Adjustable

Chrome plated plastic. Can be articulated up to 15°. Flow adjusting valve over fountain.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**161211PCR**	1		
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**161221PCR**	1		
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10 mm	**161222PCR**	1		
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12 mm	**161231PCR**	1		

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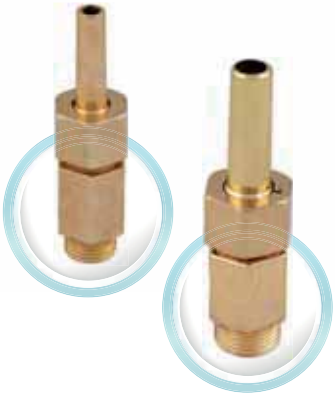
Finger Nozzles - Plastic/Golden Plated - Adjustable

Made of plastic. Can be articulated up to 15°. (Please add unit prices for footed models)



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**161211PG**	1		
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**161221PG**	1		
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10 mm	**161222PG**	1		
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12 mm	**161231PG**	1		

Finger Nozzles - Plastic/Chrome Plated - Adjustable

Made of plastic. Can be articulated up to 15°.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**161211PC**	1		
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**161221PC**	1		
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10 mm	**161222PC**	1		
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12 mm	**161231PC**	1		

Finger Nozzles - Plastic/Black

Made of plastic. Can be articulated up to 15°.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger (3-6T)** 3/8" Male Threaded. Water spray dia. Ø6,0 mm	**161211P**	1		
• **Finger (5-8T)** 0,5 Male Threaded. Water spray dia. Ø8 mm	**161221P**	1		
• **Finger (5-10T)** 0,5 Male Threaded. Water spray dia. Ø10 mm	**161222P**	1		
• **Finger (10-12T)** 1" Male Threaded. Water spray dia. Ø12 mm	**161231P**	1		

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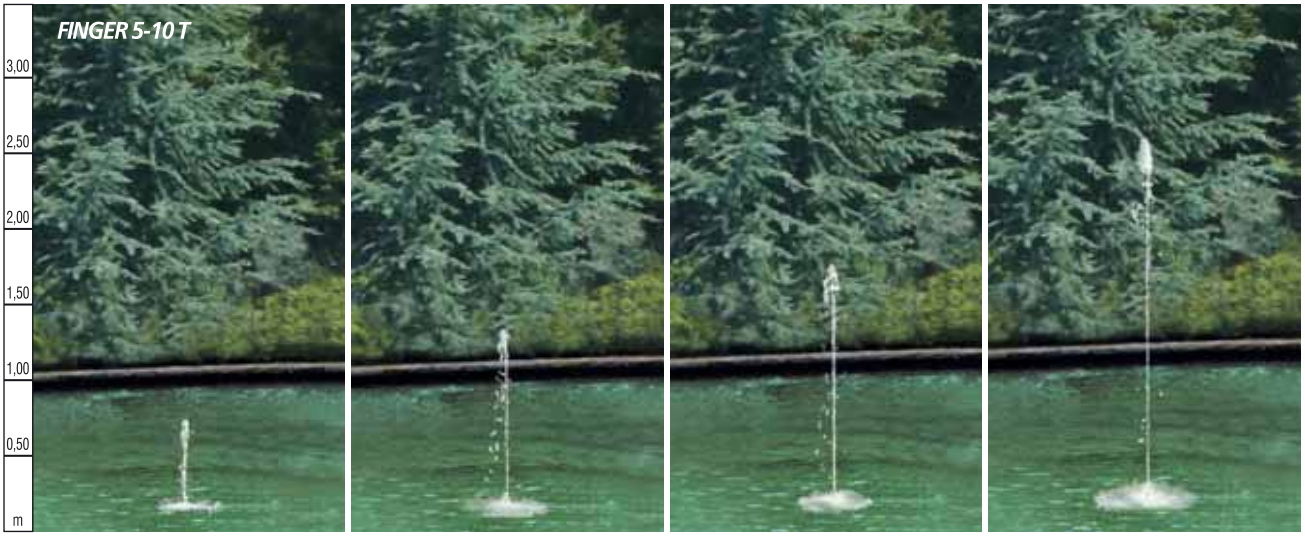
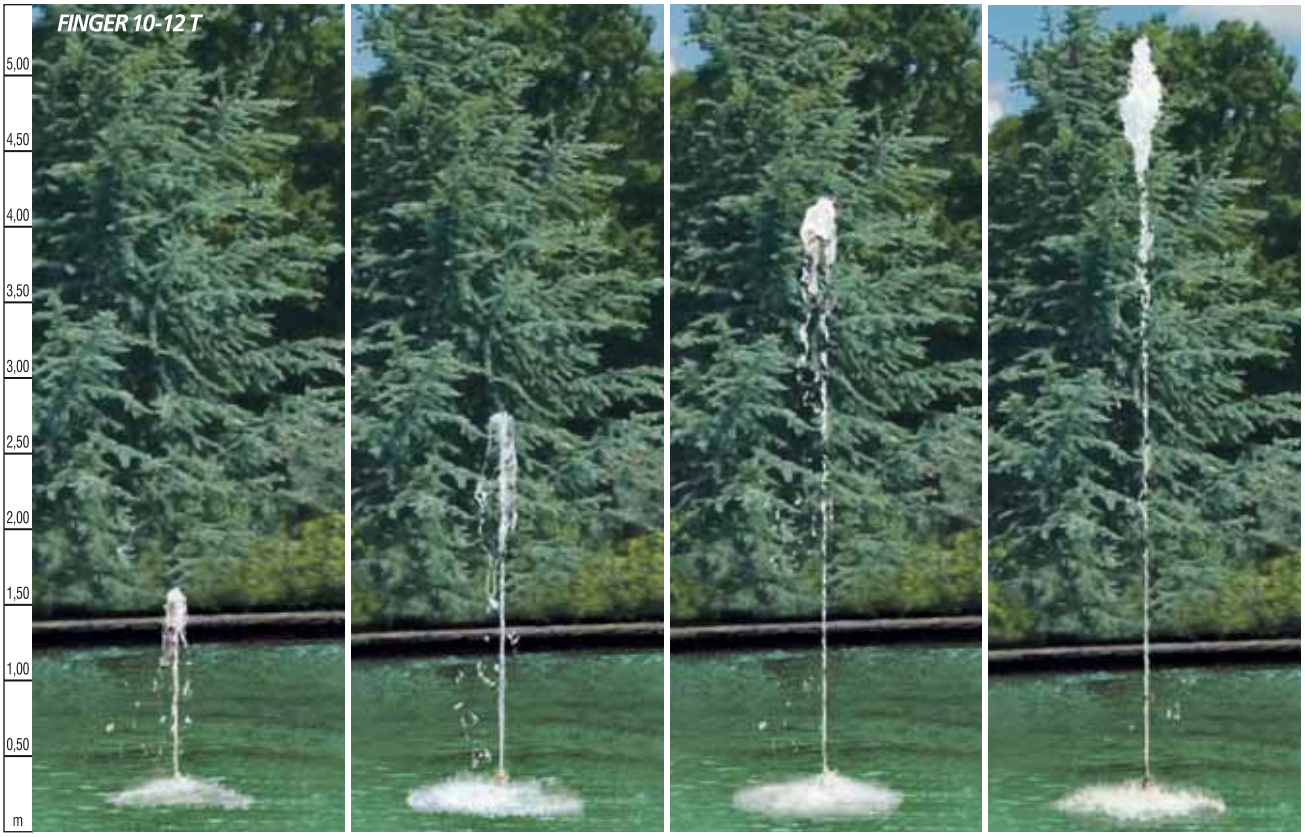
_Flow and Pressure Chart for Fountain Nozzles

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^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/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

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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^3
• **Geiser (20T)** - 1" Male threaded: Water spray nozzle dia. Ø20 mm	**161311**	1		
• **Geiser (40T)** - 1,5" Female threaded: Water spray nozzle dia. Ø40 mm	**161321**	1		
• **Geiser (60T)** - 2" Female threaded: Water spray nozzle dia. Ø60 mm	**161331**	1		
• **Geiser (80T)** - 2,5" Female threaded: Water spray nozzle dia. Ø80 mm	**161341**	1		
• **Geiser (100T)** - 3" Female threaded: Water spray nozzle dia. Ø100 mm	**161351**	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^3
• **Geiser (20T)** - 1" Male threaded: Water spray nozzle dia. Ø20 mm	**16131**	1	1,054	
• **Geiser (40T)** - 1,5" Female threaded: Water spray nozzle dia. Ø40 mm	**16132**	1	3,882	
• **Geiser (60T)** - 2" Female threaded: Water spray nozzle dia. Ø60 mm	**16133**	1	3,210	
• **Geiser (80T)** - 2,5" Female threaded: Water spray nozzle dia. Ø80 mm	**16134**	1	10,730	
• **Geiser (100T)** - 3" Female threaded: Water spray nozzle dia. Ø100 mm	**16135**	1	15,200	

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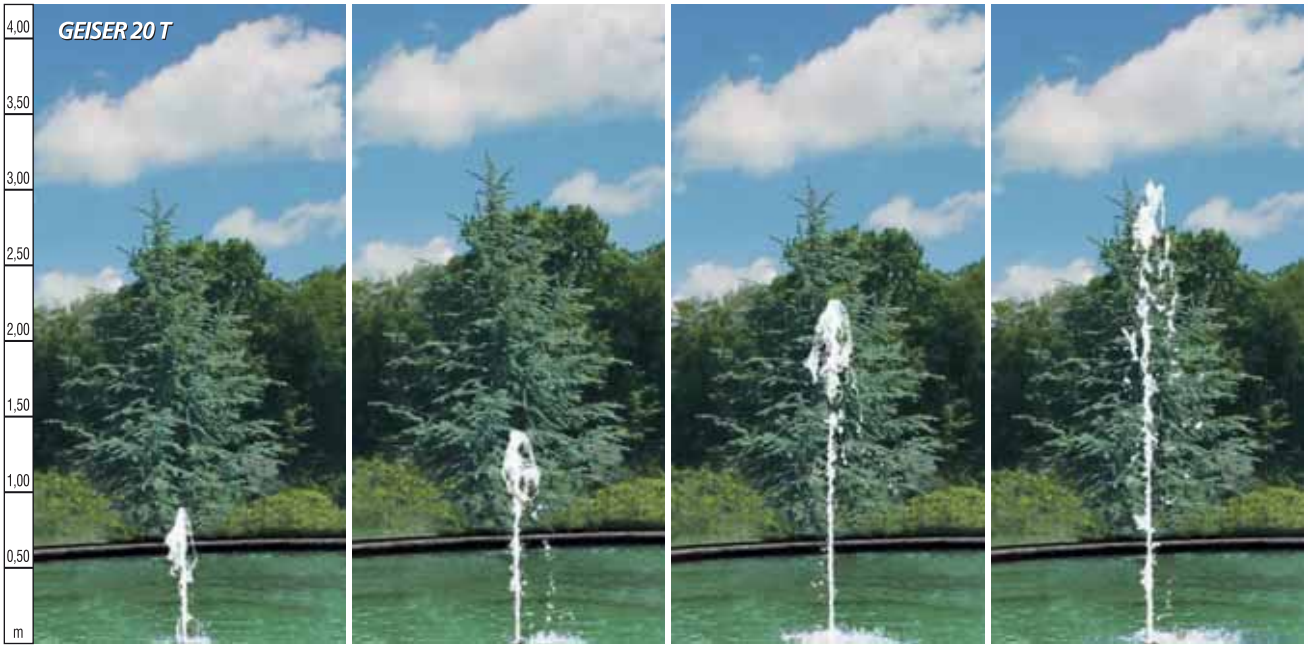
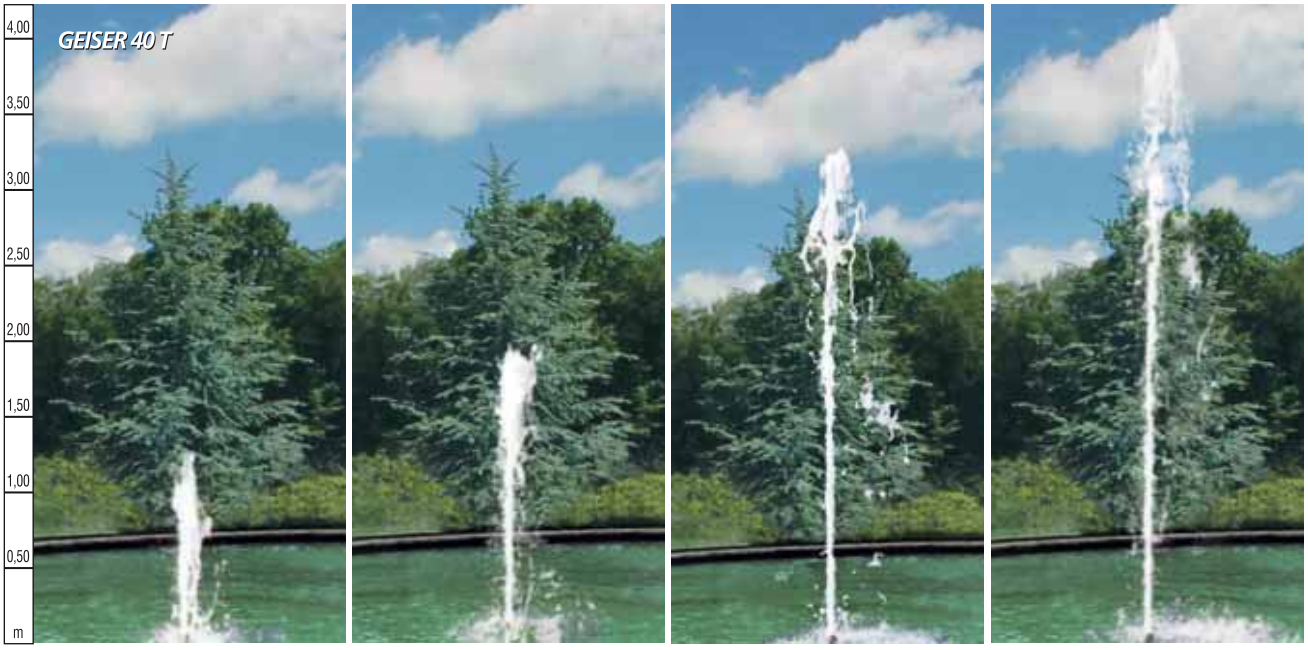
_Flow and Pressure Chart for Fountain Nozzles

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^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/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

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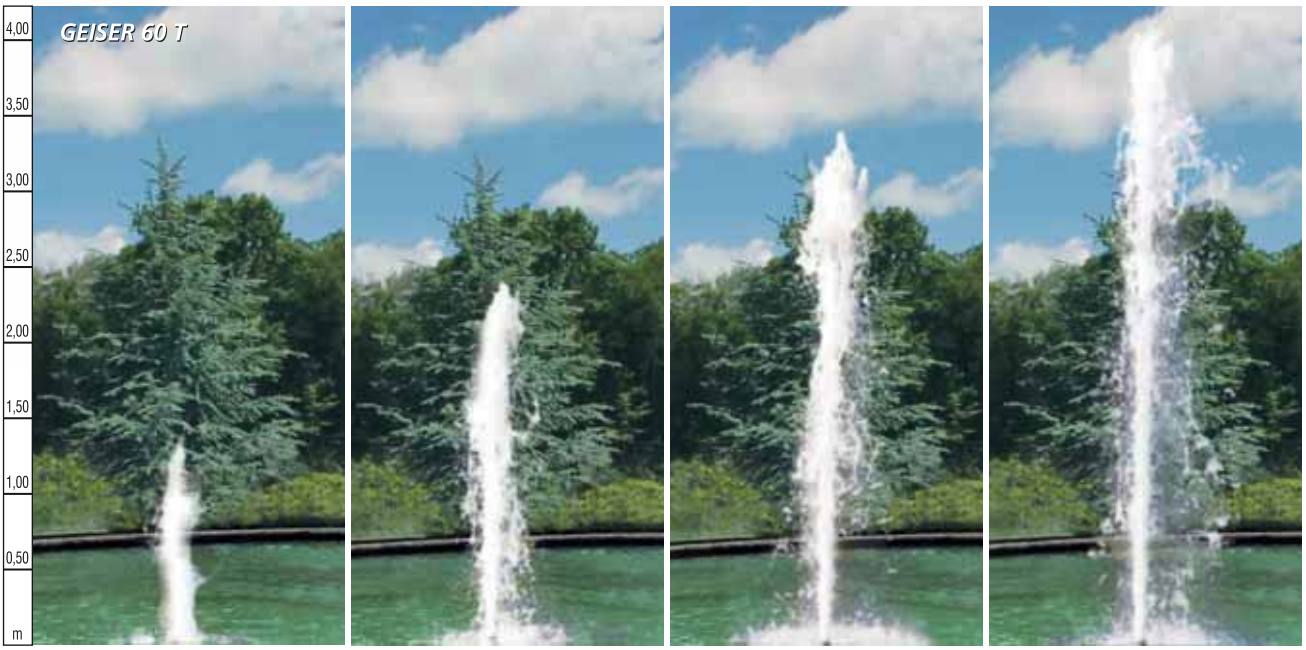
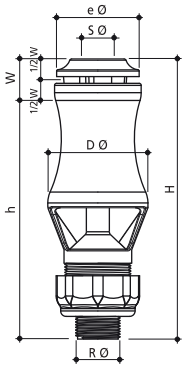
Geiser Nozzles





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)					

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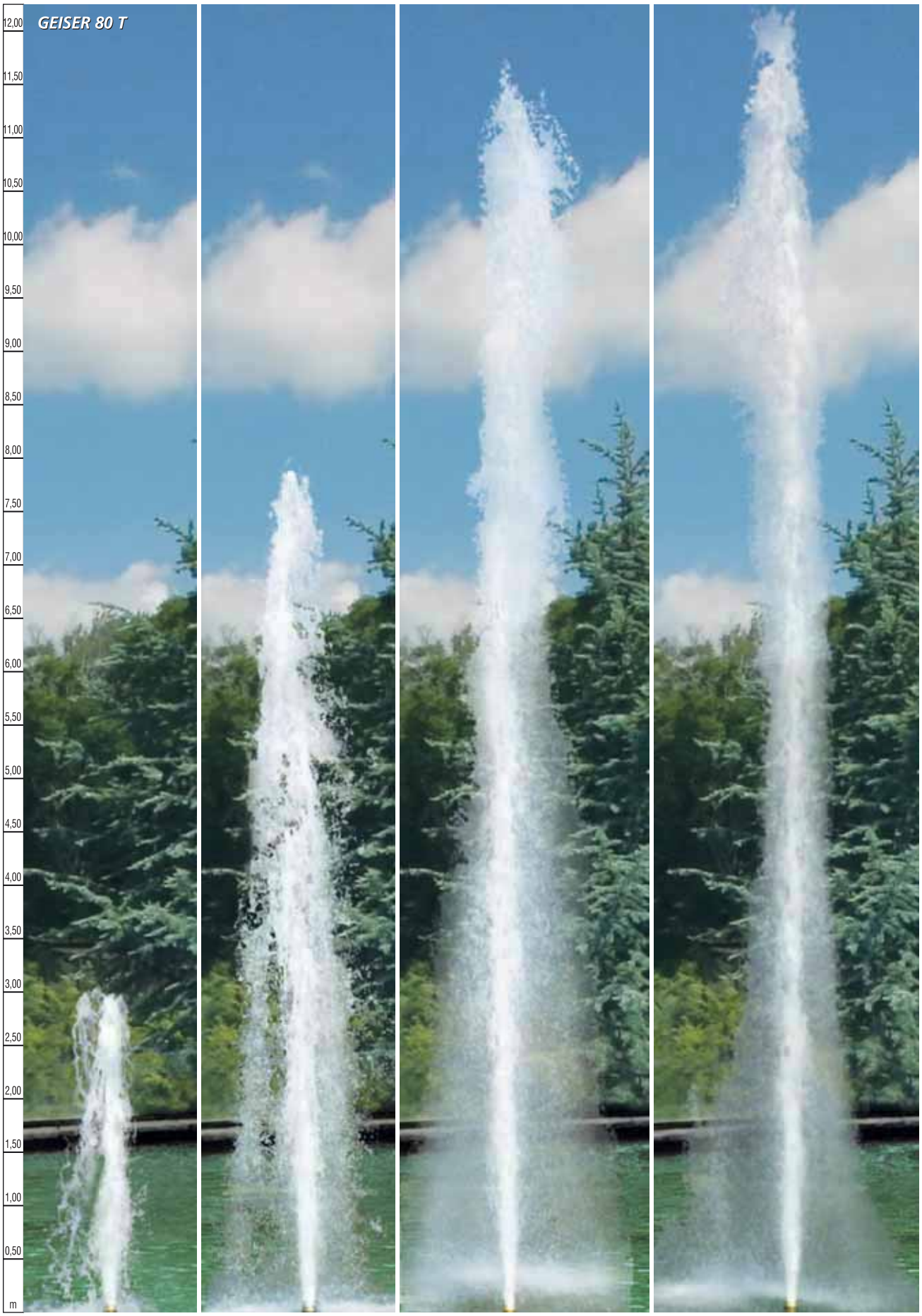
Geiser Nozzles



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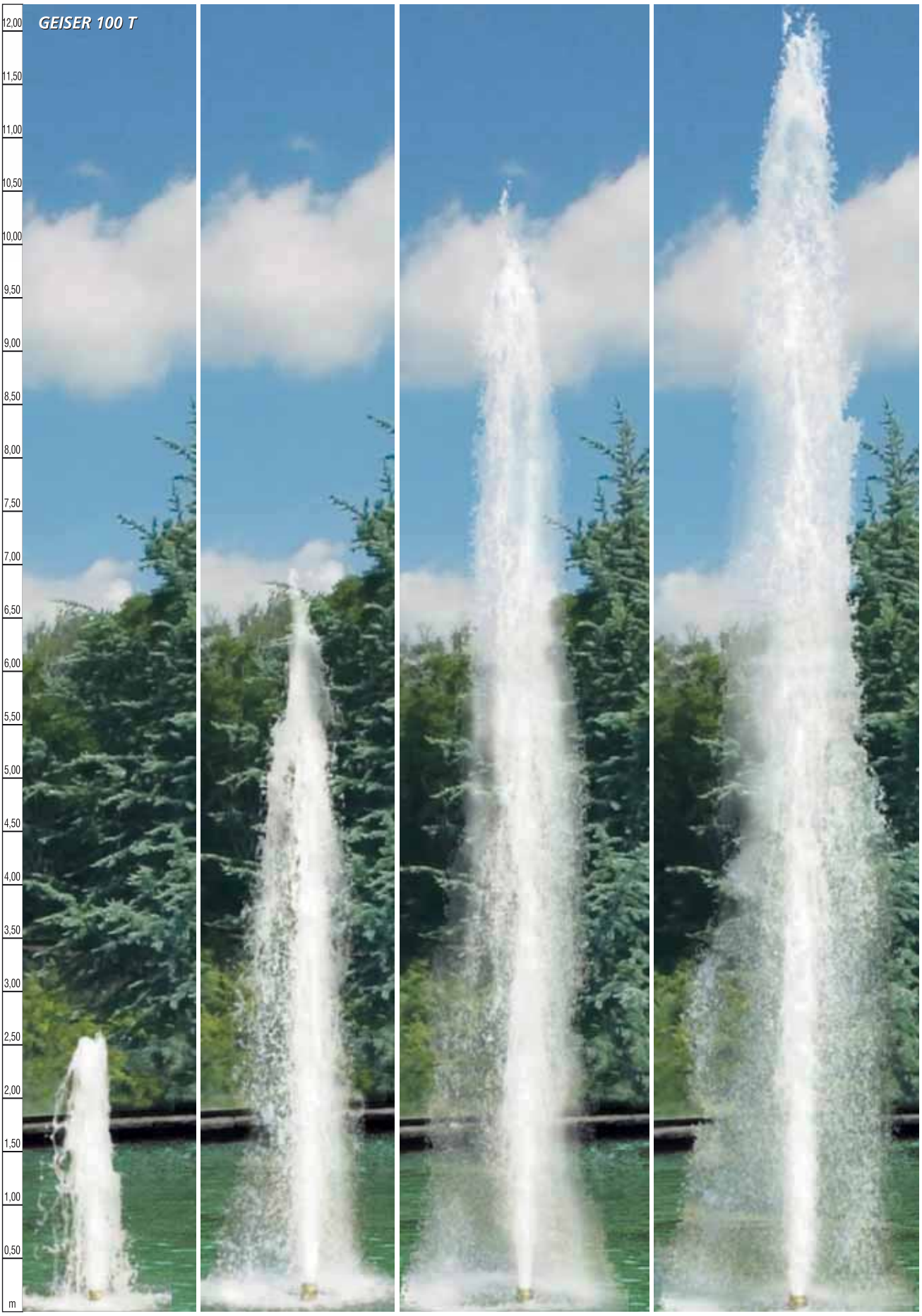
Geiser Nozzles



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Water Fan Nozzle

"Water Fan Nozzle" Made of Stainless Steel.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Water Fan Nozzle (115 - 15T),** 1"	**161111**	1	1,798	0,002
• **Duck Mouth,** 1"	**161113**	1		
• **Duck Mouth,** 1,5"	**161114**	1		

161113

161111

Finger Jet Nozzle

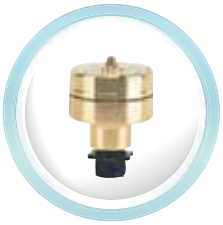
"Finger Water Fan Nozzle" Made of Stainless Steel. Distributes the water with 60° angle from Ø4,0 mm water jet. 1" male threaded connection.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **Finger Water Fan (13 - 4T).** 13 Mouth	**1611121**	1	2,814	0,003
• **Finger Water Fan (25 - 4T). 25 Mouth**	**1611122**	1	2,868	0,003
• **Big Type Finger Water Fan (6 - 8T)**	**1611123**			

Volcano Nozzles

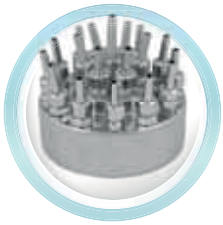
Creates a water pattern consisting of a series of jets which rise in one or more steps.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Volcano (43 - 3T) 1"	**16143P**	1	-	-
Male threaded : Made in plastic.				
• Volcano (19 - 3T) 1"	**16142**	1	1,118	0,0008
Male threaded : Water spray hole dia.				
Ø3 mm x 19 pcs.				
• Volcano (43 - 3T) 1"	**16143**	1	1,160	0,0008
Male threaded : Water spray hole dia.				
Ø3 mm x 43 pcs.				
• Volcano (200/19 - 6T) 2"	**16144**	1	4,154	0,0034
Male threaded : Consists of 1 x Ø10 mm +				
18 x Ø6 mm finger nozzle				
• Ditto, Made of golden plated plastic	**16144P**	1		
finger jets.				
• Volcano (300/19 - 8T) 2,5" Male	**16145**	1	9,250	
threaded : Consists of 1 x Ø12 mm				
+ 18 x Ø8 mm finger nozzle				



16143

16143P



16144

Volcano 200/19 - 6 T

Volcano 300/19 - 8 T

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Water Bell Nozzles

Made in stainless steel. Adjustable.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **30T** : H= 30 cm 1" Male threaded.	**161621**	1	1,040	0,001
• **40T** : Height = 40 cm 1" Male threaded.	**161622**	1	1,316	0,001
• **60T** : H= 60 cm 1" Male threaded.	**161523**	1	1,538	0,002
• **30TP** : H= 30 cm and can be extended.	**16161P**	1	0,148	0,001
0,5 Male threaded. Made in plastic.				

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^3
• **Water Sphere Nozzle 1500**, Ø1500 mm	**161101**	1		
• **Water Sphere Nozzle 2500**, Ø2500 mm	**161102**	1		
• **Half a sphere of water 1500**, Ø1500 mm	**161103**	1		
• **Half a sphere of water 2500**, Ø2500 mm	**161104**	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^3
• 0,5	**16201**	1		
• 0,75	**16202**	1		
• 1"	**16203**	1		
• 1,5"	**16204**	1		
• 2"	**16205**	1		

Nozzle Joint

Female threaded nozzle side and male threaded pipe connection side.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 1" Plastic	**16301**			
• 1,5" Plastic	**16302**			
• 1" with Stainless Steel Nut	**16303**			
• 1,5" with Stainless Steel Nut	**16304**			

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_Flow and Pressure Chart for Fountain Nozzles

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 m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement 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

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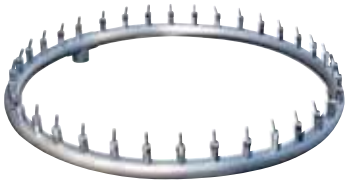
Water Star Nozzles

Made in bronze. O.D. Ø750 mm. Water spray nozzle Ø4 mm. Connection: 1,5"

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **12 / K3 - 4 / 750T** with 12 arms	**16101**	1		
• **18 / K3 - 4 / 750T** with 18 arms	**16102**	1		
• **24 / K3 - 4 / 750T** with 24 arms	**16103**	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^3
Plastic Water Star Nozzle 1000	**16104**	1	4,184	0,106

Water Pirouette Nozzle

Made in bronze. Effect is created by rotation.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• **(M7 - 5T)** 0,5 Male threaded	**16191**		1,846	0,046
• **(M7 - 10T)** 1" Male threaded	**16192**	1		

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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 m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement 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

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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^3
• **Spring (35 - 10E)** 1" Male threaded:	**161521**	1	0,684	0,0004
Water spray dia. Ø32 mm. Adjustable.				
• **Spring (55 - 10E)** 1" Male threaded:	**161522**	1	1,282	0,0008
Water spray dia. Ø50 mm. Adjustable.				
• **Spring (55 - 15E)** 1,5" Male threaded:	**16153**	1	1,306	0,0008
Water spray dia. Ø50 mm. Adjustable.				
• **Spring (75 - 20T)** 2" Male threaded:	**16154**	1	2,742	0,0020
Water spray dia. Ø75 mm. Adjustable.				

161521

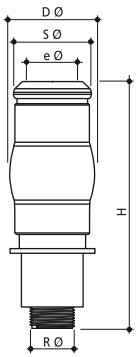
161522

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)				



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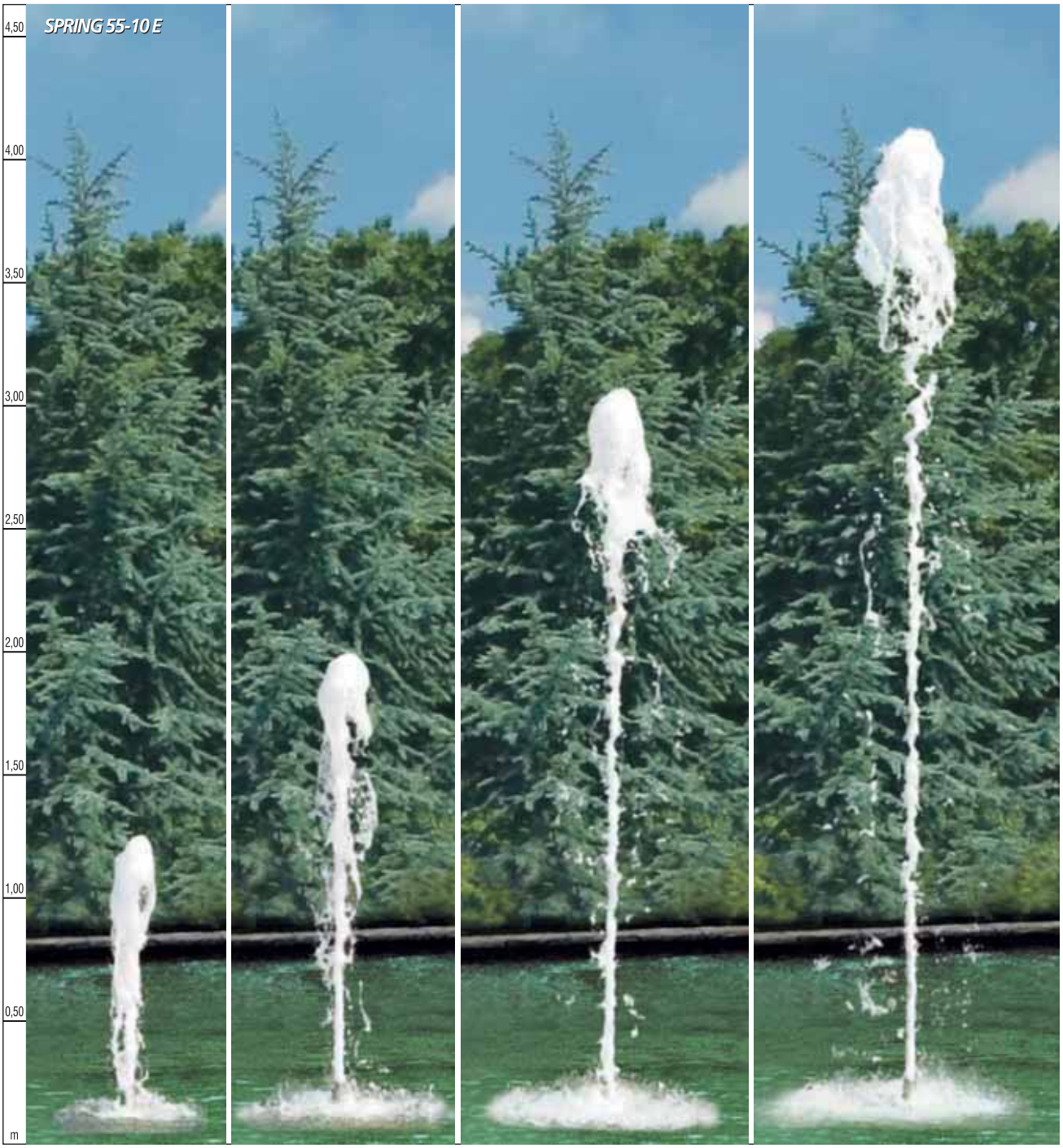
_Flow and Pressure Chart for Fountain Nozzles

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^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/h	Pressure requirement m / h	atm	Flow m^3/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

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Spring Nozzles

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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/ box	Weight Kg	Volume m³
• Small Lionhead, Antique Copper	**1122411**	1		
• Large Lionhead, Antique Copper	**1122421**	1		
• Plain Bowl Waterfall, Antique Copper	**1122431**	1		
• Slotted Bowl Waterfall, Antique Copper	**1122241**	1		
• Snail, Antique Copper	**1122251**	1		
• Antique Badge, Antique Copper	**1122261**	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

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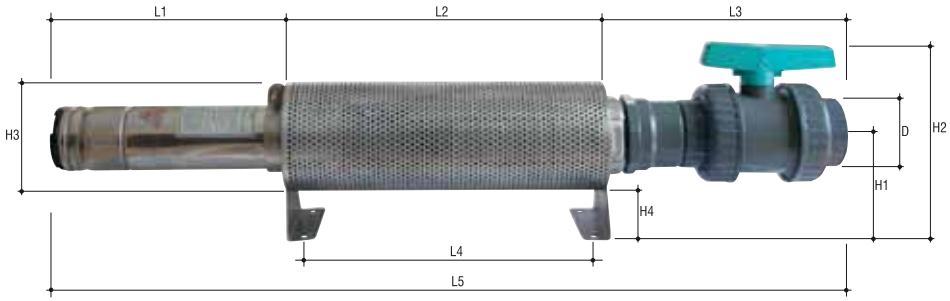
Submersible Pumps for Fountains

High pressure - High Flow Submersible deepwell pumps: Such pumps with below technical spects 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

Step	*Stainless Steel (AISI 304), Optional (AISI 316)*
Fan	*Stainless Steel (AISI 304), Optional (AISI 316)*
Pump shaft	*X22 CrNi 17*
Step rubber	*Nitrile Rubber*
Filter	*Stainless Steel (AISI 304), Optional (AISI 316)*
Pump suction adapter	*Stainless Steel (AISI 304), Optional (AISI 316)*
Pump Output Connection	*Stainless Steel (AISI 304), Optional (AISI 316)*
Throttle	*Stainless Steel (AISI 304), Optional (AISI 316)*
Max. Sand Amount	*5O gr/m³*
Max. departure p	*20 (kal/s)*
Frequency	*50 Hz*
Max. working noise	*70 dB <*
Class of motor protection	*IP 68*
Motor Body	*Stainless Steel (AISI 304)*
Max Water Temperature	*40°C*
Motor Rotation Direction	*Anti-clockwise direction*
Speed	*2900 speed/min.*



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

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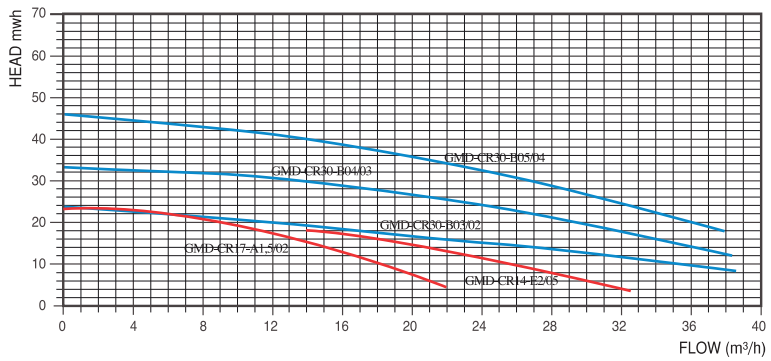
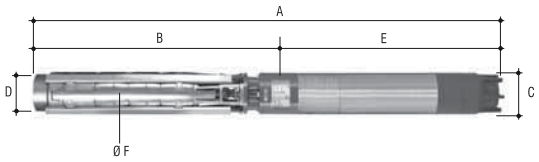
Submersible Pumps for Fountains

Description	Code	Pieces/ box	Weight Kg	Volume m³
• **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 NUMBER	MOTOR		AMP		HEAD mwh											
				II	III	4	6	8	10	12	14	16	17	18	20	21	23
		HP	KW	220 V	380 V	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 NUMBER	MOTOR		AMP		HEAD mwh									
				II	III	14	18	21	24	26	28	29	31	32	34
		HP	KW	220 V	380 V	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		HEAD mwh									
				II	III	20	25	28	32	34	37	39	41	43	45
		HP	KW	220 V	380 V	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

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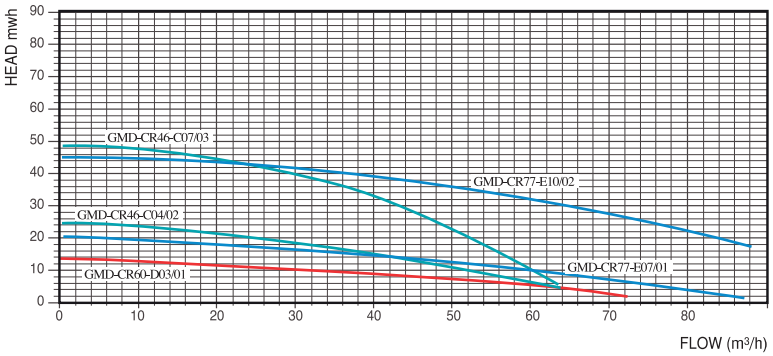
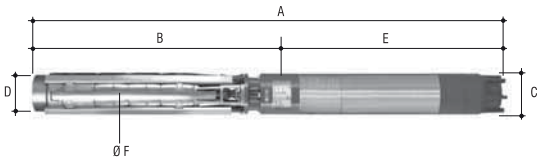
Submersible Pumps for Fountains

Description	Code	Pieces/ box	Weight Kg	Volume m³
• **GMD-CR46-C04/02** - 4 HP Tri.	**1631231**	1	**25,150**	
• **GMD-CR60-D03/01** - 3 HP Tri.	**1631241**	1	**53,500**	
• **GMD-CR77-E07/01** - 7,5 HP Tri.	**1631251**	1	**21,200**	
• **GMD-CR46-C07/03** - 7,5 HP Tri.	**1631232**	1	**61,000**	
• **GMD-CR77-E10/02** - 10 HP Tri.	**1631252**	1	**70,000**	

PERFORMANCE CURVES





PUMP TYPE	STEP NUMBER	MOTOR		AMP		HEAD mwh											
						4	5	9	10	12	15	16	18	19	20	22	25
		HP	KW	II 220 V	III 380 V	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 NUMBER	MOTOR		AMP		HEAD mwh								
						17	24	27	30	33	36	40	45	48
		HP	KW	II 220 V	III 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 220 V	III 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

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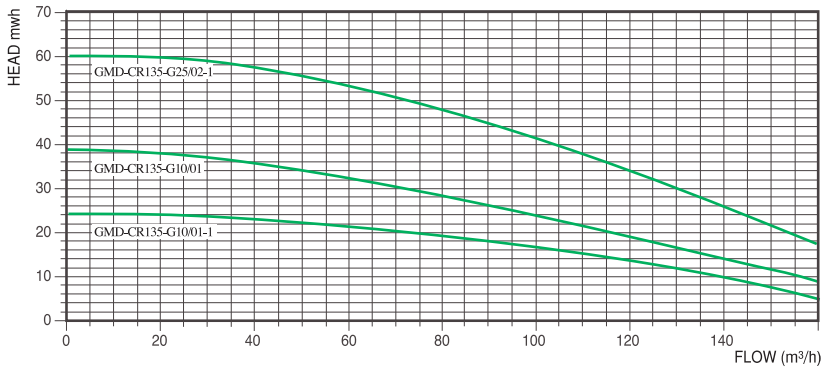
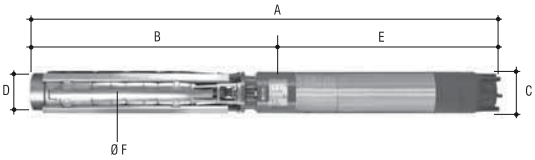
Submersible Pumps for Fountains

Description	Code	Pieces/ box	Weight Kg	Volume m³
• **GMD-CR135-G10/01-1** -10 HP Tri.	**1631261**	1	**78,000**	
• **GMD-CR135-G15/01**-15 HP Tri.	**1631262**	1	**89,000**	
• **GMD-CR135-G25/02-1** -25 HP Tri.	**1631263**	1	**114,000**	

PERFORMANCE CURVES





PUMP TYPE	STEP NUMBER	MOTOR		AMP		HEAD mwh								
				II	III	7	8	13	16	17	18	19	23	24
		HP	KW	220 V	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 NUMBER	MOTOR		AMP		HEAD mwh								
				II	III	11	17	20	22	24	27	28	36	39
		HP	KW	220 V	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 NUMBER	MOTOR		AMP		HEAD mwh								
				II	III	21	26	32	39	43	47	50	58	59
		HP	KW	220 V	380 V	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 TYPE	VOLTAGE (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 diş	620	210	31,000	47,000	78,000
GMD-CR135-G15/01	G 145MC/15	380	1366	666	145	6" *11 diş	700	210	31,000	58,000	89,000
GMD-CR135-G25/02-1	G 145MC/25	380	1692	822	145	6" *11 diş	870	210	38,000	76,000	114,000

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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^3
• 72 LED White - Footed - 24 W	**1651140**	1		
• 72 LED Daylight - Footed - 24 W	**1651141**	1		
• 72 LED Turquoise - Footed - 20 W	**1651142**	1		
• 72 LED Blue - Footed - 20 W	**1651145**	1		
• 72 LED Red - Footed - 20 W	**1651144**	1		
• 72 LED Green - Footed - 20 W	**1651143**	1		
• 72 LED White - Staked - 24 W	**1651140K**	1		
• 72 LED Daylight - Staked - 24 W	**1651141K**	1		
• 72 LED Turquoise - Staked - 20 W	**1651142K**	1		
• 72 LED Blue - Staked - 20 W	**1651143K**	1		
• 72 LED Red - Staked - 20 W	**1651144K**	1		
• 72 LED Green - Staked - 20 W	**1651145K**	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^3
• 72 LED RGB - Built-in Control - Footed - 20 W	**1651150**	1		
• 72 LED RGB - Centrally Control - Footed - 20 W	**1651151**	1		
• 72 LED RGB - Built-in Control - Staked - 20 W	**1651150K**	1		
• 72 LED RGB - Centrally Control - Staked - 20 W	**1651151K**	1		

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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/ box	Weight Kg	Volume m^3
• 72 LED White - Footed - 24 W	**1651140S**	1		
• 72 LED Daylight - Footed - 24 W	**1651141S**	1		
• 72 LED Turquoise - Footed - 20 W	**1651142S**	1		
• 72 LED Blue - Footed - 20 W	**1651143S**	1		
• 72 LED Red - Footed - 20 W	**1651144S**	1		
• 72 LED Green - Footed - 20 W	**1651145S**	1		
• 72 LED White - Staked - 24 W	**1651140KS**	1		
• 72 LED Daylight - Staked - 24 W	**1651141KS**	1		
• 72 LED Turquoise - Staked - 20 W	**1651142KS**	1		
• 72 LED Blue - Staked - 20 W	**1651143KS**	1		
• 72 LED Red - Staked - 20 W	**1651144KS**	1		
• 72 LED Green - Staked - 20 W	**1651145KS**	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/ box	Weight Kg	Volume m^3
• 72 LED RGB - Built-in - Footed - 20 W	**1651150S**	1		
• 72 LED RGB - Central Integrated-Footed - 20 W	**1651151S**	1		
• 72 LED RGB - Built-in - Staked - 20 W	**1651150KS**	1		
• 72 LED RGB - Central Integrated-Staked - 20 W	**1651151KS**	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.

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Plastic Body-Footed or Staked-Underwater/Landscape Lights

“Spot 10” Underwater Ornamental Light, Single Color

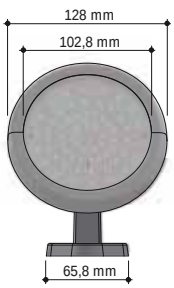
Designed for fountains and landscape lighting. 72 SMD LEDs; complete with polycarbonate bulb body, PCB and 1.0 m long 2 x 0.75 cable. Mounting foot or stake type. 120° - IP68. **The product is patented.**

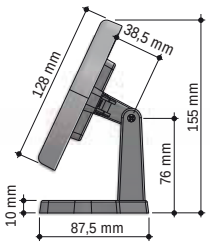
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 72 LED White - Footed - 11 W	**1651160**	1		
• 72 LED Daylight - Footed - 11 W	**1651161**	1		
• 72 LED Turquoise - Footed - 8 W	**1651162**	1		
• 72 LED Blue - Footed - 8 W	**1651163**	1		
• 72 LED Red - Footed - 8 W	**1651164**	1		
• 72 LED Green - Footed - 8 W	**1651165**	1		
• 72 LED White - Staked - 11 W	**1651160K**	1		
• 72 LED Daylight - Staked - 11 W	**1651161K**	1		
• 72 LED Turquoise - Staked - 8 W	**1651162K**	1		
• 72 LED Blue - Staked - 8 W	**1651163K**	1		
• 72 LED Red - Staked - 8 W	**1651164K**	1		
• 72 LED Green - Staked - 8 W	**1651165K**	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^3
• 72 LED RGB - Built-in Control - Footed - 8 W	**1651170**	1		
• 72 LED RGB - Centrally Control - Footed - 8 W	**1651171**	1		
• 72 LED RGB - Built-in Control - Staked - 8 W	**1651170K**	1		
• 72 LED RGB - Centrally Control - Staked - 8 W	**1651171K**	1		





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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^3
• 72 LED White - Footed - 11 W	**1651160S**	1		
• 72 LED Daylight - Footed - 11 W	**1651161S**	1		
• 72 LED Turquoise - Footed - 8 W	**1651162S**	1		
• 72 LED Blue - Footed - 8 W	**1651163S**	1		
• 72 LED Red - Footed - 8 W	**1651164S**	1		
• 72 LED Green - Footed - 8 W	**1651165S**	1		
• 72 LED White - Staked - 11 W	**1651160KS**	1		
• 72 LED Daylight - Staked - 11 W	**1651161KS**	1		
• 72 LED Turquoise - Staked - 8 W	**1651162KS**	1		
• 72 LED Blue - Staked - 8 W	**1651163KS**	1		
• 72 LED Red - Staked - 8 W	**1651164KS**	1		
• 72 LED Green - Staked - 8 W	**1651165KS**	1		

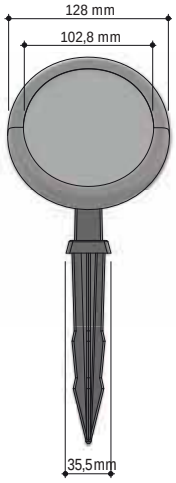
Ps: If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

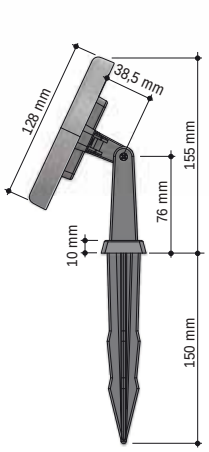
"Spot 10" Underwater Ornamental Light, RGB Color

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^3
• 72 LED RGB - Built-in Control - Footed - 8 W	**1651170S**	1		
• 72 LED RGB - Centrally Control - Footed - 8 W	**1651171S**	1		
• 72 LED RGB - Built-in Control - Staked - 8 W	**1651170KS**	1		
• 72 LED RGB - Centrally Control - Staked - 8 W	**1651171KS**	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.





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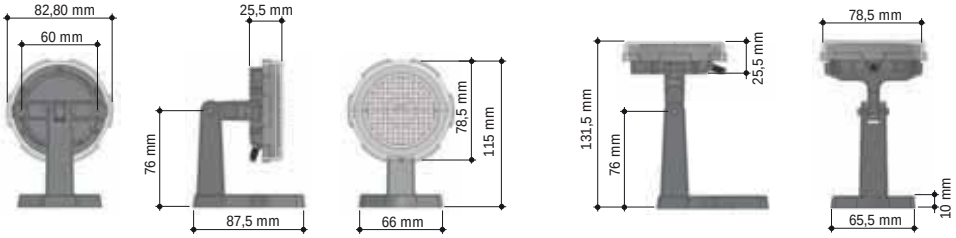
Plastic Body-Footed or Staked-Underwater/Landscape Lights

“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^3
• 36 LED White - Footed - 7 W	**1651180**	1		
• 36 LED Daylight - Footed - 7 W	**1651181**	1		
• 36 LED Turquoise - Footed - 5 W	**1651182**	1		
• 36 LED Blue - Footed - 5 W	**1651183**	1		
• 36 LED Red - Footed - 5 W	**1651184**	1		
• 36 LED Green - Footed - 5 W	**1651185**	1		
• 36 LED White - Staked - 7 W	**1651180K**	1		
• 36 LED Daylight - Staked - 7 W	**1651181K**	1		
• 36 LED Turquoise - Staked - 5 W	**1651182K**	1		
• 36 LED Blue - Staked - 5 W	**1651183K**	1		
• 36 LED Red - Staked - 5 W	**1651184K**	1		
• 36 LED Green - Staked - 5 W	**1651185K**	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^3
• 36 LED RGB - Built-in Control - Footed - 5 W	**1651190**	1		
• 36 LED RGB - Centrally Control - Footed - 5 W	**1651191**	1		
• 36 LED RGB - Built-in Control - Staked - 5 W	**1651190K**	1		
• 36 LED RGB - Centrally Control - Staked - 5 W	**1651191K**	1		



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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^3
• 36 LED White - Footed - 7 W	**1651180S**	1		
• 36 LED Daylight - Footed - 7 W	**1651181S**	1		
• 36 LED Turquoise - Footed - 5 W	**1651182S**	1		
• 36 LED Blue - Footed - 5 W	**1651183S**	1		
• 36 LED Red - Footed - 5 W	**1651184S**	1		
• 36 LED Green - Footed - 5 W	**1651185S**	1		
• 36 LED White - Staked - 7 W	**1651180KS**	1		
• 36 LED Daylight - Staked - 7 W	**1651181KS**	1		
• 36 LED Turquoise - Staked - 5 W	**1651182KS**	1		
• 36 LED Blue - Staked 5 W	**1651183KS**	1		
• 36 LED Red - Staked - 5 W	**1651184KS**	1		
• 36 LED Green - Staked - 5 W	**1651185KS**	1		

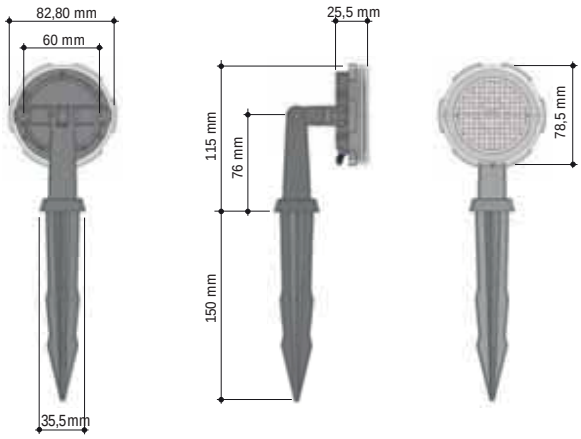
Ps: If AISI 316 of the above lamps is requested, the code "01" should be added next to the existing code. Prices should be considered with a 20% increase.

"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^3
• 36 LED RGB - Built-in Control - Footed - 5 W	**1651190S**	1		
• 36 LED RGB - Centrally Control - Footed - 5 W	**1651191S**	1		
• 36 LED RGB - Built-in Control - Staked - 5 W	**1651190KS**	1		
• 36 LED RGB - Centrally Control - Staked - 5 W	**1651191KS**	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.



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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	**16631SF**	1		
• 3 Power LED Daylight - AISI 304 - 9 W	**16633SF**	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	**16635SF**	1	
• 3 Power LED RGB - Centrally Control - AISI 304 - 6 W	**16636SF**	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 Foots

Description	Code	Pieces/ box	Weight Kg	Volume m³
• AISI 304 Quality Lamp Foot + Body Connection Set	**1663003**	1		
• AISI 316 Quality Lamp Foot + Body Connection Set	**1663002**	1		

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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/ box	Weight Kg	Volume m³
• 6 Power LED White - AISI 304 - 15 W	**16651SF**	1		
• 6 Power LED Daylight - AISI 304 - 15 W	**16653SF**	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/ box	Weight Kg
• 6 Power LED RGB - Built-in Control - AISI 304 - 13 W	**16655SF**	1	
• 6 Power LED RGB - Centrally Control - AISI 304 - 13 W	**16656SF**	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 Foots

Description	Code	Pieces/ box	Weight Kg	Volume m³
• AISI 304 Quality Lamp Foot + Body Connection Set	**1665002**	1		
• AISI 316 Quality Lamp Foot + Body Connection Set	**1665002SS**	1		

"SPOT 13" with Spike

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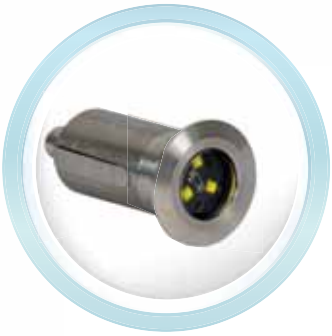
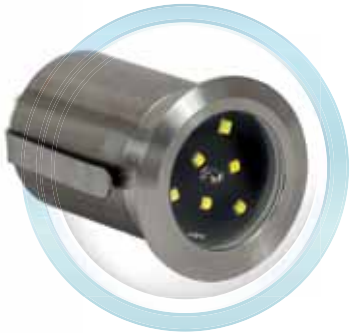
Massive Stainless Steel Body - Underwater Lights



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^3
Microchrome for Ø32 mm pipe housing				
• 3 LED White - 4 W	**16670**	1		
• 3 LED Daylight - 4 W	**16671**	1		
Mini Chrome for Ø40 mm pipe housing				
• 3 LED White - 4 W	**16680**	1		
• 3 LED Daylight - 4 W	**16681**	1		
Midi Chrome for Ø50 mm pipe housing				
• 6 LED White - 6 W	**16690**	1		
• 6 LED Daylight - 6 W	**16691**	1		
Maxi Chrome for Ø63 mm pipe housing				
• 6 LED White - 6 W	**16760**	1		
• 6 LED Daylight - 6 W	**16761**	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^3
Microchrome for Ø32 mm pipe housing				
• 3 LED RGB - Centrally Control - 4 W	**16677**	1		
		1		
Mini Chrome for Ø40 mm pipe housing				
• 3 LED RGB - Built-in Control - 4 W	**16686**	1		
• 3 LED RGB - Centrally Control - 4 W	**16687**	1		
Midi Chrome for Ø50 mm pipe housing				
• 6 LED RGB - Built-in Control - 6 W	**16696**	1		
• 6 LED RGB - Centrally Control - 6 W	**16697**	1		
Maxi Chrome for Ø63 mm pipe housing				
• 6 LED RGB - Built-in Control - 6 W	**16766**	1		
• 6 LED RGB - Centrally Control - 6 W	**16767**	1		

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Plastic Body - Footed Underwater Lights

“SPOT 02”
50 W/12 V refractory exclusive plastic body, footed fountain light.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Single Cable Union. Outlet at back.	**05022**	4		
• Ditto, Stainless Steel Frame	**05022C**	4		

“SPOT 02”
Spot 02 with 36 SMD RGB LED bulb, plastic body, footed fountain light. Central PCB.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 36 SMD LED White - 7 W	**160220**	4		
• 36 SMD LED Daylight - 7 W	**160223**	4		
• 36 SMD LED RGB - Centrally Control - 6 W	**160221**	4		
• 36 SMD LED RGB - Built-in Control - 6 W	**160222**	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.

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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 m³
• Rainbow 6, 6 Power LED - Built-in Control	**16427**	1		
• Rainbow 6, 6 Power LED - Centrally Control	**16428**	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 m³
• Rainbow 9, 9 Power LED - Built-in Control	**16457**	1		
• Rainbow 9, 9 Power LED - Centrally Control	**16458**	1		
• Rainbow 18, 18 Power LED - Built-in Control	**164367**	1		
• Rainbow 18, 18 Power LED - Centrally Control	**164368**			
• Rainbow 27, 27 Power LED - Built-in Control	**16467**			
• Rainbow 27, 27 Power LED - Centrally Control	**16468**			
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 avaliable. With 1 m Cable.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 18 Power LED-Built-in Control	**165327**	1		
• 18 Power LED-Centrally Control	**165328**	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 avaliable and are controled by a Central Control Panel. With 1 m Cable.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• 6 Power LED, 1"- Built-in Control	**16432F17**	1		
• 6 Power LED, 1"- Centrally Control	**16432F18**	1		
• 9 Power LED, 1"- Built-in Control	**16432F27**	1		
• 9 Power LED, 1"- Centrally Control	**16432F28**	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.

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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	**16433F27**	1		
• 9 Power LED, With 1" Fountain - Centrally Control	**16433F28**	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.

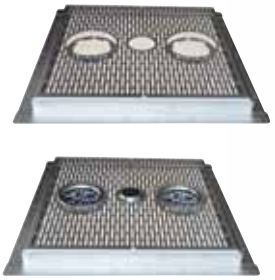
Stainless Steel Pool Light Foots

Adjustable for all type stainless steel body underwater lights.

Description	Code	Pieces/ box	Weight Kg	Volume m³
• Single	**16431Y015**	1		
• Double	**16431Y025**	1		

Dry Pool Systems

Dry surface fountain desgined 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	**16433DF1**	1		
• 400 x 400 mm	**16433DF2**	1		
• 500 x 500 mm	**16433DF3**	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.

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Concrete Pools

Skimmer Liner Pool Ladders

17401

17402

17403

GEMAS Embedded Liner Pool Ladder. Made of FR polyester and reinforced with wood. Complete with Connection Flange and PVC concealing flange. Anti-slip steps.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• l: 227 cm w: 152 cm h: 151,5 cm	**17401**	1		
For oval pools. Massage or counter current				
system can be mounted.				
• l: 184 cm w: 106 cm h: 104,5 cm	**17402**	1		
For rectengular pools.				
• Ladder with massage chair	**17403**	1		
l: 184 cm w: 106 cm h: 104,5 cm				

- 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^3
	17211		0,116	

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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^3
• Gemas PL207, 10 kg Liquid + 20 kg Powder - Gray	**17310**	1	30,000	
• Gemas PL207, 10 kg Liquid + 20 kg Powder - White	**17311**	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^2

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Gemas Joint Tape	**17312**	4		
• Gemas PL05N-01 Adhesive, 10 kg	**17313**	1	10,000	
• Gemas PL05N-01 Adhesive, 20 kg	**17314**	1	20,000	

GEMAS Concrete Waterproofing Primer. Used as primer before painting on reinforced concrete and screed. Average consumption is 8000 - 1000 gr/m^2.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Gemas PL302, 20 kg Liquid + 6 kg Powder	**17315**	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^3
• Gemas BK03, 1 kg	**17316**	1	1,000	
• Gemas BK03, 5 kg	**17317**	1	5,000	

Pool Paints

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^2 on the first floor, 200 gr/m^2 on the second floor. On reinforced concrete surfaces, waterproofing is applied after the primer coat.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
Gemas Pool Paint, 20 kg	**17318**	1	20,000	

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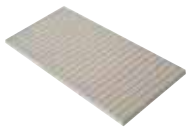
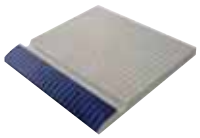
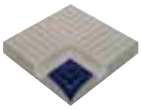
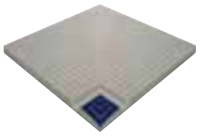
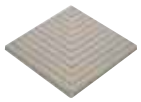
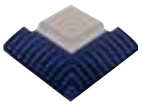
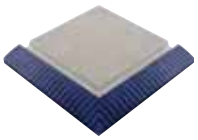
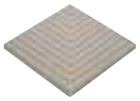
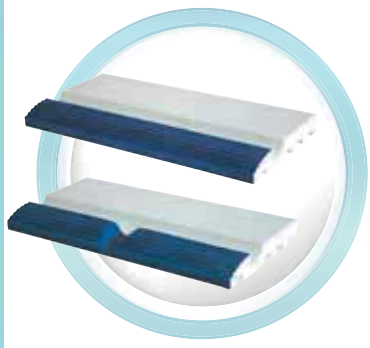
Porcelain Pool Handle and Antislip

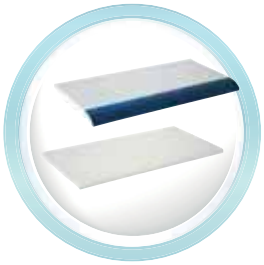
Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 12,2 x 24,5 x 2 cm Handle	**1711AP**			
• 12,2 x 24,5 x 0,9 cm Antislip	**1712AP**			
• 24,5 x 24,5 x 2 cm Square Handle	**1714P**			
• 12 x 12 cm Handle Internal Corner	**1711CI1**			
• 24,5 x 24,5 cm Square Handle	**17141**			
• 24,5 x 24,5 cm Handle Internal Corner	**1714CI1**			
• 12 x 12 x 0,9 cm Antislip Internal Corner	**1711C01**			
• 12 x 12 cm Handle External Corner	**1714**			
• 24,5 x 24,5 cm Handle External Corner	**1714C01**			
• 12 x 12 x 0,9 cm Antislip External Corner	**1712C01**			

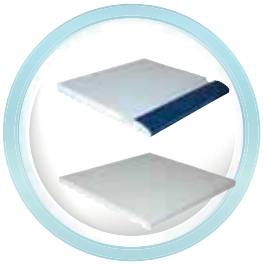






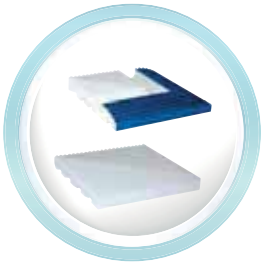
Porcelain Pool Handle and Antislip - Striped Design



Description	Code	Pieces/ box	Weight Kg	Volume m^3
• 12,2 x 24,5 x 2 cm Handle	**1711A**		11,050	0,008
• 12,2 x 24,5 x 1,5 cm Antislip	**1712**		12,840	0,008
• 12,2 x 24,5 x 0,8 cm Stair-Step Antislip	**1713**		12,696	0,007
• 12,2 x 24,5 x 0,8 cm Antislip	**1712A**		9,346	0,007
• 24,5 x 24,5 x 2 cm Square Handle	**1714**			
• 24,5 x 24,5 x 0,8 cm Square Antislip	**1715**			
• Handle Internal Corner (for 1711)	**1711CI**		11,376	0,008
• Handle External Corner (for 1711)	**1711CO**		11,376	0,008
• Antislip Internal Corner (for 1712)	**1712CI**		10,100	0,008
• Antislip External Corner (for 1712)	**1712CO**		10,100	0,008
• Handle Internal Corner (for 1714)	**1714CI**			
• Handle External Corner (for 1714)	**1714CO**			
• Antislip Corner (for 1715)	**1715C**			


1713 - 1712A


1714 - 1715


1711CO - 1712CO

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Glass Mosaics

GEMAS GLASS MOSAICS.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• KSMS-01 Sprayed Turquoise 38 x 38 cm	**17062**			
• KSMS-01 Sprayed Blue 38 x 38 cm	**17061**			
• KSMS-01 Sprayed Turquoise 25 x 25 cm	**17041**			
• KSMS-02 Sprayed Blue 25 x 25 cm	**17031**			
• MIX-13 Mix Blue 25 x 25 cm	**17011**			
• MIX-15 Mix Blue + White 25 x 25 cm	**17051**			

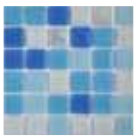
38 x 38 KSMS-01

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 Meterials

"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^3 pool. Minimum volume of water that a full bottle can be implemented is 2 m^3. 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/ box	Weight Kg	Volume m^3
FİX A LEAK Leakproofing Chemical	**17301**	1	1,300	

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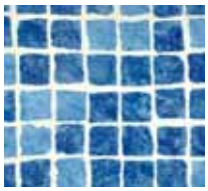
PVC Membrane Pool Coating

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 m².

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Blue - Width: 1.8x25m Thickness: 1.5mm	**17201**			
• Blue Non-Slip - Width: 1.8x25m Thickness: 1.5mm	**17202**			
• Roma Mosaic - Width: 1.8x25m Thickness: 1.5mm	**17203**			
• Roma Mosaic Non-Slip - Width: 1.8x25m Thickness: 1.5mm	**17204**			
• Sapphire - Width: 1.8x25m Thickness: 1.5mm	**17205**			
• Sapphire Non-Slip - Width: 1.8x25m Thickness: 1.5mm	**17206**			
• Blue 3D Mosaic Width: 1.8x25m Thickness: 2mm	**17207**			

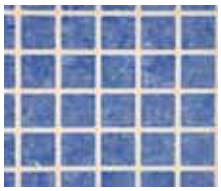
PS: Colour of below pictures may differ from the original products.

Blue
17201



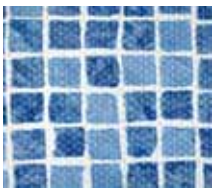
Roma Mosaic
17203

Sapphire
17205



Blue 3D Mosaic
17207

Blue Non-Slip
17202



Roma Mosaic Non-Slip
17204

Sapphire Non-Slip
17206

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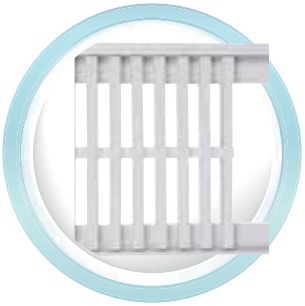
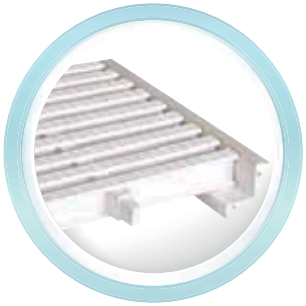
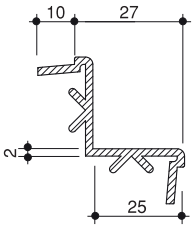
PVC Membrane Pool Coating

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^3
• Blue - price per piece	**17214**	1		
• PVC special conduit side profile (m)	**03752**			







Overflow Detailed

Liquid PVC - 1 l.

Description	Code	Pieces/ box	Weight Kg	Volume m^3
• Light blue 8272	**17212**	1		
• Blue 8273	**17213**	1		

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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

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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.

GEMAS

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

TÜV SÜD ISO 9001

gemas.com.tr

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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