DOSAGE, MEASUREMENT, REGULATION AND AUTOMATION

DOSING EQUIPMENT

Shark floating dispenser

Allows easy dosage of pool chemicals. Made of high impact polystyrene. It has a capacity for 5 tablets of 200 grs.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
36620	1	-	-

SHARK SERIES
Top quality

Floating dispenser

Original floating dispenser ideal for residential and above ground pools. Adjustable chlorine supply. It also allows easy control of chemical product remaining in the dispenser, thanks to an original floating signal system. For a quantity of 1 kg in tablets.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
33813	1	-	-

MINI floating-dispenser for 20 g tablets

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
11733	1	-	-

Dossi-5 in-line and Dossi-10 in-line Bromine feeders

Bromine dispenser. Manufactured from unalterable plastic materials (ABS). With regulation valve, manual purge, Venturi automatic depression purge, and opening key. For pools up to 45 m³ with the Dossi-5 dispenser and up to 90 m³ Dossi-10 dispenser. Connections 1¹/₂". Ø 200 mm.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Dossi-5 in-line. Height 486 mm. Approximate capacity: 5 kg of tablets	21438	1	3.7	0.031
Dossi-10 in-line. Height 725 mm. Approximate capacity: 10 kg of tablets	21439	1	4.8	0.049

ASTRALPOOL ®

DOSING EQUIPMENT

Chlorine and Bromine Feeder 5 kg Dossi-5 off-line

Bromine and Chlorine feeder. Manufactured from unalterable plastic materials (ABS). Approximate capacity: 5 kg of tablets for Dossi-5 and 10 kg for Dossi-10. Supplied with two valves in order to stop the water flow. Height 486 mm and Ø 200 mm. Connections Ø 20 mm.

|	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Dossi-5 off-line For pools up to 100 m³	**01413**	1	3.7	0.031
Dossi-10 off-line For pools up to 200 m³	**43998**	1	4.86	0.048

new

Chlorine and Bromine Feeder 3.5 kg Dossi-3

Chlorine and Bromine feeder. Manufactured from unalterable plastic materials (ABS). Approximate capacity: 3.5 kg of tablets. Lid closing with double safety system. Easy to operate regulation valves. For pools up to 60 m³ with Chlorine and up to 30 m³ with Bromine. Height: 405 mm.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Dossi-3, in-line For direct connection to pipework With 1 1/2" connectors	**24429**	1	1.81	0.03
Dossi-3 off-line For by-pass connection with flexible tube	**24430**	1	1.90	0.031

Code 24429 IN-LINE

FROM FILTER   TO POOL

Code 24430 OFF-LINE

TO FILTER

FROM FILTER   PUMP   TO POOL
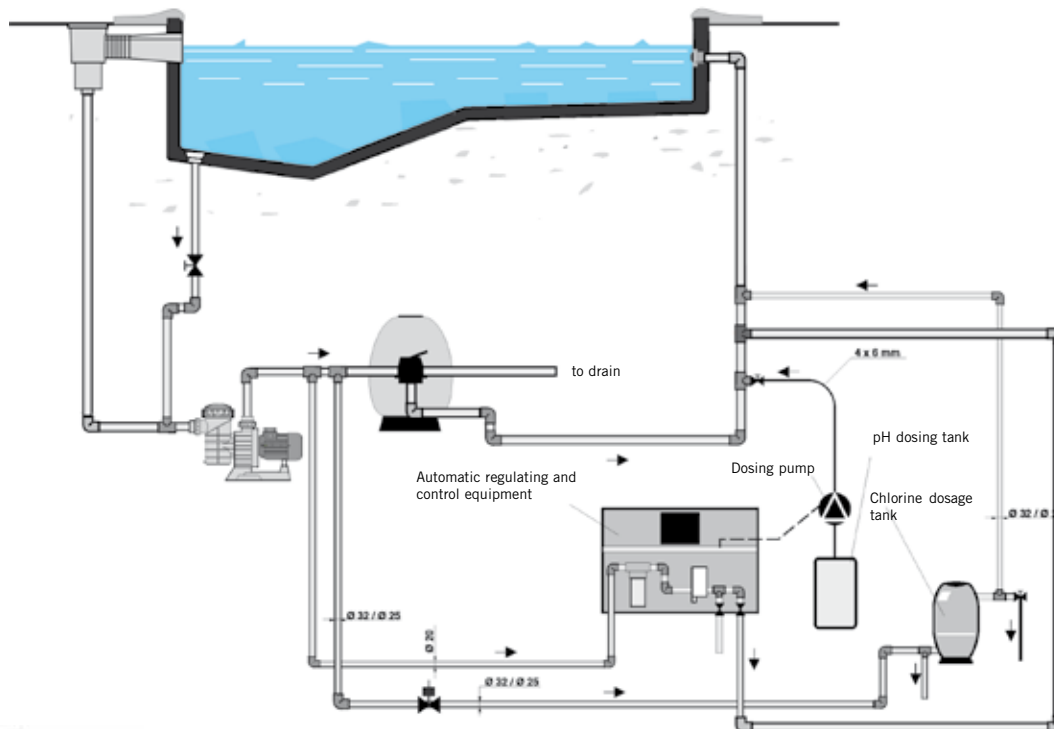
225
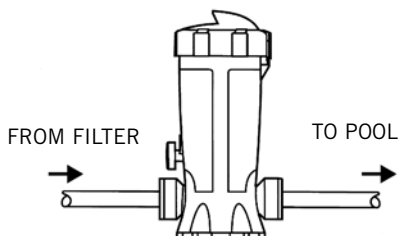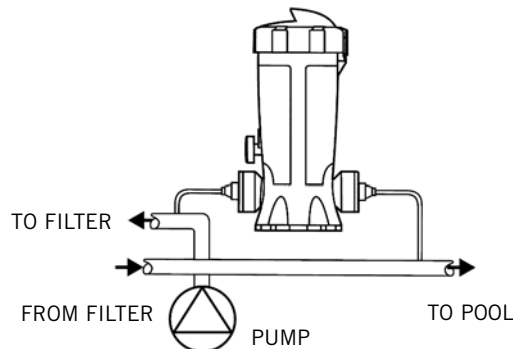
DOSING EQUIPMENT

INSTALLATION DIAGRAM OF CHLORINE/BROMINE DOSING UNITS AND AUTOMATIC REGULATING AND CONTROL EQUIPMENT

to drain

4 x 6 mm.

pH dosing tank

Dosing pump

Automatic regulating and control equipment

Chlorine dosage tank

Ø 32 / Ø

Ø 32 / Ø 25

Ø 20

Ø 32 / Ø 25

Compact dosage tank

Trichlor and Bromine tablet dosage unit with automatic safety valve. Made out of fibreglass and polyester.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Compact dosage tank 40 l	**16631**	1	14.0	0.128
Trichlor (for pools from 200 to 500 m³)				
Bromine (for pools from 150 to 300 m³)				
Compact dosage tank 60 l	**16632**	1	18.0	0.185
Trichlor (for pools from 500 to 1000 m³)				
Bromine (for pools from 300 to 450 m³)				

Safety valve kit

PVC safety valve, with a spring and metallic pull ring. Opening pressure 2.5 - 3 bar (Kg/cm²).

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
For 40 l dosage tank	**16633**	1	0.4	0.002
For 60 l dosage tank	**16634**	1	0.4	0.002

Flowmeter kit

Plastic made flow meter for 100 to 1,000 l/h flow for 40 l dosing tank, and a 250 to 2,500 l/h flow for 60 l dosing tank both installed on a PE panel. Strainer, non-return valve and PVC ball valve included. Used to help regulation for 40 l and 60 l feeders.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
For 40 l tank from 100 to 1000 l/h	**16635**	1	3.0	0.046
For 60 l tank from 250 to 2500 l/h	**16636**	1	3.3	0.050

ASTRALPOOL SIGNATURE SALT ELECTROLYSIS & PH CONTROL

ASTRALPOOL
SIGNATURE

AstralPool has incorporated a new line of equipment into its current salt chlorinators range for residential pools under the name AstralPool Chlore, which has more advanced technological features.

GENERAL FEATURES

	SMART			SMART +			ELITE AstralPool Signature		
Model	30	60	100	60	100	160	60	100	160
Code	42347	42348	42349	42350	42351	42352	42353	42354	42355
Consumption (AC)	6 A	12 A	24 A	12 A	24 A	32 A	12 A	24 A	32 A
Production gr/h	5-6	10-12	20-24	10-12	20-24	25-32	10-12	20-24	25-32
Pool capacity m³	40	80	140	80	140	170	80	140	170
Lukewarm water	40	80	140	80	140	170	80	140	170
Hot water	30	60	100	60	100	140	60	100	140
Fuse	1A (5x20 mm)	2A (5x20 mm)	3,15A (5x20mm)	2A (5x20 mm)	3,15A (5x20mm)	4A (5x20mm)	2A (5x20 mm)	3,15A (5x20mm)	4A (5x20mm)
Minimum flow rate	1 m³/h	2 m³/h	4 m³/h	2 m³/h	4 m³/h	6 m³/h	2 m³/h	4 m³/h	6 m³/h
Electrodes	3	5	7	5	7	7	5	7	7

Estimation criteria based on a filtration time of 6 to 10 hours.

- Twin cell system prevents the formation of incrustations on the chlorinator cell and improves energy af.
- High quality electrodes.
- Salinity alarm with LED indicators.

AstralPool Chlore Elite

new

This product is part of the AP Signature range.
A bubble detector, flow switch and compact probe holder as standard.
High quality electrodes with a 15,000 hour useful life under laboratory conditions and from 4,000 to 7,000 hours under normal conditions.
The Salt levels are controlled through a powerful system of salinity alarms that have different indicators for high and low salt levels.
An automatic system that prevents the formation of deposits in the electrolysis cell - user programmable from the control panel.
Production control 0 - 100% (11 current levels).
Complete and automatic control over water treatment, when pH and chlorine control are added to the benefits of the salt chlorinator.
Dosing pumps not included.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
AstralPool Chlore Elite 60	**42353**	1	5	0.046
AstralPool Chlore Elite 100	**42354**	1	7	0.046
AstralPool Chlore Elite 160	**42355**	1	9	0.046

SALT ELECTROLYSIS & pH CONTROL

AstralPool Chlore Smart

new

Basic equipment in the range with the possibility of adapting two external controls: Redox/cover detector control.

Mass-produced equipment with a bubble detector.

Electrodes have a lifetime of 10,000 hours under laboratory conditions, whilst under normal conditions their expected lifetime is 3,000-5,000 hours.

Salinity alarm: thanks to a shared LED it shows when there is too much or not enough salt in the water.

Polarity inversion regulation current. It has an automatic system that prevents the formation of scale on the electrolysis cells – programmable 2/3 hours.

Production control. Five production control levels from 0 to 100%.

Recommended: control Ph levels using 36002-36004 machines.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
AstralPool Chlore Smart 30	**42347**	1	3	0.046
AstralPool Chlore Smart 60	**42348**	1	5	0.046
AstralPool Chlore Smart 100	**42349**	1	7	0.046

AstralPool Chlore Smart +

new

Middle-of-the-range equipment. External controls can be adapted: redox, cover and flow switch included.

Mass-produced equipment with a bubble detector, flow detector and a 50-1/2 connection collar.

Equipped with high quality electrodes with a lifetime of 15,000 hours under laboratory conditions, and 4,000-7,000 hours under normal conditions.

Salinity alarm: has different LED indicators for HIGH and LOW salinity. It shows the salt levels needed.

Polarity inversion regulation current. It has an automatic system that prevents the formation of scale on the electrolysis cells – can be programmed by users from the control panel.

Production control. Eleven production control levels. From 0 to 100%.

Recommended: control Ph levels using 36002-36004 machines.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
AstralPool Chlore Smart+ 60	**42350**	1	5	0.046
AstralPool Chlore Smart+ 100	**42351**	1	7	0.046
AstralPool Chlore Smart+ 160	**42352**	1	9	0.046

Sel Watch colorimetrical system

new

Colorimetrical device without probe or calibration. High liability controls and regulates production of chlorine through a salt chlorinator or a dosing pump (products not included). Input 220V 50/60Hz. Water temperature of 15º to 32º. Standard lecture every 2 hours, if it is required variable to 30 minutes for frequents pools (public and semi-public pools).

Include:

- 2 dosing pumps, one for the lecture's inlet and the other one for the reactive's dosing.

- 1litre of reagent Amichloryte , mades with vegetal and mineral substances, and certified by an independent laboratory as a non pollutant and not a dangerous substance.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Sel Watch	**45749**	1	4,8	0.071
1 liter reagent Amichloryte	**45750**	1	-	-

SALT ELECTROLYSIS & pH CONTROL

VX Salt Chlorinator

New VX reverse polarity self cleaning salt chlorinators. 63 mm water conn. on cell housing, sophisticated electronic control over reversing times extends cell life. Large LCD user interface, Spa mode output, low salt 4000 ppm. Optional: Timeclock or non clock models.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Chlorine Output				
Up to 96 m³ 25 g/h				
VX 7S – no time clock	**41346**	1	8.33	0.027
VX 7T – time clock	**41347**	1	8.35	0.027
Up to 120 m³ 30 g/h				
VX 9S – no time clock	**41348**	1	8.97	0.027
VX 9T – time clock	**41349**	1	8.99	0.027
VX 7TL T/C & Light Transformer	**41354**	1	-	0.027
Up to 160 m³ 42 g/h				
VX 11S – no time clock	**41350**	1	9.00	0.027
VX 11T – time clock	**41351**	1	9.11	0.027
Up to 200 m³ 50 g/h				
VX 13S – no time clock	**41352**	1	9.90	0.027
VX 13T – time clock	**41353**	1	9.96	0.027
VX 9TL T/C & Light Transformer	**41355**	1	-	0.027

Astral Sel Basic

Reverse polarity self cleaning chlorinator. Easy installation and use. Meant for pools up to 75 m³. Provides a good quality/price ratio. Optional flow switch. (available on request). Assembly on panel NOT included.

		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
	Chlorine production				
Up to 25 m³	6.2 g/h	**41654**	1	6	0.055
Up to 50 m³	12.5 g/h	**41655**	1	6	0.055
Up to 75 m³	17.8 g/h	**41656**	1	6	0.055

Astral Sel

Reverse polarity self cleaning chlorinator. Salt concentration: 5 g/l. Includes: Flow switch, Pool Terre and salt analysis strips. Assembly on panel NOT included.

		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
	Chlorine production				
Up to 40 m³	11.3 g/h	**34624**	1	12.4	0.001
Up to 60 m³	16 g/h	**34625**	1	12.4	0.001
Up to 100 m³	24 g/h	**34626**	1	12.6	0.001
Up to 160 m³	30 g/h	**34627**	1	12.6	0.001

Astral pH

pH automatic control system. Includes: proportional dosing pump; 1 electrode; 1 reagent kit; 1 installation Kit. Automatic calibration. Assembly on panel NOT included.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Up to 200 m³	**34628**	1	4.2	0.001

SALT ELECTROLYSIS & pH CONTROL

Combi Astral Sel - pH

Salt electrolysis and pH regulation. Flowmeter included. Astral Sel and Astral pH provided, not installed onto panel.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Up to 40 m³	**34629**	1	15.0	0.122
Up to 60 m³	**34630**	1	15.0	0.122
Up to 100 m³	**34631**	1	15.2	0.122
Up to 160 m³	**34632**	1	15.2	0.122
Salinity analysis Kit	**07937**	1	0.8	0.001

Control Basic

Small in size, it was designed to prevent siphoning The product requires little maintenance and is easy to install and protected from the spraying of chemical products. The device automatically measures and checks pH/Redox. Use with Astral Sel and Astral Sel Basic is recommended. **Supplied without sensors or calibration solutions. Installation kit included.**
• Plastic container with IP-55 protection
• Backlit LCD display
• Self-calibration of electrodes
• Quality control of electrodes
• Dosing pause during alarms and notification by a blinking LED
• Proportional dosing
• Adjustable set point

Flow rate:	1.5 l/h or 5 l/h
Back pressure:	1.5 bar
pH measurement interval:	0.00…14,00pH
Redox measurement interval:	-999…+999 mV

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Control Basic 1.5 l/h	**36002**	1	2.2	0.01
Control Basic 5.0 l/h	**36003**	1	2.2	0.01
pH electrode with calibration solutions	**36004**	1	0.4	0.001
Redox electrode with calibration solutions	**36005**	1	0.3	0.001

Redox Basic EV

Measuring and automatic control device of Redox levels in the pool and therefore of free Chlorine. Recommended to use with "Astral Sel" and "Astral Sel Basic" salt chlorinators for controlling generated Chlorine. The solenoid valve opens and closes the dosing units according to the readings.
Supplied with sensors and calibration solutions. Installation kit included
Redox measurement interval: -999…+999 mV

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Redox Basic EV	**36006**	1	2.1	0.01
Redox electrode with calibration solutions	**36005**	1	0.3	0.001

Installation kit				
Control Basic	•	•	•	•
Redox Basic EV			•	•

Sensors				
pH sensor with calibration solutions (Code: 36004)	•		•	
Redox sensor with calibration solutions (Code: 36005)		•		•

230

SALT ELECTROLYSIS FOR PUBLIC POOLS

Salt Electrolysis for public pools

Salt water chlorinators for commercial pools are becoming popular because they are efficient, practical, safe and well priced. Our wide range of industrial electrolysis systems covers self-cleaning equipment of up to 500 grams/hour of Chlorine, which makes it possible to use saline electrolysis to treat the water at any public use facility.
Our **Basic** range incorporates EX electrodes which provide the highest durability in self-cleaning systems.
The **Plus** range incorporates a control and automatic dosing equipment for ORP (Redox) and PH which allows for better management of the equipment and provides an excellent water quality at all times.
The **Plus Plus** range incorporates a Chlorine and pH value control and regulation system
Main advantages:
Safety: There is no need to store, handle or dose any chemical products and therefore it is a much safer system. The raw material stored is common salt.
Savings: The introduction of saline electrolysis systems can bring net savings in operating costs of around 50-60%, with respect to traditional systems
Peristaltic pump not included.

35252

35253-35254
35255-35256

35257

Basic equipment

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
A-40EX 40 g/h Self-cleaning	**35252**	1	30	0.026
A-65EX 65 g/h Self-cleaning	**35253**	1	40	0.131
A-100EX 100 g/h Self-cleaning	**35254**	1	55	0.131
A-150EX 150 g/h Self-cleaning	**35255**	1	70	0.131
A-250EX 250 g/h Self-cleaning	**35256**	1	85	0.131
A-500EX 500 g/h Self-cleaning	**35257**	1	120	0.178

	A-40	A-65	A-100	A-150	A-250	A-500
Input (ac)	230 V / 50 - 60 Hz			380 V / 50 - 60 Hz		
	2.4 A	3.9 A	5.8 A	3.3 A	5.5 A	12 A
Cable:	H017 V/K					
Input (ac)	3 x 1.0 mm²	3 x 1.0 mm²	3 x 2.5 mm²	5 x 1.5 mm²	5 x 4 mm²	5 x 4.0 mm²
Output (dc)	2 x 10 mm²	2 x 25 mm²	2 x 35 mm²	2 x 70 mm²	2 x 120 mm²	3 x 240 mm²
Pipe connections:	Female thread 1¹/₂"	Flanges D63 mm		Flanges D90 mm		
Fuse	5.0 A (6 x 32 mm)	7.0 A (6 x 32 mm)	10 A (6 x 32 mm)	QM K6	QM K10	QM K20
Output	9 V / 25 A	10 V / 40 A	10 V / 65A	10 V / 90 A	10 V / 150 A	10 V / 300 A
Cooling	Natural	Ventilador				
Minimum flow	9 m³/h	14 m³/h	20 m³/h	30 m³/h	50 m³/h	90 m³/h
Electrodes	8	12	8	12	16	2 x 16

Equipments with pH/ORP (redox) control

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
A-40+ 40 g/h Self-cleaning	**35258**	1	30	0.026
A-65+ 65 g/h Self-cleaning	**35259**	1	40	0.088
A-100+ 100 g/h Self-cleaning	**35260**	1	55	0.088
A-150+ 150 g/h Self-cleaning	**35261**	1	70	0.088
A-250+ 250 g/h Self-cleaning	**35262**	1	85	0.088
A-500+ 500 g/h Self-cleaning	**35263**	1	120	0.178

	pH	ORP
Included elements	Sensor H-035 / Calibration solution pH (7.0/4.0)	Sensor RX-02 / Calibration solution ORP (470 mV)
	Electrode holder (2x) PE 1/2"	
pH control output	230 V / 50-60 Hz / 0.5 A max., ON/OFF	
Range	0.0 - 9.9	0 - 999 mV
Control range	7.0 - 7.8	650 - 850 mV
Precision	0.1 pH	1 mV
Calibration	(pH) Automatic, two modes Fast: one point calibration Standard: two point calibration	Automatic: one point calibration

ASTRALPOOL

SALT ELECTROLYSIS FOR PUBLIC POOLS

Equipments with pH/Chlorine (ppm) control

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
A-40 ++ production 40 g/h Self-cleaning pH/Cl	**45836**	1	30	0.026
A-65 ++ production 65 g/h Self-cleaning pH/Cl	**45837**	1	40	0.088
A-100 ++ production 100 g/h Self-cleaning pH/Cl	**45838**	1	55	0.088
A-150 ++ production 150 g/h Self-cleaning pH/Cl	**45839**	1	70	0.088
A-250 ++ production 250 g/h Self-cleaning pH/Cl	**45840**	1	85	0.088
A-500 ++ production 500 g/h Self-cleaning pH/Cl	**45841**	1	120	0.178

	pH	Free chlorine
Included elements	Sensor H-035 / Calibration solution pH (7.0/4.0)	Sensor CLO102
	Electrode holder with inductive flow detector, flow control and pre-filter	
Dimensions	600 x 240 x 120 mm (pannel)	
pH control output	230 V / 50-60 Hz / 0.5 A max., ON/OFF	
Range	0.0 - 9.9	0.0 - 5.0 ppm
Control range	7.0 - 7.8	0.0 - 5.0 ppm
Precision	0.1 pH	0.1 ppm
Calibration	(pH) Automatic, two modes Fast: one point calibration Standard: two point calibration	FREE CHLORINE: automatic (one point with external DPD calibrator, not supplied)

Peristaltic pump

Peristaltic pump with variable flow of 0 - 6.0 l/h. 220 VAC power supply. 1.5 bar maximum pressure. Tubing: Santoprene. Includes the following accessories: suction filter, 3/8" injection connector, 4x6 mm PVC suction tube 2 m in length and a 4x6 mm PE impulse tube 2 m in length.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
0,6 – 4,0 l/h	**40834**	1	1.5	0.001
0 – 6,0 l/h	**40995**	1	1.5	0.001

Pool Terre

Conexión toma tierra para cualquier equipo de electrolisis de sal con collarín incluido.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
For hose Ø 50 mm	**25894**	1	0.6	0.001
For hose Ø 63 mm	**25895**	1	0.6	0.001

Other sizes upon special order.

ASTRALPOOL

UV AUTOMATIC DISINFECTION

A fully automatic ultraviolet light (UV-C) system that provides double water desinfection via a significant reduction in chloramines (combined Chlorine) and the elimination of bacteria, viruses and other micro-organisms that are present in pool water by preventing their production.

The end result is exellent water quality, without unpleasant odours or eye irritation, less chemical expense, and savings on water recycling. A residual level of desinfection is still necessary, although the cost of chemical products is singlificantly lower.

Easy installation via by-pass in the pool return line and minimal maintenance: only the lamp may need replacement.

Clair-UV "MP" ultraviolet system for commercial pool

Medium pressure.

Efficient reduction in chloramines present in water and elimination of micro-organisms even those that are normally resistant even to Chlorine. Complete with cable and connectors. **Body in S.S. AISI-316L - Medium pressure lamp. Dosage 60 mJ. Electrical control box: IP-54 protection.**

Code	Model Clair-UV MP	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Max pressure bar	Total Height H (mm)	Ø C of reactor
44385	MP30	30	1	600W	90	80 ó 100	3	450	273
44386	MP30	50	1	1kW	150	80 ó 100	3	450	273
44330	MP100	80	1	1kW	150	125	10	1175	273
44331	MP125	140	1	3kW	450	150	10	1168	273
44332	MP140	300	1	3kW	450	200	10	1244	355.6
44333	MP240	450	2	3kW	750	250	10	1020	355.6
44334	MP340	675	3	3kW	1350	300	10	1016	355.6
44335	MP440	900	4	3kW	1800	300	10	824	355.6
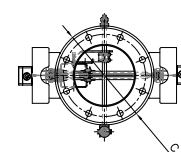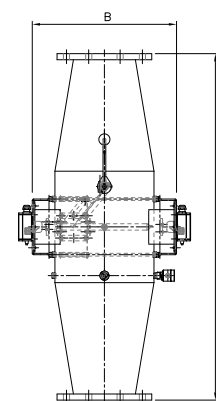
Code	Standard Packaging	Standard Weight kg	Standard Volume m³
44385	1	20	0.020
44386	1	20	0.020
44330	1	49	0.049
44331	1	46	0.046
44332	1	90	0.090
44333	1	88	0.088
44334	1	80	0.080
44335	1	92	0.092

Equipment covered on the inside in CHEMCOAT for sea water applications

Code	Model Clair-UV MP	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Max pressure bar	Total Height H (mm)	Ø C of reactor
44389	MP100	30	1	1kW	150	125	3	1175	273
44390	MP125	75	1	3kW	450	150	10	1168	273
44391	MP140	125	1	3kW	450	200	10	1244	355.6
44392	MP240	250	2	3kW	750	250	10	1020	355.6
44393	MP340	380	3	3kW	1350	300	10	1016	355.6
44394	MP440	500	4	3kW	1800	300	10	824	355.6

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
44389	1	49	0.049
44390	1	46	0.046
44391	1	90	0.090
44392	1	88	0.088
44393	1	80	0.080
44394	1	92	0.092

UV AUTOMATIC DISINFECTION

Clair-UV "LP" ultraviolet system for commercial pools

Body in S.S. AISI 316L - Amalgame Lamps at low pressure. Dosage 30 mJ. Maximum temperature 60ºC. maximum pressure 10 bar. Electrical control box: IP-54 protection. Ideal to eliminate microorganisms.

Code	Model Clair-UV LP	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height H (mm)	Ø C of reactor
35968	IAM1090/120	12,5	1	120	40	65	973	90
35969	IAM1150/120	23	1	120	40	80	945	150
35970	IAM2205/120	56	2	120	80	100	977	205
35971	IAM3273/120	115	3	120	120	150	985	273
35974	IAM1150/300	44	1	300	100	80	1120	150
35975	IAM2273/300	158	2	300	200	150	1165	273
35976	IAM3273/300	237	3	300	300	150	1165	273
35977	IAM4273/300	305	4	300	400	200	1165	273
35978	IAM5273/300	365	5	300	500	200	1162	273

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
35968	1	5.0	0.005
35969	1	14.5	0.0145
35970	1	26.0	0.026
35971	1	46.0	0.046
35974	1	18.0	0.018
35975	1	56.5	0.0565
35976	1	56.5	0.0565
35977	1	56.5	0.0565
35978	1	56.5	0.0565

Clair-UV "LP" ultraviolet system for private pools - 3 bar

Body in S.S. AISI 316L - Ho Lamps at low pressure. Dosage 30 mJ. Maximum water temperature 40ºC. Maximum pressure 3 bar. Electrical control box: IP-54 protection. With time meter.

Code	Model Clair-UV LP	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height H (mm)	Ø C of reactor
32685	Clair-UV 10	7	1	38	13	1 1/2"	423,5	150
32686	Clair-UV 20	14	1	59	20	1 1/2"	693,5	150
32687	Clair-UV 30	20	1	87	29	2"	939,5	150
32688	Clair-UV 40	30	1	102	34	2 1/2"	1193,54	150

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
32685	1	7	0.007
32686	1	12	0.012
32687	1	17	0.017
32688	1	22	0.022

UV AUTOMATIC DISINFECTION

Clair-UV "LP" ultraviolet system for residential pools - 3 bar

Body in S.S. AISI 316L - Ho Lamps at low pressure. Dosage 30 mJ. Maximum water temperature 40ºC. Maximum pressure 3 bar. Electrical control box: IP-54 protection.

Code	Model Clair-UV LP	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Max pressure bar	Total Height H (mm)	Ø C of reactor
35963	Clair-UV3205HO	45	3	87	87	2$\frac{1}{2}$"	3	984	205
35964	Clair-UV4205HO	65	4	87	116	2$\frac{1}{2}$"	3	984	205
35965	Clair-UV5205HO	85	5	87	145	2$\frac{1}{2}$"	3	984	205
35966	Clair-UV6205HO	95	6	87	174	2$\frac{1}{2}$"	3	984	205
35967	Clair-UV6273HO	130	6	87	174	DN80	3	984	273

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
35963	1	26	0.026
35964	1	26	0.026
35965	1	26	0.026
35966	1	26	0.026
35967	1	114	0.114

"LP" Elektra range E ultraviolet system for residential pools

The Elektra E range has a plastic chamber made of PVC, non-corrosive with inhibition of UV. **Body in plastic PVC. It works with High power and low pressure lamps (8,000 hours). Dosage 30 mJ. Maximum water temperature 40ºC.**

Code	Model LP Elektra E	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height H (mm)	Ø C of reactor
36839	E-5	7	1	30	10	63	450	20.3
36840	E-10	13	1	58	20	63	629	20.3
36841	E-20	18	1	80	26	63	987	20.3
36842	E-40	25	1	90	30	63	1168	20.3

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
36839	1	7.4	0.0074
36840	1	13.0	0.013
36841	1	24.0	0.024
36842	1	30.0	0.030

"LP" Elektra range ES ultraviolet system for residential pools

The Elektra ES range has a Stainlees steel interior reflector in order to increase the reflective and purifying power inside the chamber, it also has a beautiful polished stainless steel external body. **It works with High power and low pressure lamps (8,000 hours). PVC/Stainless Steel Private Pools. Dosage: 30 mJ. Max. water temperature 40ºC**

Code	Model LP Elektra ES	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height H (mm)	Ø C of reactor
36843	ES-5	7	1	30	10	63	450	20.3
36844	ES-10	13	1	58	20	63	629	20.3
36845	ES-20	18	1	80	26	63	987	20.3
36846	ES-40	25	1	90	30	63	1168	20.3

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
36843	1	7.4	0.0074
36844	1	13.0	0.013
36845	1	24.0	0.024
36846	1	30.0	0.0300

UV AUTOMATIC DISINFECTION

"LP" Elektra range EA4H ultraviolet system

The Elektra EA range is used in Spas, Small pools and fish ponds. Exclusive design with a stainless steel chamber, perfect union assembly of chambers, which makes cleaning of Quarz tubes easier. The rotation of 360º of the inlet and outlet position of this range, makes an easy installation. **HO Lamps at Low Pressure. Dosage: 30 mJ. Maximum water temperature 40ºC.**

Code	Model LP Elektra EA4H	Flow rate Q (m³/h)	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height H (mm)	Ø C of reactor
36835	EA-4H-5	3,6	1	30	10	63	450	10.16
36836	EA-4H-10	7	1	58	20	63	629	10.16
36837	EA-4H-20	9,6	1	80	26	63	990	10.16
36838	EA-4H-40	10,8	1	90	30	63	1170	10.16

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
36835	1	2.6	0.0026
36836	1	4.0	0.0040
36837	1	7.0	0.0070
36838	1	8.5	0.0085

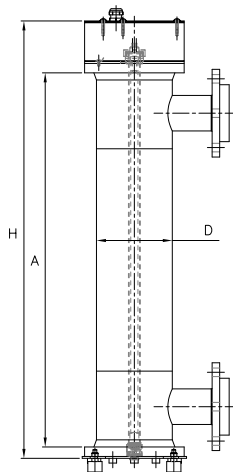### Clair-UV "PE" ultraviolet system (aquaculture applications) - special sea water model

Clair UV PE range – special sea water model (aquaculture applications). Low pressure.
Irradiation chamber manufactured in Polyethylene (PÊ), a plastic material unaffected by salt water. Complete with cable and connectors for connection to pool control cabinet. **HO Lamps at low pressure. Dosage 35 mJ. Maximum water temperature 40ºC. Maximum pressure: 3 bar. Electrical control box: IP-66 protection. Includes 30mA limit switch.**

Code	Modelo Clair-UV PE	Flow rate Q m³/h	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height A (mm)	Ø C of reactor
32691	PE1160HO	5	1	87	29	D75=DN65	978	160
32692	PE2160HO	10	2	87	58	D75=DN65	978	160
32693	PE3160HO	20	3	87	75	D75=DN65	978	160
32694	PE4250HO	30	4	87	116	D140=DN125	978	250
32695	PE5250HO	40	5	87	145	D140=DN125	978	250
32696	PE6250HO	50	6	87	174	D140=DN125	978	250

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
32691	1	10.5	0.105
32692	1	10.5	0.105
32693	1	10.5	0.105
32694	1	23.5	0.235
32695	1	23.5	0.235
32696	1	23.5	0.235

UV AUTOMATIC DISINFECTION

Clair-UV "PE" ultraviolet system - Amalgame Lamps

Body in POLYETHYLENE. Amalgame Lamps. Dosage 35 mJ. Max. water temperature 60ºC. Maximum pressure: 3 bar. Electrical control box: IP-66 protection. Includes 30mA limit switch.

Code	Model Clair-UV PE	Flow rate Q m³/h	Nº Lamps	Consumpt. lamps	Total lamp power UV-C (W)	DN flange inlet/outlet	Total Height A (mm)	Ø C of reactor
35986	PE2315/350AM	56	2	300	300	D200=DN200	983	250
35987	PE3315/350AM	86	3	300	400	D200=DN200	983	250
35988	PE4315/350AM	103	4	300	500	D200=DN200	983	250
35990	PE5315/300AM	137	5	300	500	D200=DN200	1205	315
35991	PE6315/300AM	163	6	300	600	D200=DN200	1171	315
35992	PE7315/300AM	180	7	300	700	D200=DN200	1171	315

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
35986	1	23.5	0.0235
35987	1	28.0	0.0280
35988	1	28.0	0.0280
35990	1	51.0	0.0510
35991	1	51.0	0.0510
35992	1	51.0	0.0510

ATTENTION: The design and application of ozone for public swimming pools should be undertaken by qualified personnel.

AUTOMATIC OZONE DISINFECTION SYSTEM FOR RESIDENTIAL POOLS

INSTALLATION DIAGRAM FOR TRIOX-R OZONE GENERATOR
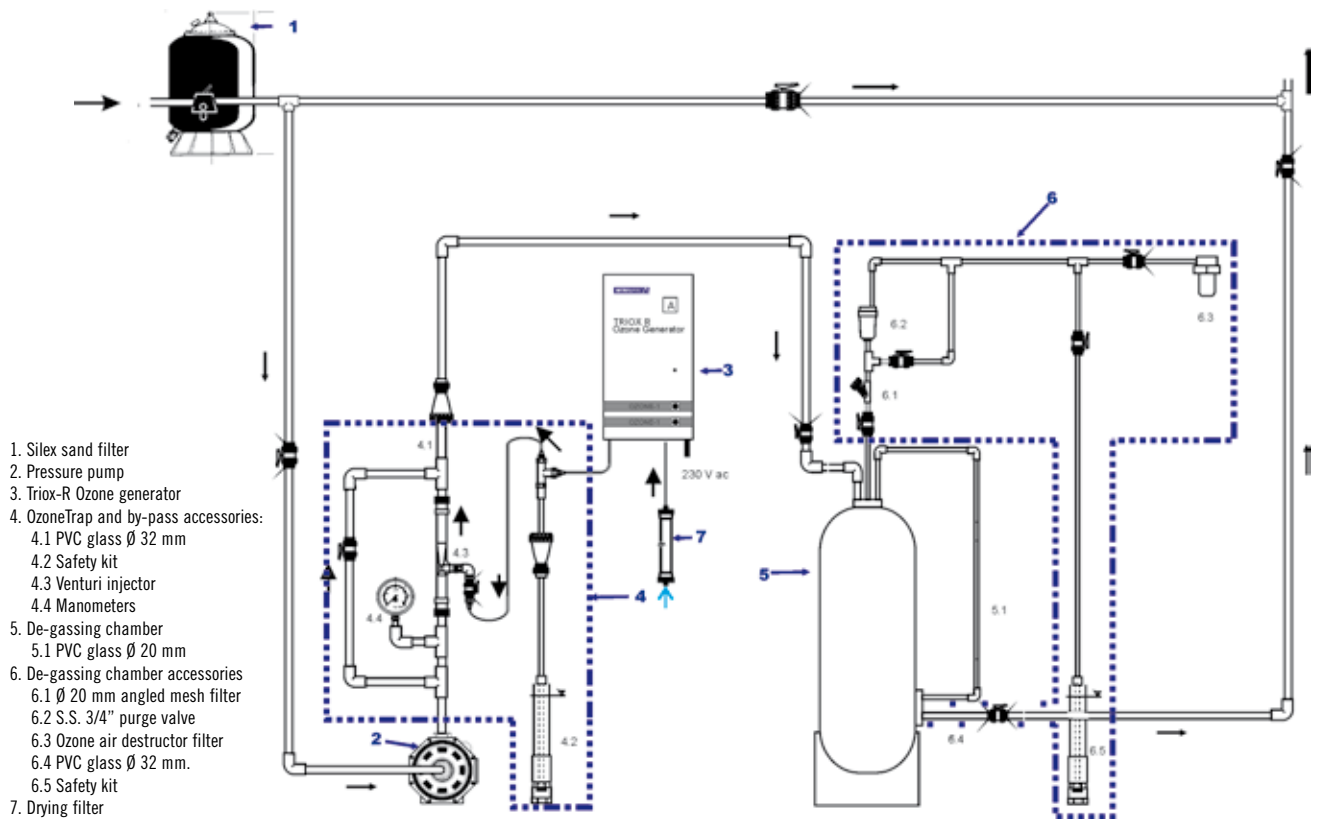
1. Silex sand filter
2. Pressure pump
3. Triox-R Ozone generator
4. OzoneTrap and by-pass accessories:
   4.1 PVC glass Ø 32 mm
   4.2 Safety kit
   4.3 Venturi injector
   4.4 Manometers
5. De-gassing chamber
   5.1 PVC glass Ø 20 mm
6. De-gassing chamber accessories
   6.1 Ø 20 mm angled mesh filter
   6.2 S.S. 3/4" purge valve
   6.3 Ozone air destructor filter
   6.4 PVC glass Ø 32 mm.
   6.5 Safety kit
7. Drying filter

TRIOX-R Residential Ozone Generator

Ozone is the most powerful oxidising agent known, and is currently used in desinfecting processes for pool water. It can be used on its own or in combination with other disinfectants such as Chlorine and Bromine. TRIOX-R ozone generating systems are designed to be used in spas and residential pools with a capacity up to 200 m³. These are extremely compact units allowing easy access to their components thus making installation, maintenance and repair much easier. **All TRIOX-R must have the 33511 code no. added to them when ordering.**

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
TRIOX-R SPAS For spas up to 5 m³ capacity	**33556**	1	23.0	0.12
TRIOX-R 1 For residential pools up to 75 m³ and public pools up to 50 m³	**33557**	1	24.0	0.12
TRIOX-R 2 For residential pools up to 150 m³ and public pools up to 100 m³	**33558**	1	25.0	0.14
TRIOX-R 3 For residential pools up to 200 m³ and public pools up to 150 m³	**33559**	1	47.0	0.19
TRIOX-R 4 For public pools up to 200 m³	**33560**	1	48.0	0.19
Ozone trap and by-pass accessories, include venturi, PVC glass Ø 32 mm and manometer.	**33511**	1	2.0	0.05

AUTOMATIC OZONE DISINFECTION SYSTEM FOR RESIDENTIAL POOLS

Booster pumps

Centrifugal multi-cellular horizontal pump. All parts in contact with the fluid are made of stainless steel. Integrated thermal protection in single-phase motors. Resistant to corrosion.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Model 70/5 - 0.75 kW for TRIOX-R1	07946	1	-	-
Model 70/7 - 0.90 kW for TRIOX-R2	07947	1	-	-
Model 120/7 - 1.10 kW for TRIOX-R3/4	07948	1	-	-

Seawater or tri-phase 400V versions available on request

Drying filter

Manufactured in PVC, they are filled with drying silicon gel with colour indicator to indicate drying gel state. Inlet and outlet with PVDF 1⁄4" connector to Ø 8 mm tube. Optional, recommended for public pools.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
	07950	1	2.0	0.036

De-gassing chamber (optional)

These are fibreglass and Polyester resin chambers. **All chambers must have the code no. 33561 added,** which are de-gassing chamber accessories.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Model Bovin 70 L for TRIOX-R1	33530	1	11.0	0.120
Model Bovin 92 L for TRIOX-R2	33531	1	13.0	0.140

De-gassing chamber accessories

De-gassing chamber accessories, includes ozone air destructor, 1⁄2" purge valve in AISI-316 stainless steel, prefilter, PVC glass tube Ø 32 mm for de-gassed water outlet.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
	33561	1	2	0.5

33561

INSTALLATION COMPONENTS SELECTION TABLE

Volume m³	Ozone Generator	Booster pump	De-gassing chamber	Drying fitter
Residential:				
Up to 75	TRIOX-R 1 (33557) + accessories (33511)	70/5 (07946)	Bovin 70 L (33530) + accessories (33561)	07950
Up to 150	TRIOX-R 2 (33558) + accessories (33511)	70/7 (07947)	Bovin 92 L (33531) + accessories (33561)	07950
Up to 200	TRIOX-R 3 (33559) + accessories (33511)	120/7 (07948)	Bovin 140 L (33532) + accessories (33561)	07950
Commercial:				
Up to 50	TRIOX-R 1 (33557) + accessories (33511)	70/5 (07946)	Bovin 70 L (33530) + accessories (33561)	07950
Up to 100	TRIOX-R 2 (33558) + accessories (33511)	70/7 (07947)	Bovin 92 L (33531) + accessories (33561)	07950
Up to 150	TRIOX-R 3 (33559) + accessories (33511)	120/7 (07948)	Bovin 140 L (33532) + accessories (33561)	07950
Up to 200	TRIOX-R 4 (33560) + accessories (33511)	120/7 (07948)	Bovin 140 L (33532) + accessories (33561)	07950

AUTOMATIC OZONE DISINFECTION SYSTEM FOR COMMERCIAL POOLS

TRIOX-P industrial Ozone Generator

Designed to simplify traditional ozone generators weak points, each unit consists of a reactor and a transformer. Directly connected without any high voltage cable. Includes safety control systems. High energy efficiency thanks to its proportional/discontinuous regulation system. The whole system is controlled by an electronic system that is perfectly compatible with any industrial control network (Profibus, ModBus, Ethernet etc.). Remote maintenance and breakdown supervision may be carried out via a telephone line.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
TRIOX P-20 Ozone Generator	**33745**	1	151	0.594
TRIOX P-40 Ozone Generator	**33746**	1	198	0.594
TRIOX P-60 Ozone Generator	**33747**	1	262	0.792
TRIOX P-80 Ozone Generator	**33748**	1	311	0.864
TRIOX P-100 Ozone Generator	**33749**	1	450	0.960
TRIOX P-120 Ozone Generator	**33750**	1	490	0.960
TRIOX P-140 Ozone Generator	**33751**	1	535	0.960
TRIOX P-160 Ozone Generator	**33752**	1	525	1.420
TRIOX P-180 Ozone Generator	**33753**	1	540	1.420
TRIOX P-200 Ozone Generator	**33754**	1	565	1.420
TRIOX P-260 Ozone Generator	**33755**	1	670	1.584
TRIOX P-300 Ozone Generator	**33756**	1	735	1.782
TRIOX P-500 Ozone Generator	**33758**	1	945	2.376

SELECTION OF OZONE GENERATOR SYSTEMS TABLE

Code	Description	Production gO₃/h	Pool volume (m³) (turnover 4 h)	
			Ozonation 100%	Ozonation 30%
33745	TRIOX P-20	20	80	250
33746	TRIOX P-40	40	160	480
33747	TRIOX P-60	60	240	720
33748	TRIOX P-80	80	320	960
33749	TRIOX P-100	100	400	1200
33750	TRIOX P-120	120	480	1440
33751	TRIOX P-140	140	560	1680
33752	TRIOX P-160	160	640	1920
33753	TRIOX P-180	180	720	2160
33754	TRIOX P-200	200	800	2400
33755	TRIOX P-260	260	1040	3120
33756	TRIOX P-300	300	1200	3600
33758	TRIOX P-500	500	2000	6000

NOTE: For other ozone production data and for systems fed with oxygen, please enquire.
NOTE: ONLY OZONE GENERATOR - REST OF THE EQUIPMENT IS NOT INCLUDED

AUTOMATIC OZONE DISINFECTION SYSTEM FOR COMMERCIAL POOLS

### Mixing ozone with water: Contact chambers

Contact chambers manufactured in fibreglass and polyester resin with internal parts made of 100% non-corrosive PVC. With an internal gel coat that can support maximum ozone concentrations of 0.5 ppm. Working pressure of 2.5 Kg/cm² and test pressure of 3.75 kg/m² equipped with lateral manhole, lateral sight-glass, 3/4" water purge and air relief to be connected to an automatic purge for ozone. Thanks to its internal design, optimum mixing of ozone and air / water is assured.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Laminated fibreglass contact chamber				
Ø 800 mm connection Ø 63 mm Volume: 992 l	**11615**	1	140	2.0
Bobbin wound fibreglass contact chamber				
Ø 1050 mm connection Ø 110 mm Vol: 1500 l	**09993**	1	207	2.47
Ø 1200 mm connection Ø 140 mm Vol: 1870 l	**09994**	1	234	3.16
Ø 1400 mm connection Ø 140 mm Vol: 2691 l	**09995**	1	274	4.66
Ø 1600 mm connection Ø 160 mm Vol: 3622 l	**09996**	1	360	6.22
Ø 1800 mm connection Ø 200 mm Vol: 4731 l	**09997**	1	416	8.48
Ø 2000 mm connection Ø 225 mm Vol: 5802 l	**09998**	1	483	10.32

SELECTION OF OZONE / CONTACT CHAMBERS

Ozone Generator	Contact Chamber 2 minutes			Relief Valve	
	Diameter (mm)	Code	Units	Code	Units
TRIOX P-20	800	**11615**	1	**15740**	1
TRIOX P-40	1050	**09993**	1	**15740**	2
TRIOX P-60	1200	**09994**	1	**15740**	2
TRIOX P-80	1400	**09995**	1	**15740**	2
TRIOX P-100	1600	**09996**	1	**15741**	1
TRIOX P-120 / P-140	1800	**09997**	1	**15741**	1
TRIOX P-160 / P-180	2000	**09998**	1	**15741**	2
TRIOX P-200	2350	**09999**	1	**15741**	2
TRIOX P-260	1800	**09997**	2	**15741**	4
TRIOX P-300	2000	**09998**	2	**15741**	8
TRIOX P-500	2000	**09998**	3	**15741**	12
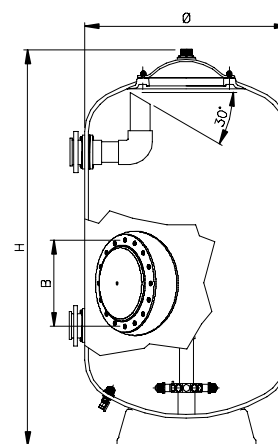
Code	Ø (mm)	H (mm)	B (mm)
11615	800	2080	300x400
09993	1050	2070	400
09994	1200	2080	400
09995	1400	2175	400
09996	1600	2310	400
09997	1800	2320	400
09998	2000	2460	400

FRONT
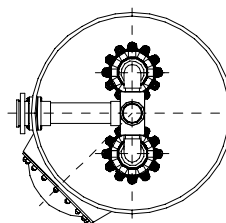
PLAN-VIEW

AUTOMATIC OZONE DISINFECTION SYSTEM FOR COMMERCIAL POOLS

Destruction of ozone in water: Ozone destruction filter and purge valve
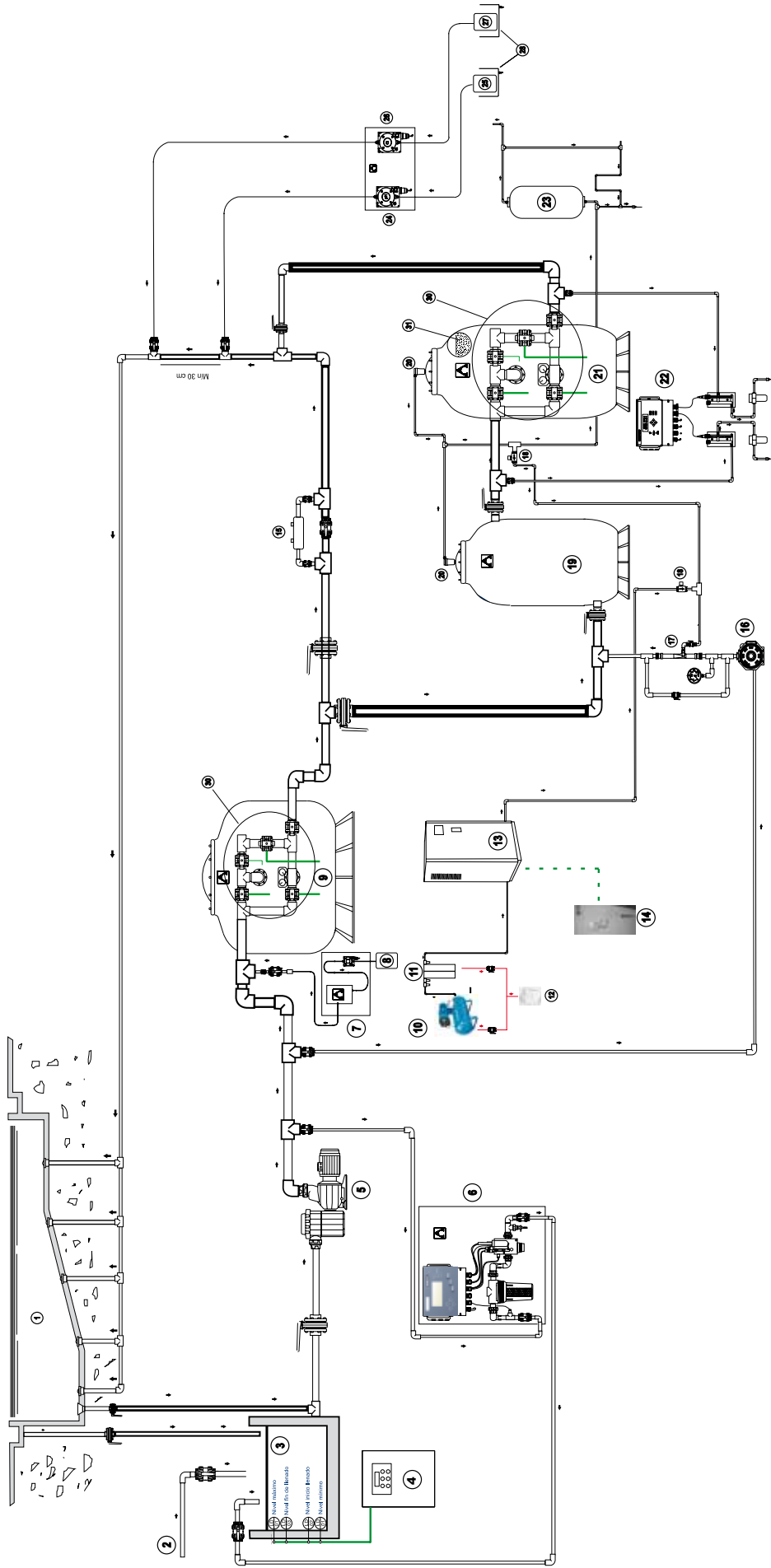
Oslo filter, high performance, vertical bobbin wound filter. See technical features in page 128.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Ozone destruction filter Ø 1050 mm	**04612**	1	207	2.5
Ozone destruction filter Ø 1200 mm	**04650**	1	234	3.2
Ozone destruction filter Ø 1400 mm	**04616**	1	294	4.7
Ozone destruction filter Ø 1600 mm	**04651**	1	360	6.2
Ozone destruction filter Ø 1800 mm	**04624**	1	416	8.5
Ozone destruction filter Ø 2000 mm	**04652**	1	483	10.3
Ozone destruction filter Ø 2350 mm	**08694**	1	651	15.8
Ozone destruction filter Ø 2500 mm	**08706**	1	820	20.8
Relief valve G 3/4" F x 1/2" M A valve manifold is required	**15740**	1	0,8	0,01

SELECTION TABLE OF OZONE DESTRUCTION SYSTEMS

Ozone Generator	Ozone destroyer filter			Relief Valve		Activated Carbon		Destroyer ozonated air	
	Ø (mm)	Code	Unit	Code	Unit	Code	Unit (25 kg)	Code	Unit
TRIOX P-20	1050	**04612**	1	**15740**	1	QC02399100	18	**33507**	2
TRIOX P-40	1200	**04650**	1	**15740**	2	QC02399100	23	**33508**	2
TRIOX P-60	1400	**04616**	1	**15740**	2	QC02399100	31	**33508**	2
TRIOX P-80	1600	**04651**	1	**15740**	2	QC02399100	41	**33509**	2
TRIOX P-100	1800	**04624**	1	**15741**	1	QC02399100	51	**33510**	1
TRIOX P-120	2000	**04652**	1	**15741**	1	QC02399100	63	**33510**	1
TRIOX P-140	2350	**08694**	1	**15741**	2	QC02399100	74	**33510**	1
TRIOX P-160	2350	**08694**	1	**15741**	2	QC02399100	74	**33510**	1
TRIOX P-180	2500	**08706**	1	**15741**	2	QC02399100	79	**33510**	1
TRIOX P-200	2500	**08706**	1	**15741**	2	QC02399100	79	**33510**	1
TRIOX P-260	2350	**08694**	2	**15741**	2	QC02399100	148	**33510**	1
TRIOX P-300	2350	**08694**	2	**15741**	2	QC02399100	148	**33510**	1
TRIOX P-500	2350	**08694**	3	**15741**	3	QC02399100	222	**33510**	1

INSTALLATION DIAGRAM FOR THE OZONATION OF A COMMERCIAL POOL

1   Pool shell
2   Main water supply inlet
3   Balance tank
4   Level control for balance tank
5   Filtration pump
6   Poolwatch mV/pH/ppm/°C control and regulation system
7   Continuous Autoflok flocculation system
8   Flocculant tank

9   Sand filter
10 Air compressor
11 Adsorption Air dryer
12 Oil / water separator
13 Ozone generator
14 Ozone leakage detector
15 Heat exchanger
16 Pressure pump
17 Venturi injector

18 Re-flow electrovalve
19 Contact chamber
20 Automatic ozone air relief
21 Ozone water destruction filter
22 Poolwatch Rx/Rx
23 Ozonized air destroyer
24 pH corrector dosifying pump
25 Storage tank for pH corrector
26 Disinfectant liquid dosifying pump

27 Storage tank for disinfectant liquid
28 Storage tanks for chemical spillage
29 Valve manifold for sand filter
30 Valve manifold for ozonized water destruction filter
31 Granular activated carbon

DOSAGE, MEASUREMENT, REGULATION AND AUTOMATION

ASTRALPOOL

CONTINUOUS FLOCCULATION SYSTEM

Autofloc continuous flocculation system

Autofloc is an automatic continuous flocculant dosing unit for pool water. Includes 1 litre per hour dosing pump and injector nozzle.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
19936	1	5.6	0.033

DOSING PUMPS

Exactus membrane dosing pumps

Electronic dosing pump for wall mounting or horizontal base. 6 models available:
- Analogical manual
- Microprocessor manual
- Proportional processor via mA external signal
- With incorporated pH instrument
- With incorporated Redox instrument.
- Volumetric (enquire Aquastral)

All systems comply with EC regulations. IP-65 protection. Electrical connection: 220/240 V 50/60 Hz. Materials in contact with the liquid: Polypropylene, Viton, Teflon and PVC. Other valve models in different materials available on request. Includes anti-acid plastic housing. Touch sensitive moisture resistant indicator. Drainage valve included. Lubrication-free, minimal maintenance. On request, the unit can be supplied with outlet, level probe or other operating voltages.

EXACTUS PUMP PERFORMANCE CURVES
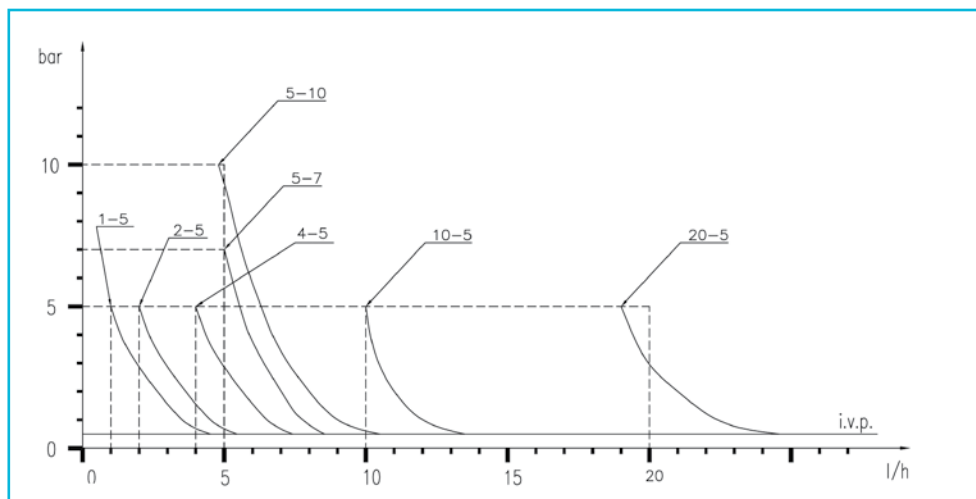
Exactus Manual model

Electronic dosing pump for wall mounting or horizontal base. Manually regulated flow rate. Regulation range: 0-100% and 0-20%. Acid resistant plastic housing.

		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Manual	2 l/h - 5 bar	43474	1	4	0.20
Manual	2 l/h - 10 bar	43475	1	4	0.20
Manual	5 l/h - 7 bar	43476	1	4	0.20
Manual	5 l/h - 10 bar	43477	1	4	0.20
Manual	10 l/h - 5 bar	43478	1	4	0.20
Manual	20 l/h - 5 bar	43479	1	4	0.20

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DOSING PUMPS

Exactus Manual Microprocessor model

new

Electronic dosing pump for wall mounting or horizontal base. Manually regulated flow rate with digital control for injection frequency. Regulation range: 0-100% and 0-20%. Product ready to incorporate level probe (not included). Acid resistant plastic housing.
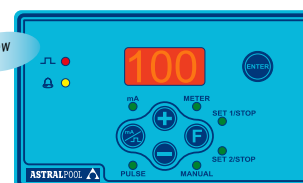
		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Manual	2 l/h - 10 bar	**43486**	1	4	0.20
Manual	5 l/h - 7 bar	**43487**	1	4	0.20
Manual	5 l/h - 10 bar	**43488**	1	4	0.20
Manual	10 l/h - 5 bar	**43489**	1	4	0.20
Manual	20 l/h - 5 bar	**43490**	1	4	0.20

Exactus Proportional model

new

Electronic dosing pump for wall mounting or horizontal base. Microprocessed proportional regulation via mA external signal 4 – 20 mA.

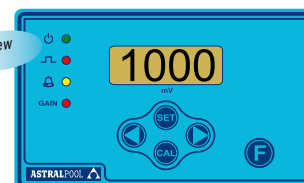|		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Proportional (4-20mA)	5 l/h- 7 bar	**43491**	1	4	0.20
Proportional (4-20mA)	5 l/h- 10 bar	**43492**	1	4	0.20
Proportional (4-20mA)	10 l/h- 5 bar	**43493**	1	4	0.20
Proportional (4-20mA)	20 l/h- 5 bar	**43494**	1	4	0.20

Exactus pH / Rx model

new

Electronic dosing pump for wall mounting or horizontal base. Redox and pH regulation via proportional control. Regulation range: 0% - 100%. pH electrode not included.

		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Modelo pH / Rx	5 l/h - 7 bar	**43495**	1	4	0.005
Modelo pH Rx	5 l/h - 10 bar	**43496**	1	4	0.005
Modelo pH Rx	10 l/h - 5 bar	**43497**	1	4	0.005

Exactus CL model

new
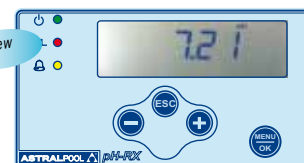
		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Modelo CL	5 l/h - 7 bar	**43498**	1	4	0.005
Modelo CL	5 l/h - 10 bar	**43499**	1	4	0.005
Modelo CL	10 l/h - 5 bar	**43500**	1	4	0.005

Exactus Volumetric VFT model

new

		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Modelo Volumétrica	5 l/h- 7 bar	**43501**	1	4	0.005
Modelo Volumétrica	5 l/h- 10 bar	**43502**	1	4	0.005
Modelo Volumétrica	5 l/h- 10 bar	**43503**	1	4	0.005
Modelo Volumétrica	20 l/h- 5 bar	**43504**	1	4	0.005

DOSING PUMPS

pH electrode

For pH Exactus model.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01303	1	0.2	0.001

RX electrode

For RX Exactus model.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01304	1	0.3	0.001

CL electrode

new

For CL Exactus model.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
45896	1	-	-

Electrode holder

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01305	1	0.3	0.001

Electrode holder (pressure)

For working with pressure.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01306	1	0.3	0.001

Optima dosing pumps

The OPTIMA dosing pump represents the development of more than 30 years of experience in the automatic dosing field. This new series reduces the number of pumps required to meet the various dosing needs.
The OPTIMA dosing pump series, with its new power supply technology from 90, VCA to 265 VCA and at 50-60 Hz, ensures a precision and reliability never seen before.
Integration of many functions due to its simple programming, an alphanumeric display, the possiblity of multilingual programming of the menu and a new technology which permit controlled flow rate and back pressure. Allows to use the same model for various applications providing a great versatility.
Systems produced according to EC standards, IP65 protection, 90-265 VCA 50/60 Hz electrical power supply. Materials in contact with the chemical product are made of polypropylene, Viton, Teflon and PCV (other materials possible upon request). Anti-acid plastic container. Moisture-resistant membrane buttons. Built-in relief valve. No lubrication necessary, minimum maintenance. Peristaltic pump also available (see page 232).
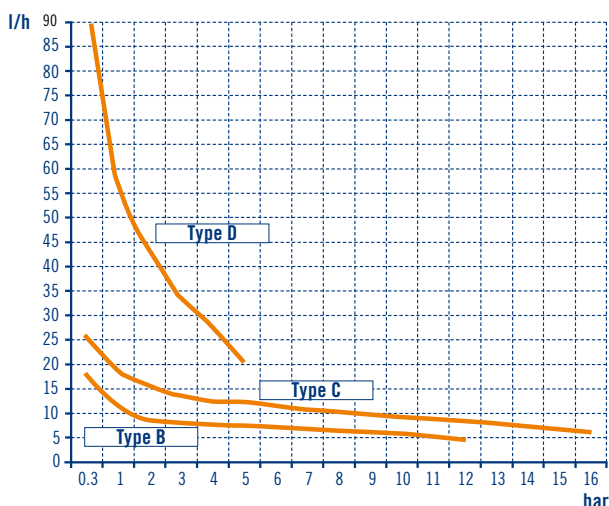
AUTOMATIC OZONE DISINFECTION SYSTEM FOR COMMERCIAL POOLS

OPTIMA constant flow rate analog dosing pump

The flow rate can be set as a percentage using the potentiometer under the front panel, which modifies the pump's operation frequency. Disposes of a level sensor inlet.
Double scale adjustment: OPTIMA analog dosing pumps can divide the maximum dosing frequency by 5. This double scale allows the user to have two pumps with a single model.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Type B Optima Manual Adjustable Pump 5-10 bar and 2-5 l/h	36007	1	3.5	0.01
Type C Optima Manual Adjustable Pump 5 bar and 10 l/h	36008	1	4.5	0.01
Type D Optima Manual Adjustable Pump 5 bar and 20 l/h	36009	1	4.5	0.01

OPTIMA proportional and volumetric digital dosing pump

OPTIMA pumps provide all the functions of proportional dosing in a single model.
Features:
- Proportional with analog signals 0/4...20mA
- Proportional with digital signals and the possiblity of:
  - Multiplying the input impulses (1:n)
  - Dividing the input impulses (n:1)
  - Function in ppm
  - The pump has a memory function for processing input impulses dosing
- Level alarm with pump disconnection.
- Maximum dosing flow rate to prevent overdosing.
- Password for protecting programmed data
- Possibility of alarm connection.
- 90-265 VAC 50/60 Hz power supply.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Type B Model 7-10 bar and 5 liters	36010	1	3.5	0.01
Type C Model 5 bar and 10 liters	36011	1	4.5	0.01
Type D Model 5 bar and 20 liters	36012	1	4.5	0.01

OPTIMA dosing pump with pH / Redox analyzer

OPTIMA dosing pump with built-in pH/Redox control. pH/Redox instrument. Automatic calibration: Calibration by simply pressing a button, with the possiblity of controlling the level of probe efficiency
Features:
- 90-265 VAC 50/60 Hz power supply
- Manual compensation of temperature for pH or automatic compensation with PT100.
- 4...20mA output for printed register or transmision of the reading.
- Level alarm with pump disconnection.
- Set point deviation alarm, programmable for the entire measurement range.
- O.F.A. time (Over Feed Alarm) to prevent dosing if any probe malfunctions.
- Maximum dosing flow rate to prevent overdosing.
- Password for protecting programmed data.
- Possibility of alarm connection.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Type C Optima Redox/pH control dosing pump (10 bar and 5 l/h and 5 bar and 10 l/h)	36013	1	4.5	0.01

Sensors				
pH sensor with calibration solutions (Code: 36004)	●		●	
Redox sensor with calibration solutions (Code: 36005)		●		●

*Sensor not included

DOSING PUMPS

Automatic relief valve

Gas inside the dosing pump head may compromise proper operation of the pump. The relief valve automatically eliminates gas produced inside the pump's head. The relief valve must be installed directly on the dosing unit's delivery valve.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Automatic relief valve	36829	1	0.1	0.001

Bracket for mounting above tank

Optional support for mounting the OPTIMA series and pH Basic horizontally; for example, above chemical solution tanks.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Support bracket above tanks	36830	1	0.1	0.002

Peristaltic dosing pump

Maximum flow 3 l/h at 96 r.p.m. Power supply 220/240 V 50/60 Hz. Regulation from 10% to 100%. The materials in contact with the liquid are Silicone and PP.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
With housing	07822	1	6.5	0.076

Polyethylene cylindrical tanks

To hold chemicals for dosage pumps.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Capacity: 100 l	34316	1	4.5	0.120
Capacity: 250 l	01315	1	10.0	0.390
Capacity: 350 l	01316	1	14.0	0.510
Capacity: 500 l	01317	1	21.5	0.760
Capacity: 1000 l	28831	1	-	-

Manual stirrer

For Polyethylene tanks.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Length 60 cm	01318	1	0.5	0.010
Length 90 cm	01319	1	1.2	0.020

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

Definition:
1. **Organic Chlorine (stabilised Chlorine):** This term is used to indicate pools treated with trichlor tablets, granular Dichor etc. – in other words, pools that use an Isocyanuric acid organic compound.
2. **Inorganic Chlorine (un-stabilised Chlorine):** This term is used to indicate pools treated with either Sodium or Calcium Hypochlorite.
3. **Organic Bromine:** This term is used to indicate pools treated with Dimethylhydantoin Bromine (in tablets).

Easywatch control and regulation system for residential pools

Chemical product dosage control and regulation system for residential pools. It is easy to operate with minimal maintenance, user-friendly design. It consists of a central unit which controls dosage, pH and Redox potential electrodes which measure water quality, mounted on an analysis chamber.
Includes electrodes. The unit features 5 operational modes with different symbols for each mode:
- OFF: Switched off.
- ECO: This is the appropriate level for water which does not need a high degree of disinfection as the water is already of high quality and therefore does not require much desinfection. For example, would be the case in pools with few swimmers or relatively low temperatures or water volumes swall.
- NORMAL 1: This is to be used when disinfectant needs are within normal limits due to the number of pool users, water temperature or volume, or the type of chemical being regulated.
- NORMAL 2: To be used when a greater level of disinfection is required, for whatever reason, including increased number of swimmers, a higher than normal concentration of contaminants is expected or for other reasons.
- SUPER: This level is to be employed when the demand for disinfectants is extremely high, for example after a storm or should the water require a swall hyper-chlorination treatment.

Each operational mode automatically adjusts the dosage of pH corrector and disinfectant.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
32460	1	12	0.08

Rolachem RC8 Series - Automatic Acid (pH) & Chlorine (ORP)

The RolaChem RC8 is a proportional dosing pH and ORP controller. New pH and ORP sensors have integral amplifiers and high level shielding to virtually eliminate interference. Easy to calibrate and easy to operate with large 4 line LCD display to guide installers and users through set up and operation. Integral peristaltic pumps from 1 RPM to 100 RPM for all size swimming pools and ABS case. Software easily adjusts dosing rates for bather load and weather conditions. Available in ORP only, pH only and ORP and pH control. 3 Year Pro rata warranty.

	Code	Chlorine Pump	Acid Pump	Standard Packaging
Chlorine (ORP) & Acid (pH) models:				
RC8 5/1 Automatic ORP & PH with LCD	**43901**	5 RPM	1 RPM	1
RC8 5/5 Automatic ORP & PH with LCD	**43902**	5 RPM	5 RPM	1
RC8 20/5 Automatic ORP & PH with LCD	**43903**	20 RPM	5 RPM	1
RC8 100/5 Automatic ORP & PH with LCD	**43904**	100 RPM	5 RPM	1
RC8 100/20 Automatic ORP & PH with LCD	**43905**	100 RPM	20 RPM	1
Chlorine (ORP) only models				
RC8 5/0 Automatic ORP with LCD	**43906**	5 RPM	-	1
RC8 20/0 Automatic ORP with LCD	**43907**	20 RPM	-	1
RC8 100/0 Automatic ORP with LCD	**43908**	100 RPM	-	1
Acid (pH) only models				
RC8 0/1 Automatic PH with LCD	**43909**	-	1 RPM	1
RC8 0/5 Automatic PH with LCD	**43910**	-	5 RPM	1
RC8 0/20 Automatic PH with LCD	**43911**	-	20 RPM	1

Motor size RPM	Litres per Hour	Max pool size for chlorine	Max pool size for acid
1 RPM	20 ml (minimum) - 200 ml (maximum)	N/A	80,000
5 RPM	100 ml (minimum) - 850 ml (maximum)	80,000	240,000
20 RPM	800 ml (minimum) - 3,000 ml (maximum)	240,000	750,000
100 RPM	3,000 ml (minimum) - 15,000 ml (maximum)	750,000	N/A

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

SmartWatch colorimetric control and regulation system for commercial pools

Smartwatch is a control and automatic dosing equipment for pH and residual level of free Chlorine in water. The advantage of this equipment consists in that it gets the free Chlorine reading through colorimetrics (DPD). This system is used in photometers and it is backed up with many years of experience high reliability.

The new equipment SMARTWATCH also measures REDOX and water temperature. It can incorporate the measurement of Total Chlorine, DPD-3 conductivity, turbidity and flow. Using a special software it is possible to control the equipment from a PC remotely through internet, mobile phone or local control. The system allows access to the information in real time or to all the installation history.

Includes: Readings of Chlorine (DPD-1), pH (includes sensor), Redox (includes sensor), temperature (includes sensor) and software for local connection (not internet).

The internet communication equipment code 35073. Includes: Modem, antenna, Software license maximum 5 controllers.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Basic Equipment for dosing and Control Reagent Set for colorimetrics Controler	34198	1	1.4	0.140
DPD1 Free Chlorine (4 complete kits)	34210	1	1.4	0.270
Total Chlorine DPD-3 Upgrade kit Reagent for Chlorimetric Controler	35069	1	0.5	0.002
DPD3 total Chlorine (1 kit)	35415	1	0.5	0.002
Interntet communication equipment	35073	1	1.5	0.006
4-20 mA module (6x4-2) 6 x digital	35080	1	1.0	0.009

Poolwatch Basic control and regulation system for commercial pools

A range of units based on the control and regulation of chemicals, designed for use in public pools.

2 parameter control range. Control and regulation is achieved by taking two readings of either pH and RedOx potential in mV, or pH and Chlorine concentration (ppm), or pH and hydrogen peroxide concentration. PH and RedOx measurements are potentiometric, whilst those measuring Chlorine and hydrogen peroxide concentrations are amperometric, in ppm. 2 analogical 4-20 mA outlets are included for registration or modulation, as well as an RS-485 outlet for communications.

33512

16649

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Control and regulation system Poolwatch Basic, pH / Rx	33512	1	12	0.08
Control and regulation system Poolwatch Basic, pH / ppm Redox	33513	1	12	0.08
Control and regulation system Poolwatch Basic, pH / ppm Cl inorg	16647	1	12	0.08
Control and regulation system Poolwatch Basic, pH / ppm Cl org	16649	1	12	0.08
Control and regulation system				

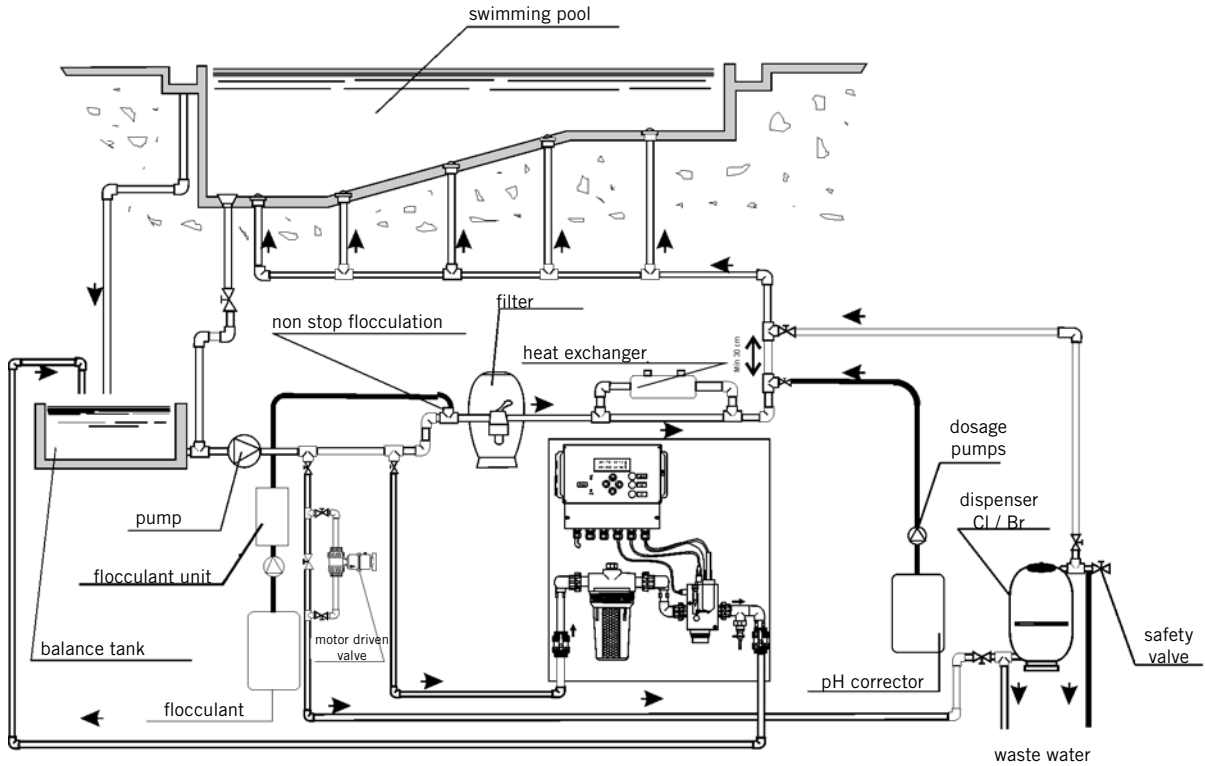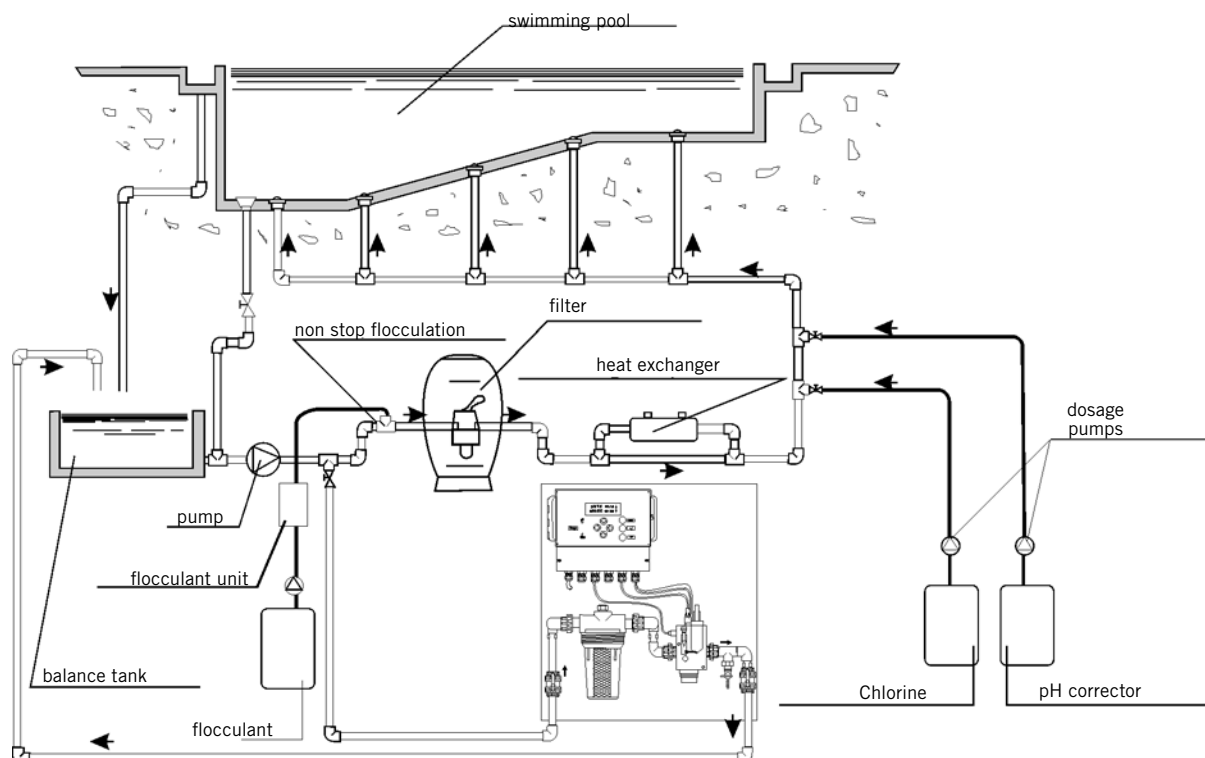NOTE: Please inquire for parametrical variations (conductivity, pH/pH etc.).

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

Installation diagram for organic Chlorine or Bromine

swimming pool

non stop flocculation

filter

heat exchanger

Min 30 cm

dosage pumps

dispenser Cl / Br

pump

flocculant unit

balance tank

motor driven valve

pH corrector

safety valve

flocculant

waste water

Installation diagram for Inorganic Chlorine

swimming pool

non stop flocculation

filter

heat exchanger

dosage pumps

pump

flocculant unit

balance tank

flocculant

Chlorine

pH corrector

251

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

Controller

Automatic pH, Redox and free Chlorine regulation equipment.

CONTROLLER MINOR/1 - (Organic or inorganic Cl)

- pH & Redox self-calibration.
- Manual or automatic temperature compensation (with optional sensor PT 100).
- Regulating flow valve.
- Emptying faucet for maintenance and taking of samples.
- Recommended for residential swimming pools.
Includes:
- pH/Redox electrodes.
- Buffer solutions kit.
- Sensor holder.
- Control panel.
- Flow detector with alarm signal.
Does not include dosing pump nor electric valve for tablets dosage.

CONTROLLER/3 pH-Redox - (Organic or Inorganic Cl)

- pH & Redox self-calibration.
- Manual or automatic temperature compensation (with optional PT 100 sensor).
- Galvanic separation.
- 4-20 mA outlet for external registration.
Includes :
- pH/Redox electrodes.
- Buffer solutions kit.
- Control panel.
Does not include dosing pump nor electric valve for tablets dosage.

CONTROLLER/3 pH-Cl free - (Organic or Inorganic Cl)

- pH & Chlorine self-calibration.
- Automatic temperature compensation
- Galvanic separation.
- 4-20 mA outlet for external registration.
Includes :
- pH/Chlorine/sensor electrodes.
- Buffer solutions kit.
- Control panel.
Does not include dosing pump nor electric valve for tablets dosage.

CONTROLLER/4 pH-Cl free/Redox - (Organic or Inorganic Cl)

- pH, Chlorine and Redox self-calibration.
- Automatic temperature compensation
- Galvanic separation.
- 4-20 mA outlet for exterior register.
Includes :
- pH/Chlorine/Redox electrodes.
- Buffer solutions kit.
- Control panel.
Does not include dosing pump nor electric valve for tablets dosage.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Controller Minor/1	**27355**	1	10	0.08
Controller/3 pH-Redox	**27356**	1	17	0.20
Controller/3 pH-Cl free	**27357**	1	20	0.20
Controller/4 pH-Cl free-Redox	**27358**	1	20	0.20

ELECTRODE CLEANING AND ADJUSTEMENT

Cleaning kit nº 1

Contains:
Buffer solution pH 4,
Buffer solution pH 7,
Redox solution 460 mV &
Cleaning solution.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
16652	1	1.1	0.002

Cleaning kit nº 2

Contains:
Buffer solution pH 7,
Buffer solution pH 9,
Redox solution 460 mV &
Cleaning solution.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
16653	1	1.1	0.002

Solutions

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Buffer solution pH 4	**16654**	4	5.5	0.010
Buffer solution pH 7	**16655**	4	5.5	0.010
Buffer solution pH 9	**16656**	4	5.5	0.010
Redox solution 460 mV	**16657**	4	5.5	0.010
Cleaning solution	**16658**	4	5.5	0.010

WATER METERS

Residential water meters

Dry operation. Models 1/2" - 3/4" single jet. Models 1" - 1¼" - 1½" multiple jets. Adjustable totalizer 360°. For cold water up to 30°. Direct reading by means of numbered drums. From 1" prefitted with cycle emitter of impulses and EEC 75/33 certified. Fittings included.

Calibre		Maximum reading m³	A	F	C	B		Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Racor	mm										
*1/2"	15	99.999	115	72	59.5	59.5		**01134**	1	0.5	-
*3/4"	20	99.999	115	72	59.5	59.5		**01135**	1	0.6	-
1"	25	99.999	260	103	124	190		**01136**	1	2.1	-
1¼"	30	99.999	260	103	124	190		**01137**	1	2.2	-
1½"	40	999.999	300	128	155	222		**01138**	1	4.5	-

* Primitive verification included

Metrology Features

Nominal Diameter		DN	mm	15	20	25	30	40
			inches	½"	¾"	1"	1¼"	1½"
Metrology features	Starting flow		l/h	7	12	25	25	70
	Minimum reading step		l	0.05	0.05	0.05	0.05	0.5
	Max. total reading		m³	99.999	99.999	99.999	99.999	999.999
	Maxi head loss at max Q		bar	-	-	0,42	0,85	0,7
	Maxi admissible temperature		° C	30	30	30	30	30
	Maxi admissible pressure		bar	16	16	16	16	16
Approved CEE values	Max Q		m³/h	3	5	7	10	20
	Qn		m³/h	1.5	2.5	3.5	5	10
	Qt		m³/h	0.12	0.20	0.28	0.4	0.8
	Min Q		m³/h	0.03	0.05	0.07	0.1	0.2
	Head loss at max Q		bar	0.9	0.9	0.6	1	1
	Approval certificate CEE/ISO			F99.00.382.0008.0				

ATTENTION:
The water meter metrology, indicated below, follows CEE/ISO class A regulations.

Industrial water meters

Dry dial meter with numerical readout, for water till 50º C. Removable measuring mechanism, except that of 2" gauge. Maximum reading capacity: 10,000,000 m³.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
*2" gauge - 50 mm	**01139**	1	9.0	0.006
2½" gauge - 65 mm	**01140**	1	13.0	0.008
3" gauge - 80 mm	**01141**	1	15.0	0.030
4" gauge - 100 mm	**01142**	1	17.0	0.030
6" gauge - 150 mm	**01144**	1	28.0	0.060
8" gauge - 200 mm	**01145**	1	48.0	0.060

*Measuring mechanism not removable.

Woltman type turbine meters

Woltman type axial turbine water meter, with numerical counter readout, and numbered drums. Dry dial with magnetic transmission. Easily removable gearwork and turbine. Pre-set for pulse emission. IP-68 protection level. CYBLE type pulse emission.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
2" gauge - 50 mm	**20430**	1	12.0	0.004
2½" gauge - 65 mm	**20431**	1	13.6	0.004
3" gauge - 80 mm	**20432**	1	14.6	0.004
4" gauge - 100 mm	**20433**	1	20.0	0.006
5" gauge - 125 mm	**20434**	1	30.0	-
6" gauge - 150 mm	**20435**	1	36.0	0.009
8" gauge - 200 mm	**20436**	1	55.0	0.012
CYBLE type emitter K= 1 l/pulse	**23235**	1	-	-
CYBLE type emitter K= 10 l/pulse	**23235-0010**	1	-	-
CYBLE type emitter K= 100 l/pulse	**23235-0100**	1	-	-

CONTROL SYSTEMS

### Electrically driven plastic valves - Nylon

Threaded connection. Manually operated ON position Flow regulator. Stainless Steel AISI-302 spring. Maximum working pressure = 10 atm.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
1^1/$_2$" connections	09392	1	0.5	-
2" connections	06935	1	0.7	-
3" connections	06936	1	1.1	-

MODELS	09392	06935	06936
Connection	1^1/$_2$"	2"	3"
Minimum pressure kg/cm^2	1	1	1
Maximum pressure kg/cm^2	10	10	10
Maximum flow m³/h	30	40	60

Pressure and flow diagrams
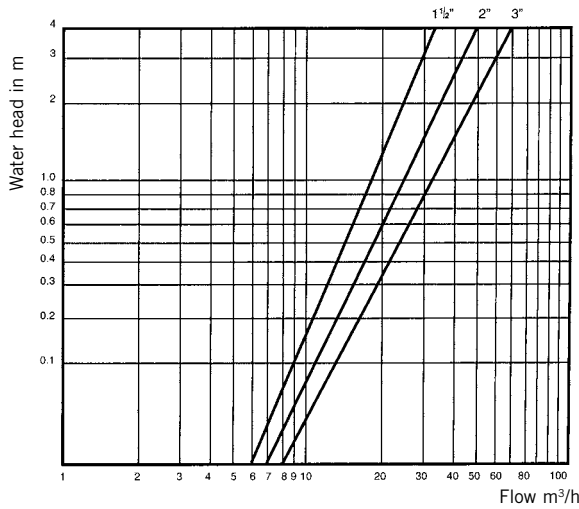
24 Volt. solenoids
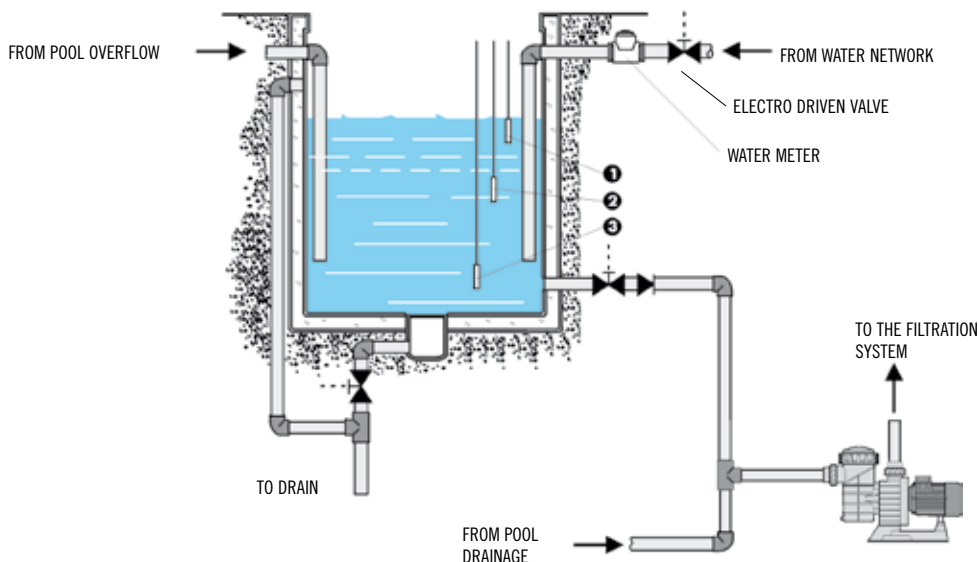
To install in electric valves with code 09392, 06935 and 06936.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
	09393	1	-	-

CONTROL SYSTEMS

BALANCE TANK INSTALLING DIAGRAM

FROM POOL OVERFLOW
FROM WATER NETWORK
ELECTRO DRIVEN VALVE
WATER METER
TO THE FILTRATION SYSTEM
TO DRAIN
FROM POOL DRAINAGE

❶ Maximum water level signal in BALANCE TANK for starting the pumping system and electrodriven water inlet valve shut down.

❷ Minimum water level signal in BALANCE TANK for opening the electrically operated valve for make up water.

❸ Minimum level signal in BALANCE TANK for shutting down the pumping system.

Electronic operating panel for overflow pool balance tank

For overflow pool. Water level sensor with 2 m cable.
For 2 water levels control panel:
* Minimum safety level for pump operation: The pump stops working if water level doesn't have the minimum set level.
* Water make up level: Gives the solenoid valve the opening signal to keep correct water level in balance tank. Solenoid valve signal in 220 V II & 24 V II.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
12061	1	-	-

3 water level control panel:
* Minimum safety level for pump operation: The pump stops working if water level reaches the minimum set level.
* Water make up level: Gives the solenoid water inlet valve, the opening signal to keep correct water level in balance tank. Solenoid valve signal in 220 V II & 24 V II.
* Pump start level: The pump starts operation when water level in balance tank reaches the overflow level (pipe burst or check valve failure).

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
12062	1	-	-

Buoys

Plastic float.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
26 x 34 - 1"	**20259**	1	-	-
40 x 49 - 1¹/₂"	**20261**	1	-	-
50 x 60 - 2"	**20262**	1	-	-

Code	A (mm)	Float Ø (mm)
20259	386	180
20260	591	220
20261	596	220
20262	699	300

DOMOTICPOOL

Domoticpool

With the centralized Domoticpool electronic panel, monitoring and controlling the poolside equipment (lighting, filtration, garden watering, pool cleaning, etc.) is achieved installed inside of the residence without laying out any wires. For obtaining this, a Control Unit located in the house communicates with the Communication Module situated in the Plant Room.This is achieved using the conventional electric network of the house as order transmitter.
It consist of:
- Two way communication using the power lines.
- Graphic display with finger touch screen.
- True time clock permitting programmed temporising cycles.
- Personalized communication protocol.
- Two way transmission.
Easy installation and cost reduction has to be highlighted as it eliminates cable laying, thus enabling its control from anywhere, where we have access to electric network. Electric terminals can be easily added both in existing pools as well as in new ones. Communication module has 3 relays with inlets/outlets and 2 temperature sensors inlets.

Control Unit with Finger touch screen

Easily understandable Icon and menu presentation

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Centralized electric control	27815	1	0.92	0.002
Communication module for control	27816	1	0.36	0.001
Temperature sensor	30888	1	-	-

Communication Module

THERMOMETERS

Thermometers Shark series

Both models feature a float at the top of the thermometers, allowing for accurate pool water temperature measurement. Readings are easy to get, without the need to remove the thermometer from the water.
Digital model: shows temperatures in both ºC and ºF through a LCD display. Runs on solar power.
Analogical model: measures water temperature in both °C and °F.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Analógical model	36622	1	-	-

SHARK))))SERIES
Top quality

Floating cylindric thermometer

Celsius & Fahrenheit scale.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
20594	20	2.1	0.032

Submersible cylindric thermometer

Celsius & Fahrenheit scale.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
20593	20	1.2	0.006

Floating thermometer

Celsius scale.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01410	6	0.7	0.010

Submersible thermometer

Celsius & Fahrenheit scale.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01411	1	0.1	0.001