DOSAGE, MEASUREMENT, REGULATION AND AUTOMATION

DOSAGE, MEASUREMENT, REGULATION ...

ASTRALPOOL

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

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 $1^1/_2$". 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

DOSING EQUIPMENT

Chlorine and Bromine Feeder Dossi-5 and Dossi-10 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

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   TO POOL

PUMP
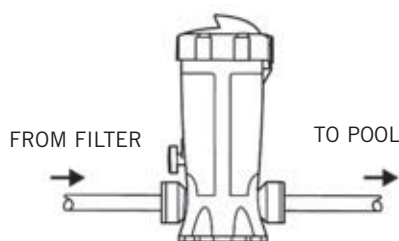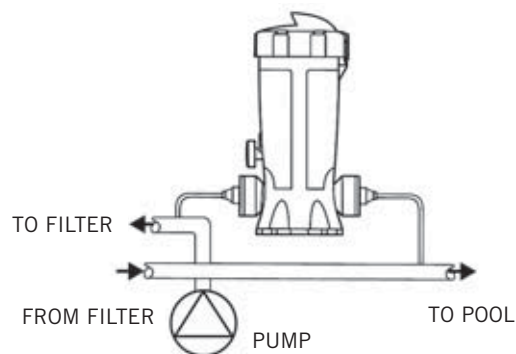
DOSING EQUIPMENT

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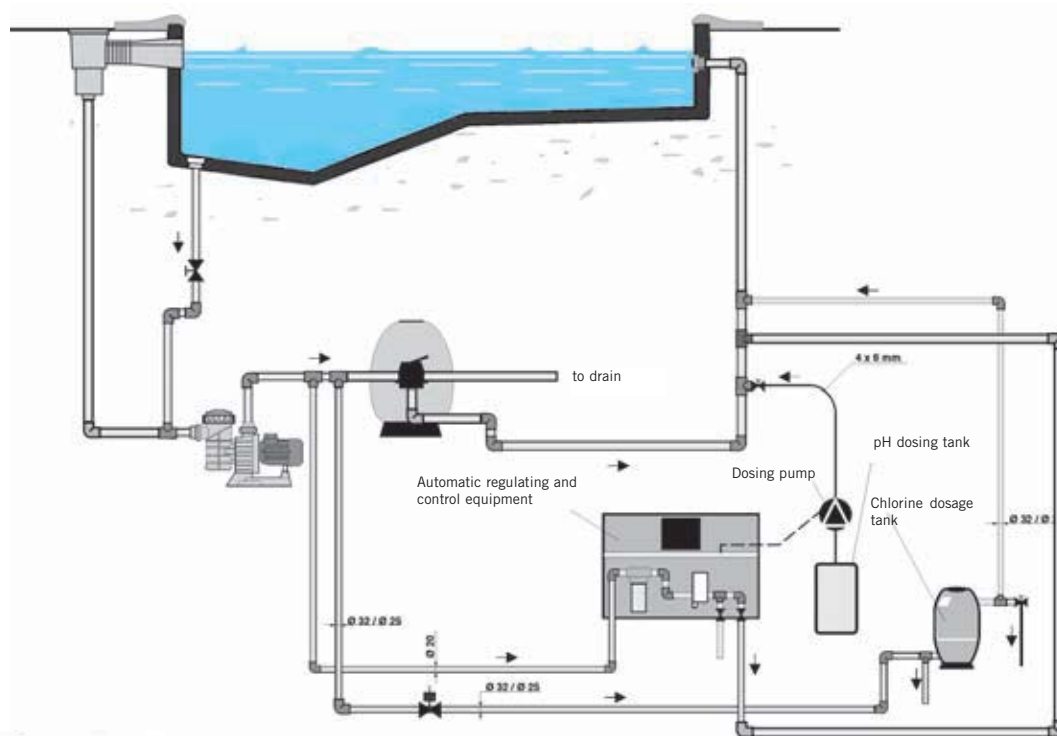
Compact dosage tank

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

ASTRALPOOL SIGNATURE SALT ELECTROLYSIS & PH CONTROL

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

GENERAL FEATURES

	SMART			SMART +			SMART +PH			ELITE		
Model	30	60	100	60	100	160	60	100	160	60	100	160
Code	42347	42348	42349	42350	42351	42352	52569	52570	52571	42353	42354	42355
Consumption (AC)	6 A	12 A	24 A	12 A	24 A	32 A	12 A	24 A	32 A	12 A	24 A	32 A
Production g/h	5-6	10-12	20-24	10-12	20-24	25-32	10-12	20-24	25-32	10-12	20-24	25-32
m^3 warm water	25	60	120	60	120	150	60	120	150	60	120	150
m^3 hot water	25	40	100	60	100	120	60	100	120	60	100	120
Fuse (5x20 mm)	1A	2A	3.15A	2A	3.15A	4A	2A	3.15A	4A	2A	3.15A	4A
Minimum flow rate	1 m^3/h	2 m^3/h	4 m^3/h	2 m^3/h	4 m^3/h	6 m^3/h	2 m^3/h	4 m^3/h	6 m^3/h	2 m^3/h	4 m^3/h	6 m^3/h
Electrodes	3	5	7	5	7	7	5	5	5	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 efficiency.
- High quality electrodes.
- Salinity alarm with LED indicators.

Elite

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 m^3
Elite 60	**42353**	1	5	0.046
Elite 100	**42354**	1	7	0.046
Elite 160	**42355**	1	9	0.046

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SALT ELECTROLYSIS & pH CONTROL

Smart

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
Smart 30	42347	1	3	0.046
Smart 60	42348	1	5	0.046
Smart 100	42349	1	7	0.046

Smart +

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
Smart+ 60	42350	1	5	0.046
Smart+ 100	42351	1	7	0.046
Smart+ 160	42352	1	9	0.046

Smart + pH

New

Middle-of-the-range equipment. External controls can be adapted: redox, cover and flow switch included.
Bubble and flow detector, compact electrode holder for pH sensor, injection point of pH minus and flowmeter.
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%.
Automatic control of pH included. pH dosing pump not included.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Smart+ pH 60	52569	1	-	-
Smart+ pH 100	52570	1	-	-
Smart+ pH 160	52571	1	-	-

ASTRALPOOL®

SALT ELECTROLYSIS & pH CONTROL

Sel Clear

New

Reverse polarity self cleaning chlorinator. Easy installation and use. Meant for pools up to 95 m³. Provides a good quality/price ratio. Optional flow switch. (available on request). Assembly on panel NOT included.
Meant for pool up to 95 m³

	Chlorine production	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Up to 30 m³	9 g/h	54041	1	3.50	0.025
Up to 55 m³	13 g/h	54042	1	3.65	0.025
Up to 95 m³	19 g/h	54043	1	3.70	0.025

Sel Pure

New

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

	Chlorine production	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Up to 60 m³	16 g/h	54044	1	6.10	0.025
Up to 100 m³	25 g/h	54045	1	6.20	0.025
Up to 160 m³	30 g/h	54046	1	6.30	0.025

pH Pure

New

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	54047	1	4.4	0.025

Salinity analysis Kit

Salinity analysis kit for checking the salt level. A regular control of the salinity level is necessary according to the renovation of the water.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
07937	1	0.8	0.001

DOSAGE, MEASUREMENT, REGULATION ...

SALT ELECTROLYSIS & pH CONTROL

	SELWATCH	SELWATCH +	SELWATCH PLATINUM
Código	54048	54049	54050
Maximum volume of the pool		100m³	100m³
Polarity inversion		•	•
7 blades electrodes		•	•
Flow detector		•	•
Autotest & configuration menu		•	•
Chlorine regulation	•	•	•
Chlorine colorimetric analysis	•	•	•
Chlorine reagent	•	•	•
Internal electrolyser		•	•
Compatible with electrolysis of salt (not included	•		
pH reagent			•
pH colorimetric analysis			•
pH regulation and dosing			•

Selwatch

New

Selwatch is the first regulator system that controls an electrolysis or dosing pump. Analyzes, adjusts and automatically maintains the proper chlorine level. Aimed at all pools, private or group, treated with chlorine. It also controls all the electrolysis, valves and dosing pump of the market. Through automation of water treatment, Selwatch ensures a perfectly water treated and easy maintenance. It works according to the needs of the pool. It also allows to preserve the environment of the pool.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Selwatch	**54048**	1	5.5	0.025

Selwatch +

New

Selwatch + is a regulator of the rate of chlorine by colorimetry. Works by self-learning the parameters of the pool. Compact, meets in the same box Selwatch high-end electrolysis and regulator system. Selwatch + also has an earth device and a flow detector. Its titanium electrodes are self-cleaning glass and has a translucent electrolysis integrated instrument holder.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Selwatch +	**54049**	1	11.2	0.095

Selwatch Platinum

New

Selwatch Platinum is the flagship model. It is the freedom of the user. It deals with the quality of your water even during your absence. It is a regulator of the rate of chlorine colorimetric, non-toxic reagent patented electrolysis up to 100 m³ and colorimetric pH regulator without probe. This "3 in 1" automatically regulates the chlorine and pH of your pool, by colorimetry, as well as control and automatic correction of pH (using pH- or pH +) through Selwatch. It has an adjustable setpoint and a safe injection duration.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Selwatch Platinum	**54050**	1	12.2	0.095

ASTRALPOOL

SALT ELECTROLYSIS & pH CONTROL

Selwatch electrodes

New

Electrodes for Selwatch, Sel Clear and Sel Pure.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Sel Clear Electrode 30: up to 30 m³	**54051**	1	0.35	0.0055
Sel Clear Electrode 55: up to 55 m³	**54052**	1	0.44	0.0055
Sel Clear Electrode 95: up to 95 m³	**54053***	1	0.50	0.0055
Sel Pure Electrode 60: up to 60 m³	**54054**	1	0.52	0.0055
Sel Pure Electrode 100: up to 100 m³	**54055**	1	0.62	0.0055
Sel Pure Electrode 160: up to 160 m³	**54056**	1	0.72	0.0055

* Selwatch electrode

Selwatch reactives

New

Reactives for the Selwatch range per liter.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Chlorine reactive for Selwatch	**300290**	1	-	-
pH reactive for Selwatch	**300291**	1	-	-

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

DOSAGE, MEASUREMENT, REGULATION ...

SALT ELECTROLYSIS & pH CONTROL

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 without sensors or 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)		•		•

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 600 grams/hour of Chlorine, which makes it possible to use saline electrolysis to treat the water at any public use facility.

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.

	EASY SALT	PRO-CHLORE SALT	LOW SALT PLUS
Self-cleaning electrodes	7000 - 10000 h	8000 - 12000 h	6000 - 8000 h
Salinity range	3-12 g/l (recom. 4-6 g/l)	3-12 g/l (recom. 4-6 g/l)	0.5-5 g/l (recom. 1.5-2 g/l)
Production g/h	70 - 180	50 - 600	50 - 300

Pro-Chlore Salt

Our Pro-Chlore Salt range include EX electrodes that provide the highest durability in systems self-cleaning.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
A-50EX 50 g/h Self-cleaning	**35252**	1	30	0.026
A-80EX 80 g/h Self-cleaning	**35253**	1	40	0.131
A-120EX 120 g/h Self-cleaning	**35254**	1	55	0.131
A-180EX 180 g/h Self-cleaning	**35255**	1	70	0.131
A-300EX 300 g/h Self-cleaning	**35256**	1	85	0.131
A-600EX 600 g/h Self-cleaning	**35257**	1	120	0.178
SPECIAL FOR SALT WATER				
A-50EX Self-cleaning 50 g/h	**35252-AM**	1	30	0.026
A-80EX Self-cleaning 80 g/h	**35253-AM**	1	40	0.131
A-120EX Self-cleaning 120 g/h	**35254-AM**	1	55	0.131
A-180EX Self-cleaning 180 g/h	**35255-AM**	1	70	0.131
A-300EX Self-cleaning 300 g/h	**35256-AM**	1	85	0.131
A-600EX Self-cleaning 600 g/h	**35257-AM**	1	120	0.178

New

Valid for Pro-Chlore Salt and Eco Salt:

	A-50	A-80	A-120	A-180	A-300	A-600
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

SALT ELECTROLYSIS FOR PUBLIC POOLS

Pro-Chlore Salt Plus with pH/ORP (redox) control

The Pro-Chlore Salt Plus incorporates a system of control and regulation of the values of ORP (Redox) and pH that allow better control and provide an excellent water quality at all times.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
PLUS A-50+ 50 g/h Self-cleaning	**35258**	1	30	0.026
PLUS A-80+ 80 g/h Self-cleaning	**35259**	1	40	0.088
PLUS A-120+ 100 g/h Self-cleaning	**35260**	1	55	0.088
PLUS A-180+ 180 g/h Self-cleaning	**35261**	1	70	0.088
PLUS A-300+ 300 g/h Self-cleaning	**35262**	1	85	0.088
PLUS A-600+ 600 g/h Self-cleaning	**35263**	1	120	0.178
SPECIAL FOR SALT WATER				
PLUS A-50+ Self-cleaning 50 g/h	**35258-AM**	1	30	0.026
PLUS A-80+ Self-cleaning 80 g/h	**35259-AM**	1	40	0.088
PLUS A-120+ Self-cleaning 120 g/h	**35260-AM**	1	55	0.088
PLUS A-180+ Self-cleaning 180 g/h	**35261-AM**	1	70	0.088
PLUS A-300+ Self-cleaning 300 g/h	**35262-AM**	1	85	0.088
PLUS A-600+ Self-cleaning 600 g/h	**35263-AM**	1	120	0.178

New

Pro-Chlore Salt PPM plus

The Pro-Chlore Salt PPM Plus incorporates a system of control and regulation of securities Chlorine (ppm) and pH.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
PPM PLUS A-50+ 50 g/h Self-cleaning pH/Cl	**45836**	1	30	0.026
PPM PLUS A-80+ 80 g/h Self-cleaning pH/Cl	**45837**	1	40	0.088
PPM PLUS A-120+ 120 g/h Self-cleaning pH/Cl	**45838**	1	55	0.088
PPM PLUS A-180+ 180 g/h Self-cleaning pH/Cl	**45839**	1	70	0.088
PPM PLUS A-300+ 300 g/h Self-cleaning pH/Cl	**45840**	1	85	0.088
PPM PLUS A-600+ 600 g/h Self-cleaning pH/Cl	**45841**	1	120	0.178
SPECIAL FOR SALT WATER				
PPM PLUS A-50+ Self-cleaning 50 g/h	**45836-AM**	1	30	0,026
PPM PLUS A-80+ Self-cleaning 80 g/h	**45837-AM**	1	40	0,088
PPM PLUS A-120+ Self-cleaning 120 g/h	**45838-AM**	1	55	0,088
PPM PLUS A-180+ Self-cleaning 180 g/h	**45839-AM**	1	70	0,088
PPM PLUS A-300+ Self-cleaning 300 g/h	**45840-AM**	1	85	0,088
PPM PLUS A-600+ Self-cleaning 600 g/h	**45841-AM**	1	120	0,178

New

Valid for Pro-Chlore Salt, Easy Salt and Eco Salt Plus

	pH	ORP	Free chlorine
Included elements	Sensor H-035 / Calibration solution pH (7.0/4.0)	Sensor RX-02 / Calibration solution ORP (470 mV)	Sensor CL0102
	Electrode holder with inductive flow detector, flow control and pre-filter. Electrode holder (2x) PE 1/2"		
Dimensions	600 x 240 x 120 mm (panel)		
pH control output	230 V / 50-60 Hz / 0.5 A max., ON/OFF		
Range	0.0 - 9.9	0 - 999 mV	0.0 - 5.0 ppm
Control range	7.0 - 7.8	650 - 850 mV	0.0 - 5.0 ppm
Precision	0.1 pH	1 mV	0.1 ppm
Calibration	(pH) Automatic, two modes Fast: one point calibration Standard: two point calibration	Automatic: one point calibration	FREE CHLORINE: automatic (one point with external DPD calibrator, not supplied))

SALT ELECTROLYSIS FOR PUBLIC POOLS

Easy Salt

New

Self-cleaning electrolysis system, for residential and public pool applications use up to 180 g chlorine / hour. Easy Salt is a compact and cost competitive with remote control panel with integrated cable connection standard.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Easy Salt 70	53799	1	-	-
Easy Salt 90	53801	1	-	-
Easy Salt 180	53803	1	-	-
Easy Salt 70+	53800	1	-	-
Easy Salt 90+	53802	1	-	-
Easy Salt 180+	53804	1	-	-

Eco Salt Plus

New

Eco Salt Plus products have a sustainable cycle through the removal of chloramines, running through 2 grams of salt per liter and no chemical treatment. Self-cleaning commercial salt electrolysis system for use in public pools use up to 300 gr. chlorine / hour. TWIN-CELL Cell high pressure SYSTEM equipped with electrodes EX quality. Extending control functions using optional extensions.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Eco Salt Plus 50EX	53810	1	-	-
Eco Salt Plus 80EX	53811	1	-	-
Eco Salt Plus 120EX	53812	1	-	-
Eco Salt Plus 180EX	53813	1	-	-
Eco Salt Plus 300EX	53814	1	-	-
Eco Salt Plus 50+ (pH/ORP)	53815	1	-	-
Eco Salt Plus 80+ (pH/ORP)	53816	1	-	-
Eco Salt Plus 120+ (pH/ORP)	53817	1	-	-
Eco Salt Plus 180+ (pH/ORP)	53818	1	-	-
Eco Salt Plus 300+ (pH/ORP)	53819	1	-	-
Eco Salt Plus 50+ PPM (pH/cloro)	53820	1	-	-
Eco Salt Plus 80+ PPM (pH/cloro)	53821	1	-	-
Eco Salt Plus 120+ PPM (pH/cloro)	53822	1	-	-
Eco Salt Plus 180+ PPM (pH/cloro)	53823	1	-	-
Eco Salt Plus 300+ PPM (pH/cloro)	53824	1	-	-

Pool Terre

Earth connection for any electrolysis equipment with clamp saddle included.

	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.

UV AUTOMATIC DISINFECTION

AstralPool presents Heliox UV, a new automatic UVC light system, which guarantees double disinfection through a significant reduction in the amount of chloramines (bound chlorine) along with the neutralisation of bacteria, viruses and other microorganisms present in water by impeding their reproduction.
The range comprises the Heliox UV LP model for private pools, the Heliox UV MP for public pools.

The advantages of UV-C technology:
UV ray treatment systems are completely automatic, with very low maintenance and running costs. They also have considerable advantages over other systems:
• 100% of pool water is treated.
• The disinfected water is free of unpleasant smells and does not irritate the eyes, thanks to a drastic reduction in the amount of chloramines.
• They save money as fewer chemical products are required.
• They are environmentally friendly because:
- Less fresh water is needed (daily water renewal is reduced).
- Fewer waste by-products are formed, resulting in a reduction in subsequent water treatment.
- The UV-C equipment does not add any chemical products to the water.

Heliox-UV operation
UV-C disinfection is a local treatment (UV chamber), which takes place as the water in the pool circulates through the chamber that contains the UV-C lamps. The accurate delivery of radiation (W UV-C) and residence time in the system ensure the effective neutralisation of 99.9% of microorganisms, as well as the reduction of chloramines to safe levels (<0.6 ppm).

Heliox UV MP for public pools

New

Heliox UV MP (medium pressure) systems are designed to be used in public pools. These lamps operate over a wide spectrum to cover the whole of the UV region (see graph), which makes possible the effective eradication of chloramines (<0.6 ppm) in the pool water and its efficient disinfection due to the neutralisation of microorganisms (99.9%), including those resistant to chlorine treatment.
New features
• More compact design (UV reactor in AISI-316).
• Adjustable to between 70 and 100% of rated power, in 1% increments, by means of a self-cooling electronic ballast.
• Fluidra technology (design and manufacture).
• Calibrated UV-C radiation sensor (mW/cm2). Precise dose control. Instant power adjustment to process conditions. Saves energy and extends the lamp's lifetime.
• Advanced colour touch screen. System menu for browsing process parameters and log files.
• Advanced versions: MODBUS communication and embedded web.
The control architecture used in Heliox UV PM systems has a number of features that make them reliable, energy-efficient and scalable to the highest possible level.
The Heliox UV MP systems use two parameters for adjusting the power setting: average radiation and flow. All models have a rated radiation profile that ensures a dose of 60mJ/cm2. If the flow is lower than the rated value, the same will apply to the required radiation level and the system reduces the power input, thus optimising power consumption and the lamp's lifetime. Likewise, if radiation drops due to losses caused by cloudy water, scaling or lamp emission efficiency, the system will adjust the power so that the right dose is supplied.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Heliox UV MP 50	**52200**	1	-	-
Heliox UV MP 80	**52201**	1	-	-
Heliox UV MP 140	**52202**	1	-	-
Heliox UV MP 300	**52203**	1	-	-
Heliox UV MP 450	**52204**	1	-	-
Heliox UV MP 675	**52205**	1	-	-

Code	Model	Flow (60 mJ/cm²)	Nº Lamps	Rated / UV-C power (KW / W)	Input voltage	UV-C lamps Total power (W)	Inlet/Outlet flanges	Total height (mm)	Ø reactor
52200	UV MP 50	50 m³/h	1	0.7 kW / 105 W	230 VAC / 50-60 Hz	90	DIN 150	834	273
52201	UV MP 80	80 m³/h	1	1.0 kW / 150 W		150	DIN 150	834	273
52202	UV MP 140	140 m³/h	1	3.0 kW / 450 W		150	DIN 150	834	273
52203	UV MP 300	300 m³/h	1	3.0 kW / 450 W		450	DIN 250	1012	356
52204	UV MP 450	450 m³/h	2	6.0 kW / 900 W	380 VAC / 50-60 Hz.	1350	DIN 250	1138	356
52205	UV MP 675	675 m³/h	3	9.0 kW / 1350 W		1800	DIN 300	1218	356

For sea water application, contact with Fluidra Export

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
IAM1090/120	**35968**	1	5.0	0.005
IAM1150/120	**35969**	1	14.5	0.0145
IAM2205/120	**35970**	1	26.0	0.026
IAM3273/120	**35971**	1	46.0	0.046
IAM1150/300	**35974**	1	18.0	0.018
IAM2273/300	**35975**	1	56.5	0.0565
IAM3273/300	**35976**	1	56.5	0.0565
IAM4273/300	**35977**	1	56.5	0.0565
IAM5273/300	**35978**	1	56.5	0.0565

UV AUTOMATIC DISINFECTION

AstraHeliox UV LP Inox and Heliox UV LP PE (LP = low pressure) systems are designed to be used in residential pools. They will enable you to benefit from the latest ultraviolet light technology in the field of water treatment.

New features of LP Inox & LP PE:
• Stainless steel and polyethylene versions.
• Amalgam lamp version (LP30 and LP30+).
• Stainless steel power box.
• Fluidra technology (design and manufacturing).
• Lamp "ON" indicator.
• Electronic counter for working time and ignitions (lamp lifetime control).
• Flowswitch (optional, included in LP+versions).
• Versions with integrated pH&ORP control (integral solution).

Heliox UV LP Inox for residential pools

New

UV LP Inox systems are characterised by an AISI 316L stainless steel UVC chamber with maximum reflectance (greater treatment capacity) and an LP30/LP30+ amalgam lamp.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Heliox UV LP 10	**52206**	1	-	-
Heliox UV LP 14	**52207**	1	-	-
Heliox UV LP 25	**52208**	1	-	-
Heliox UV LP 30	**52209**	1	-	-
Version with pH/ORP Control (LP+):				
Heliox UV LP 10 +	**52210**	1	-	-
Heliox UV LP 14 +	**52211**	1	-	-
Heliox UV LP 25 +	**52212**	1	-	-
Heliox UV LP 30 +	**52213**	1	-	-

Heliox UV LP PE for residential pools

New

The UV LP PE models feature chambers made of polyethylene (inalterable), which means they can be used in extreme saline (seawater) pH and oxidising conditions.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Heliox UV LP P10	**52214**	1	-	-
Heliox UV LP P14	**52215**	1	-	-
Heliox UV LP P20	**52216**	1	-	-
Heliox UV LP P25	**52217**	1	-	-
Version with pH/ORP Control (LP+):				
Heliox UV LP P10 +	**52218**	1	-	-
Heliox UV LP P14 +	**52219**	1	-	-
Heliox UV LP P20 +	**52220**	1	-	-
Heliox UV LP P25 +	**52221**	1	-	-

Material	Code	Model	Code	Model	Flow (30 mJ/cm²)	Nº lamps	Rated / UV-C power	Total height (mm)	Ø reactor
Inox	**52206**	UV LP 10	**52210**	UV LP 10+	10 m³/h	1	48 / 13 W	790	204
Inox	**52207**	UV LP 14	**52211**	UV LP 14+	14 m³/h	1	56 / 18 W	790	204
Inox	**52208**	UV LP 25	**52212**	UV LP 25+	25 m³/h	1	90 / 30 W	1033	204
Inox	**52209**	UV LP 30	**52213**	UV LP 30+	30 m³/h	2	2 x 75 / 2 x 25 W	1033	204
PE	**52214**	UV LP P10	**52218**	UV LP P10+	10 m³/h	1	48 / 13 W	735	200
PE	**52215**	UV LP P14	**52219**	UV LP P14+	14 m³/h	1	56 / 18 W	735	200
PE	**52216**	UV LP P20	**52220**	UV LP P20+	20 m³/h	1	75 / 25 W	978	200
PE	**52217**	UV LP P25	**52221**	UV LP P25+	25 m³/h	1	90 / 30 W	978	200

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	2¹/₂"	3	984	205
35964	Clair-UV4205HO	65	4	87	116	2¹/₂"	3	984	205
35965	Clair-UV5205HO	85	5	87	145	2¹/₂"	3	984	205
35966	Clair-UV6205HO	95	6	87	174	2¹/₂"	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 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

CONTINOUS FLOCCULATION SYSTEM

Floc System

New

Automation flocculant dosing adjustable flow water pools.
Includes: adjustable pump from 151 cm³/h until 1.5 l/h, injector valve, bottom filter, suction and return tube.

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
54528	1	5.6	0.033

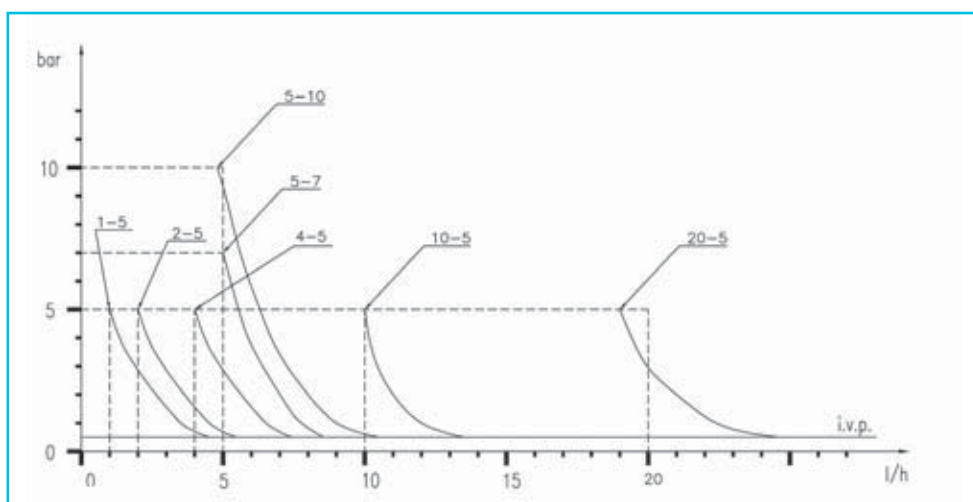## DOSING PUMPS

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

Exactus Manual Microprocessor model

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

DOSING PUMPS

Exactus Proportional model

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

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
pH / Rx	5 l/h - 7 bar	**43495**	1	4	0.005
pH / Rx	5 l/h - 10 bar	**43496**	1	4	0.005
pH / Rx	10 l/h - 5 bar	**43497**	1	4	0.005

Exactus CL model

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

Exactus Volumetric VFT model

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

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

DOSING PUMPS

CL electrode

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 270).
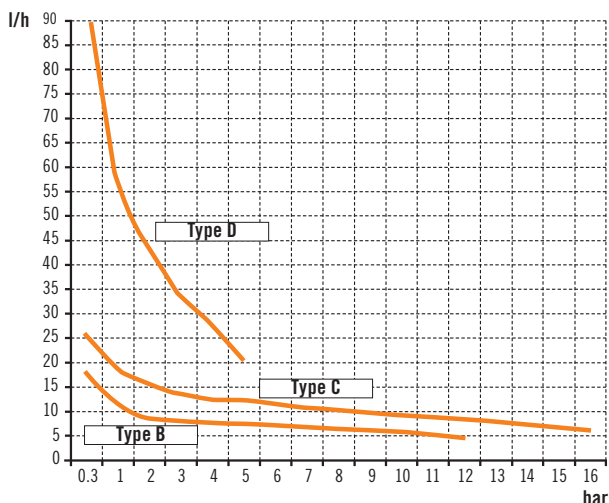
OPTIMA constant flow rate analog dosing pump

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

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![ASTRALPOOL logo]

DOSING PUMPS

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: 120 l	**11021**	1	4.5	0.120
Capacity: 200 l	**01315**	1	10.0	0.390
Capacity: 300 l	**01317**	1	14.0	0.510
Capacity: 500 l	**11025**	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

DOSING PUMPS

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).

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

Smart Control control & regulation equipment

New

Equipment control and regulation of chemical dosage to residential and public pools. Featuring a stylish and practical enclosure that houses the electronics and multiparameter sensor pocket camera. Swing door for easy access to the probes for maintenance and inspection service. Color touch screen with intuitive navigation menus. Permits from regulatory control settings and professionals to very advanced version control conditions and more stringent state information.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Smart Control pH/ORP	**54523**	1	-	
Smart Control pH/CI	**54524**	1	-	
Smart Control pH/ORP/CI	**54525**	1	-	

	SMART CONTROL pH/ORP	SMART CONTROL pH/CI	SMART CONTROL pH/ORP/CI
Sensors	pH ORP (mV) Conduct./Temp (opc.)	pH Cl_2 ppm ((potentiostatic 3-electrodes) Conduct. / Temp.	pH ORP (mV) Cl2 ppm ((potentiostatic 3-electrodes) Conduct. / Temp.
Features	Enclosure protection - Door access probes - TFT-1 color touch - Intuitive menus Time clock, battery - Transparent probe holder - Light probe holder (opt) Detect. Inductive flow		
Communication	Ambient Light Detector (opt) 4-20 mA Output (2), (opt) Pulse Output (2), (opt) 4-20 mA (3), (opt) 7 digit entries. progr. 8 outputs progr. 230 V / Clock Historical (1 week) USB (opt) Ethernet (opt) Modbus	Ambient Light Detector (opt) 4-20 mA Output (2) Pulse Output (2) 4-20 mA (3) 7 digit entries. progr. 8 outputs progr. 230 V / Clock Historical (4 weeks) USB Ethernet (opt) Modbus	Ambient Light Detector 4-20 mA Output (2) Pulse Output (2) 4-20 mA (3) 7 digit entries. dev. Prog 8 outputs 230 V / Clock Historical (4 weeks) USB Ethernet Modbus

Pool Patrol

New

The Colorimetric controller unit gives a reply to the demand of the Swimming Pool Market requiring compact, easy and low maintenance device, with IP65 enclosure. The available measures are: Free Chlorine (DPD1), pH, Redox (ORP), Temperature. Thanks to its internal graphic display it is possible to have all measures displayed at the same time. The Plastic Cover assures an easy accessibility to the hydraulic part. Includes: Measuring instrument, flow detector by temperature, pH sensor, ORP sensor, pH calibration solutions, ORP calibration solutions and DPD2 bottle.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Pool Patrol	**54527**	1	-	-

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

Controller

New

Automatic pH, Redox and free Chlorine regulation equipment.

- 8 x 12 mm Standard connections.
- Air vent purge at the entrance.
- 80 micron filter integrated.
- New reed flow proximity sensor, avoiding overdoses when the flow decreases.
- Integrated support for sensors.
- Adjustable flow valve and valve for water samples.
- 4-20 mA outlet for external registration.
- Adjustable frequency output 0-120 imp/min.
- Automatic temperatura compensation.

Controller pH/Redox/serial Port

Includes:
- pH + Redox electrodes + Temperature sensor (PT100)
- Buffer solutions kit
Does not include dosing pump nor electric valve for tablets dosage.

Controller pH/Cl/serial Port

Includes:
- pH + Chlorine electrodes + Temperature sensor (PT100)
- Buffer solutions kit
Does not include dosing pump nor electric valve for tablets dosage.

Controller pH/Cl/Redox/serial Port

Includes:
- pH + Redox + Chlorine electrodes + Temperature sensor (PT100)
- Buffer solutions kit
Does not include dosing pump nor electric valve for tablets dosage.

Controller Cl/serial Port

Includes:
- Chlorine electrode + Temperature sensor (PT100)
- Buffer solutions kit
Does not include dosing pump nor electric valve for tablets dosage.

	Code	Standard Packaging	Standard Weight kg	Standard Volume m³
Controller pH/Redox/serial Port	**53983**	1	-	-
Controller pH/Cl/serial Port	**53984**	1	-	-
Controller pH/Cl/Redox/serial Port	**53985**	1	-	-
Controller Cl/serial Port	**53986**	1	-	-

AUTOMATIC REGULATION AND CONTROL EQUIPMENT

Installation diagram for organic Chlorine or Bromine

swimming pool

non stop flocculation

filter

heat exchanger

pump

flocculant unit

balance tank

flocculant

motor driven valve

dosage pumps

dispenser Cl / Br

pH corrector

safety valve

waste water
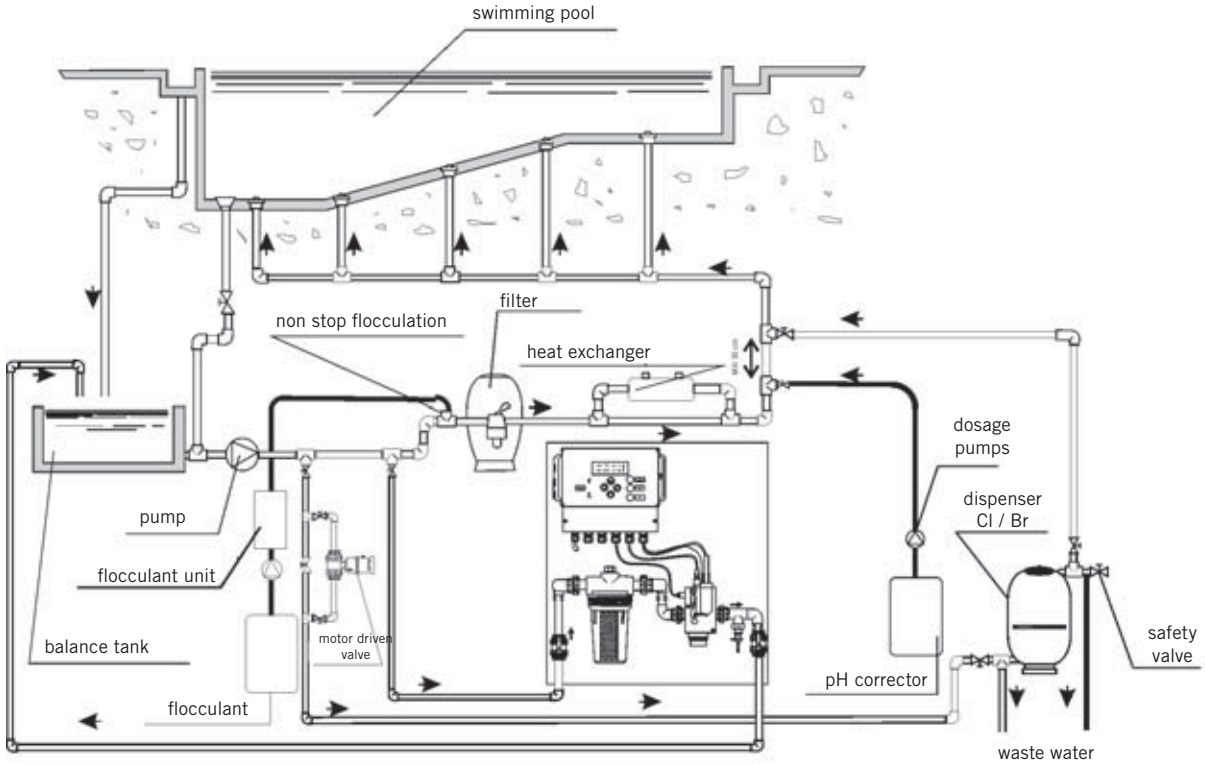
Installation diagram for Inorganic Chlorine

swimming pool

non stop flocculation

filter

heat exchanger

pump

flocculant unit

balance tank

flocculant

dosage pumps

Chlorine

pH corrector
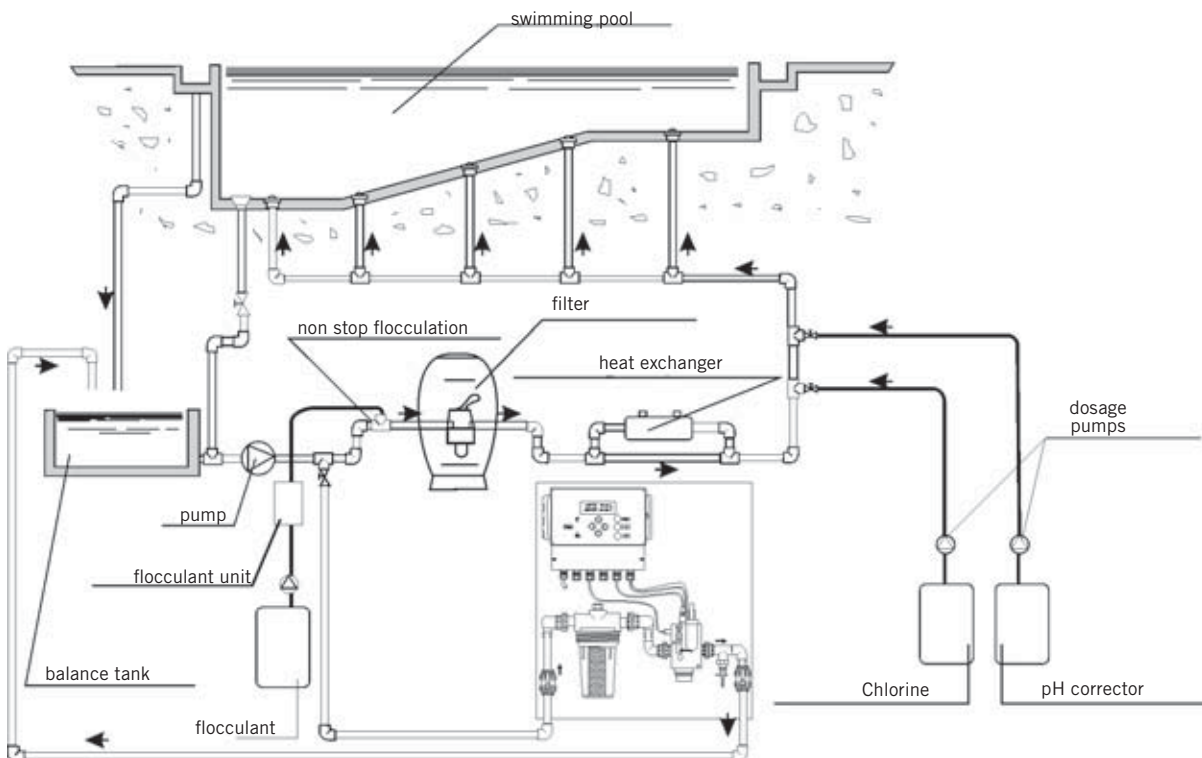
ELECTRODE CLEANING AND ADJUSTEMENT

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

DOSAGE,
MEASUREMENT,
REGULATION ...

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
Racor	mm					
*1/2"	15	99.999	115	72	59.5	59.5
*3/4"	20	99.999	115	72	59.5	59.5
1"	25	99.999	260	103	124	190
1¼"	30	99.999	260	103	124	190
1½"	40	999.999	300	128	155	222

Code	Standard Packaging	Standard Weight kg	Standard Volume m³
01134	1	0.5	-
01135	1	0.6	-
01136	1	2.1	-
01137	1	2.2	-
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				
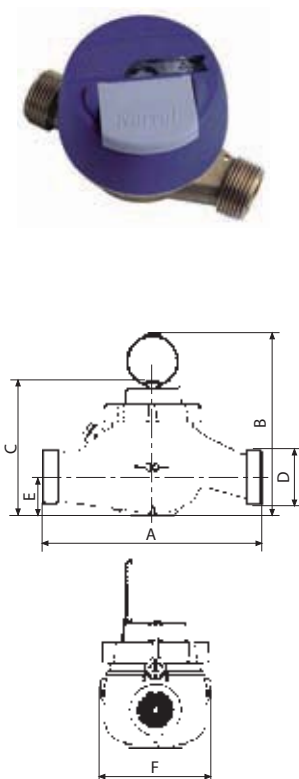
ATTENTION:
The water meter metrology, indicated below, follows CEE/ISO class A regulations.

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

New

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/cm²	1	1	1
Maximum pressure kg/cm²	10	10	10
Maximum flow m³/h	30	40	60

Pressure and flow diagrams

Water head in m

Flow m³/h
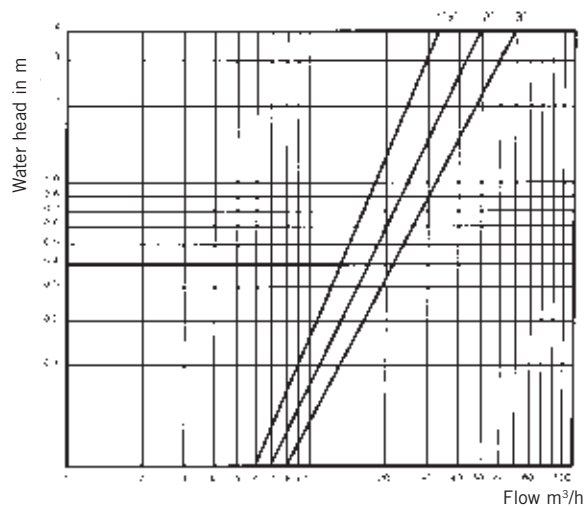
24 Volt. solenoids

To install in electric valves with code 09392, 06935 and 06936.

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

ELECTRODE CLEANING AND ADJUSTEMENT

BALANCE TANK INSTALLING DIAGRAM

FROM POOL OVERFLOW

FROM WATER NETWORK

ELECTRO DRIVEN VALVE

WATER METER

TO THE FILTRATION SYSTEM

TO DRAIN

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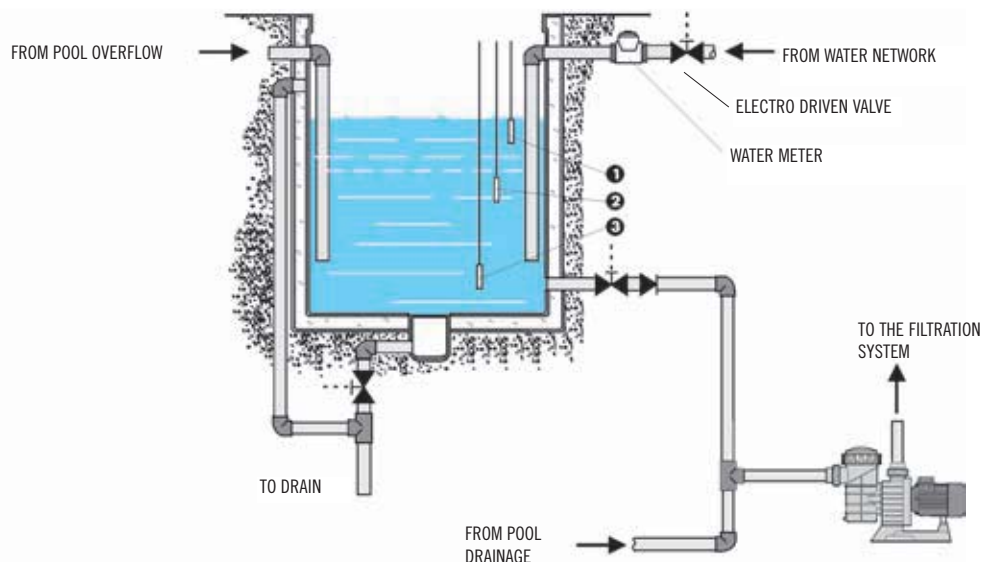
❶ Maximum water level signal in BALANCE TANK for starting the pumping system and electrodriven water inlet valve shut down.

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 - 1½"	**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

Control Unit with
Finger touch screen

Easily understandable Icon
and menu presentation

Communication Module

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.

	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	-	-