

GENERAL
CATALOGUE

ABOUT US

ETATRON, based in Rome, Italy, has been designing and manufacturing chemical dosing pumps and controllers for more than 40 years.

The company produces a wide range of pumps and control systems that serve a multitude of chemical dosing and monitoring applications, with an in-house engineering team offering bespoke solutions for chemical handling.

Our state-of-the-art production facility handles every aspect of manufacturing, assembly and testing for the entire product range, with every item undergoing rigorous quality control. Meanwhile, all equipment is supplied with an accessory kit and operating and maintenance manual as standard.

As one of Europe's largest manufacturers of solenoid metering pumps, **ETATRON** produces more than 100,000 units each year and exports products worldwide through a network of subsidiary offices

and official distributors. **ETATRON** offers a wide range of material options including PP, PVDF, PVC, SS and Hastelloy, while our experienced customer support team can make application-specific recommendations to ensure full compatibility with your process.

Products are manufactured under ISO 9001:2015 with certain ranges CSA certified. Each product is CE marked and supplied with a standard one-year warranty against manufacturing defects.

For more than four decades, **ETATRON** has designed, manufactured and supplied systems for sectors as varied as potable water treatment, effluent water treatment, leisure, industry and horticulture. So whether you require manually adjustable chemical dosing pumps or process controllers linked to proportionally controlled metering units, you can be certain that we will have dedicated solutions for your application.



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CONTENTS

Industry sectors	04	P SERIES	58
ETATRON connectivity	05	P	60
		Further information	61
EONE SERIES	06	ACCESSORIES	63
MA	08	MYPOOL SERIES	66
MF	09	MYPOOL	68
PLUS	10	Features & materials	69
Features & materials	11	PK POOL SERIES	70
PKX SERIES	12	PK POOL	72
MA/A	14	Features & materials	73
FT/A	15	TWINPOOL SERIES	74
Features & materials	16	TWINPOOL PH/RX - CL/PH	76
DLX SERIES	18	TWINPOOL S PH/RX - CL/PH	77
MA/AD	20	Features & materials	78
MA/MB	21	F SERIES	80
VFT/MBB	22	F	82
MF/M	23	F-T	82
PH-RX/MBB	24	Features & materials	83
Features & materials	25	B SERIES	84
AUREX	26	B3-V	86
MA - MA/L	28	B-F	86
MA/P	29	Features & materials	87
TM	30	BH SERIES	88
MF	31	BH3-V	90
PH-RX	32	Features & materials	91
Features & materials	33	ACCESSORIES	92
TWINPOOL	34	ECONTROL SERIES	94
PH/RX - CL/PH	36	MINIMUS SERIES	96
Features & materials	37	ELIGERE SERIES	98
COMPLETE PUMP HEADS	38	CONTROL & REGULATING SYSTEMS	104
ACCESSORIES	41	EPHOTON	109
ST-D SERIES	46	TANKS AND ACCESSORIES	110
ST-D	48	MIXERS	111
Features & materials	49	WATER METERS AND FLOW METERS	113
ST-P SERIES	50	ACCESSORIES	115
ST-P	52		
Features & materials	53		
D SERIES	54		
D	56		
Features & materials	57		

ETATRON IS PRESENT ACROSS ALL ASPECTS OF WATER TREATMENT



Wastewater

Where the treatment of wastewater requires precision both in the measurement of chemical parameters and the dosing of chemical products, ETATRON is present with state-of-the-art metering pump systems.



Potable Water

In drinking water treatment applications that demand precise dosing and reliable measurement of chlorine concentration, ETATRON offers a line of advanced products that detect and control essential water parameters.



Industry

In industrial applications requiring precise control of chemical processes, ETATRON's control instruments and dosing pumps are essential tools for the discerning professional looking to optimise consumption.



Cooling Towers

For the control of water parameters such as conductivity, pH and chlorine concentration in cooling water treatment, ETATRON's cutting-edge solutions include products that allow dosing proportional to water flow or chemical parameter measurement value.



Swimming Pools

ETATRON's expertise in swimming pool chemical dosing has seen us develop a series of products for both the domestic and commercial markets, with complete solutions for the automatic control of pool water parameters.



Agriculture

Where high-precision chemical dosing systems are required for the addition of saline solutions and essential plant nutrients in greenhouses, hydroponic crops and irrigation water, ETATRON is a leading supplier to the global agricultural sector.



MADE IN ITALY

With our base in the historic city of Rome, ETATRON draws upon Italy's rich heritage in the pump industry to deliver a comprehensive product range of the highest quality.

At our purpose-built production and office complex, a dedicated workforce supports a worldwide network of approved distributors and agents with design, production and technical expertise.

This allows us to achieve and maintain the highest standards of product quality and customer service, essential characteristics of the ETATRON brand across Italy and around the world. Furthermore, we are proud to hold the **ItalyX** certificate, confirming the authenticity and quality of our Italian production.

ETATRON's unique IoT-empowered EtaCloud software supports remote control of all the Eligere's operating and programming parameters to bring users closer than ever to their systems.

With remote connection via smartphone, tablet or PC, operators can monitor and control their process 24/7 from any location for unmatched application management.

This advanced software also sends alarms and status changes to the operator instantly via email, enabling swift remote technical service and helping to avoid unplanned downtime.

Connection with EtaCloud is made possible courtesy of a dedicated Connectivity Kit (not included), which consists of an RS485/USB cable, external module and 5V power supply.



EONE SERIES

SOLENOID DOSING PUMP



EONE SERIES

General information

The eOne Series is an innovative solenoid-driven pump that brings intelligent control to chemical dosing.

This state-of-the-art device reacts to system pressure variations and controls flow rate accordingly to enable energy saving, low-temperature running and minimal wear of mechanical and electrical components.

eOne Series pumps boast exclusive functions such as:

- UNDERLOAD – suction alarm for low chemical level, blocked suction valve or damaged suction tube.
- OVERLOAD – dosing alarm for pump head over pressure, excessive operating pressure within the dosing pipeline and blocked delivery valve.

Other unique features of the eOne Series include high injection frequency (up to 300 pulses/min) and a multi-tension power supply (100-250 Vac, 50/60Hz).

Materials

- Case: Reinforced, chemically resistant PP
- Pump head: PVDF, highly resistant polymer
- Valves: Ceramic balls and all seals in FPM or TFE/P
- Diaphragm: PTFE

INSTALLATION KIT

PVDF-TFE/P kit

All eOne systems are supplied with a PVDF-TFE/P installation kit, made up of a 2 m discharge PE tube (4x6 mm), 2 m suction and 2 m bleeding PVC crystal tube (4x6 mm), PVDF foot-filter and PVDF injection valve. Other configurations are available upon request.

Flow Rate	Code
1-15 l	SCO 00300 22
20 - 30 l	SCO 00310 21



BRACKET INCLUDED

Support bracket for wall



Technical Specifications

Version	Flow rate	Pressure	Max frequency	Connections Int/Ext	Power supply	Power consumption
	l/h (US gal/h)	bar (psi)	imp/min	mm		min/max (W)
0110	1 (0.26)	10 (145)	180	4x6	100 – 250 Vac; 50 – 60 Hz	5/23
0216	2 (0.53)	16 (232)	300	4x6	100 – 250 Vac; 50 – 60 Hz	5/23
0420	4 (1.06)	20 (290)	300	4x6	100 – 250 Vac; 50 – 60 Hz	10/32
0607	6 (1.59)	7 (101)	300	4x6	100 – 250 Vac; 50 – 60 Hz	5/23
0710	7 (1.84)	10 (145)	300	4x6	100 – 250 Vac; 50 – 60 Hz	7/26
1012	10 (2.64)	12 (174)	300	4x6	100 – 250 Vac; 50 – 60 Hz	10/32
1505	15 (3.96)	5 (72)	300	4x6	100 – 250 Vac; 50 – 60 Hz	7/26
2007	20 (5.26)	7 (101)	300	6x8	100 – 250 Vac; 50 – 60 Hz	10/35
3005	30 (7.92)	5 (72)	300	6x8	100 – 250 Vac; 50 – 60 Hz	10/35

MA

Analogue solenoid dosing pump with constant flow

eOne MA is a solenoid dosing pump with intelligent power control that automatically reacts to dosing conditions.

FEATURES

- Flow rate control according to pressure variation
- Energy saving
- Low heating
- Minimal wear of mechanical and electrical components
- Manual flow rate adjustment
- Dual scale adjustment: 0 – 20% and 0 – 100%
- Manual air bleed pump head
- Automatic air bleed available on request
- Level probe input
- Flow rate: 1 – 30 l/h
- Stroke rate: 180 – 300 impulses/min
- Proportional mode: 1:1 by water-meter pulse-sender signal
- Maximum pressure: 20 bar



Models

eOne MA (Wall mounting)	eOne B MA (Foot mounting)	Version
PEU 45 389 4l	PBU 45 389 4l	0110
PEU 45 391 4l	PBU 45 391 4l	0216
PEU 45 392 4l	PBU 45 392 4l	0420
PEU 45 393 4l	PBU 45 393 4l	0607
PEU 45 394 4l	PBU 45 394 4l	0710
PEU 45 395 4l	PBU 45 395 4l	1012
PEU 45 396 4l	PBU 45 396 4l	1505
PEU 45 397 4l	PBU 45 397 4l	2007
PEU 45 386 4l	PBU 45 386 4l	3005

MF

Multifunction microprocessor solenoid dosing pump

eOne MF is a solenoid dosing pump with intelligent power control that automatically reacts to dosing conditions.

FEATURES

- Manual air bleed pump head
- Automatic air bleed available on request
- Manual flow rate regulation: 0-100%, 0-300% impulses/min
- Proportional dosing modes (1 x n; 1 : n; 1 x n M; ml x l; L x l; ml x m3; ppm)
- Flow rate control depending on pressure variation
- Energy saving
- Low heating
- Minimal wear of mechanical and electrical components
- Daily and weekly timer (16 programmes/day)
- Relay output
- 4-20 mA control
- Flow sensor input
- Stroke rate: 180 – 300 impulses/min
- Level probe input



Models

eOne MF (Wall mounting)	eOne B MF (Foot mounting)	Version
PEU 48 389 4I	PBU 48 389 4I	0110
PEU 48 391 4I	PBU 48 391 4I	0216
PEU 48 392 4I	PBU 48 392 4I	0420
PEU 48 393 4I	PBU 48 393 4I	0607
PEU 48 394 4I	PBU 48 394 4I	0710
PEU 48 395 4I	PBU 48 395 4I	1012
PEU 48 396 4I	PBU 48 396 4I	1505
PEU 48 397 4I	PBU 48 397 4I	2007
PEU 48 386 4I	PBU 48 386 4I	3005

PLUS

Multi-function microprocessor solenoid dosing pump with pH, Rx or Cl (ppm) and proportional control

eOne PLUS is a solenoid dosing pump with intuitive control of power that reacts to current dosing conditions.

FEATURES

- Flow rate control depending on pressure variation
- Low heating
- Energy saving
- Minimal wear of mechanical and electrical components
- High injection frequency up to 300 pulses/min
- Manual flow rate regulation: 0-100%, 0-300 impulses/min
- Maximum pressure: 20 bar
- Manual air bleed pump head
- Automatic air bleed available on request
- Flow rate: 1 – 30 l/h
- Stroke rate: 180 – 300 impulses/min
- Proportional dosing modes (1 x n; 1 : n; 1 x n M; ml x l; L x l; ml x m3; ppm)
- Measure ranges: 0.00– 14.00 pH; -1000 /+1400 mV Redox; 0-2, 0-10, 0-20, 0-200 ppm
- Daily and weekly timer (16 programmes/day)
- Relay output
- ON/OFF mode or proportional mode
- DIRECT or REVERSE intervention
- PT100 temperature probe input
- 4-20 mA control
- Flow sensor input
- Hysteresis
- Level probe input



Models

eOne PLUS (Wall mounting)	eOne B PLUS (Foot mounting)	Version
PEU 46 389 4I	PBU 46 389 4I	0110
PEU 46 391 4I	PBU 46 391 4I	0216
PEU 46 392 4I	PBU 46 392 4I	0420
PEU 46 393 4I	PBU 46 393 4I	0607
PEU 46 394 4I	PBU 46 394 4I	0710
PEU 46 395 4I	PBU 46 395 4I	1012
PEU 46 396 4I	PBU 46 396 4I	1505
PEU 46 397 4I	PBU 46 397 4I	2007
PEU 46 386 4I	PBU 46 386 4I	3005

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlight
Blue/White 16 digits

CASE

Chemical resistant polypropylene

PUMP HEAD

PVDF

VALVES

Ceramic balls
FPM seals

COVER

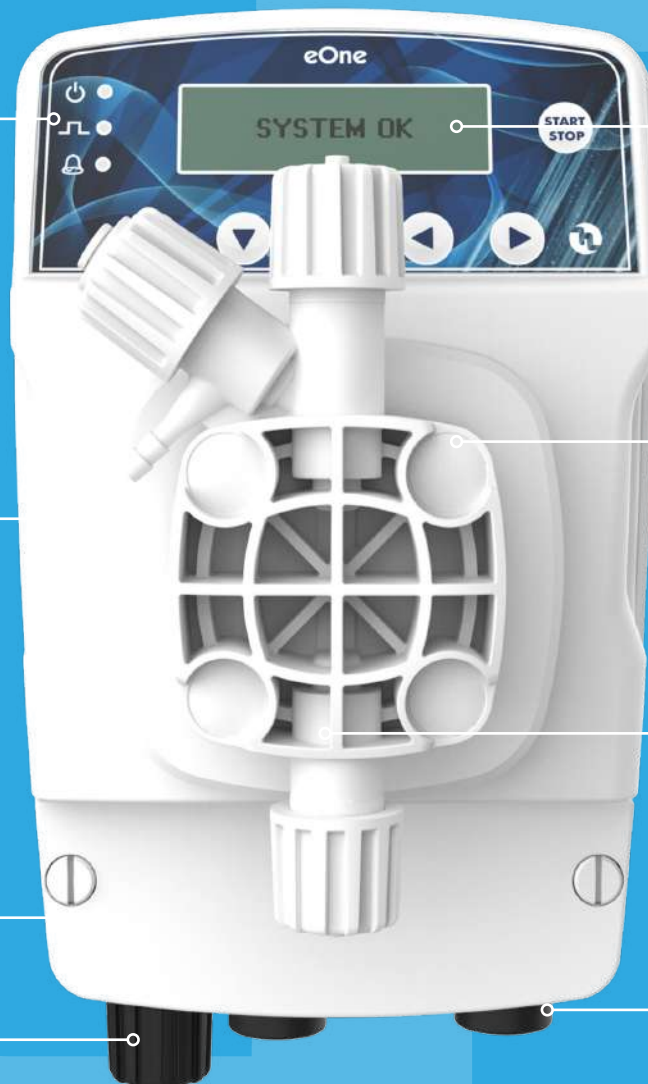
Terminal box cover

POWER SUPPLY

Multitension 100-250 Vca, 50/60Hz
consumption: 15W

CABLE GLANDS

Services



PKX SERIES

SOLENOID DOSING PUMP



PKX SERIES

General information

PKX Series metering pumps are the ideal solution for operators who want to achieve precise low-volume dosing with an exceptional price/quality ratio. This packaged solution includes a mounting bracket to simplify wall or horizontal installation.

- Flow rate: up to 10 l/h
- Operating pressure: up to 7 bar
- Max. stroke rate: 120 impulses/min
- Manual air bleed pump head
- Available with removable power cable
- Extra quiet-running version available upon request
- IP65 ingress protection

Materials

- Case: Reinforced, chemically resistant PP
- Pump head: PP
- Valves: FPM lips
- Diaphragm: PTFE
- Pump head options include PVDF with ceramic balls and auto-bleeding

INSTALLATION KIT

PP-FPM kit

PP injection valve, PP foot filter, PVC suction tube and PE discharge tube.

Flow Rate	Code
up to 20 l/h	2061002



Technical Specification

Version	Flow rate	Pressure	Max frequency	Injection volume	Connections Int/Ext	Power supply
	l/h (US gal/h)	bar (psi)	imp/min	cc per stroke	mm	min/max (W)
0105	1 (0.26)	5 - 72	120	0.14	4x6	230V - 50 - 60 Hz
0206	2 (0.53)	6 - 87	120	0.28	4x6	230V - 50 - 60 Hz
0505	5 (1.32)	5 - 72	120	0.69	4x6	230V - 50 - 60 Hz
0507*	5 (1.32)	7 - 101	120	0.69	4x6	230V - 50 - 60 Hz
0702	7 (1.84) 10 (2.64)	2 - 29 1 - 14	120	0.97	4x6	230V - 50 - 60 Hz

*Only PKX MA/A

MA/A

Analogue solenoid dosing pump

Compact solenoid dosing pump with configurable foot or wall mount bracket.

FEATURES

- Manual flow rate adjustment: 0 – 100%
- Flashing LED under working conditions
- PP reinforced housing
- PP pump head with lip valves



Models

PKX MA/A	Version
PKX 01 028 01	0105
PKX 01 289 01	0206
PKX 01 039 01	0505
PKX01 038 01	0507
PKX 01 040 01	0702

FT/A**Proportional solenoid dosing pump**

Compact solenoid dosing pump with configurable foot or wall mount bracket.

FEATURES

- Proportional dosing mode (free tension contact)
- Volumetric proportional (F type): 1:1 (1 dose per pulse)
- Volumetric with timer (T type): 1 pulse, the pump will dose for a period of time (from 0 to 60 sec) adjustable from 0 to 100%
- Level probe input
- PP reinforced housing
- PP pump head with lip valves

**Models**

PKX FT/A	Version
PKX 30 028 01	0105
PKX 30 289 01	0206
PKX 30 039 01	0505
PKX 30 040 01	0702

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

KNOB

Manual dosing adjustment
(0÷100% max flow)

CASE

Chemical resistant polypropylene

PUMP HEAD

Polypropylene (PP)

VALVES

FPM lip
FPM seals

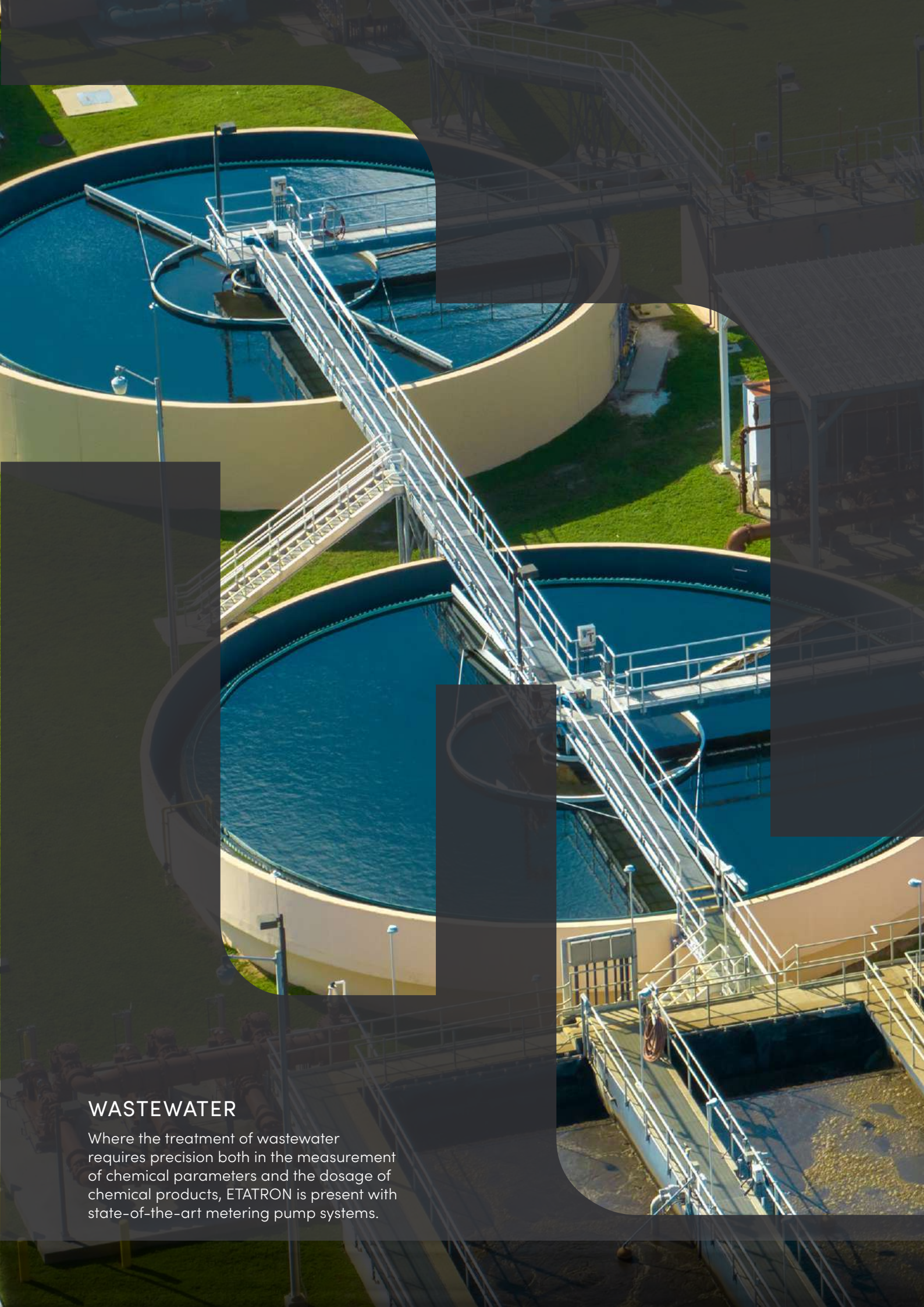
POWER SUPPLY

220/240 V 50-60Hz
Maximum power consumption: 32W

MOUNTING BRACKET

Provides the option of wall (vertical) or tank (horizontal) mounting





WASTEWATER

Where the treatment of wastewater requires precision both in the measurement of chemical parameters and the dosage of chemical products, ETATRON is present with state-of-the-art metering pump systems.

DLX SERIES

SOLENOID DOSING PUMP



DLX SERIES

General information

The exceptional reliability and affordability of ETATRON's DLX/DLXB foot or wall mounting place it at the forefront of the dosing systems market where value for money and extensive service life are essential.

- Anti-acid polypropylene plastic casing
- Up to 20 l/h and 20 bar
- Power supply: 220-240V - 120V (on request)
- Stroke frequency: 120 or 150(20l) strokes/min
- IP65 ingress protection

Materials

- Case: Reinforced, chemically resistant PP
- Pump head: PVDF/PP/PVC
- Valves: Ceramic balls and FPM seals*
- Diaphragm: PTFE

*different configurations available upon request

INSTALLATION KIT

PVDF-FPM kit

All DLX pumps are supplied with a PVDF-FPM installation kit, made up of 2 m discharge PE tube (4x6 mm), 2 m suction + 2 m bleeding PVC crystal tube (4x6 mm), PVDF foot-filter and PVDF injection valve. Other configurations are available upon request.

Flow Rate	Code
1-15 l	SCO 00300 01



PP-FPM kit

All DLX pumps are supplied with a PP-FPM installation kit, made up of 2 m discharge PE tube (4x6 mm), 2 m suction + 2 m bleeding PVC crystal tube (4x6 mm), PP foot-filter and PP injection valve. Other configurations are available upon request.

Flow Rate	Code
20 l or 20 bar	SCO 00300 02



Technical Specifications

Version	Flow rate	Pressure	Max frequency	Injection volume	Power supply	Power consumption	Net weight
	l/h (US gal/h)	bar (psi)	imp/min	cc per stroke		W	Kg
0115	1 (0.26) 2 (0.53) 3 (0.78)	15 (217) 10 (145) 5 (72)	120	0.14 0.28 0.42	230V - 50 - 60 Hz	37	2.3
0220	2 (0.53)	20 (290)	120	0.28	230V - 50 - 60 Hz	37	3
0507	5 (1.32) 6 (1.59) 8 (2.12)	7 (101) 5 (72) 2 (29)	120	0.69 0.83 1.11	230V - 50 - 60 Hz	37	2.3
0810	8 (2.12) 10 (2.64) 12 (3.17)	10 (145) 7 (101) 3 (43)	120	0.69 0.83 1.11	230V - 50 - 60 Hz	37	3.8
1504	15 (3.96)	4 (58)	120	2.08	230V - 50 - 60 Hz	37	3.8
2003	20 (5.26)	3 (43)	120	2.22	230V - 50 - 60 Hz	37	3.8

MA/AD

Analogue dosing pump with manual flow rate regulation

The DLX MA/AD model consists of a series of metering pumps that can be manually regulated via a control knob.

FEATURES

- Double manual regulation
- Selectable regulation range: 0-20% or 0-100%



Models

DLX MA/AD (Wall mounting)	DLXB MA/AD (Foot mounting)	Version
PLX 23 222 5E	PBX 23 222 5E	0115
PLX 23 032 01	PBX 23 032 01	0220
PLX 23 038 5E	PBX 23 038 5E	0507
PLX 23 228 5E	PBX 23 228 5E	0810
PLX 23 231 5E	PBX 23 231 5E	1504
PLX 23 220 01	PBX 23 231 5E	2003

MA/MB

Digital dosing pump with manual flow rate regulation

The DLX MA/MB model consists of a series of microcontroller metering pumps offering digital dosing and manual regulation.

FEATURES

- Seven-segment display
- Manual flow-rate adjustment
- Level input (supplied without probe)
- Flow sensor (also available without)
- Digital display



Models

DLX MA/MB (Wall mounting)	DLXB MA/MB (Foot mounting)	Version
PLX 24 222 5E	PBX 24 222 5E	0115
PLX 24 032 01	PBX 24 032 01	0220
PLX 24 038 5E	PBX 24 038 5E	0507
PLX 24 228 5E	PBX 24 228 5E	0810
PLX 24 231 5E	PBX 24 231 5E	1504
PLX 24 220 01	PBX 24 220 01	2003

VFT/MBB

Volumetric digital solenoid dosing pump

This model consists of a series of metering pumps that perform proportional dosing via a contact water meter.

FEATURES

- Seven-segment display
- Digital manual flow rate adjustment from 0-100%
- Proportional dosing functions via reed water meter: 1xn; 1xn (m) 1:n
- Manual air bleed pump head (automatic air bleed available on request)
- Relay output
- Level switch connector
- Digital display



Models

DXL VFT/MBB (Wall mounting)	DLXB VFT/MBB (Foot mounting)	Version
PLX 39 222 5E	PBX 39 222 5E	0115
PLX 39 032 01	PBX 39 032 01	0220
PLX 39 038 5E	PBX 39 038 5E	0507
PLX 39 228 5E	PBX 39 228 5E	0810
PLX 39 231 5E	PBX 39 231 5E	1504
PLX 39 220 01	PBX 39 220 01	2003

MF/M

Digital dosing pump with proportional flow rate regulation by mA or digital (by water meter) signal

The DLX MF/M model consists of a series of microcontroller metering.

FEATURES

- LCD display
- Manual flow-rate adjustment
- Input mA
- Input water meter
- Timer
- Level input (supplied without probe)
- Flow sensor (also available without)



STROKE LENGTH ADJUSTMENT (OPTIONAL)

Available exclusively for the DLXB foot-mounting version. This optional feature allows you to adjust the plunger stroke length from 20% to 100% using the dedicated knob, enabling precise control of the product delivered with each injection.



Models

DLX MF/M (Wall mounting)	DLXB MF/M (Foot mounting)	Version
PLX 17 222 5E	PBX 17 222 5E	0115
PLX 17 032 01	PBX 17 032 01	0220
PLX 17 038 5E	PBX 17 038 5E	0507
PLX 17 228 5E	PBX 17 228 5E	0810
PLX 17 231 5E	PBX 17 231 5E	1504
PLX 17 220 01	PBX 17 220 01	2003

PH-RX/MBB

Digital solenoid dosing pump with pH/Redox control

The DLX PH-RX/MBB is a digital solenoid dosing pump with integrated pH and Redox measurement instrument, designed to ensure precise and fully monitored chemical dosing.

FEATURES

- Seven-segment display
- Digital manual flow rate adjustment from 0-100%
- Proportional dosing functions via reed water meter: 1xn; 1xn (m); 1:n
- Manual air bleed pump head (automatic air bleed available on request)
- Relay output
- Level switch connector
- Digital manual
- Control; level alarm.



Models

DXL PH-RX/MBB (Wall mounting)	DLXB PH-RX/MBB (Foot mounting)	Version
PLX 36 222 5E	PBX 36 222 5E	0115
PLX 36 032 01	PBX 36 032 01	0220
PLX 36 038 5E	PBX 36 038 5E	0507
PLX 36 228 5E	PBX 36 228 5E	0810
PLX 36 231 5E	PBX 36 231 5E	1504
PLX 36 220 01	PBX 36 220 01	2003

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

7 segment

CASE

Chemical resistant polypropylene

PUMP HEAD

PVDF

VALVES

Ceramic balls
FPM seals

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 37W

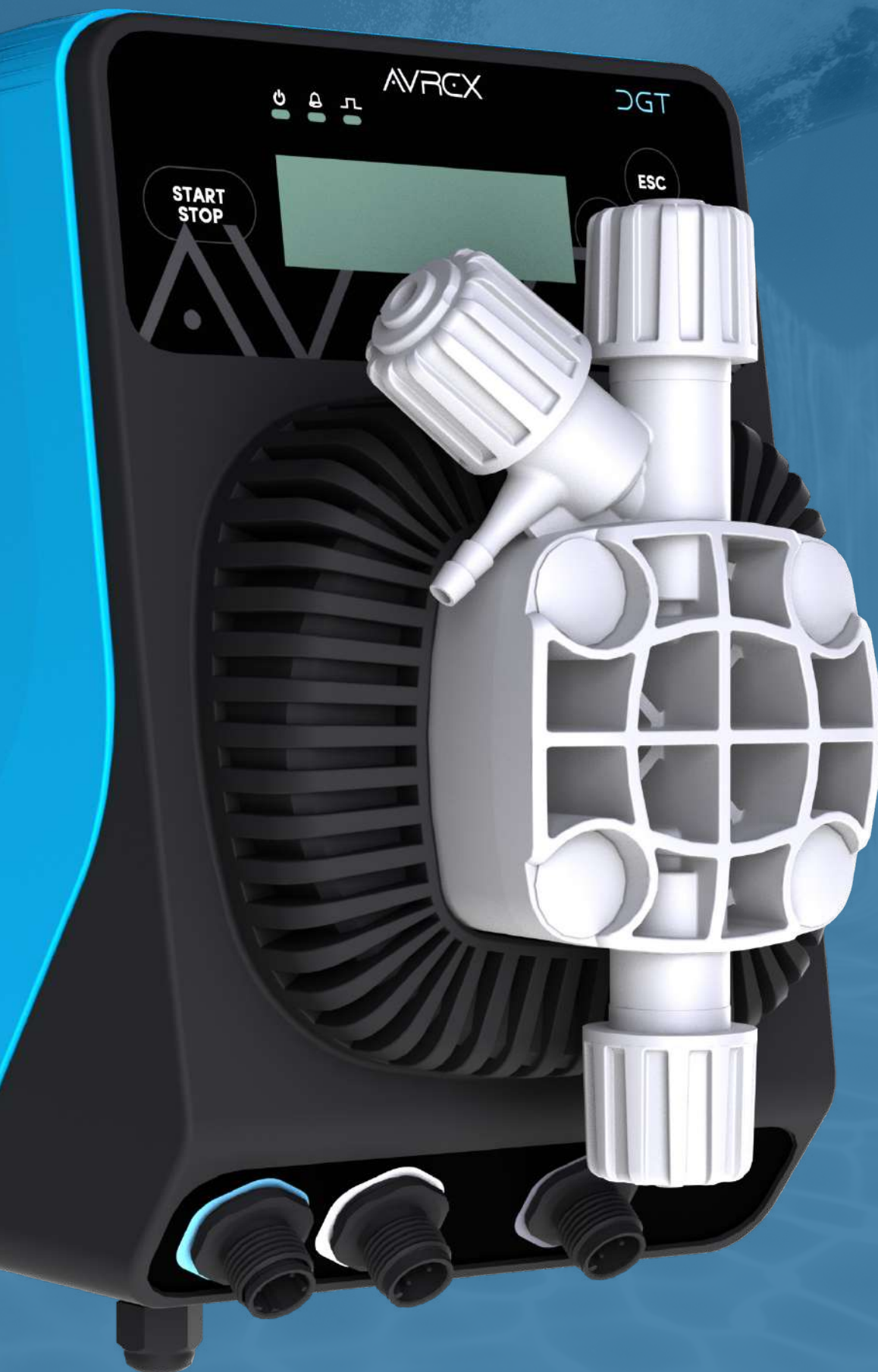
CONNECTORS

Service output



AUREX

SOLENOID DOSING PUMP



AUREX

General information

The AUREX range features multiflow technology, allowing each pump to cover different flow rate and pressure ranges with outstanding precision. One pump, multiple performances: this is the strength of the AUREX range, designed to provide flexibility, efficiency, and reliability in every application..

- Anti-acid plastic casing
- Up to 50 l/h and 20 bar
- Power supply: 220-240V
- Stroke frequency: from 100 to 300 strokes/min
- IP65 ingress protection

Materials

- Case: Reinforced, chemically resistant PP
- Pump head: PVDF
- Valves: Ceramic balls and FPM seals*
- Diaphragm: PTFE

*different configurations available upon request

INSTALLATION KIT

PVDF-FPM kit

All AUREX pumps are supplied with a PVDF-FPM installation kit, made up of 2 m discharge PE tube (4x6 mm), 2 m suction + 2 m bleeding PVC crystal tube (4x6 mm), PVDF foot-filter and PVDF injection valve. Other configurations are available upon request.

Flow Rate	Code
1-15 l (4x6 mm)	SCO 00300 01
20 - 50 l (6x8 mm)	SCO 00310 01



BRACKET INCLUDED

Support bracket for wall



Technical Specifications

Version	Flow rate	Pressure	Max frequency	Injection volume	Power supply	Power consumption	Net weight
	l/h (US gal/h)	bar (psi)	imp/min	cc per stroke		W	Kg
A	2 (0.53)	20 (290)	100	0.33	220-240V - 50-60Hz	70	3
	4 (1.06)	15 (218)	165	0.40			
	7 (1.85)	10 (145)	240	0.48			
B	8 (2.12)	7 (102)	150	0.89	220-240V - 50-60Hz	56	3
	10 (2.64)	5 (72.5)	170	0.98			
	20 (5.28)	2 (29)	250	1.33			
C	30 (7.93)	3 (43.5)	214	2.34	220-240V - 50-60Hz	94	3
	40 (10.57)	1 (14.5)	240	2.78			
	50 (13.21)	0 (0)	300	2.78			

MA

MA

Analog dosing pump with flow/
backpressure selection and manual
frequency adjustment

Flow rate manually adjustable by a potentiometer
acting on the injection frequency, with level probe
provision (MA/L version only).

FEATURES

- Provision for level probe (MA/L version (probe not included)).
- Dual scale: 0-20% and 0-100%.
- Priming function.
- Acid-resistant housing (PP).
- Protection rating IP65.
- Max flow rate: 50 l/h; Max backpressure: 20 bar.
- Wall-mounted or base-mounted installation with bracket (not included).
- Configuration: PVDF head, PTFE diaphragm, FPM seals, ceramic ball valves*.
- Head with manual priming valve: from 2 to 50 l/h.
- Standard power supply: 220-240V.
- 3 different flow rates selectable by the user.

* other configurations available on request



MA/L



Models

AUREX MA (Wall mounting)	AUREX MA/L (Wall mounting)	Version
PVDF	PVDF	
PME 23 425 5E	PME 23 425 9P	A
PME 23 418 5E	PME 23 418 9P	B
PME 23 419 5E	PME 23 419 9P	C

MA/P

Analog manual and proportional dosing pump from counter and mA signal, with flow rate/back pressure selection.

The AUREX is a multifunction dosing pump with a microprocessor that allows for an accurate selection of injection pulses. Max flow rate/working pressure can be selected by the user.

FEATURES

- Manual adjustment of flow rate
- Regulation range: 0-100%
- Level probe input (upon request)
- Acid-resistant plastic box
- IP65 ingress protection
- Max flow rate: 50 l/h; max backpressure: 10 bar
- Wall or horizontal mounting
- Standard pump head: in PVDF, diaphragm in PTFE, seats in FPM, ceramic ball valves*
- Standard power supply: 220-240V

* further configurations available on request

** other power supplies available on request



Models

AUREX MA/P (Wall mounting)	Version
PVDF	
PME 54 425 5E	A
PME 54 418 5E	B
PME 54 419 5E	C

TM

Digital metering pump with flow rate/ backpressure selection and proportional flow rate regulation.

The AUREX is a multifunctional metering pump with a microprocessor and display that allows for precise selection of injection pulses. Maximum flow rate/working pressure can be selected by the user.

FEATURES

- Provision for level probe (probe not included).
- Operating mode: Manual mode, with the option to set the number of injections per MINUTE/HOUR/DAY.
- Daily and weekly timer.
- Alarm relay output.
- PRIMING function.
- 4 languages: ITALIAN, ENGLISH, FRENCH, SPANISH.
- PASSCODE can be set.
- Acid-resistant case (PP).
- IP65 protection rating.
- Maximum flow rate: 50 l/h; Maximum back pressure: 20 bar.
- Wall-mounted or floor-mounted with bracket (not included).
- Configuration: PVDF head, PTFE diaphragm, FPM seals, ceramic ball valves*.
- Manual purge head: 2 to 50 l/h.
- Standard power supply: 220-240V.
- 3 different user-selectable flow rates.

*further configurations on request



Models

AUREX TM (Wall mounting)	Version
PVDF	
PME 55 425 5E	A
PME 55 418 5E	B
PME 55 419 5E	C

MF

Digital metering pump with flow rate/backpressure selection and proportional flow rate regulation.

The AUREX is a multifunctional metering pump with a microprocessor and display that allows for precise selection of injection pulses. The flow rate/maximum operating pressure can be selected by the user.

FEATURES

- Provision for level probe (probe not included).
- Operating functions: proportional and ON/OFF modes; proportional dosing from pulse-emitting water meter: 1xn; 1xn (m); 1:n; mlxP; lxF; mlxm³; PPM; adjustable 4-20 mA control.
- Alarm relay output.
- Daily and weekly timer.
- PRIMING function.
- 4 languages: ITALIAN, ENGLISH, FRENCH, SPANISH.
- Possibility to set a PASSCODE.
- Acid-resistant housing (PP).
- Protection rating: IP65.
- • Max. flow rate: 50 l/h; Max. back pressure: 20 bar.
- Wall or floor mounting with bracket (not included).
- Configuration: PVDF head, PTFE diaphragm, FPM seals, ceramic ball valves*.
- Head with manual priming: from 2 to 50 l/h.
- Standard power supply: 220-240V.
- 3 different flow rates selectable by the user.

* further configurations available upon request



Models

AUREX MF (Wall mounting)	Version
PVDF	
PME 17 425 5E	A
PME 17 418 5E	B
PME 17 419 5E	C

pH-Rx

Digital dosing pump with flow rate/ backpressure selection and proportional flow rate regulation linked to pH or Rx measurement.

The AUREX is a microprocessor-based dosing pump with a display that allows for precise selection of injection pulses. Maximum flow rate/working pressure can be selected by the user.

FEATURES

- Ready for level probe (probe not included).
- Operating functions: - Manual; - ON-OFF or proportional reading and dosing based on pH or Rx measurement;
- mA output (linked to measurement)
- Alarm relay output.
- Daily and weekly timer.
- PRIMING function
- 4 languages: ITALIAN, ENGLISH, FRENCH, SPANISH
- PASSCODE can be set.
- Acid-resistant case (PP).
- IP65 protection rating.
- Max. flow rate: 50 l/h; Max. pressure: 20 bar.
- Wall-mounted or floor-mounted with bracket (not included).
- Configuration: PVDF head, PTFE diaphragm, FPM seals, ceramic ball valves*.
- Head with manual venting: 2 to 50 l/h.
- Standard power supply: 220-240V.
- 3 different user-selectable flow rates.



Models

AUREX PH-RX (Wall mounting)	Version
PVDF	
PME 36 425 5E	A
PME 36 418 5E	B
PME 36 419 5E	C

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

CASE

Chemical resistant polypropylene

DISPLAY

Digital backlight

PUMP HEAD

PVDF

VALVES

Ceramic balls
FDM seals

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 94W

CONNECTORS

Service output



TWINPOOL

SOLENOID DOSING PUMP



TWINPOOL

General information

TwinPool is a compact, easy-to-use system consisting of two dosing pumps and two parameter controllers designed to measure pH/Redox or Cl/pH and temperature.

Conceived primarily for the swimming pool sector, TwinPool is available in both peristaltic and solenoid versions, while the system can be equipped with a complete calibration kit, including sensors and mounting accessories, on request.

- Over-dosing alarm
- Level control, alarm output relay
- Power supply: 230V 50-60Hz
- Wall mounting
- IP65 ingress protection

Materials

- Case: Reinforced, chemically resistant PP
- Pump head: PVDF
- Valves: Ceramic balls and FPM seals
- Diaphragm: PTFE

INSTALLATION KIT

PP-FPM kit

PP injection valve, PP foot filter, PVC suction tube and PE discharge tube.

Flow Rate	Code
up to 20l/h	2061002



BRACKET INCLUDED

Support bracket for wall



Technical Specifications

Version	Flow rate	Pressure	Max frequency	Power supply	Power consumption	Net weight
	l/h (US gal/h)	bar (psi)	imp/min	cc per stroke	W	Kg
0206	2 (0.53)	6 (87)	120	230V - 50 - 60 Hz	65	3,5
0505	5 (1.32)	5 (72)	120	230V - 50 - 60 Hz	65	3,5

PH/RX

Dual-parameter dosing and regulation system

FEATURES

- Backlit graphic display and keypad
- Three relays fully selectable: on timer mode (weekly/daily) or as an additional set-point (including the temperature)
- Three programming menus: set-point, calibration and settings
- Measurement range: pH 0 - 14; Redox: - 1000 / + 1400 mV; Temperature 0 - 100 °C (PT100)
- Inputs: level probes; flow sensor; PT100 probe; proximity switch
- Manual dosing (On/Off): 0 - 120 pulses/minute
- Proportional dosing via self-regulation of stroke frequency
- Flow rate up to 5 l/h and pressure up to 6 bar
- Hysteresis
- Activation delay when switched on
- One additional relay dedicated to alarm signals
- One 4-20mA output, fully programmable



CL/PH

Dual-parameter dosing and regulation system

FEATURES

- Backlit graphic display and keypad
- Three relays fully selectable: on timer mode (weekly/daily) or as an additional set-point (including the temperature)
- Three programming menus: set-point, calibration and settings
- Measurement range: pH 0 - 14; Cl: 0÷2; 0÷10; 0÷20; 0÷200; Temperature 0 - 100 °C (PT100)
- Inputs: level probes; flow sensor; PT100 probe; proximity switch
- Manual dosing (On/Off): 0 - 120 pulses/minute
- Proportional dosing via self-regulation of stroke frequency
- Flow rate up to 5 l/h and pressure up to 6 bar
- Hysteresis
- Activation delay when switched on
- One additional relay dedicated to alarm signals
- One 4-20mA output, fully programmable



Models

TwinPool pH-Rx	TwinPool Cl-pH	Version
PVDF	PVDF	
CXB 801 01 01	CXB 801 02 01	0206
CXB 801 11 01	CXB 801 12 01	0505

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlight
Blue/White 16 digits

CASE

Chemical resistant polypropylene

COVER

Terminal box cover

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 65W

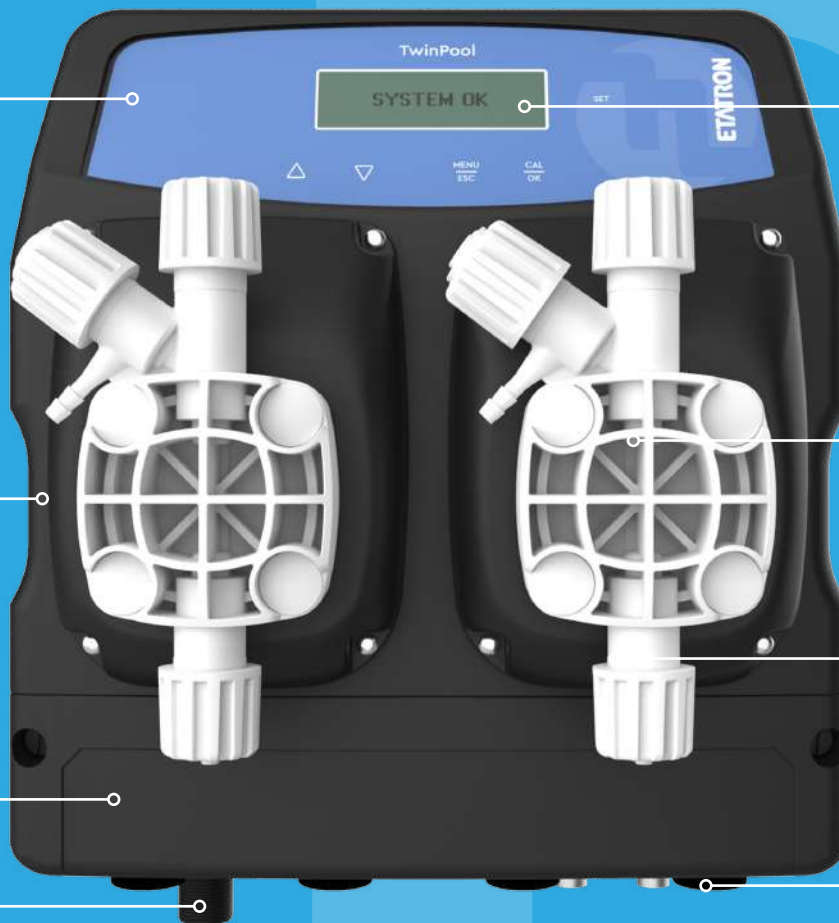
PUMP HEAD

PVDF

VALVES

Ceramic balls
FDM seals

CABLE GLANDS



COMPLETE PUMP HEADS

PP MANUAL AIR BLEED PUMP HEAD 1-15 l/h

Standard manual air bleed PP pump head, lip valves.
Connections for 4x6 tubes.

O-ring	Code
*FPM	SCP 00030 02
EPDM	SCP 00030 06

*PKX default part



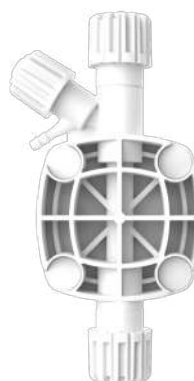
PVDF MANUAL AIR BLEED PUMP HEAD 1-15 l/h

Manual air bleed PVDF pump head, ceramic ball valves.
Up to 15 bar

O-ring	Code
*FPM	SCP 80068 51
TFE/P	SCP 80068 71
EPDM	SCP 80068 61

*Default

Max pressure: 15 bar

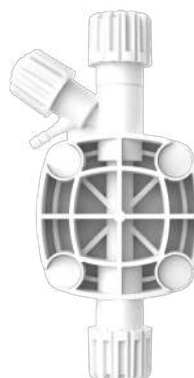


PVDF AUTOMATIC AIR BLEED PUMP HEAD 5-15 l/h

This pump head enables the automatic bleed-off of gas generated by gaseous liquids and is fitted with ceramic ball valves.

O-ring	Code	With diaphragms
FPM	SCP 80169 51	KCP 80169 51
TFE/P	SCP 80169 71	KCP 80169 71
EPDM	SCP 80169 61	KCP 80169 61

Max pressure: 12 bar



PLEXIGLAS®

Plexiglas® pump head for high-viscosity chemicals, supplied with stainless-steel ball valves.
Connections for 10x14 tubes.

Flow rate	Code
2-15 l/h (10x14)	SCP 00022 04
20 l/h (10x14)	SCP 00023 04
30-50-80 l/h (1" GM)	SCP 00024 04

Ball check valves in ceramic on request.



PVDF MANUAL AIR BLEED PUMP HEAD EONE/TWINPOOL 1-15 l/h

Standard pump head for eOne and TwinPool, ceramic ball valves. Connections for 4x6 and 6x8 tubes.

O-ring	Code
TFE/P	SCP 81054 71
TFE/P (10-piece kit)	KCP 81054 71
FPM	SCP 81054 51
EPDM	SCP 81054 61

PVDF MANUAL AIR BLEED PUMP HEAD EONE 20-30 l/h

Standard pump head for eOne with ceramic ball valves. Connections for 4x6 and 6x8 tubes.

O-ring	Code
*TFE/P	SCP 80068 71
FPM	SCP 80068 51
EPDM	SCP 80068 61

*Default

PVDF AUTOMATIC AIR BLEED PUMP HEAD EONE/TWINPOOL 1-15 l/h

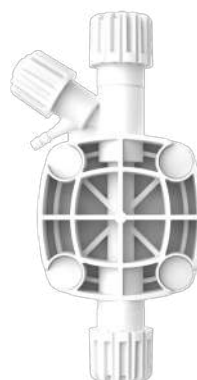
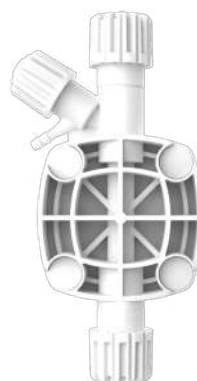
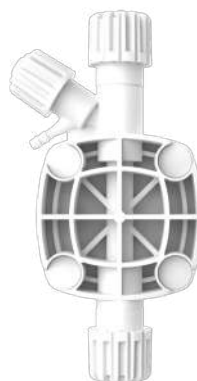
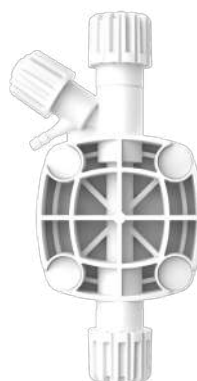
Pump housing with automatic bleeding and ceramic ball valves. The application of this type of head involves a reduction in the scope of the apparatus in the range between 10% and 20%, compared to the configuration with the pump body manual purge. Connections for 4x6 and 6x8 tubes.

O-ring	Code
TFE/P	SCP 80154 71
FPM	SCP 80154 51
EPDM	SCP 80154 61

PVDF AUTOMATIC AIR BLEED PUMP HEAD AUREX 1-15 l/h

Pump housing with automatic bleeding and ceramic ball valves. The application of this type of head involves

O-ring	Code
TFE/P	SCP 80154 71
FPM	SCP 80154 51
EPDM	SCP 80154 61



20L PP

Std pump head (PP), 20 liters for DLX(B)-BT 20 L/H – 3 BAR and 5 BAR. Connections for tube 4x6.

O-ring	Code
*FPM (Lip valves)	208 3148
*EPDM (Lip valves)	208 3150
FPM (Ceramic ball valves)	208 3160
EPDM (Ceramic ball valves)	208 3262

*without manual air bleed



PVC 20 BAR

Std pump head (PVC), 20 BAR for DLX(B)-BT 2 ÷ 5 l/h. Connections for tube 4x6.

O-ring	Code
FPM (Lip valves)	208 3079
EPDM (Lip valves)	208 3085

*without manual air bleed



PVC 30L - 50L - 80L

Pump head without manual air bleed. Connections for tube 10x14.

O-ring	Code
*FPM (Lip valves)	SCP 00003 52
EPDM (Lip valves)	SCP 00003 56
**FPM (Ceramic ball valves)	SCP 00003 68
EPDM (Ceramic ball valves)	SCP 00003 66

*Standard for 30L pumps

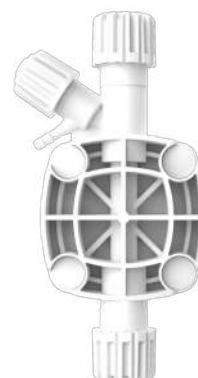
** Standard for 50-80L pumps.



PVDF MANUAL AIR BLEED PUMP HEAD

Manual air bleed PVDF, FPM, 6x8 pump head, available for AUREX C versions.

O-ring	Code
FPM	SCP 80068 54



ACCESSORIES

PVC SUCTION LANCE

Adjustable-height suction lance with foot valve/filter and float switch. Includes locking nut. The suction lance for the eOne and Aurex model is supplied without a connector.

Tube	TFE/P - EONE/AUREX (without connector)	FPM	EPDM
4x6 - 35 cm	SSO 00008 75	SSO 00008 05	SSO 00008 15
4x6 - 60 cm	SSO 00008 71	SSO 00008 01	SSO 00008 11
4x6 - 80 cm	SSO 00008 72	SSO 00008 02	SSO 00008 12
4x6 - 100 cm	SSO 00008 73	SSO 00008 03	SSO 00008 13
4x6 - 130 cm	SSO 00008 74	SSO 00008 04	SSO 00008 14
10x14 - 100 cm		SSO 00006 01	SSO 00006 11
10x14 - 130 cm		SSO 00006 04	SSO 00006 14
10x14 - 150 cm		SSO 00006 05	SSO 00006 15



EXTRACTABLE INJECTION LANCE

This product allows additive injection to a maximum distance of 20 cm from the attachment point on the main pipe. The lance features a 1/2" Gf or GM connection for 4x6 tube with a maximum flow rate of 20 l/h and maximum pressure of 10 bar.

Dosing at a certain distance from the inner wall of metal tubes reduces the risk of corrosion, while the lance's valve body can be inspected in the field.

Extractable injection lance

Material	PVDF with valve - connection - 1/2" Gf	PVDF - connection - 1/2" Gf
FPM	SSO 14310 01	SSO 04310 01
EPDM	SSO 14310 11	SSO 04310 11
TFE/P	SSO 14310 21	SSO 04310 21

Extractable injection lance

Material	PVDF with valve - connection - 1/2" GM (length 22 cm) without safety cord
FPM	SSO 14410 04



SIGNAL SPLITTER

The Signal Splitter connects two proportional dosing pumps to one water meter.

Signal Splitter	Code
	SCA 00171 12



PH/RX PUMP ACCESSORIES

pH MyPool pump accessories include: pH plastic body electrode with 5 m cable; pH7 and pH9 buffer solutions in 55 ml containers; floating level switch complete with plastic support; 1/2" inline PP electrode holder; 1/2"GF-DN50 clamp saddle for electrode holder (2 pcs); PVC M/F 1/2"-3/8" reduction nipple; and PP tube nut (2 pcs).

Liquid	Code
pH (buffer solution 7-9) MyPool-TwinPool-eOne	SCO 00030 01
pH (buffer solution 4-7) MyPool-TwinPool-eOne	SCO 00030 05
pH (buffer solution 4-7-9) DLX	SCO 00035 01
Rx (buffer solution 650 mV) MyPool-TwinPool-eOne	SCO 00030 02
Rx (buffer solution 650 mV) DLX	SCO 00035 02



FLOATING LEVEL SWITCH

Floating level switch complete with plastic support to be linked to the foot filter provided. Foot filter weight allows the floating switch to be adjusted to the desired height inside the chemical tank.

Connection	Code
with connector	SSO 00004 02
without connector (eOne - Aurex)	SSO 01035 02



CONVERSION KIT

Conversion kit for integrated level sensor.

Connection	Code
PVDF without connector (eOne - Aurex)	KFT 00006 01
PVDF with connector	KFT 00006 11



FOOT FILTER WITH LEVEL SWITCH

The Foot Filter includes a ceramic ball valve and comes complete with level sensor.

Material	Code
PP body, FPM seals, with connector	SFT 01300 02
PP body, EPDM seals, with connector	SFT 01300 12
PVDF body, FPM seals, with connector	SFT 01300 01
PVDF body, EPDM seals, with connector	SFT 01300 11
PVDF body, TFE seals, with connector	SFT 01300 21
PVDF body, TFE seals, without connector (eOne)	SFT 01300 23



PVC REDUCTION NIPPLE

Reduction nipple 1/2" GM to 3/8" GF.

Kit	Code
10 pieces	KRA 00058 01



SUPPORT BRACKET

Stainless-steel support bracket for wall or foot mounting of DLXB pump series. Polyethylene (PE) support bracket for foot-mounted DLX, eOne and Aurex.

Product	Code
DLXB (2 mm)	DSU 00050 01
DLXB (3 mm)	DSU 00050 02
DLX - eOne	ASU 00065 01
Aurex - eOne - MyPool - eControl	SSA 00019 01



CONNECTOR KIT FOR DLX

Level and meter connectors plus service output and relay for DLX.

Connector Kit	Code
DLX level and meter connectors 10 pieces	KCN 00012 01
DLX service output or relay 5 pieces	KCN 00013 01



CONNECTOR KIT FOR AUREX

The new connectors allow you to easily connect the main connections for all pump services, ensuring faster setup and effortless maintenance.

Connector Kit	Code
4-pole connector	DCN 00080 01
2-pole connector	DCN 00082 01



MULTIFUNCTION VALVE

Compact device for chemical dosing systems, combining in a single body the functions of check valve, air vent, and pressure regulation. It optimizes space and simplifies installation.

Material	Code
PVDF / FPM (4x6 - 8x12)	AVA 00082 01
PVDF / EPDM (4x6 - 8x12)	AVA 00082 02



FLOW SENSOR

Flow sensor with PVDF PTFE stir bar for eOne dosing pumps with flow rates up to 30 l/h and for BT MA/M, BT MF and DLX(B) MF/M with flow rates up to 20 l/h. Connections for 4x6 and 6x8 tubes.

Flow sensor with PVC PTFE stir bar for BT MA/M and BT MF dosing pumps (30 - 50 - 80 l/h).

Material	Code
PVDF - TFE/P per eOne	SSN 00012 01
PVDF - TFE/P - DLX/BT with connector	SSN 00012 21
PVC - FPM 30 - 50 - 80 l/h	SSN 00010 01



RELIEF VALVE

Overflow valve with PVC body and PTFE diaphragm.
Manual adjustment of opening backpressure.
Threaded connections 3/8" G.F.

Hose nipples kit (2 pump head nipples + 2 hose nuts + 2 o-rings).

Relief valve (500 l/h)	Hose nipples kit	Code
PVC-PTFE-EPDM		AVA 00101 01
	4x6 PP - FPM	KRA 00053 01
	4x6 PVDF - FPM	KRA 00053 11
	10x14 PP - FPM	KRA 00054 01



PULSATION DAMPENER

Pulsation damper with PVC configuration, FPM and EPDM diaphragm and 3/8" gas connection with a maximum pressure of 10 bar and 0.05 l volume.

Material	Code
FPM membrane	APL 00003 01
EPDM membrane	APL 00003 02



CALIBRATION CYLINDER

100 ml plastic graduated calibration cylinder with bypass PP-PVC.

Tube	Code
4x6	SCG 00004 01
6x8	SCG 00004 02



ST-D SERIES

MOTOR-DRIVEN DOSING PUMP



ST-D SERIES

General information

The ST-D series of pumps have been designed and manufactured for dosing liquids with or without suspended solids. The pump comprises four basic sections: motor drive, gearbox, pump head and non-return valves. As standard an electric motor supplies the power to the gear box.

Material

- Case: Die-cast aluminium housing protected by epoxy/anti-acid paint
- Pump head: AISI, PP, PVC (on request PVDF)
- Diaphragm: PTFE

INSTALLATION KIT

Supplied without injection valve or foot filter

PUMP HEAD CONFIGURATIONS

Version	Head	Connections	Membrane	Valve seats	Balls	Ball seats
AA	AISI316L	AISI316L	PTFE/NBR	PVDF	AISI316L	NBR
CA	PP	PVC	PTFE	PVC	Ceramic	FPM
BA	PVC	PVC	PTFE/NBR	PVC	Ceramic	FPM

Technical Specifications

Model	Flow rate l/h (US gal/h)		Delivery head bar (psi) AISI		Delivery head bar (psi) PP		Strokes/min		Stroke length	Ø Diaphragm	Power	Valves
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	mm	mm	kW	
AD0016	16 (4.23)	19 (5.07)	14 (203)	14 (203)	14 (203)	14 (203)	60	72	4	50	0.18	1/2" Gm
AD0033	33 (8.72)	40 (10.46)	14 (203)	12 (174)	14 (203)	12 (174)	120	144	4	50	0.18	1/2" Gm
AD0030	30 (7.92)	36 (9.51)	11 (160)	11 (160)	11 (160)	11 (160)	60	72	4	67	0.18	1/2" Gm
AD0060	60 (15.85)	72 (19.02)	11 (160)	10 (145)	11 (160)	10 (145)	120	144	4	67	0.18	1/2" Gm
AD0061	61 (16.12)	73 (19.34)	7 (102)	6.5 (94)	7 (102)	6.5 (94)	60	72	4	85	0.18	1/2" Gm
AD0123	123 (32.50)	148 (39.00)	6 (87)	5 (72)	6 (87)	5 (72)	120	144	4	85	0.18	1/2" Gm

Model	Flow rate l/h (US gal/h)		Delivery head bar (psi) AISI		Delivery head bar (psi) PVC		Strokes/min		Stroke length	Ø Diaphragm	Power	Valves
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	mm	mm	kW	
AD0150	150 (39.62)	180 (47.55)	5 (73)	4 (58)	5 (73)	4 (58)	60	72	10	95	0.25	1" Gm
AD0300	300 (79.25)	360 (95.10)	5 (73)	4 (58)	5 (73)	4 (58)	120	144	10	95	0.25	1" Gm

ST-D

Motor-driven membrane dosing pumps

ST-D series metering pumps, known for their robustness and reliability, are electric motor driven with dosing controlled via a PTFE membrane.

FEATURES

- Frequency: 60 – 120 strokes/min at 50Hz; 72 – 144 strokes/min at 60Hz
- Die-cast aluminium housing protected by epoxy/anti-acid paint
- Maximum flow rate: 123 l/h at 50Hz; 148 l/h at 60Hz
- Standard power supply: 230–400V; 50/60Hz
- Maximum pressure: 14 bar
- Motor: 0.18 kW
- Pump head: PP, PVC, AISI316 (on request PVDF)
- Valves: balls in ceramic or SS316L
- Ball seats: FPM, EPDM or NBR
- Valve seats in PVC or PVDF
- Membrane in PTFE
- IP55 ingress protection
- Insulation class: F



Models

Code	Flow rate	Delivery head	Delivery head	Delivery head
	l/h	AISI	PVC	PP
AD0016AA00100	16 (4.23)	14 (203)		
AD0033AA00100	33 (8.72)	14 (203)		
AD0030AA00100	30 (7.92)	11 (160)		
AD0060AA00100	60 (15.85)	11 (160)		
AD0061AA00100	61 (16.12)	7 (102)		
AD0123AA00100	123 (32.50)	6 (87)		
AD150AA00A000	150 (39.62)	5 (72)		
AD300AA00A000	300 (79.26)	5 (72)		
AD150BA00A000	150 (39.62)		5 (72)	
AD300BA00A000	300 (79.26)		5 (72)	
AD0016CA00100	16 (4.23)			14 (203)
AD0033CA00100	33 (8.72)			14 (203)
AD0030CA00100	30 (7.92)			11 (160)
AD0060CA00100	60 (15.85)			11 (160)
AD0061CA00100	61 (16.12)			7 (102)
AD0123CA00100	123 (32.50)			6 (87)

FEATURES & MATERIALS

POWER SUPPLY

230-400V 50-60Hz

CASE

Die-cast aluminium housing protected by epoxy/antiacid paint

MOTOR

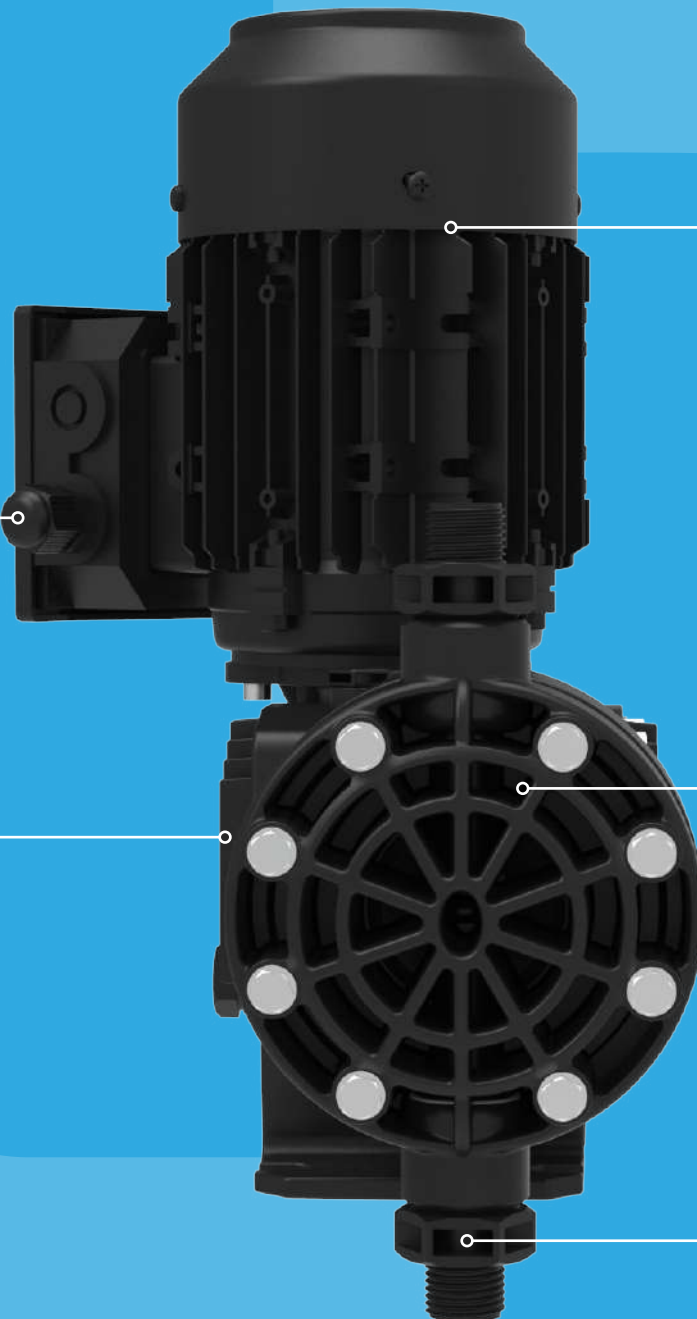
Three phase

PUMP HEAD

AISI or PP or PVC

VALVES

Ceramic balls
FDM seals or
SS316L balls
NBR seals



ST-P SERIES

MOTOR-DRIVEN DOSING PUMP



ST-P SERIES

General information

The ST-P series of pumps have been designed and manufactured for dosing liquids free of suspended solid particles.

The pump comprises four basic sections: motor drive, gearbox, pump head and non-return valves. The pumping action is performed by a piston, which has a reciprocating movement within the pump head. All parts are in direct contact with the liquid being metred. The sealing effect is achieved by rings of material suited to the liquid being handled.

Material

- Case: Die-cast aluminium housing protected by epoxy/anti-acid paint
- Pump head: AISI, PVC (on request PVDF)

INSTALLATION KIT

Supplied without injection valve or foot filter

PUMP HEAD CONFIGURATIONS

Version	Head	Connections	Piston	Piston seals	Valve seats	Balls	Ball seats
AA	AISI316L	AISI316L	AISI316L	NBR	PVDF	AISI316L	NBR
BA	PVC	PVC	Ceramic	FPM	PVC	Ceramic	FPM

Technical Specifications

Model	Flow rate l/h (US gal/h)		Delivery head bar (psi) AISI		Delivery head bar (psi) PVC		Strokes/min		Stroke length	Ø Diaphragm	Power	Valves
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	mm	mm	kW	
AP0011	11 (2.91)	13 (3.49)	20 (290)	20 (290)	10 (145)	10 (145)	60	72	15	16	0.18	1/2" Gm
AP0022	22 (5.81)	-	20 (290)	-	10 (145)	-	120	-	15			
AP0039	39 (10.30)	47 (12.36)	13.5 (196)	11 (157)	10 (145)	10 (145)	60	72	15	30	0.8	1/2" Gm
AP0077	77 (20.34)	-	10 (145)	-	10 (145)	-	120	-	15			
AP0095	95 (25.10)	114 (30.12)	4.5 (65)	4 (58)	4.5 (65)	4 (58)	60	72	15	48	0.18	3/4" Gm
AP0190	190 (50.20)	-	3.5 (51)	-	3.5 (51)	-	120	-	15			
AP0112	112 (2.59)	134 (35.4)	6 (87)	6 (87)	6 (87)	6 (87)	60	72	17	48	0.25	1/2" Gm
AP0225	225 (59.5)	-	6 (87)	-	6 (87)	-	120	-	17			

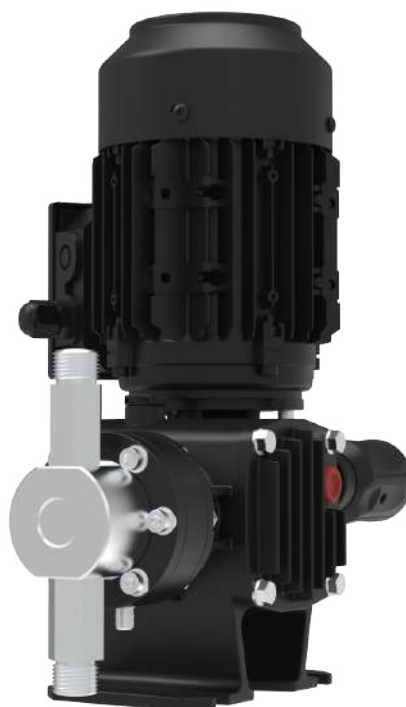
ST-P

Plunger Piston Motor-driven pumps

ST-P series metering pumps are driven by an electric motor with dosing controlled via piston. These robust systems are known for their reliability across multiple application uses.

FEATURES

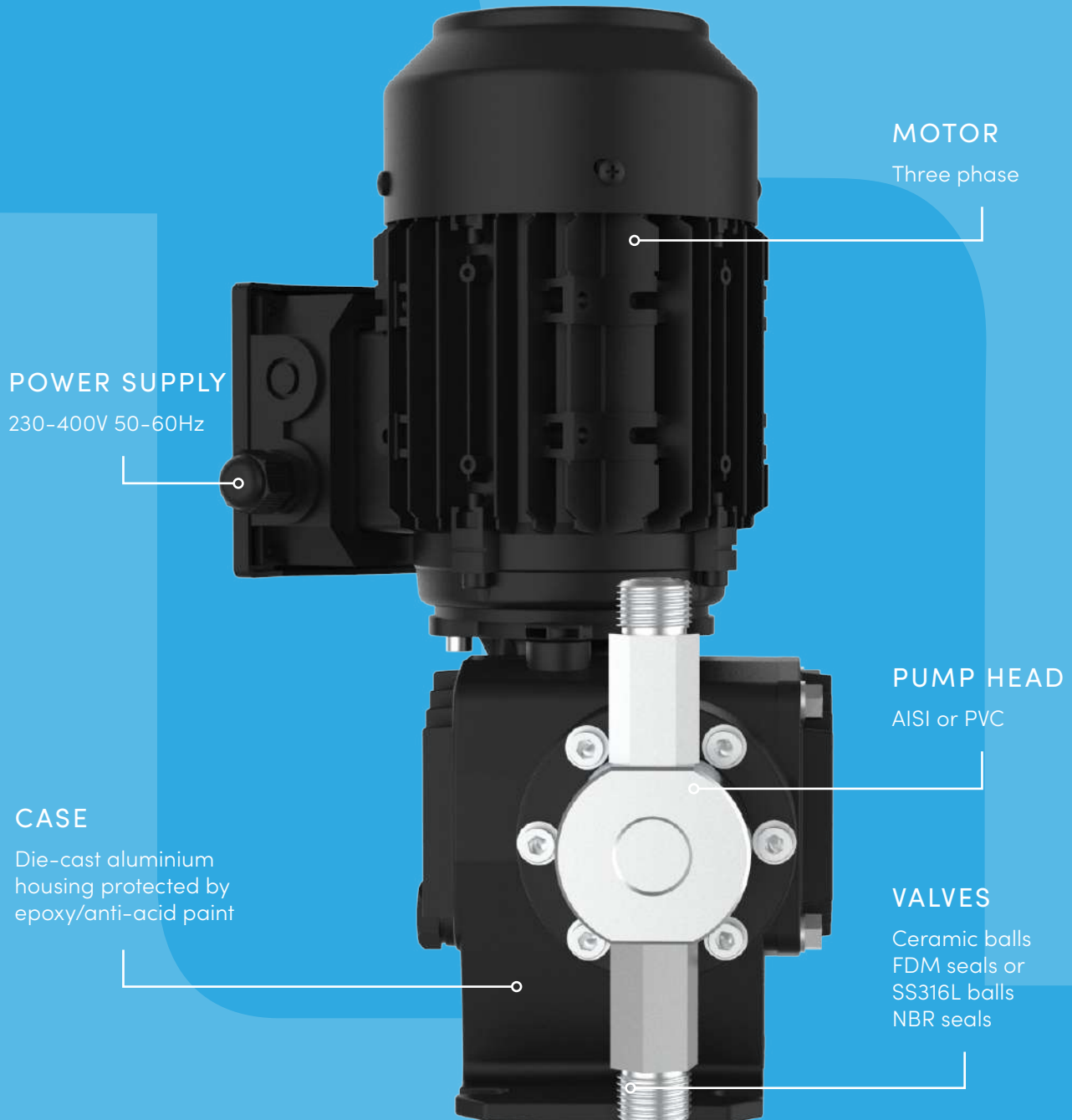
- Working frequency: 60 - 120 strokes/min at 50Hz; 72 - 144 strokes/min at 60Hz
- Die-cast aluminium housing protected by epoxy/anti-acid paint
- Maximum flow rate: 190 l/h at 50Hz; 114 l/h at 60Hz
- Standard power supply: 230-400V, 3 phase, 50/60Hz
- Pump head: PVC, SS316L (on request PVDF)
- Valves: balls in ceramic or AISI316L
- Ball seats: FPM, EPDM or NBR
- Valve seats: PVC or PVDF
- Piston: SS316 or ceramic
- Piston seals: NBR, FPM or EPDM
- Maximum pressure: 20 bar
- Motor: 0.18 kW
- IP55 ingress protection
- Insulation class: F



Models

Code	Flow rate	Delivery head	
		AISI	PVC
AP0011AA00100	11 (2.91)	20 (290)	
AP0022AA00100	22 (5.81)	20 (290)	
AP0039AA00100	39 (10.30)	13,5 (196)	
AP0077AA00100	77 (20.34)	10 (145)	
AP0095AA00100	95 (25.10)	4.5 (65)	
AP0190AA00100	190 (50.20)	3.5 (51)	
AP112AA00A000	112 (29.59)	6 (87)	
AP225AA00A000	225 (59.50)	6 (87)	
AP0011BA00100	11 (2.91)		10 (145)
AP0022BA00100	22 (5.81)		10 (145)
AP0039BA00100	39 (10.30)		10 (145)
AP0077BA00100	77 (20.34)		10 (145)
AP0095BA00100	95 (25.10)		4.5 (65)
AP0190BA00100	190 (50.20)		3.5 (51)
AP112BA00A000	112 (29.59)		6 (87)
AP225BA00A000	225 (59.50)		6 (87)

FEATURES & MATERIALS



D SERIES

MOTOR-DRIVEN DOSING PUMP



D SERIES

General information

ETATRON's D Series pumps have been designed and manufactured for dosing liquids with or without suspended solid particles. The pump comprises four basic sections: motor drive, gearbox, pump head and non-return valves. The pumping action is performed by a diaphragm, which has a reciprocating movement within the pump head. All parts are in direct contact with the liquid being metred. The sealing effect is achieved by rings of material suited to the liquid being handled.

Material

- Case: Die-cast aluminium housing protected by epoxy/antiacid paint
- Pump head: AISI, PVC (on request PVDF)
- Diaphragm: PTFE

INSTALLATION KIT

Supplied without injection valve or foot filter

PUMP HEAD CONFIGURATIONS

Version	Head	Connections	Diaphragm	Valve seats	Balls	Ball seats
AA	AISI316L	AISI316L	NBR/PTFE	PVDF	AISI316L	NBR
BA	PVC	PVC	NBR/PTFE	PVC	Ceramica	FPM

Technical Specifications

Model	Flow rate l/h (US gal/h)		Delivery head bar (psi) AISI		Delivery head bar (psi) PVC		Strokes/min		Stroke length	Ø Diaphragm	Power	Valves
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	mm	mm	kW	
BD0079	79 (20.87)	95 (25.05)	12 (174)	11 (160)	10 (145)	10 (145)	60	72	10			
BD0135	135 (35.67)	162 (42.80)	10 (145)	8 (116)	10 (145)	8 (116)	103	122	10	75	0.25	3/4" Gm
BD0158	158 (41.74)	-	8 (116)	-	8 (116)	-	120	-	10			
BD0150	150 (39.63)	180 (47.56)	7.5 (109)	6 (87)	7.5 (109)	6 (87)	60	72	10			
BD0257	257 (67.90)	308 (81.48)	6 (87)	5 (73)	6 (87)	5 (73)	103	122	10	95	0.25	1" Gm
BD0300	300 (79.26)	-	5 (73)	-	5 (73)	-	120	-	10			
BD0278	278 (73.45)	334 (88.14)	3.5 (51)	3 (44)	3.5 (51)	3 (44)	60	72	10			
BD0478	478 (126.3)	574 (151.6)	2.5 (36)	2 (29)	2.5 (36)	2 (29)	103	122	10	115	0.25	1" Gm
BD0535	535 (141.4)	-	2 (29)	-	2 (29)	-	120	-	10			
BD0278	278 (73.45)	334 (88.14)	4 (58)	3.5 (51)	4 (58)	3.5 (51)	60	72	10			
BD0478	478 (126.3)	574 (151.6)	3 (43)	2.5 (36)	3 (43)	2.5 (36)	103	122	10	115	0.37	1" Gm
BD0535	535 (141.4)	-	2.5 (36)	-	2.5 (36)	-	120	-	10			

D

Motor-driven diaphragm dosing pumps

D series electric motor-driven metering pumps use an NBR/PTFE (material in contact with the liquid) diaphragm to perform dosing, while their key characteristics of robust design and reliability mean they're the choice of discerning operators across multiple sectors.

FEATURES

- Valves: single ball with SS316L pump head; double balls with PVC pump head
- Frequency: 60, 103 and 120 strokes/min at 50Hz; 72 and 122 strokes/min at 60Hz
- Diaphragm in NBR/PTFE - PTFE material in contact with the chemical
- Die-cast aluminium housing protected by epoxy/anti-acid paint
- Maximum flow rate: 535 l/h at 50Hz; 574 l/h at 60Hz
- Standard power supply: 230-400V, 3 phase, 50Hz
- Motor: 0.25 or 0.37 kW
- Pump head: PVC, SS316L (on request PVDF)
- Maximum pressure: 12 bar
- Balls: ceramic or SS316L
- Ball seats FPM, EPDM or NBR
- Valves seats in PVC or PVDF
- IP55 ingress protection
- Insulation class: F



Models

Code	Flow rate	Delivery head	
	l/h	AISI	PVC
BD0079AA00000	79 (20.87)	12 (174)	
BD0135AA00000	135 (35.67)	10 (145)	
BD0158AA00000	158 (41.74)	8 (116)	
BD0150AA00000	150 (39.63)	7.5 (109)	
BD0257AA00000	257 (67.90)	6 (87)	
BD0300AA00000	300 (79.26)	5 (73)	
BD0278AA00000	278 (73.45)	3.5 (51)	
BD0478AA00000	478 (126.3)	2.5 (36)	
BD0535AA00000	535 (141.4)	2 (29)	
BD0278AA00600	278 (73.45)	4 (58)	
BD0478AA00600	478 (126.3)	3 (43)	
BD0535AA00600	535 (141.4)	2.5 (36)	
BD0079BA00000	79 (20.87)		10 (145)
BD0135BA00000	135 (35.67)		10 (145)
BD0158BA00000	158 (41.74)		8 (116)
BD0150BA00000	150 (39.63)		7.5 (109)
BD0257BA00000	257 (67.90)		6 (87)
BD0300BA00000	300 (79.26)		5 (73)
BD0278BA00000	278 (73.45)		3.5 (51)
BD0478BA00000	478 (126.3)		2.5 (36)
BD0535BA00000	535 (141.4)		2 (29)
BD0278BA00600	278 (73.45)		4 (58)
BD0478BA00600	478 (126.3)		3 (43)
BD0535BA00600	535 (141.4)		2.5 (36)

FEATURES & MATERIALS

POWER SUPPLY

230-400V 50-60Hz

MOTOR

Three phase

PUMP HEAD

AISI or PVC

VALVES

Ceramic balls
FDM seals or
SS316L balls
NBR seals

CASE

Die-cast aluminium
housing protected by
epoxy/anti-acid paint



P SERIES

MOTOR-DRIVEN DOSING PUMP



P SERIES

General information

ETATRON's P Series pumps have been designed and manufactured for dosing liquids free of suspended solid particles.

The pump comprises four basic sections: motor drive, gearbox, pump head and non return valves

The pumping action is performed by a piston, which has a reciprocating movement within the pump head.

All parts are in direct contact with the liquid being metred. The sealing effect is achieved by rings of material suited to the liquid being handled.

INSTALLATION KIT

Supplied without injection valve or foot filter

Material

- Case: Die-cast aluminium housing protected by epoxy/anti-acid paint
- Pump head: AISI, PVC (on request PV)

PUMP HEAD CONFIGURATIONS

Version	Head	Connections	Piston	Piston seals	Valve seats	Balls	Ball seats
AA	AISI316L	AISI316L	AISI316L	NBR	PVDF	AISI316L	PVDF
BA	PVC	PVC	Ceramic	FPM	PVC	Ceramic	PVC

Technical Specifications

Model	Flow rate l/h (US gal/h)		Delivery head bar (psi) AISI		Delivery head bar (psi) PVC		Strokes/min		Stroke length	Ø Piston	Power	Valves
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	mm	mm	kW	
BP0014	14 (3.69)	17 (4.49)	25 (360)	25 (360)	-	-	60	72	20	16	0.25	1/2" Gm
BP0024	24 (6.34)	29 (7.66)	25 (360)	25 (360)	-	-	103	122	20			
BP0029	29 (7.66)	-	25 (360)	-	-	-	120	-	20			
BP0052	52 (13.74)	63 (16.64)	20 (290)	20 (290)	10 (145)	10 (145)	60	72	20	30	0.25	1/2" Gm
BP0088	88 (23.25)	106 (28.00)	20 (290)	18 (261)	10 (145)	10 (145)	103	122	20			
BP0103	103 (27.21)	-	18 (261)	-	10 (145)	-	120	-	20			
BP0128	128 (33.81)	153 (40.42)	12 (174)	9.5 (138)	10 (145)	9.5 (138)	60	72	20	48	0.25	3/4" Gm
BP0220	220 (58.12)	260 (68.68)	9 (131)	7.5 (109)	9 (131)	7.5 (109)	103	122	20			
BP0256	256 (67.63)	-	7.5 (109)	-	7.5 (109)	-	120	-	20			
BP0251	251 (66.31)	302 (79.78)	6 (87)	5 (72)	6 (87)	5 (72)	60	72	20	67	0.25	1" Gm
BP0431	431 (113.86)	512 (135.26)	4.5 (65)	3.5 (51)	4.5 (65)	3.5 (51)	103	122	20			
BP0503	503 (132.88)	-	3.5 (51)	-	3.5 (51)	-	120	-	20			
BP0128	128 (33.81)	153 (40.42)	18 (262)	14.5 (210)	10 (145)	10 (145)	60	72	20	48	0.37	3/4" Gm
BP0220	220 (58.12)	260 (68.68)	16 (232)	13 (189)	10 (145)	10 (145)	103	122	20			
BP0256	256 (67.63)	-	13 (189)	-	10 (145)	-	120	-	20			
BP0251	251 (66.31)	302 (79.78)	9 (131)	7.5 (109)	9 (131)	7.5 (109)	60	72	20	67	0.37	1" Gm
BP0431	431 (113.86)	512 (135.26)	7 (102)	5.5 (80)	7 (102)	5.5 (80)	103	122	20			
BP0503	503 (132.88)	-	6 (87)	-	6 (87)	-	120	-	20			
BP0251	251 (66.30)	302 (79.78)	11 (160)	9.5 (138)	10 (145)	9.5 (138)	60	72	20	67	0.55	1" Gm
BP0431	431 (113.86)	512 (135.26)	9 (131)	8 (116)	9 (131)	8 (116)	103	122	20			
BP0503	503 (132.9)	-	8 (131)	-	8 (131)	-	120	-	20			
BP0513	513 (135.52)	614 (162.20)	5.5 (80)	4.5 (65)	5.5 (80)	4.5 (65)	60	72	20	95	0.55	1½" Gm
BP0838	838 (221.38)	1004 (265.2)	4 (58)	3 (44)	4 (58)	3 (44)	103	122	20			
BP1027	1027 (271.3)	-	3 (44)	-	3 (44)	-	120	-	20			
BP0251	251 (66.30)	302 (79.78)	19 (276)	17.5 (254)	10 (145)	10 (145)	60	72	20	67	0.75	1" Gm
BP0431	431 (113.86)	512 (135.26)	16.5 (239)	14.5 (210)	10 (145)	10 (145)	103	122	20			
BP0503	503 (132.9)	-	14.5 (210)	-	10 (145)	-	120	-	20			
BP0513	513 (135.52)	614 (162.20)	12 (174)	10 (145)	10 (145)	10 (145)	60	72	20	95	0.75	1½" Gm
BP0838	838 (221.38)	1004 (265.2)	8 (116)	6.5 (94)	8 (131)	6.5 (94)	103	122	20			
BP1027	1027 (271.3)	-	6.5 (94)	-	6.5 (94)	-	120	-	20			

P

Motor-driven plunger piston pumps

P Series electric motor-driven metering pumps offer piston-controlled chemical dosing and are known for their superior durability and reliability within a variety of applications.

FEATURES

- Valves: PVC pump head; double ball valves, except for piston Ø95 with single ball; SS316L; single ball, except for piston Ø16 and Ø30 with double balls
- Frequency: 60, 103 and 120 strokes/min at 50Hz; 72 and 122 strokes/min at 60Hz
- Die-cast aluminium housing protected by epoxy/anti-acid paint
- Maximum flow rate: 1,027 l/h at 50Hz; 1,004 l/h at 60Hz
- Maximum pressure: 25 bar
- Standard power supply: 230-400V; 3-phase; 50Hz
- Motor: 0.25, 0.37, 0.55 or 0.75 kW
- Pump head: PVC, SS316L (PVDF on request)
- Balls: ceramic or SS316L
- Ball seats: FPM, EPDM or NBR
- Valves seats: PVC or PVDF
- Piston: SS316 or ceramic

Models

Code	Flow rate	Delivery head AISI
	l/h	bar
BP0014AA00000	14 (3.69)	25 (360)
BP0024AA00000	24 (6.34)	25 (360)
BP0029AA00000	29 (7.66)	25 (360)
BP0052AA00000	52 (13.74)	20 (290)
BP0088AA00000	88 (23.25)	20 (290)
BP0103AA00000	103 (27.21)	18 (261)
BP0128AA00000	128 (33.81)	12 (174)
BP0220AA00000	220 (58.12)	9 (131)
BP0256AA00000	256 (67.63)	7.5 (109)
BP0251AA00000	251 (66.31)	6 (87)
BP0431AA00000	431 (113.86)	4.5 (65)
BP0503AA00000	503 (132.88)	3.5 (51)
BP0128AA00600	128 (33.81)	18 (262)
BP0220AA00600	220 (58.12)	16 (232)
BP0256AA00600	256 (67.63)	13 (189)
BP0251AA00600	251 (66.31)	9 (131)
BP0431AA00600	431 (113.86)	7 (102)
BP0503AA00600	503 (132.88)	6 (87)
BP0251AA00700	251 (66.30)	11 (160)
BP0431AA00700	431 (113.86)	9 (131)
BP0503AA00700	503 (132.9)	8 (131)
BP0513AA00700	251 (66.30)	5.5 (80)
BP0838AA00700	838 (221.38)	4 (58)
BP1027AA00700	1,027 (271.3)	3 (44)
BP0251AA00900	251 (66.30)	19 (276)
BP0431AA00900	431 (113.86)	16.5 (239)
BP0503AA00900	503 (132.9)	14.5 (210)
BP0513AA00900	513 (135.52)	12 (174)
BP0838AA00900	838 (221.38)	8 (116)
BP1027AA00900	1,027 (271.3)	6.5 (94)



- Piston seals: NBR, FPM or EPDM
- IP55 ingress protection

Models

Code	Flow rate	Delivery head PVC
	l/h	bar
-	-	-
-	-	-
-	-	-
BP0052BA00000	52 (13.74)	10 (145)
BP0088BA00000	88 (23.25)	10 (145)
BP0103BA00000	103 (27.21)	10 (145)
BP0128BA00000	128 (33.81)	10 (145)
BP0220BA00000	220 (58.12)	9 (131)
BP0256BA00000	256 (67.63)	7.5 (109)
BP0251BA00000	251 (66.31)	6 (87)
BP0431BA00000	431 (113.86)	4.5 (65)
BP0503BA00000	503 (132.88)	3.5 (51)
BP0128BA00600	128 (33.81)	10 (145)
BP0220BA00600	220 (58.12)	10 (145)
BP0256BA00600	256 (67.63)	10 (145)
BP0251BA00600	251 (66.31)	9 (131)
BP0431BA00600	431 (113.86)	7 (102)
BP0503BA00600	503 (132.88)	6 (87)
BP0251BA00700	251 (66.30)	10 (145)
BP0431BA00700	431 (113.86)	9 (131)
BP0503BA00700	503 (132.9)	8 (131)
BP0513BA00700	251 (66.30)	5.5 (80)
BP0838BA00700	838 (221.38)	4 (58)
BP1027BA00700	1,027 (271.3)	3 (44)
BP0251BA00900	251 (66.30)	10 (145)
BP0431BA00900	431 (113.86)	10 (145)
BP0503BA00900	503 (132.9)	10 (145)
BP0513BA00900	513 (135.52)	10 (145)
BP0838BA00900	838 (221.38)	8 (131)
BP1027BA00900	1,027 (271.3)	6.5 (94)

FEATURES & MATERIALS

POWER SUPPLY

230-400V 50-60Hz

MOTOR

Three phase

CASE

Die-cast aluminium housing protected by epoxy/antiacid paint

PUMP HEAD

AISI or PVC

VALVES

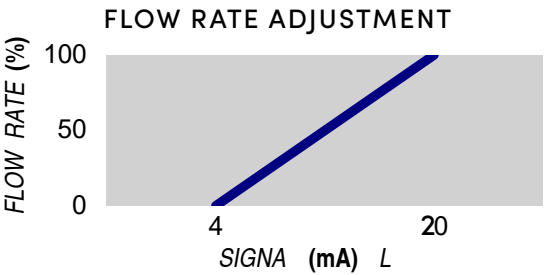
Ceramic balls
FDM seals or
SS316L balls
NBR seals



FURTHER INFORMATION

4 - 20mA or 0 - 10VDC
flow rate automatic control

Note: The flow rate diagram of the motor-driven dosing pumps provided for this actuator is usually the one shown in Fig. 1. If the control signal were 0 - 10Vdc, the diagram is very similar.
Only the logic of operation is shown in this diagram, therefore users should consider a tolerance of ±5% on the absolute values. The unit requires a 24Vdc and 24 Vac power supply.



PUMPS SUPPLIED WITHOUT MOTOR:

- 0.18 kW
- 0.25 kW
- 0.37 kW
- 0.55 kW
- 0.75 kW

PUMPS SUPPLIED WITH NPT CONNECTION:

- Upon request

PUMPS SUPPLIED WITH NPT CONNECTION:

- (PDM ST-P and P in AISI) 3/4" connection

Specifications

Piston pump head	ø Piston mm	Configuration
Mechanical Piston Pump AISI pumps head - AISI 316L piston	16	AP (FPM) AI (EPDM)
	30	
	48	
	67	
	95	
P Series Mechanical Piston Pump AISI pumps head - AISI 316L piston - PTFE - FPM	16	AT
	30	
	48	
	67	
	95	
STP Series Mechanical Piston Pump PVC pump head - AISI 316L piston	16	BP
	30	
	48	
P Series Mechanical Piston Pump PVC pump head - AISI 316L piston	30	BP
	48	
	67	
	95	

Non-standard motor requirements

Single-phase motor configuration 50 Hz	0.18 kW – 0.25 kW – 0.37 kW
Explosion-proof protection 0.18 – 0.75 kW 3 phase EEX-D zone 1 (GAS)*	0.8 kW – 0.25 kW – 0.37 kW 0.55 kW – 0.75 kW
Explosion-proof protection 0.18 1 single phase EEX-D zone 1 (GAS)	0.18 kW – 0.25 kW
Explosion-proof protection 3-phase EEX-D zone 1 (GAS) for inverter application	0.18 kW – 0.25 kW – 0.37 kW 0.55 kW – 0.75 kW
Tropicalisation	
Pump with self-ventilated 3-phase motor for inverter application 0.18 ÷ 0.75 kW. Available for self-ventilated single-phase motor 230V – 50 H	0.18 kW – 0.25 kW – 0.37 kW 0.55 kW – 0.75 kW
Pump with UL/CSA 3-phase motor (230/400V 50Hz 240/415V 50Hz 280/480V 60Hz) 0.18 ÷ 0.75 kW	
Pump with UL/CSA single phase 110V motor 0.18 ÷ 0.75 kW	
Pump with UL/CSA 3-phase motor 575V or mono phase 220V 60Hz 0.18 ÷ 0.75 kW	

*On request: explosion-proof protection, zone 21 (dust)

INVERTER

Electronic motor frequency control.

- Constant flow with adjustable frequency and quantity dosing
- Timed dosing
- Proportional dosing to a digital signal (pulse counter)
- Proportional dosing to an analogue signal (4-20 mA or 0-10 V)
- Input for level probe
- Input for flow sensor
- Batch dosing for remote control
- Relay output for remote alarm
- Generic password and User password



ACCESSORIES

PULSATION DAMPENERS

Level float switch complete with plastic support to be linked to the foot filter supplied with the pumps. Foot filter weight allows adjustment of the float switch to the desired height inside the chemical tank.

SS body, NBR membrane		Code
0.12 litre	1/2"	1POL 005
0.35 litre	1/2"	APL 00004 01
0.70 litre	3/4"	APL 00012 01
1.5 litre	1"	APL 00013 01
3 litre	1"	APL 00014 01
PVC body, FPM membrane		Code
0.12 litre	1/2"	1POL 001
0.35 litre	1/2"	1POL 007
0.70 litre	1/2"	1POL 003
1.5 litre	3/4"	1POL 010
3 litre	3/4"	1POL 011



AIR RELIEF OR BACKPRESSURE VALVES

Max flow	Connections	Configuration	Code
500 l/h	3/8" Gf	PVC – EPDM / PTFE	AVA 00101 01
230 l/h	1/2" Gf	AISI 316L	1166 064
500 l/h	3/8" Gf	PVC – FPM / PTFE	AVA 00101 03
1,500 l/h	1/2" Gf	PVC – EPDM / PTFE	AVA 00102 01
420 l/h	3/4" Gf	AISI 316L	1166 066
420 l/h	3/4" Gf	PVC	1166 067
1,050 l/h	1" Gf	AISI 316L	1166 068
1,050 l/h	1" Gf	PVC	1166 069



FOOT VALVES

Max flow	Connections	Configuration	Code
125 l/h	3/8"-1/2" Gm	PP – FPM with filter	SFT 00300 02
125 l/h	1/2" Gm	AISI 316L – EPDM without filter	SVA 10001 02
125 l/h	1/2" Gf	PVC – FPM with filter	AVA 10001 01
260 l/h	3/4" Gm	AISI 316L – EPDM without filter	SVA 10002 02
260 l/h	3/4" Gf	PVC – FPM with filter	AVA 10002 01
510 l/h	1" Gm	AISI 316L – EPDM without filter	SVA 10003 02
510 l/h	1" Gf	PVC – FPM with filter	AVA 10003 01
1,050 l/h	1 1/2" Gm	AISI 316L – EPDM without filter	SVA 10004 02
1,050 l/h	1 1/2" Gf	PVC – FPM with filter	AVA 10004 01



*Filter version included on request.

SAFETY VALVES

Max flow – max pressure	Connections	Configuration	Code
0.4 m3 – 12 bar	1/2" Gf	PVC	AVA 00501 01
0.4 m3 – 100 bar	1/2" Gf	AISI 316L	AVA 00501 02
1.2 m3 – 9 bar	1" Gf	PVC	AVA 00502 01
1.2 m3 – 60 bar	1" Gf	AISI 316L	AVA 00502 02
3.6 m3 – 6 bar	1 1/2" Gf	PVC	AVA 00503 01
3.6 m3 – 60 bar	1 1/2" Gf	AISI 316L	AVA 00503 02

*Setting pressure must be indicated when ordering.



GEARBOX OIL

Description	Code
Oil SAE W 85/140 1Lt	1ACS 015



INJECTION VALVES

Max flow	Connections	Configuration	Code
125 l/h	3/8"-1/2" Gm	PP - FPM	SVA 00300 02
103 l/h	1/2" Gm	PVC - FPM	SVA 00015 04
103 l/h	1/2" Gm	AISI 316L - FPM	SVA 00015 01
256 l/h	3/4" Gm	PVC - FPM	SVA 00016 04
256 l/h	3/4" Gm	AISI 316L - FPM	SVA 00016 01
400 l/h	3/4" Gm	PVC	1166 036
400 l/h	3/4" Gm	AISI 316L	1166 035
1,000 l/h	1" Gm	PVC	1166 117
256 l/h	1/2" Gm/Gf	AISI 316L - EPDM	*AVA 00200 02
504 l/h	3/4" Gm/Gf	AISI 316L - EPDM	*AVA 00201 02
1,027 l/h	1" Gm/Gf	AISI 316L - EPDM	*AVA 00202 02

* Spring injection valve AISI 316.



KIT

Installation kit for pumps with 1/2" GM valve connection	For motor pumps	Code
--	-----------------	------

Composed of: 8 m 10x14 PE tube, 2 m 10x14 PVC crystal tube, n°2 nipples with tube nuts, n°2 PVC F/F 1/2" coupling, n°1 PP-FPM foot valve, n°1 PP-FPM injection valve and gearbox oil. Maximum 5 bar.

AISI-FPM	SCO 00001 01
PP/PVC-FPM	SCO 00001 03

Adaptor Kit 1/2" GM pump with valve connection 3/4" GM, max 190 l/h

Composed of: 2 reducers 3/4" GF - 1/2" GM PVC
(compatible with SCO0000101).

KCO 00001 01

Installation kit for pumps with 3/4" GM valve connection

Composed of: n°4 hose adaptor with barb nut for flexible tube, n°1 PVC-FPM foot valve, n°1 PVC-FPM injection valve and gearbox oil. Maximum 5 bar*.

SCO 00014 01

Installation kit for pumps with 1" GM valve connection

Composed of: n°4 hose adaptor with barb nut for flexible tube, n°1 PVC-FPM foot valve, n°1 PVC-FPM injection valve and gearbox oil. Maximum 5 bar*.

SCO 00015 01

*Clamps not included



MYPOOL SERIES

PERISTALTIC DOSING PUMP



MYPOOL SERIES

General information

MyPool is a user-friendly system consisting of a peristaltic pump and electronic controller for the measurement and management of values such as pH and ORP (mV) in swimming pools.

MyPool operates in proportional mode.

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: Santoprene®

WATER TREATMENT ACCESSORIES:

FPM peristaltic pump

FPM peristaltic pump water treatment accessories: 2 m polyethylene tube (4x6 mm), 2 m PP crystal tube (4x6 mm), 3/8" PVC-FPM injection valve and PP foot filter without check valve.

Description	Code
FPM Kit	SCO 00007 01



BRACKET INCLUDED

Support bracket for wall



RX KIT

Rx MyPool pump accessories: Rx plastic body electrode with 5 m cable; Rx 650 mV buffer solution in 55 ml container; floating level switch complete with plastic support; 1/2" inline PP electrode holder; 1/2"GF-DN50 clamp saddle for electrode holder (2 pcs); PVC M/F 1/2"-3/8" reduction nipple; and PP tube nut (2 pcs).

Description	Code
Rx MyPool Kit	SCO 00030 02



PH KIT

pH MyPool pump accessories: pH plastic body electrode with 5 m cable; pH7 and pH9 buffer solutions in 55 ml containers, floating level switch complete with plastic support; 1/2" inline PP electrode holder; 1/2"GF-DN50 clamp saddle for electrode holder (2 pcs); PVC M/F 1/2"-3/8" reduction nipple; and PP tube nut (2 pcs).

Description	Code
pH MyPool Kit	SCO 00030 01



Technical Specifications

Version	Flow rate	Pressure
	l/h (US gal/h)	bar (psi)
0101	1.5 (0.40)	1.5 (21)
0301	3 (0.79)	1.5 (21)
0202	2 (0.53)	2 (29)
0303	3 (0.79)	3 (43)

MYPOOL

Peristaltic pump with built in pH or Rx controller

The MyPool series of peristaltic dosing pumps are the perfect solution for domestic swimming pools, spas and wellness centres. These pumps operate on the suction-compression created by rotors on a Santoprene® tube.

FEATURES

- Measure pH or Rx
- On/Off or proportional activation mode respective to the measure value
- Proportional dosing mode
- Flow rate: up to 3 l/h
- Pressure: up to 3 bar
- pH measurement range: 3 - 11 pH
- RX measurement range: +100 to +999 mV
- Power supply: 230V 50-60Hz
- Maximum power consumption: 15W
- Set point selection
- Type of intervention (direct or inverse)
- Hysteresis
- Pump activation delay
- Over-dosing alarm
- Relay output for signalled alarm status
- Level switch input
- Display: blue/white, 16 digits



Models

MyPool pH	MyPool Rx	MyPool (no kit)	Version
CXB 400 03 01	CXB 400 03 02	CXB 400 03 Z6	0101
CXB 400 04 01	CXB 400 04 02	CXB 400 04 Z6	0301
CXB 400 05 01	CXB 400 05 02	CXB 400 05 Z6	0202
CXB 400 06 01	CXB 400 06 02	CXB 400 06 Z6	0303

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlit blue/white 16 digits

CASE

Chemical resistant polypropylene

ROLLERS HOLDER

POM

COVER

Terminal box cover

COMPLETE HOSE

Santoprene®

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 15W

CABLE GLANDS



PK-POOL SERIES

PERISTALTIC DOSING PUMP



PK-POOL SERIES

General information

PK-Pool is an easy-to-use peristaltic swimming pool dosing pump featuring electronic measurement and control of parameters such as pH and ORP (mV).

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: Santoprene®

INSTALLATION KIT

Water-treatment kit

FPM peristaltic pump water-treatment accessories: 2 m polyethylene tube (4x6 mm), 2 m PP crystal tube (4x6 mm), 3/8" PVC-FPM injection valve and PP foot filter without check valve.

Description	Code
FPM Kit	SCO 00007 01



RX KIT

Rx PK-Pool pump accessories: Rx plastic body electrode with 5 m cable, Rx 650mV buffer solution in 55 ml container, 1/2" inline PP electrode holder, 1/2"GF-DN50 clamp saddle for electrode holder (2 pcs), PVC M/F 1/2"-3/8" reduction nipple, PP tube nut (2 pcs).

Description	Code
Rx PK-Pool Kit	SCO 00030 04



PH KIT

pH PK-Pool pump accessories: pH plastic body electrode with 5 m cable, pH7 and pH9 buffer solutions in 55 ml containers, 1/2" inline PP electrode holder, 1/2"GF-DN50 clamp saddle for electrode holder (2 pcs), PVC M/F 1/2"-3/8" reduction nipple, PP tube nut (2 pcs).

Description	Code
pH PK-Pool Kit	SCO 00030 03



Specifications

Version	Flow rate	Pressure
	l/h (US gal/h)	bar (psi)
0101	1.5 (0.40)	1.5 (21)

PK-POOL

Peristaltic pump with built-in
pH or Rx controller

PK-Pool series peristaltic dosing pumps have been specifically designed for use in domestic swimming pools, spas and wellness centres, with these ready-to-install systems offering a range of user-friendly features.

FEATURES

- Flow rate: 1.5 l/h
- Maximum pressure: 1.5 bar
- pH measurement range: 0 – 14 pH
- Rx measurement range: +0 – +1000 mV
- Power supply: 230V 50-60Hz
- Maximum power consumption: 15W
- Type of intervention (acid or alkaline): proportional activation mode respective to measure value
- Backlit display
- Supplied with complete installation kit:
 - a. pH probe or Rx probe with 5 m cable (0-100%)
 - b. Saddle clamp
 - c. PP probe holder (½")
 - d. Buffer solutions: pH 7 & 9
 - e. Injection valve (PVC/FPM)
 - f. Foot filter (PP/FPM)
 - g. 2 m suction & 2 m discharge tubing
 - h. Vertical or horizontal mounting



Models

PK-Pool pH	PK-Pool Rx	Version
CXB 400 51 01	CXB 400 52 01	0101

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlight

CASE

Chemical resistant polypropylene

ROLLER HOLDER

POM

COMPLETE HOSE

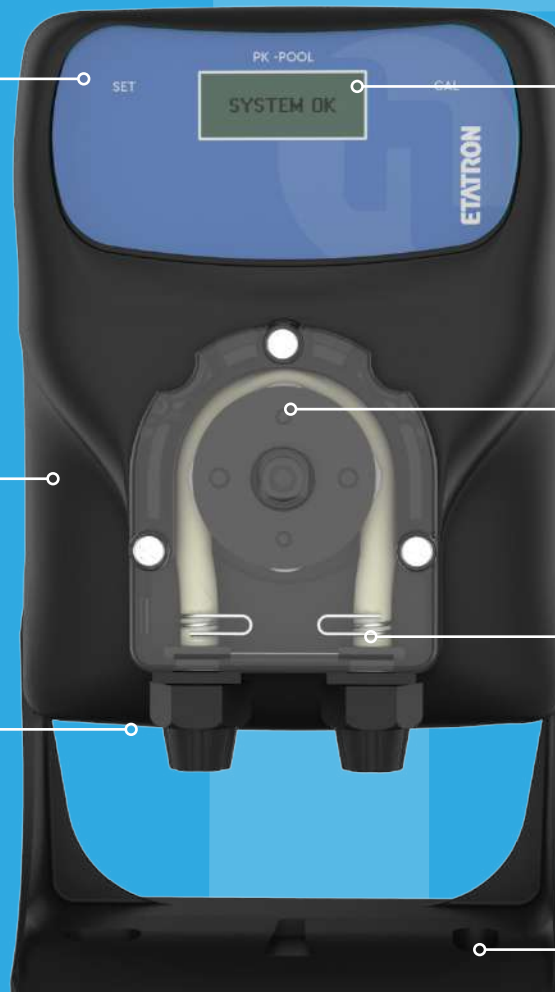
Santoprene®

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 15W

MOUNTING BRACKET

Enables wall (vertical) or tank (horizontal) mounting



TWINPOOL SERIES

PERISTALTIC DOSING PUMPS



TWINPOOL SERIES

General information

TwinPool is a compact, easy-to-use dosing pump system for the control of values such as pH, redox chlorine and temperature. Mainly conceived for the swimming pool sector, TwinPool is available in both peristaltic and solenoid versions.

On request the device can be equipped with complete calibration kit, including sensors and mounting accessories.

- Over-dosing alarm
- Set-point with working mode (On/Off)
- Proportional, hysteresis regulation
- Delay time for pump activation relative to set-point value
- Power supply: 230V 50-60Hz
- Supplied with complete installation kit (injection valves, foot filters and suction/delivery tubes)
- Level control
- Alarm output relay
- Three relays selectable: Setpoint (measures + temperature) or timer
- Backlit graphic display
- Wall mounting
- IP65 ingress protection
- Suction hose: PVC Cristal®
- Discharge hose: Polyethylene

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: Santoprene®

INSTALLATION KIT

Water-treatment kit

FPM peristaltic pump accessories: 2 m polyethylene tube (4x6 mm), 2 m PP crystal tube (4x6 mm), 3/8" PVC-FPM injection valve and PP foot filter without check valve.

Description	Code
FPM kit	SCO 00007 01



BRACKET INCLUDED

Support bracket for wall



Technical Specifications

Version	Flow rate	Pressure
	l/h (US gal/h)	bar (psi)
0101	1.5 (0.40)	1.5 (21)
0301	3 (0.79)	1.5 (21)

TWINPOOL

pH/Rx

FEATURES

- Microprocessor controller
- Flow rate: up to 3 l/h
- Working pressure: up to 1.5 bar
- pH range: 0-14 pH
- Redox range: -1000 – +1000 mV
- Set point selection
- Direct or inverse intervention
- Timer mode: daily/weekly
- Level probe input
- Flow sensor input
- Proximity switch
- Pt100 probe (0-100°C)
- Output: One 4-20 mA
- Dedicated alarm signal relay



TWINPOOL

Cl/pH

FEATURES

- Microprocessor controller
- Flow rate: up to 3 l/h
- Working pressure: up to 1.5 bar
- pH range: 0-14 pH
- CL ppm range: 0÷2; 0÷10; 0÷20; 0÷200;
- Direct or inverse intervention
- Timer mode: daily/weekly
- Level probe input
- Flow sensor input
- Proximity switch
- Pt100 probe (0-100°C)
- Output: One 4-20 mA
- Dedicated alarm signal relay



Models

pH - Rx	Cl - pH	Version
CXB 80 001 01	CXB 80 002 01	0101
CXB 80 011 01	CXB 80 012 01	0301

TWINPOOL S

pH/Rx

FEATURES

- Microprocessor controller
- Flow rate: up to 3 l/h
- Working pressure: up to 1.5 bar
- pH range: 0-14 pH
- Redox range: -1000 – +1000 mV
- Set point selection
- Direct or inverse intervention
- Timer mode: daily/weekly
- Level probe input
- Flow sensor input
- Proximity switch
- Pt100 probe (0-100°C)
- Output: One 4-20 mA
- Relay dedicated to alarm signals
- Electrical connection for salt chlorinator power supply



TWINPOOL S

Cl/pH

FEATURES

- Microprocessor controller
- Flow rate: up to 3 l/h
- Working pressure: up to 1.5 bar
- pH range: 0-14 pH
- CL ppm range: 0÷2; 0÷10; 0÷20; 0÷200;
- Set point selection
- Direct or inverse intervention
- Timer mode: daily/weekly
- Level probe input
- Flow sensor input
- Proximity switch
- Pt100 probe (0-100°C)
- Output: One 4-20 mA
- Relay dedicated to alarm signals
- Electrical connection for salt chlorinator power supply



Models

pH - Rx	Cl - pH	Version
CXB 8S 001 01	CXB 8S 002 01	0101
CXB 8S 011 01	CXB 8S 012 01	0301

FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlight
Blue/White 16 digits

CASE

Chemical resistant polypropylene

ROLLER HOLDER

POM

COMPLETE HOSE

Santoprene®

COVER

Terminal box cover

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 65W

CABLE GLANDS



FEATURES & MATERIALS

SERIGRAPH

Chemical resistant polyester

DISPLAY

Digital backlight
Blue/White 16 digits

CASE

Chemical resistant polypropylene

ROLLER HOLDER POM

COMPLETE HOSE Santoprene®

COVER

Terminal box cover

POWER SUPPLY

230V 50-60Hz
Maximum power consumption: 65W

CABLE GLANDS



F SERIES

PERISTALTIC DOSING PUMPS



F SERIES

General information

ETATRON's F Series is a peristaltic dosing pump featuring constant flow rate. The tube is fixed to the external fitting with stainless-steel clamps while additional shaft support is integrated into the cover. The pump's hydraulic head is independent of the motor type and can be supplied separately.

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: Santoprene®

INSTALLATION KIT (OPTIONAL)

Supplied without injection valve or foot filter

F Series Specifications

Version	Flow rate	Pressure	Power supply	RPM
	l/h (US gal/h)	bar (psi)		
0001	0.5 (0.13)	1 (14)	230V, 50/60 Hz	10
0101	1.1 (0.29)	1 (14)	230V, 50/60 Hz	20
0201	2.2 (0.58)	1 (14)	230V, 50/60 Hz	48
0301	3.3 (0.87)	1 (14)	230V, 50/60 Hz	60
0601	6.0 (1.56)	1 (14)	24Vdc	108

F**Compact peristaltic pumps with constant flow rate designed for non-continuous use****FEATURES**

- Optional 120V, 12Vdc, 24Vac, 24Vdc power supplies (available for selected models)
- Wall mounted with removable gearbox/motor for panel mounting
- Peristaltic tubing available in Santoprene® or silicone
- Flow rate: 0.5 – 6 l/h
- Maximum operating pressure: 1 bar
- 230V power supply as standard
- Model 6 l/h only at 24 Vdc

**Models**

F SILICONE	F-T Santoprene®	Version
PPF 02 368 60	PPF 02 368 64	0001
PPF 02 192 60	PPF 02 192 64	0101
PPF 02 187 60	PPF 02 187 64	0201
PPF 02 311 60	PPF 02 311 64	0301
PPF 02 189 60	PPF 02 189 64	0601

F-T**Compact peristaltic pumps with constant flow rate designed for non-continuous use**

Constant flow rate with integral timer (0–7 seconds; controlled by potentiometer) for non-continuous use

FEATURES

- Optional 120V, 12Vdc, 24Vac, 24Vdc power supplies (available for selected models)
- Wall mounted with removable gearbox/motor for panel mounting
- Peristaltic tubing available in Santoprene® or silicone
- Flow rate: 0.5 – 6 l/h
- Maximum operating pressure: 1 bar
- 230V power supply as standard
- Model 6 l/h only at 24 Vdc

**Models**

F-T SILICONE	F-T Santoprene®	Version
PPF 07 368 60	PPF 07 368 64	0001
PPF 07 192 60	PPF 07 192 64	0101
PPF 07 187 60	PPF 07 187 64	0201
PPF 07 311 60	PPF 07 311 64	0301
PPF 07 189 60	PPF 07 189 64	0601

FEATURES & MATERIALS

CASE

Chemical resistant
polypropylene

ROLLER HOLDER
POM

HOSE
Santoprene®

POWER SUPPLY

230V 50-60Hz
Maximum power
consumption: 3.5W



B SERIES

PERISTALTIC DOSING PUMPS



B SERIES

General information

ETATRON's B Series peristaltic dosing pumps are equipped with new electronic control circuits featuring switching power supplies that regulate motor rotation with greater precision, reliability and regularity.

The many advantages of switching power supplies in the industrial field include:

- Lower weight (up to 50%)
- Reduced heating for extensive service life
- An 80-90% efficiency is preferable compared to 30-60% for linear power supplies
- Power output feeding the pump is not affected by unforeseen variations in tension net, avoiding the need for an oversized transformer which could increase energy leakage

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: Santoprene®

INSTALLATION KIT

Water-treatment kit

FPM peristaltic pump accessories: 2 m polyethylene tube (4x6 mm), 2 m PP crystal tube (4x6 mm), 3/8" PVC-FPM injection valve and PP foot filter without check valve.

Description	Code
FPM kit	SCO 00007 01



Technical Specification

Version	Flow rate	Pressure	Net weight	Absorbed power	Rotation speed	Tube size
	l/h (US gal/h)	bar (psi)	kg	watt	rpm	mm
B-F						
0101	1.5 (0.39)	1.5 (21)	0.80	5	20	4.8 x 8.0
0301	3 (0.79)	3 (43)	0.80	10	40	4.8 x 8.0
B3-V						
0103	1 (0.26)	3 (43)	0.70	4	34	3.2 x 9.6
0403	4 (1.06)	3 (43)	0.70	5	47	4.8 x 9.6
1201	12 (3.17)	1 (14)	0.70	5	90	6 x 9

B3-V

B Series peristaltic dosing pumps

ETATRON's B3-V is a peristaltic dosing pump offering 10-100% flow-rate adjustment, with motor speed adjustable via a potentiometer.

FEATURES

- Flow rate: up to 12 l/h
- Operating pressure: up to 3 bar
- Flow rate adjustment: 10-100%
- Variable power supplies from 90-260V as standard
- Optional power supplies include 12Vdc, 24Vdc or 24Vca



Models

B3-V	Version
PBV 43 372 74	0103
PBV 43 365 74	0403
PBV 43 373 74	1201

B-F

B Series peristaltic dosing pumps

B-F is a fixed-flow peristaltic dosing pump system designed for non-continuous use in water-treatment applications.

FEATURES

- Flow rate: up to 3 l/h
- Operating pressure: up to 1.5 bar
- Fixed flow rate
- Power supply: 230V



Models

B F	Version
PBF 44 374 74	0101
PBF 44 375 74	0301

FEATURES & MATERIALS

CASE

Chemical resistant
polypropylene

ROLLER HOLDER

POM

HOSE

Santoprene®

POWER SUPPLY

230V 50-60Hz
Maximum power
consumption: 5W



BH SERIES

PERISTALTIC DOSING PUMPS



BH SERIES

General information

ETATRON's BH Series peristaltic dosing pumps have been designed with new electronic control circuits featuring switching power supplies that regulate motor rotation with greater precision, reliability and regularity.

The many advantages of switching power supplies include:

- Lower weight (up to 50%)
- Reduced heating for extensive service life
- An 80-90% efficiency is preferable compared to 30-60% for linear power supplies
- Power output feeding the pump is not affected by unforeseen variations in tension net, avoiding the need for an oversized transformer which could increase energy leakage

Materials

- Case: Reinforced, chemically resistant PP
- Roller holder: POM
- Hose: EPDM

INSTALLATION KIT

Supplied without injection valve or foot filter

Technical Specification

Version	Flow rate	Pressure	Net weight	Absorbed power	Rotation speed	Tube size
	l/h (US gal/h)	bar (psi)	kg	watt	rpm	mm
0001	100 (26.41)	1.5 (21)	1,50	25	150	9.6 x 15.9

BH3-V

Peristaltic dosing pumps

ETATRON’s BH3-V is a compact peristaltic dosing pump designed for applications requiring flow rates up to 100 litres per hour.

FEATURES

- Maximum flow rate: 100 l/h
- Flow rate adjustment: 10-100%
- Maximum working pressure: 1.5 bar
- Power supply: 90-260V standard 50/60 Hz
- Wall mounting
- Tubing: EPDM, Silicone, Norprene or Tygon
- Accessories: 4 m suction/discharge tubing
- Injection valve and foot filter not included



Models

BH3-V NORPRENE	BH3-V EPDM	BH3-V SILICONE	BH3-V TYGON	Version
PBH 42 305 P6	PBH 42 305 64	PBH 42 305 60	PBH 42 305 2F	1001

FEATURES & MATERIALS

CASE

Chemical resistant
polypropylene

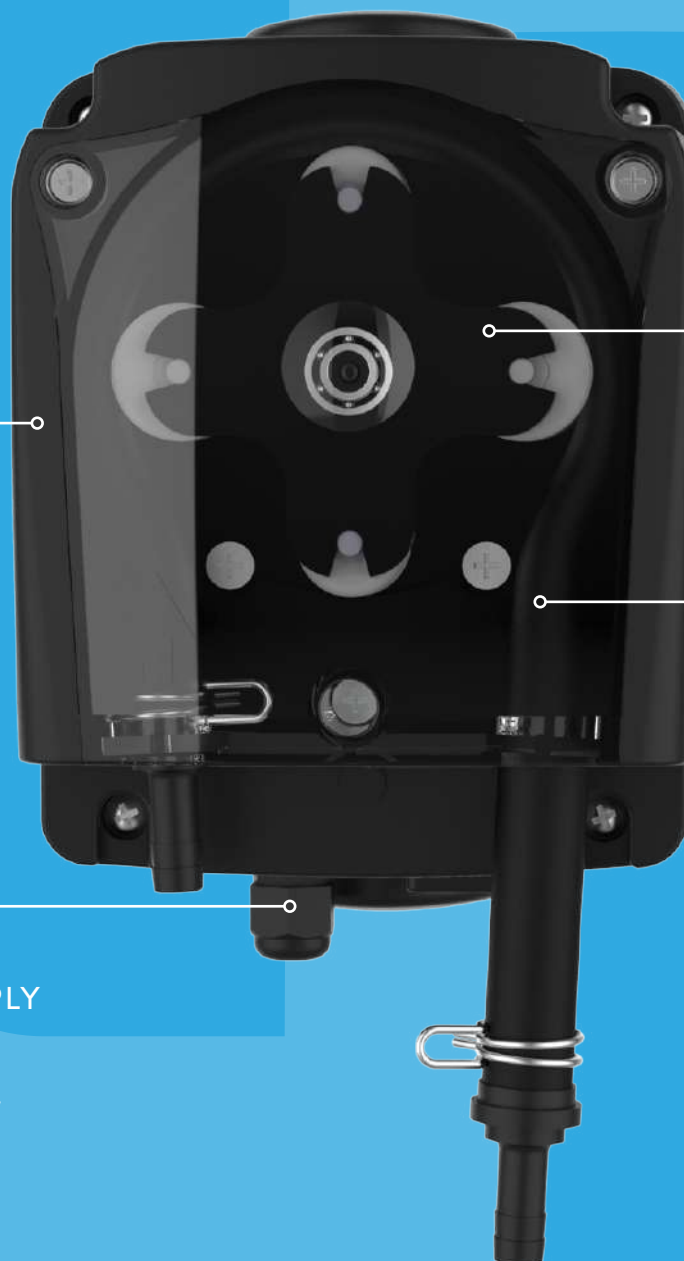
ROLLER HOLDER
POM

HOSE

Santoprene®

POWER SUPPLY

90-260V 50-60Hz
Maximum power
consumption: 25W



ACCESSORIES

EPDM DETERGENT KIT

EPDM peristaltic detergent pumps accessories
4 m PVC crystal tube (4x6 mm), 90° injection nipple for free discharge and stainless-steel foot filter with EPDM check valve.

Material	Code
EPDM	SCO 00002 02



FPM BRIGHTENER KIT

FPM peristaltic brightener pumps accessories
3 m polyethylene tube (4x6 mm), 2 m PVC crystal tube (4x6 mm), nickel-plated brass ball injection valve and stainless-steel foot filter with FPM check valve.

Material	Code
FPM	SCO 00003 01



WATER TREATMENT KIT

FPM peristaltic water-treatment pumps accessories
2 m polyethylene tube (4x6 mm), 2 m PP crystal tube (4x6 mm), 3/8" PVC-FPM injection valve and PP foot filter without check valve.

Material	Code
FPM	SCO 00007 01



CONDUCTIVITY PROBE

Conductivity electrode with two stainless-steel sensors. AISI 316 cell constant k=1 suitable for B-FCD dosing pump, 3 m cable.

Description	Code
400-20.000µS - 1/2" GM - PVC	21 380 04





SWIMMING POOLS

ETATRON's expertise in swimming pool chemical dosing has seen us develop a series of products for both the domestic and commercial markets, with complete solutions for the automatic control of pool water parameters.

ECONTROL SERIES CONTROLLERS



ECONTROL SERIES
Measurement and control instruments

eControl series controllers are designed to be used in water-treatment applications where continuous measurement of chemical parameters is required. These systems feature built-in microcontrollers and include a galvanically isolated measurement stage. Models in the range offer single or double measuring channels, independently configurable.

FEATURES

- Controllers with 1 or 2 measure channels
- Measures available: pH, redox 8mV, chlorine (ppm) and temperature °C
- Timer mode
- Temperature compensation, automatic (by PT100 probe) or manual
- 4-20 mA output, one for each measure
- 2 setpoints with each measure, On/Off or proportional working mode
- Hysteresis adjustable on setpoint value; delay time on relay activation
- Alarm Min or Max with the measure value
- Over-dosing alarm (excessive dosing time)
- Alarm relay, NO or NC (selectable by the user)
- Backlit graphic display
- Wall mounting version (IP65 protection degree) supplied with mounting bracket
- Input for level probe and level sensor
- 100/230V power supply as standard



BRACKET INCLUDED

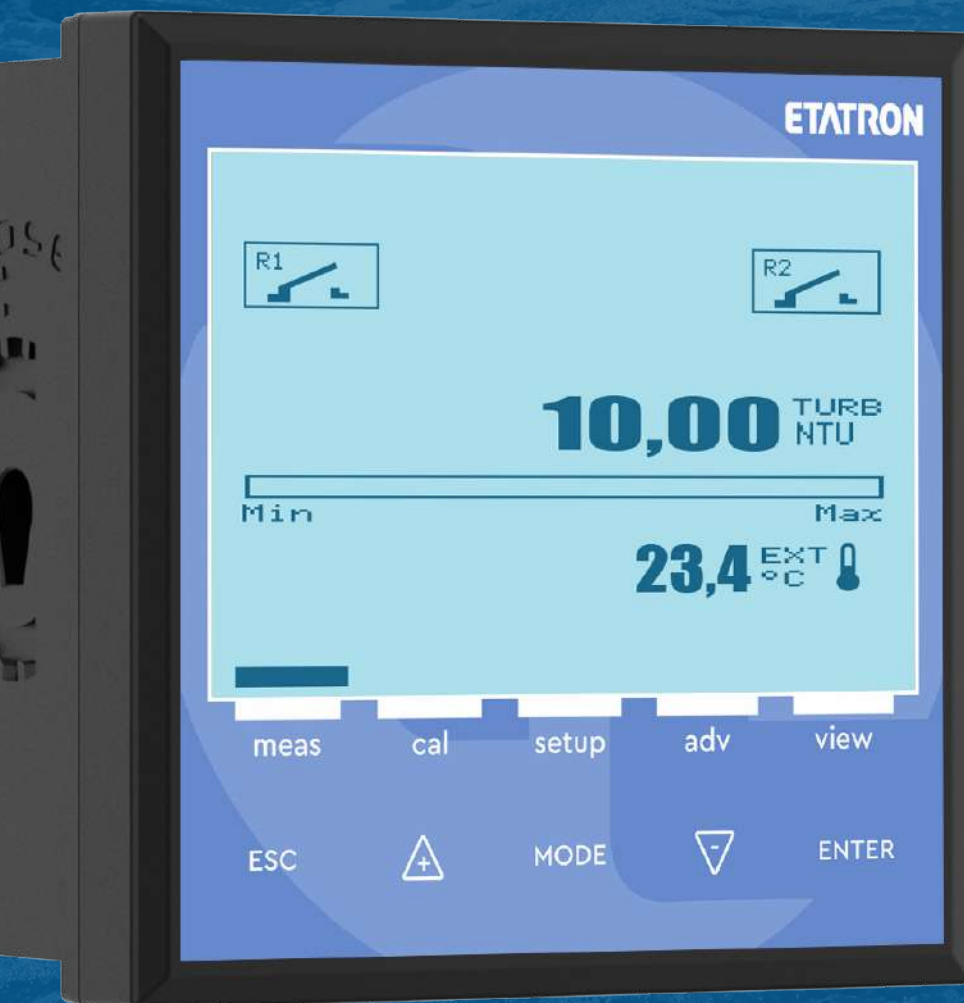
Support bracket for wall



Models

eControl	
1 measure	CXB 70001 01
2 measures	CXB 70002 01

MINIMUS SERIES CONTROLLERS



MINIMUS OXYGEN

Measure and control instruments

ETATRON's Minimus Series are professional controllers designed for advanced high-end water-treatment applications. All models are equipped with analogue and digital outputs that can be set by the end user – who has full programming autonomy – via software. Minimus Oxygen can be programmed for dissolved oxygen and temperature measurement.

- Backlit graphic display
- Two setpoints for On-Off/proportional intervention
- Two separate programmable galvanic 4-20 mA outputs
- Maximum dosing alarm
- Relay output alarm
- Relay output for probes cleaning
- Dissolved oxygen measure range: 0-20 ppm
- Power supply: 100-240 Vac
- PID control
- PT 100 input
- PWM and On-Off control
- Optional enclosure box for wall mounting



MINIMUS TURBIDITY

Measure and control instruments

ETATRON's Minimus Series are professional controllers designed for advanced high-end water-treatment applications. All models are equipped with analogue and digital outputs that can be set by the end user – who has full programming autonomy – via software. Minimus Turbidity can be programmed for turbidity and temperature measurement.

- Backlit graphic display
- Two setpoints for On-Off /proportional intervention
- Two separate programmable 4-20 mA galvanic outputs
- Maximum dosing alarm
- Relay output alarm
- Relay output for probe cleaning
- Turbidity measure range 0-4000 NTU
- Power supply: 100-240 Vac
- PID control
- PT 100 input
- PWM and On-Off control
- Optional enclosure box for wall mounting



Models

Minimus

Oxygen - Turbidity

CXB 00126 01

ELIGERE SERIES CONTROLLERS



ELIGERE SERIES

General information

The Eligere Series is a range of multi-function measuring instruments for as many as three parameters, suitable for pH, redox, free chlorine (residual), total chlorine and conductivity. As well as high-quality performance and advanced functions, the Eligere Series offers several characteristics for versatility and ease of use.

- pH and redox can be selected on the same model by simply programming and using the related probe;
- Free or total chlorine measure may be chosen on the basis of the type of sensor used and the relative measuring range: - ion-selective membrane sensors with measure ranges 0-2 Cl ppm; 0-20 Cl ppm; 0-20 Cl ppm (Total); - open type amperometric cell (model CLC) with measure range 0-10 Cl ppm
- Timed AUX output programming; Adjustable timer mode; switch-on time programming.
- Suitable for EtaCloud connection; optional accessory: connectivity kit
- Available boxes: wall mounting (IP65)
- Backlit graphic display (128x64)
- Start-up delay
- Alarm relay, NO or NC programmable by the user
- Automatic temperature compensation, (by PT100 probe or NTC) or manual

CONNECTIVITY KIT

The kit comprises an external black module, RS485/USB cable (to be connected to the controller) and power supply. A LAN cable must be connected to the router or extender.

Kit (to be purchased separately).

Codice
KST 10001 01

ETACLOUD

EtaCloud software supports remote control of all Eligere's operating and programming parameters. The user, via an internet-connected smartphone, tablet or PC, can perform all monitoring and control operations, while the software sends alarms and status changes to the operator via email to enable remote technical service.

Connection with EtaCloud is made possible by a connectivity kit (not included with the instrument), which consists of an RS485/USB cable, external module and 5V power supply.

Technical Specification

Models	Functions	Measure range	Display	User interface	Relay	Hysteresis	Delay time	Output	Power supply	Auxiliary output	RS485/Ethernet
3 Measure channels	pH, redox (mV), chlorine (ppm), selectable by the user	pH 0-14,00	7" LCD touch display 800x480 pixel	Touch screen	5 A-230 V, free contact	Programmable on setpoint value	Programmable on setpoint value for the relay activation	4-20 mA signals programmable by the user. 500 ohm maximum load impedance, with galvanic separation	100-230 V 50/60 Hz 6W	Relay connected with timer function	Modbus protocol with EtaCloud software, for the remote control via PC, smartphone or tablet
		Redox (mV) -1000-+1400									
4 Measure channels		Chlorine ppm 0-2 / 0-5 / 0-10 / 0-20 / 0-200 / 0-2000									
		Temperature (°C) 0-100									

ELIGERE 01 CD COOL
Instrument for measuring and controlling electrical conductivity

Eligere 01 CD Cool is an electrical conductivity measurement and control instrument, specifically designed for cooling towers. The programming menu contains functions purpose-built for this application, while a large graphic display and user-friendly navigation menu enable ease of use.

FEATURES

- Automatic monitoring of dosing pumps and solenoid valve via conductivity measure or timer
- Measure: electric conductivity and temperature °C
- Two 4-20mA outputs, programmable by the user
- Four setpoint outputs, On/Off or PWM (pulse width modulation) working mode
- Adjustable hysteresis on setpoint value; delay time on relay activation
- Max and Min alarm on the value measure
- Over-dosing alarm (excessive dosing time)
- Built-in timer for start/stop control
- Alarm relay
- Accurate chemical dosing, inhibitor and two biocides
- Four operating modes for inhibitor dosing
- Biocide dosing cycles programmable by timer or clock
- Flow sensor input
- Level probe input



Eligere 01 CD Cool offers discharge solenoid valve control, both with conductivity value and in timer mode.

The system provides inhibitor dosing control, directly according to water discharge (solenoid valve closing) or via internal timer, with the option of proportional dosing via water-meter pulse-sender.

Eligere 01 CD Cool is also designed for biocide dosing management with the option to control two pumps with two dosing programmes. The device offers timed programming with 99 programmes for each biocidal product with users able to block pumps during water discharge (solenoid valve open).

Models

CD COOL		
CXB 51 181 01		100/240V
CXB 51 182 01		12/24V

ELIGERE 01

Measure and control instruments

Eligere 01 is a family of controllers providing single-channel measure (plus temperature) via a graphic display and user-friendly navigation. The device is EtaCloud enabled for remote management (Connection Kit required).

FEATURES

- Available measurements: pH, redox (mV), free chlorine (ppm), total chlorine (ppm), conductivity and temperature °C
- Chlorine measurement (ppm) via selective membrane sensor or platinum-copper amperometric cell
- Two setpoints, On/Off mode or PWM (pulse width modulation)
- pH or Redox version, user selectable
- Timer mode, connected to auxiliary relay
- Two 4-20mA outputs, programmable from the user
- Adjustable hysteresis on setpoint value; delay time on activation relay
- Alarm Max and Min mode on measure value
- Over-dosing alarm (excessive dosing time)
- Built-in start/stop timer
- Input for level sensor or flow sensor



Models

CD	pH (Rx)	CI	Power supply
CXB 51 161 01	CXB 51 201 01	CXB 51 251 01	100/240V
CXB 51 162 01	CXB 51 202 01	CXB 51 252 01	12/24V

SR

Measure and control instruments

- Suitable for EtaCloud connection; optional accessory: connectivity kit.



SR CD	SR pH (Rx)	SR CI	Power supply
CXR 50053 01	CXR 50051 01	CXR 50052 01	100/240V
CXR 50063 01	CXR 50061 01	CXR 50062 01	12/24V

ELIGERE 02

Measure and control instruments

The Eligere 02 Series is a family of controllers using two measurement channels (plus temperature) with a large graphic display and user-friendly navigation for ease of operation. Eligere 02 can be managed remotely via the Etacloud online portal (Connection Kit required).

FEATURES

- Measures: pH, redox (mV), free chlorine (ppm), total chlorine (ppm), conductivity and temperature °C
- pH or redox version selectable
- Standard versions: pH-Rx; pH(Rx)-CL; pH(Rx)-CD
- Timer mode, connected to auxiliary relay
- Two programmable 4-20mA outputs
- Chlorine measurement (ppm) by selective membrane sensor or amperometric cell (platinum-copper)
- Two setpoints on first measure and one setpoint on second measure, On/Off mode or PWM (pulse width modulation)



- Adjustable hysteresis on setpoint value; delay time on activation relay
- Alarm: Max and Min mode on each measure
- Over-dosing alarm (excessive dosing time) for each measurement
- Built-in timer to manage start/stop
- Two inputs for level sensor
- Flow sensor input

Models

pH-Rx	pH (Rx)-CL	pH (Rx)-CD	Power supply
CXB 51 401 01	CXB 51 351 01	CXB 51 301 01	100/240V
CXB 51 402 01	CXB 51 352 01	CXB 51 302 01	12/24V

ELIGERE 03

Measure and control instruments

Eligere 03 is a family of controllers providing three-channel measurement (plus temperature) via a wide graphic display and user-friendly navigation. The device is EtaCloud enabled for remote management (Connection Kit required).

FEATURES

- Measures: pH, redox (mV), free chlorine (ppm) and temperature °C
- Standard version: pH – Rx – CL
- Timer mode, connected to auxiliary relay
- Three programmable 4-20mA outputs
- Chlorine measure (ppm) by selective membrane sensor or amperometric cell (platinum-copper)
- Two setpoints on the first measure, one setpoint on all other measures, On/Off mode or PWM (pulse width modulation)
- Adjustable hysteresis on setpoint value; delay time on activation relay



- Alarm: Max and Min mode on each measure
- Over-dosing alarm (excessive dosing time) for each measure
- Built-in timer for managing start/stop
- Three inputs for level sensor
- Flow sensor input

Models

pH-Rx-CL	Power supply
CXB 51 451 01	100/240V
CXB 51 452 01	12/24V

ELIGERE TOUCH

Measure and control instruments

Eligere TOUCH is a family of controllers with four measurement channels (plus temperature), managed via a 7" touchscreen display and simplified by user-friendly navigation. This device is enabled for EtaCloud connection to allow 24/7 remote management (Connection Kit required).

FEATURES

- Measures: pH, redox (mV), free chlorine (ppm), total chlorine (ppm) and temperature °C
- Standard version: pH – Rx – CL– CL tot.
- 4-20mA outputs for each measurement, programmable by the user
- Chlorine measurement (ppm) via selective membrane sensor or platinum-copper amperometric cell
- Single setpoint for each measure, On/Off mode or PWM (pulse width modulation); (two set points for the first measure)
- Adjustable hysteresis on setpoint value; delay time on activation relay
- Alarm Max and Min mode on each measure
- Over-dosing alarm (excessive dosing time) for each measure
- Alarm relay, NO
- LCD touch display (800x480 pixel)
- Built-in timer for start/stop management
- Start-up delay
- Level probe inputs for each measure
- Flow sensor input
- Three time-programmable AUX outputs
- Option to create administrator password



Models

pH(Rx)-pH(Rx)-Cl-Cl tot.	pH(Rx)-pH(Rx)-Cl-CD	Power supply
CXB 51 701 01	CXB 51 711 01	100/240V
CXB 51 702 01	CXB 51 712 01	12/24V

CONTROL AND REGULATING SYSTEMS

PH-RX CONTROL UNIT

ETATRON's control and regulating system for pH and redox is compatible with EtaCloud and comprises: Eligere 02 controller; block valves; connection for 10x14 mm tube; water filter with 150-micron washable net cartridge; methacrylate probe holder; pH electrode with plastic body and 1-metre cable ($T_{\max}=60^{\circ}\text{C}$ $P_{\max}=6\text{ bar}$), working range 0-14 pH; redox electrode with plastic body and 1-metre cable ($T_{\max}=60^{\circ}\text{C}$ $P_{\max}=6\text{ bar}$), working range $\pm 1.000\text{ mV}$; 4 x 55 ml buffer solution bottles (pH 4, 7, 9 and redox 650 mV); 2 manual pumps with wiring connection available in the central box trunking. Suitable for software EtaCloud connection; optional accessory: connectivity kit.

Panel dimensions 450 x 600 x 10 mm

pH-Rx	
Eligere 02 (it-en)	QPA 517110 02
eControl 2	QPA 5W110 02
without controller	QPA 5A110 02
2 MyPool 3-3	QPA 5U110 02



PH-RX-F CONTROL UNIT

With flow control and adjustment system

ETATRON's pH and redox control and regulating system is compatible with EtaCloud and comprises: Eligere 02 controller; block valves; connection for 10x14 mm tube; water filter with 150-micron washable net cartridge; methacrylate probe holder with proximity switch and flow-adjustment system; manual sampling; pH electrode with plastic body with 1-metre cable ($T_{\max}=60^{\circ}\text{C}$ $P_{\max}=6\text{ bar}$) working range 0-14 pH; redox electrode with plastic body and 1-metre cable ($T_{\max}=60^{\circ}\text{C}$ $P_{\max}=6\text{ bar}$) working range $\pm 1.000\text{ mV}$; 4 x 55 ml buffer solution bottles (pH 4, 7, 9 and redox 650 mV); 2 manual pumps with wiring connection available in the central box trunking. Suitable for software EtaCloud connection; optional accessory: connectivity kit.

Panel dimensions 450 x 600 x 10 mm

pH-Rx-F	
Eligere 02 (it-en)	QPA 517110 62
eControl 2	QPA 5W110 12
without controller	QPA 5A110 12



CL-F P CONTROL UNIT

With flow control and adjustment system

ETATRON's control and regulating system for free chlorine is EtaCloud compatible and comprises: Eligere 01 controller; block valves; connection for 10x14 mm tube; water filter with 150-micron washable net cartridge; methacrylate probe holder with proximity switch and flow-adjustment system; manual sampling; free inorganic and organic chlorine probe (0 – 20) ppm measuring range – probe shows low pH dependence (pH working range 4– 12 pH), chlorine measurement is not affected by isocyanuric acid or surfactant/flocculant presence and the probe is automatically temperature compensated; 0.7-metre probe cable; one manual pump wiring connection available in the central box trunking.

The unit is designed for use with water up to 45°C, requires a constant flow rate between 30 and 40 l/h and has a maximum operating pressure of 1 bar (free discharge at probe holder outlet). The probe includes integrated temperature compensation. Suitable for software EtaCloud connection; optional accessory: connectivity kit.

Panel dimensions 450 x 600 x 10 mm



Cl-F P (0-2 ppm)

Eligere 01 (it-en)	QPT 319003 62
eControl 1	QPT 30X007 12
without controller	QPT 30A003 12

Cl-F P (0-20 ppm)

Eligere 01 (it-en)	QPT 319002 62
eControl 1	QPT 30X006 12
without controller	QPT 30A002 12

PH-CL-F P CONTROL UNIT

With flow control and adjustment system

ETATRON's control and regulating system for free chlorine and pH is compatible with EtaCloud and comprises: Eligere 02 controller; block valves; connection for 10x14 mm tube; water filter with 150-micron washable net cartridge, methacrylate probe holder with proximity switch and flow adjustment system; manual sampling; free inorganic and organic chlorine probe (0 – 20) ppm measuring range – probe shows low pH dependence (pH working range 4-12 pH), chlorine measurement is not affected by isocyanuric acid, surfactant/flocculant presence and the probe is automatically temperature compensated; 0.7-metre probe cable; pH electrode with plastic body and 1-metre cable (Tmax=60° C Pmax=6 bar) working range 0-14 pH; 3 x 55ml buffer solution bottles (pH 4, 7 and 9); 2 manual pumps with wiring connection available in the central box trunking.

The unit is designed for use with water up to 45°C, requires a constant flow rate between 30 and 40 l/h and has a maximum operating pressure of 1 bar (free discharge at probe holder outlet). The probe features integrated temperature compensation while a Connectivity Kit is available as an option.

Panel dimensions 450 x 600 x 10 mm



pH-Cl-F P (0-2 ppm)

Eligere 02 (it-en)	QPT 617103 62
eControl 2	QPT 60W107 12
without controller	QPT 60A103 12

pH-Cl-F P (0-20 ppm)

Eligere 02 (it-en)	QPT 617102 62
eControl 2	QPT 60W106 12
without controller	QPT 60A102 12

PH-RX-CL-F P CONTROL UNIT

With flow control and adjustment system

Control and regulating system for free chlorine, pH and redox, comprising: Eligere 03 controller; block valves; connection for 10x14 mm tube; water filter with 150-micron washable net cartridge; methacrylate probe holder with proximity switch and flow-adjustment system; manual sampling; free inorganic and organic chlorine probe (0 – 20) ppm measuring range – probe shows low pH dependence (pH working range 4–12pH), chlorine measurement is not affected by isocyanuric acid or surfactant/flocculant presence and the probe is automatic temperature-compensated; 0.7-metre probe cable; pH electrode with plastic body with 1-metre cable (Tmax=60°C Pmax=6 bar) working range 0–14 pH; redox electrode with plastic body and 0.5-metre cable (Tmax=60°C Pmax=6 bar) working range ± 1.000 mV; 4 x 55ml buffer solution bottles (pH 4, 7, 9 and redox 650 mV); 2 manual pumps with wiring connection available in the central box trunking.

The unit is designed for use with water up to 45°C, requires a constant flow rate between 30 and 40 l/h and has a maximum operating pressure of 1 bar (free discharge at probe holder outlet). The probe features integrated temperature compensation while a Connectivity Kit is available as an option.

Panel dimensions 450 x 600 x 10 mm



pH-Rx-Cl-F P (0-2 ppm)

Eligere 03 (it-en)	QPT 818113 62
without controller	QPT 80A113 12

pH-Rx-Cl-F P (0-20 ppm)

Eligere 03 (it-en)	QPT 818112 62
without controller	QPT 80A112 12

COOLING TOWER PANEL

With flow control and adjustment system

Control panel designed for conductivity measurement and management in cooling towers. It integrates application-specific functions, a wide graphic display, and an intuitive navigation menu, ensuring simple and immediate operation.

The system controls the discharge solenoid valve (SV) based either on the conductivity value or in timer mode. It also manages inhibitor dosing, which can be configured in direct mode (SV opening), as a percentage of the purge, or via an internal timer, with the option of proportional dosing through a pulse-emitting water meter.

For biocide management, the panel allows control of two dedicated dosing pumps, each programmable with up to 99 timed programs per product. A pump-blocking function during water discharge (SV open) is also available, ensuring a safe process fully aligned with system requirements.

Panel dimensions 900 x 600 x 10 mm

Panel Eligere CD 0-10000µS

Eligere 01 (it-en)	QXB 00042 01
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Panel Eligere CD-pH 0-10000µS

Eligere 01 (it-en)	QXB 00043 01
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EPHOTON

Photometric controller with microprocessor technology.

Wall mounting, electronic size IP65 protection degree.
Backlighted graphic Display. Internal data logger with 4MB memory Flash da 4MB for data storage.

Free Chlorine and combined Chlorine: measure range 0.00÷5.00 ppm, resolution ± 0.01 ppm Cl₂; accuracy $\pm 2\%$, repeatability 98%. Selectable analysis time: 3...999 minutes

pH measure: measure range 0.00÷14.00 pH, resolution ± 0.01 pH. accuracy $\pm 1\%$

Rx measure: measure range -1500...+1500 mV, resolution ± 1 mV. accuracy $\pm 1\%$

Temperature measure (PT1000 sensor): measure range 0.0 ÷ 50.0°C, resolution $\pm 0.1^\circ\text{C}$. accuracy $\pm 0.2^\circ\text{C}$, repeatability 99%.

- Set point Chlorine and Set point pH: Nr. 2 Relay outputs ON and OFF selectable, proportional in PWM mode, max 5A - 250V, timed output, priority clock output during the 24H.
- Set point Redox and Set point combined Chlorine: Nr. 1 Relay output ON and OFF selectable, proportional in PWM mode, max 5A - 250V, timed output
- Relay output for anti-algae/flocculant with clock selectable control during the 24H, max 5A, 230V
- General alarm relay, max 5A - 250V (water absence, reactive absence, Time-Out set point Chlorine/pH, measure cell dirty or damaged, led faulty)
- Digital input for set-point inhibition
- Working temperature 5÷45 C. working humidity 10÷95%
- RS485 connection (MODBUS RTU protocol)
- Power supply 85-265Vac / 50-60Hz.



Panel dimensions 640 x 700 x 240 mm

ePhoton	
pH-Rx-C°-Cl free	QXB 00031 01
Versione equiped current output	QXB 00031 02
ePhoton N/C	
pH-Rx-C°-Cl free-Cl total	QXB 00032 01
Versione equiped current output	QXB 00032 02
KIT	
Consisting of the complete filter cartridge, ball valve, PVC pipes and fittings	KPA 00018 01
Replacement reagents Kit	
free Chlorine	ASZ 00030 01
total Chlorine	ASZ 00031 01

EPHOTON V22 EL-PH-CL/T

Photometric control unit with optical fibers, multiparametric and microprocessor-based.

Wall-mounted with an IP65 protection rating for the electronic section. Backlit graphic display.

Free Chlorine Measurement: Measurement range 0.00–5.00 ppm, resolution ± 0.01 ppm Cl₂. Accuracy $\pm 2\%$, repeatability 98%. Programmable analysis time from 2 to 300 minutes.

pH Measurement: Measurement range 0.00–14.00 pH, resolution ± 0.01 pH. Accuracy $\pm 1\%$.

Temperature Measurement (NTC sensor): Measurement range 0.0–50.0 °C, resolution $\pm 0.1^\circ\text{C}$. Accuracy $\pm 0.2^\circ\text{C}$, repeatability 99%.

- Chlorine/pH Setpoint: No. 3 ON/OFF relay outputs (2 for Cl₂ - 1 for pH). Max load 3A – 230V.
- Cumulative Alarm Relay: Max load 3A – 230V (no water flow via static flow sensor, reagent empty, chlorine/pH setpoint timeout, dirty/faulty cell, burned LED).
- Operating temperature: 5–55 °C. Operating humidity: 10–95%.
- Prepared for remote display via radio and PC-GPRS connection for web monitoring.
- Pressurized hydraulic circuit
- Power supply: 85–265 Vac / 50–60 Hz



ePhoton v22 EL-pH-CL/T	
	QXB 00036 01
Replacement reagents Kit, 2 packs	
	ASZ 00032 01

TANKS AND ACCESSORIES

POLYETHYLENE TANKS

These vertical tanks, produced in MDPE, provide safe containment of toxic liquids and are weather resistant, impervious to ageing and suitable for prolonged exposure to UV.

Tank size	ø mm	H mm	Code
50 l	410	465	ASB 10312 01
100 l	470	650	ASB 10313 01
250 l	610	870	ASB 10314 01
300 l	670	965	ASB 10315 01
500 l	760	1195	ASB 10316 01
1000 l	1085	1223	ASB 10317 01

Higher capacities available upon request.



PE OPEN SAFETY BUND

Stabilised polyethylene anti-UV stackable bunds.

Tank size	ø mm	H mm	Code
50 l	470	450	ASB 10010 02
100 l	550	610	ASB 10010 01
250 l	705	820	ASB 10008 01
300 l	780	960	ASB 10309 01
500 l	846	1105	ASB 10310 01
1000 l	1235	1255	ASB 10311 01



TANK SUPPORT

PP tank support for mixer and/or dosing pump.

Thickness 10 mm	Code
100 l	ASB 10313 51
250 l	ASB 10314 51
300 l	ASB 10315 51

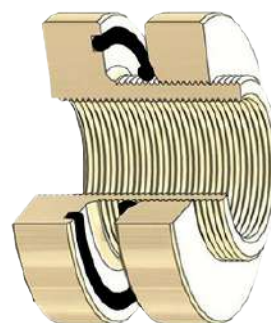
Thickness 20 mm	Code
500 l	ASB 10316 51
1000 l	ASB 10317 51



OPENING FOR WATER FLOW WITH O-RING

PP opening for water flow with FPM OR EPDM O-ring.

O-ring	Fitting	DN mm	Code
FPM	1/2"	15	1 TRO 002
EPDM	1/2"	15	1 TRO 006
FPM	3/4"	20	1 TRO 012
EPDM	3/4"	20	1 TRO 011
FPM	1"	25	1 TRO 003
EPDM	1"	25	1 TRO 001
FPM	1 1/4"	32	1 TRO 010
EPDM)	1 1/4"	32	1 TRO 009
FPM	1 1/2"	40	1 TRO 005
EPDM	1 1/2"	40	1 TRO 008
FPM	2"	50	1 TRO 004
EPDM	2"	50	1 TRO 007



MIXERS

AF SERIES

The AF Series are motor-driven high-speed mixers for small-capacity tanks, with shaft bearings sealed by a V-ring to protect from external vapours. These systems each feature a 4-pole motor rated at 1400 rpm with PP mixer support flange mounted directly on the tank. The shaft and impeller (flow cone type) are manufactured in 316L stainless steel or PP covering a steel core.

Type	Motor power	Shaft length	Power supply	Code
PP - AF 1-6-4	0.18 kW	600 mm	230/400 V - 50 Hz 3 Phase	EGT 224100 03
PP - AF 1-6-4	0.18 kW	600 mm	230 V - 50 Hz 1 Phase	EGT 224200 03
PP - AF 1-7-4	0.18 kW	700 mm	230/400 V - 50 Hz 3 Phase	EGT 224103 03
PP - AF 1-7-4	0.18 kW	700 mm	230 V - 50 Hz 1 Phase	EGT 224203 03
PP - AF 1-8-4	0.18 kW	800 mm	230/400 V - 50 Hz 3 Phase	EGT 224101 03
PP - AF 1-8-4	0.18 kW	800 mm	230 V - 50 Hz 1 Phase	EGT 224201 03
PP - AF 1-10-4	0.18 kW	1000 mm	230/400 V - 50 Hz 3 Phase	EGT 224104 03
PP - AF 1-10-4	0.18 kW	1000 mm	230 V - 50 Hz 1 Phase	EGT 224204 03
SS316L - AF 1-6-4	0.18 kW	600 mm	230/400 V - 50 Hz 3 Phase	EGT 224100 01
SS316L - AF 1-6-4	0.18 kW	600 mm	230 V - 50 Hz 1 Phase	EGT 224200 01
SS316L - AF1-8-4	0.18 kW	800 mm	230/400 V - 50 Hz 3 Phase	EGT 224101 01
SS316L - AF 1-8-4	0.18 kW	800 mm	230 V - 50 Hz 1 Phase	EGT 224201 01
SS316L - AF1-10-4	0.18 kW	1000 mm	230/400 V - 50 Hz 3 Phase	EGT 224104 01
SS316L - AF1-10-4	0.18 kW	1000 mm	230 V - 50 Hz 1 Phase	EGT 224204 01



AGV SERIES

Swift mixers with rigid coupling via 4–6–8 poles motors equipped with a radial bearing support and seal ring. These mixers are particularly suitable for the mixing or dissolution of products with low viscosity in small/medium tanks. Maximum rating of 5 kW while single or double stuffing boxes, 3-phase motors and SS 304L as standard. Shaft/rotor coating on request.

Motor power	Shaft length	Rotor diameter
0.18 kW	600 mm	100 mm
0.25 kW	600 mm	110 mm
0.37 kW	800 mm	120 mm
0.55 kW	900 mm	140 mm
0.75 kW	1000 mm	150 mm
1.1 kW	1250 mm	160 mm
1.5 kW	1500 mm	170 mm



AGR-V SERIES

Slow mixers specifically designed for flocculant/neutraliser or flocculant solution preparation. The mixer shaft is directly coupled with the worm gearbox, and the system supplied with shaft and 4 x 45° impeller blades. Three-phase motors supplied as standard with single-phase on request for power supply lower than 0.37 kW. SS 304L as standard. Shaft/rotor coating on request.

Motor power	Shaft length	Rotor diameter	RPM
0.18 kW	700 mm	200 mm	140
0.25 kW	800 mm	300 mm	90
0.37 kW	1000 mm	350 mm	90
0.55 kW	1000 mm	400 mm	90
0.75 kW	1200 mm	500 mm	90
1.1 kW	1500 mm	550 mm	90
1.5 kW	1500 mm	700 mm	70



MANUAL MIXER

Material	Shaft length	Code
PVC	400 - 600 - 800 - 1000 mm	AGT M0051 01



WATER METERS AND FLOW METERS

THREADED WATER METER

COLD WATER (max. 30°C) – Threaded water meters, reed impulse transmitters (4 imp/l). On request: 2 imp/l, 1 imp/l, 1 imp 2,5l, 1 imp 5l, 1 imp 10l, 1 imp 25l, 1 imp 50l, 1 imp 100l, 1 imp 250l, 1 imp 500l, 1 imp 1,000l.

HOT WATER (max. 90°C) – Threaded water meters, reed impulse transmitters (4 imp/l). On request: 2 imp/l, 1 imp/l, 1 imp 2,5l, 1 imp 5l, 1 imp 10l, 1 imp 25l, 1 imp 50l, 1 imp 100l, 1 imp 250l, 1 imp 500l, 1 imp 1,000l.

TEFLON – counters lined for aggressive liquids with a pulse emitter (1, 2.5, 5 and 10 pulses per litre).

HORIZONTAL installation

Fitting inch	DN mm	Flow m3/h
1/2"	13	1,5
3/4"	20	2,5
1"	25	3,5
1 1/4"	30	5
1 1/2"	40	10
2"	50	15



FLANGED WATER METER

COLD WATER (max. 40°C) – Flanged water meters, reed impulse transmitters. Also available for hot water (130°C) upon request.

ON REQUEST: 1 imp 1,000l for selected items (ask for availability); 1 imp 10l, 1 imp 100l, 1 imp 1,000l for the other codes.

Fitting inch	DN mm	Flow m3/h	1 imp 10l	1 imp 1,000l
2"	50	15	Std	-
2 1/2"	65	25	Std	-
3"	80	40	Std	-
4"	100	60	-	Std
6"	150	150	-	Std



FLOW METER

ETATRON's electromagnetic induction flow meter consists of a measuring stub for circular section pipes, available in flanged, wafer, threaded or clamp versions for the food industry.

The measuring tube is made of AISI 316 stainless steel, internally coated in plastic (hard or soft rubber, PTFE, EFTE, Rilsan, PFA, PVDF), with four standard measuring electrodes in AISI 316 Ti stainless steel or other materials depending on specification (Hastelloy, titanium, tantalum).

The meter is protected externally by a cylindrical cover with EN1092-1-standard flanges, PN10 - 100, in carbon steel painted with epoxy treatment.

All versions above DN20 are equipped with two additional electrodes for grounding the liquid and checking the presence of air or an empty pipe.

Standard executions are DN4 - DN600 with variations according to internal coatings.



FLOW CONVERTER

The flow converter, in combination with electromagnetic induction measuring sensors, has microprocessor electronics housed in a painted aluminium case, available in compact execution and mounted on the measuring tube or independently.

A 2-line x 16-character alphanumeric backlit LCD screen features a multilingual interface for instantaneous and totalised measurement programming and display, rotatable through 350°. Digital outputs: 2 with pulses for totalisation (max 400 Hz) and status threshold, configurable, Analogue output: 4-20 mA configurable and optional HART communication: RS485 Modbus.

Power supply: 110-230 Vac (Optional 24 Vac / Vdc)

Ingress protection: IP65 as standard with optional IP67 or IP68 for the mixer in a separate version.

Additional cost for separate version

Shield cable (minimum 10 metres)

Pulse output + 4-20 mA + RS485 Modbus

ATEX configuration

Diameter	Coating	Coating	Pressure
DN15	-	PTFE	PN40
DN20	-	PTFE	PN40
DN25	RUBBER	PTFE	PN40
DN32	RUBBER	PTFE	PN40
DN40	RUBBER	PTFE	PN40
DN50	RUBBER	PTFE	PN40
DN65	RUBBER	PTFE	PN40
DN80	RUBBER	PTFE	PN40
DN100	RUBBER	-	PN16
DN125	RUBBER	-	PN16
DN150	RUBBER	-	PN16
DN200	RUBBER	-	PN16
DN250	RUBBER	-	PN10

ACCESSORIES

DOUBLE ELECTRODE HOLDER

Probe holder for pH and Rx electrode (plexiglass/PP) • Maximum pressure: 5 bar (73 psi) • Maximum temperature: 45°C (113°F).

Description	Code
pH e Rx (Plexiglass/PP)	SPS 00010 01



DOUBLE ELECTRODE HOLDER WITH FLOW SENSOR

Probe holder for pH and Rx electrodes or temperature probe • Plexiglass/PP • Manual flow-rate adjustment • 2-wire proximity switch • Manual sampling • Maximum pressure: 5 bar (73 psi) • Maximum temperature: 45°C (113°F).

Description	Code
For eControl - eOne Plus - TwinPool	SPS 00012 01
For Eligere	SPS 00012 05



DOUBLE PROBE HOLDER

Probe holder for amperometric ion-selective probes and either pH or Rx or temperature probes • Manual sampling • Maximum pressure: 5 bar (73 psi).

Description	Code
For eControl - eOne Plus - TwinPool. Flow-rate adjustment and 2-wire proximity switch - Plexiglass/PP - Maximum temperature: 45°C (113° F)	SPS 00020 01
For Eligere - Proximity switch - Plexiglass/PVDF/PP - Maximum temperature: 70°C (158° F)	SPS 00020 05



TRIPLE PROBE HOLDER

Probe holder for pH, Rx, amperometric ion-selective and temperature probes. Flow-rate adjustment and 2-wires proximity switch • Plexiglass/PP • Maximum pressure: 5 bar (73 psi) • Maximum temperature: 45°C (113° F).

Description	Code
For eControl - eOne Plus - TwinPool Flow-rate adjustment and 2-wire proximity switch - Plexiglass/PP - Maximum temperature: 45°C (113° F)	SPS 00018 01
For Eligere - 3-wire proximity switch - Plexiglass/PP - Maximum temperature: 45°C (113° F).	SPS 00018 05



QUADRUPLE ELECTRODE HOLDER

Probe holder for pH, Rx, amperometric ion-selective free an total CL and temperature probes. Flow-rate adjustment and 2-wires proximity switch (NO) • Plexiglass/PP • Maximum pressure: 5 bar (73 psi) • Maximum temperature: 45°C (113° F).

Description	Code
pH, Rx, Free Cl and Total CL (Plexiglass/PP)	SPS 10030 01



INLINE SS ELECTRODE HOLDER

Inline SS electrode holder C. GM 1/2", PG13.5 threaded connection.

Description	Code
1/2" GM connection	DPS 00016 01



INLINE PP ELECTRODE HOLDER

Inline electrode holder. 1/2" conical fitting in PP, for pH and Rx electrodes. Maximum pressure: 5 bar (73 psi).

Description	Code
	DPS 00023 01
With O-ring 3062	KPS 00023 01



INLINE PVC ELECTRODE HOLDER

Inline electrode holder for pressure up to 5 bar (73 psi) and temperature up to 45°C (113°F). GM 1/2" fitting in PVC, for pH and Rx electrodes. Other materials upon request.

Description	Code
PVC	2143 001



CLAMP SADDLE

Clamp saddle for electrode holder. For 3/8" injection valve, use KRA 00058 01 nipple.

Description	Code
1/2" GF - DN50	AFA 00006 02
1/2" GF - DN63	AFA 00008 02



PROXIMITY SWITCHES

Proximity sensor for probe holders and Hychlor amperometric chlorine cell.

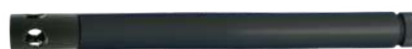
Description	Code
2-wire NO - Eligere - eControl - eOne Plus	ASO 00007 12
2-wire NC - MyPool	ASO 00007 03
3-wire - per/for Eligere, SR	ASO 00007 04



SUBMERSIBLE ELECTRODE HOLDER

PVC submersible tubular electrode holder.
Length: 50 cm. For pH and Rx (ORP) electrodes.

Description	Code
0.45 m	2143 002
1 m	2143 003
1.5 m	2143 004
2 m	2143 015
PP support bracket (on request)	SFL 00105 01



PT100 TEMPERATURE PROBE

PT100 temperature probe. 1/2" connection in PVC, tap type, 5-metre cable. Maximum temperature: 45°C (113°F). Maximum pressure: 5 bar (73 psi).

Description	Code
PVC 1/2" connection	ASO 00003 02



TEMPERATURE PROBE

PT100 temperature probe. Measuring range: 0-100°C.
For electrode holder. Cable length: 5 metres.

Description	Code
Stainless steel	ASO 00026 01
Glass	ASO 00025 01



PLASTIC BODY ELECTRODE

pH electrode with polycarbonate body. Measuring range: 0-14 pH. **Redox (ORP) electrode** with polycarbonate body. Measuring range: $\pm 1,000$ mV.

Alternative electrode types or cable lengths upon request.

pH electrode	Code
6 m (19 ft 7 in) cable/4 bar 60°C (140°F)	AEL 00049 21
1 m (3 ft 3 in) cable/4 bar 60°C (140°F)	AEL 00049 23
with screwable connector - no cable supplied - 5.5 bar 80°C (176°F)	AEL 00077 01

Rx electrode	Code
6 m (19 ft 7 in) cable/4 bar 60°C (140°F)	AEL 00050 21
1 m (3 ft 3 in) cable/4 bar 60°C (140°F)	AEL 00050 23
with screwable connector - no cable supplied - 5.5 bar 60°C (140°F)	AEL 00078 01
GOLD RX electrode 6 m (19 ft 7 in) cable/ 4 bar 60°C (140°F)	AEL 00020 13





GLASS BODY ELECTRODE

Glass body pH or Rx electrodes. Measuring range:
pH: 0-14 pH – Rx: $\pm 1,000$ mV. Alternative electrode types upon request.

Glass body electrode with cable	Code
5.5 bar – 80°C – pH – 5 m – 16 ft 4 in	AEL 00022 03
5.5 bar – 80°C – Rx – 5 m – 16 ft 4 in	AEL 00023 03
5.5 bar – 80°C – pH – 1 m – 3 ft 3 in	AEL 00022 02
5.5 bar – 80°C – Rx – 1 m – 3 ft 3 in	AEL 00023 02

Glass body electrode with screw connector PG 13.5	Code
5.5 bar – 80°C – pH	AEL 00079 01
4 bar – 80°C – Rx	AEL 00080 01
6.8 bar – 100°C – pH	AEL 00036 01
6.8 bar – 100°C – Rx	AEL 00042 01
10 bar – 130°C/16 bar – 25°C) – pH	1 ELT 003
10 bar – 130°C/16 bar – 25°C) – RX	AEL 00046 01



PH AND REDOX ELECTRODES FOR INDUSTRIAL APPLICATIONS

Combined electrode with gel electrolyte and DOUBLE JUNCTION, cable 10 mt.	Code
pH electrode gel double junction.	AEL 00029 01
Rx electrode gel double junction.	AEL 00005 01

Combined electrode with gel electrolyte, double junction and increased thickness membrane for FLUORIDES, cable 5 mt.	Code
pH electrode d/g for fluorides.	AEL 00056 01
Rx electrode d/g for fluorides.	AEL 00047 01

Combined electrode, annular Pt sensing element, double junction, Salt bridge gel electrolyte, for SULPHIDES, cable 5 mt.	Code
pH electrode d/g for sulphides.	AEL 00069 01
Rx electrode d/g for sulphides.	AEL 00071 01

Combined electrode, gel electrolyte, double junction, specific for LOW CONDUCTIVITY cable 5 mt.	Code
pH electrode d/g for low conductivity.	AEL 00057 02
Rx electrode d/g for low conductivity.	AEL 00005 03

COAXIAL CABLE FOR ELECTRODE

Coaxial cable for screw connector electrodes.
With BNC and connector.

Description	Code
0.5 m (1 ft 8 in)	2105 044
1 m (3 ft 3 in)	SCV 00003 02
3 m (9 ft 10 in)	2105 003
5 m (16 ft 5 in)	2105 004
9 m (29 ft 6 in)	2105 005
15 m (49 ft 3 in)	2105 007



BUFFER SOLUTIONS

Buffer solution in polythene container (55 ml) for calibration and control of pH meter, Rx (ORP) meter and conductimeter (500 ml). 250 ml buffer solutions for professional use available on request.

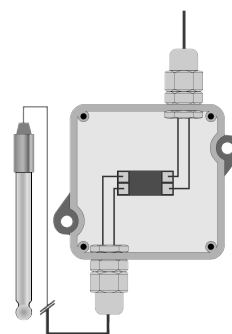
Description	Code
pH 4	ASZ 00 001 01
pH 7	ASZ 00 002 01
pH 9	ASZ 00 003 01
Rx 475 mV	ASZ 00 011 01
Rx 650 mV	ASZ 00 015 01
1413 μ S/cm	ASZ 00 009 01
12880 μ S/cm	ASZ 00 010 01



IMPEDANCE ADAPTOR

The impedance adaptor for pH-Rx electrodes allows the user to install electrodes at long distance (up to 200 metres) from the controller without interference on the signal transmission. The adaptor comes in a watertight connection box (IP65) and is powered by an internal battery with several years' operating life.

Description	Code
	1 ACS 006



ELECTRODE HOLDER

Electrode cell which can be used for a maximum of two probes. Available in PVC and polycarbonate. Supplied with support bracket and brass interconnection valve. Maximum pressure: 5 bar (73 psi). Maximum temperature: 45°C (113°F). Available with flow sensor. Electrodes not included

Description	Code
PVC	SPS 00015 01
PP	SPS 00015 02
PVC with flow switch	SPS 00025 01



FREE INORGANIC AND ORGANIC CHLORINE

Low pH dependence - Compatible with presence of isocyanuric acid, surfactants/flocculants - Automatic temperature compensation - pH working range: 4-12 - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 1 bar - Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 20) ppm	ASO 30001 01
(0 - 2) ppm	ASO 30001 02
Membranes	Code
for organic-inorganic free chlorine probe	AME 20001 01
Gel	Code
for free organic chlorine probe, 100ml	ASZ 10001 01



TOTAL CHLORINE

Low pH dependence - Compatible with presence of isocyanuric acid, surfactants/flocculants - Automatic temperature compensation - pH working range: 4-12 - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 1 bar. Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 20) ppm	ASO 01016 03
(0 - 2) ppm	ASO 01016 04



FREE INORGANIC CHLORINE

Not compatible with isocyanuric acid or surfactants/flocculants - Automatic temperature compensation - pH working range: 4-8. Operative pH level must remain constant - Requires constant flow rate: 30-40 l/h. Maximum working pressure: 1 bar. Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 200) ppm	ASO 01016 05
(0 - 20) ppm	ASO 01016 01
(0 - 2) ppm	ASO 01016 02
(0 - 2) ppm - 1 bar - 70° C	ASO 01016 12



INORGANIC FREE CHLORINE FOR POTABLE WATER HIGH PRESSURE, OPEN CELL

High pH dependence - Not compatible with isocyanuric acid, surfactants, flocculants, iron and manganese - Automatic temperature compensation - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 5 bar - Maximum working temperature: 50°C - Requires dedicated probe holder (available on request). Cable not supplied.

Sensors	Code
(0 - 10) ppm	ASO 01020 01



HYDROGEN PEROXIDE

Compatible with presence of surfactants - Automatic temperature compensation - pH working range: 2-11 - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 5 bar (with snap-ring) - Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 200) ppm	ASO 01033 01



PERACETIC ACID

Compatible with surfactants, tensides and conductivity acids - Automatic temperature compensation - pH working range: 2-6 - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 1 bar - Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 200) ppm	ASO 01032 01



CHLORINE DIOXIDE

Not compatible with surfactants - Automatic temperature compensation - pH working range: 1-14 - Requires constant flow rate: 30-40 l/h - Maximum working pressure: 1 bar - Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 20) ppm	ASO 01031 01
(0 - 2) ppm	ASO 01031 02
(0 - 2) ppm - 8 bar - 70°C	ASO 01031 03



CHLORINE DIOXIDE WITH SURFACTANTS

Compatible with surfactants - Automatic temperature compensation - pH working range: 2-12 - Required constant flow rate: 30-40 l/h - Maximum working pressure: 1 bar - Maximum working temperature: 45°C. Cable not supplied.

Sensors	Code
(0 - 20) ppm	ASO 01043 01
(0 - 2) ppm	ASO 01043 02



OZONE

Low pH dependence - Automatic temperature compensation - pH working range: 2-11 - Requires constant flow rate: 30-40l/h - Maximum working pressure: 1 bar - Maximum working temperature: 50°C. Analogic output signal: 0-2,000mV. Cable not supplied.

Sensors	Code
0.05 - 20.00 ppm	ASO 01055 01
0.05 - 2.00 ppm	ASO 01055 02



MEMBRANES

The membrane cap, filled with electrolyte, forms the measurement chamber in which the measuring part is dipped. A micro-porous membrane separates the measuring compartment from the sample to measure. The membranes are supplied with emery cloth.

Description	Code
Organic-inorganic free chlorine probe	AME 00003 01
Inorganic chlorine	AME 00004 01
Hydrogen peroxide/ Peracetic acid	AME 00009 01
Chlorine dioxide	AME 00011 01
Ozone	AME 00012 01



ELECTROLYTE GELS

Bottle of electrolyte gel filling membrane cap replacement (100 ml).

Description	Code
Free organic chlorine probe, 100ml	ASZ 00022 01
Free inorganic chlorine probe, 100ml	ASZ000 23 01
Free inorganic chlorine probe, 70ml	ASZ000 25 01
Total chlorine probe, 100ml	ASZ 00026 01
Chlorine dioxide	ASZ000 33 01
Hydrogen peroxide	ASZ 00034 01
Peracetic acid	ASZ000 43 01



CABLE FOR AMPEROMETRIC SENSORS

Cable for membrane-covered amperometric sensor with BNC connector for signal and Hirschmann connector for power supply.

Description	Code
0.7 m - For DLX/Controllers	SCV 01010 03
0.7 m - For eOne/eControl	SCV 01013 01
0.7 m - For DLXB	SCV 01010 04
0.7 m - For Eligere	ACV 01004 04
3 m - For DLX/Controllers	SCV 01010 05
3 m - For eOne/eControl	SCV 01013 02
3 m - For Eligere	ACV 01004 01
5 m - For DLX/Controllers	SCV 01010 06
5 m - For eOne/eControl	SCV 01013 03
5 m - For Eligere	ACV 01004 05
10 m - For DLX/Controllers	SCV 01010 02
10 m - For eOne/eControl	SCV 01013 04
10 m - For Eligere	ACV 01004 03



HYCHLOR

Sodium hypochlorite probe suitable for use as electrode holder for pH, Rx, and temperature with 2-wire flow sensor inclusive. It can be connected to any AG SELECT controller series with adaptor SCA0001101; 3-wire flow sensor suitable for R, B and Multicontroller instruments. Requires constant water flow rate between 40–60 l/h. Measuring range: 0–2 mg/l Cl₂. Constant pH value: 6–8 pH. Valve for cleaning-chemical injection and easy access for ball cleaning from top of the holder. Maximum working pressure: 5 bar. Chlorine probe cable length: 2 metres.

Description	Code
For 2 wires – eControl – eOne PLUS	SPS 00 022 01



COPPER-PLATINUM ELECTRODES

Spare part for self-cleaning HYCHLOR probe, measuring part composed by copper-platinum electrodes, FPM OR. 3-metre cable.



Description	Code
	SEL 00050 01

GLASS SPHERES

Kit of 30 Pyrex glass spheres for self-cleaning HYCHLOR probe.



Description	Code
Pyrex	KSF 00001 01

Ø12 MM CONDUCTIVITY PROBES

PTFE/GRAPHITE or GLASS/PLATINUM cells for conductivity measurement.

Available with integrated PT100, with different cell constants, and cable lengths of 10 and 15 metres. These probes are suitable for all normal industrial and laboratory applications and can be installed on submersible probe holder, electrode holder and some inline probe holders.



Description	Code
PTFE/GRAPHITE K 0,6 + PT100, cable 5mt	ASO C4111 00
GLASS/PT K 1 + PT100, cable 5mt	ASO C5211 00
GLASS/PT K 10 + PT100, cable 5mt	ASO 00066 01

1/2" CONDUCTIVITY PROBE

Cap-type conductivity cells with 1/2" threaded connection for installation in immersion probes for conductivity measurement, with glass-filled PP body (PP 30% GF) (optionally in PTFE or PVDF), graphite or stainless steel electrodes and protective bell.



Description	Code
PP/GRAPHITE K 1 + PT100, cable 5mt	ASO 00041 01
PP/AISI K 1, cable 5mt	ASO 00041 02
PP/AISI K 5, cable 15mt	ASO 00041 12
PP/AISI K 10 + PT100, cable 5mt	ASO 00041 03

Other conductivity sensors upon request



ETATRON is an Italian manufacturer of dosing pumps and chemical parameter control instruments with **40 years** of experience.

The company designs and produces a wide range of dosing pumps and control units tailored to various applications for dosing and monitoring chemical substances. **ETATRON** boasts an in-house team of engineers providing bespoke solutions for the management and control of chemical products.

We supply equipment across a wide spectrum of industries including drinking water treatment, wastewater treatment, swimming pools, industry, agriculture and cooling towers.

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