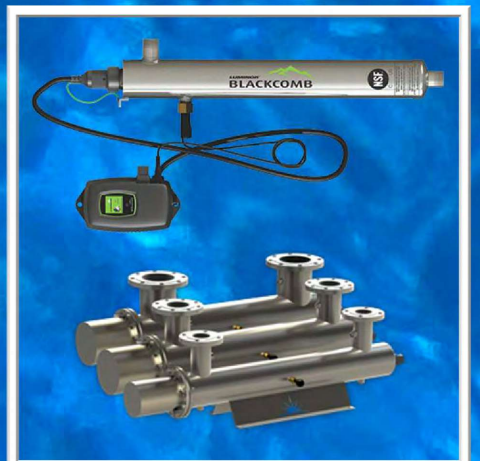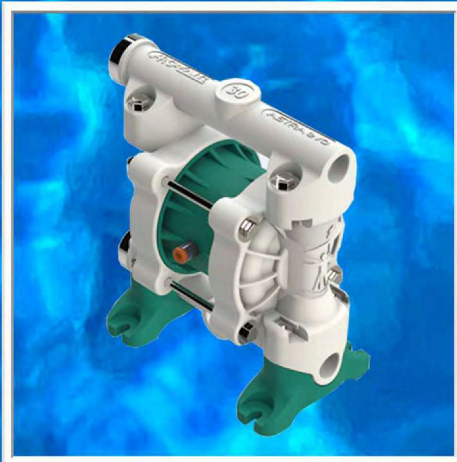# Aqua Products Ltd
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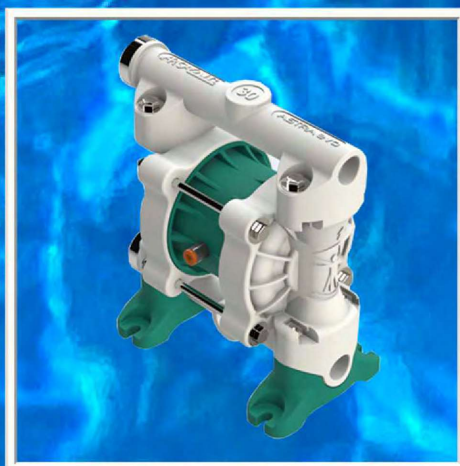
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CATALOGUE SECTIONS

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The information provided in this catalogue is, to the best of our knowledge, true and correct at the time of publishing.

The information is provided to assist with the selection of equipment from this catalogue. The use of this information for any other purpose is at the users risk.

Our suppliers improve and update their products from time to time. In addition, we are constantly reviewing to ensure we offer the best solutions to our customers.

We reserve the right to alter the technical information, specifications and dimensions provided in this catalogue without prior notice.

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SECTION 1   Stepper Motor Metering Pumps

1

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1

EMEC PRISMA
Stepper Motor Metering Pumps

Standard Features:

- Stepper Motor Diaphragm Pump
- LCD Display of Dosing Rate
- Colour LCD Pump Status Display
- Microprocessor Controlled Stepper Motor for Smooth and Accurate Dosing
- Electronic Stroke Speed Adjustment
- IP65
- 4800:1 Turndown Ratio
- 4 Slow Suction Modes for Dosing Viscous Media
- Manual Degassing Valve (PVDF, PP Heads)
- Double Ball Check Valves
- RS485 Communication
- 2 Year Warranty*

PRISMA

emec
SIMPLE AS WATER

Modbus

The EMEC PRISMA pump range uses a microprocessor controlled stepper motor to provide smooth dosing with extreme accuracy. Multifunctional (constant, ppm, %, mlq, pause/work, weekly timer, mA, pulse, volt, external batch, manual batch) with in-built level control, alarm indication, and stand-by input. Multicolour LCD display (for fault status).

All pumps are supplied with injection valve, foot valve and low level float switch, suction and discharge tubing, as well as external signal cable and standby/alarm cable.

Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	6 x 8	6 x 8
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

Options:

Liquid ends in PVDF, PP, PMMA and SS.
Alternative voltages. MODBUS connection. Bluetooth. 4-20mA output signal.

* Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

SECTION 2   Solenoid Metering Pumps

2

2

EMEC K Series
Metering Pumps

Standard Features:

- Microprocessor Technology
- Analogue Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End & Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The K series metering pumps provide a high quality option for metering chemicals into industrial processes at competitive prices.

K series pumps feature micro-processor control and double ball valves for accuracy, and the integral bleed assists with priming. A range of input signals can be used depending on the model, see below.

All pumps are supplied with suction tubing, discharge tubing, foot valve and injection valve. A low level float switch and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
2001	20	1	0.10	3/8	4 x 6
1802	18	2	0.19	3/8	4 x 6
1504	15	4	0.37	3/8	4 x 6
1005	10	5	0.46	3/8	4 x 6
0808	8	8	0.74	3/8	4 x 6
0510	5	10	0.93	3/8	4 x 6
0501	5	1	0.09	3/8	4 x 6
0218	2	18	1.67	1/2	6 x 8

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
KCO PLUS	✓	✓		
KCL PLUS	✓	✓	✓	
K PLUS	✓	✓	✓	Pulse / 4-20mA

Options:

Liquid end, valves & O-rings in alternative materials, alternative voltages, liquid ends for viscous media, selection of colours.

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EMEC KA Series
Self Venting Metering Pumps

Standard Features:

- Microprocessor Technology
- Analogue Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The KA series metering pumps have a self venting liquid end fitted. Recommended for medias that emit gasses, the self priming function ensures reliable metering.

KA series pumps feature micro-processor control and double ball valves for accuracy. A range of input signals can be used depending on the model, see below.

All pumps are supplied with suction tubing, discharge tubing, foot valve and injection valve. A low level float switch in PVDF and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
1801	18	1	0.10	3/8	4 x 6
1503	15	3	0.28	3/8	4 x 6
1003.5	10	3.5	0.32	3/8	4 x 6
1000.5	10	0.5	0.05	3/8	4 x 6
0805.5	8	5.5	0.51	3/8	4 x 6
0507.5	5	7.5	0.69	3/8	4 x 6
0213	2	13	1.20	1/2	6 x 8

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
KACO PLUS	✓	✓		
KACL PLUS	✓	✓	✓	
KA PLUS	✓	✓	✓	Pulse / 4-20mA

Options:

Liquid ends, valves & O-rings in alternative materials, alternative voltages, liquid ends for viscous media, selection of colours.

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2

EMEC KMS Digital Series
Metering Pumps

Standard Features:

- Microprocessor Technology
- Digital Display
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 1sph-180spm
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The KMS series metering pumps provide a high quality option with digital controls. These pumps provide advanced features and control options.

KMS series pumps feature micro-processor control and double ball valves for accuracy, and the integral bleed assists with priming. A range of input signals can be used depending on the model, see below.

All pumps are supplied with suction and discharge tubing, foot valve and injection valve, and low level float switch in PVDF. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
2001	20	1	0.10	3/8	4 x 6
1802	18	2	0.19	3/8	4 x 6
1504	15	4	0.37	3/8	4 x 6
1005	10	5	0.46	3/8	4 x 6
0808	8	8	0.74	3/8	4 x 6
0510	5	10	0.93	3/8	4 x 6
0501	5	1	0.09	3/8	4 x 6
0218	2	18	1.67	1/2	6 x 8

Models:

NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
KMS DC	✓	✓	✓	
KMS MF	✓	✓	✓	Pulse / 4-20mA
KMS CL	✓	✓	✓	Chlorine Probe **
KMS RH	✓	✓	✓	ORP Probe **
KMS PH	✓	✓	✓	PH Probe **
KMS EN	✓	✓	✓	Built-In Timer

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EMEC KMSA Digital Series
Self Venting Metering Pumps

Standard Features:

- Microprocessor Technology
- Digital Display
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 1sph-180spm
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The KMSA series metering pumps provide a high quality metering pump with digital controls and a self venting head. These pumps provide advanced features and control options.

KMSA series pumps feature micro-processor control and double ball valves for accuracy, and have a self venting liquid end fitted. For medias that emit gasses, the self venting function ensures reliable metering. A range of input signals can be used depending on the model, see below.

All pumps are supplied with suction and discharge tubing, foot valve and injection valve, and low level float switch in PVDF. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
1801	18	1	0.10	3/8	4 x 6
1503	15	3	0.28	3/8	4 x 6
1003.5	10	3.5	0.32	3/8	4 x 6
1000.5	10	0.5	0.05	3/8	4 x 6
0805.5	8	5.5	0.51	3/8	4 x 6
0507.5	5	7.5	0.69	3/8	4 x 6
0213	2	13	1.20	1/2	6 x 8

Models:

*NOTE: Probes sold separately ***

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
KMSA DC	✓	✓	✓	
KMSA MF	✓	✓	✓	Pulse / 4-20mA
KMSA CL	✓	✓	✓	Chlorine Probe **
KMSA RH	✓	✓	✓	ORP Probe **
KMSA PH	✓	✓	✓	PH Probe **
KMSA EN	✓	✓	✓	Built-In Timer

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EMEC KMS LPV Series
Metering Pumps for Viscous Media - up to 8000cPs

Standard Features:

- Microprocessor Technology
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End in PMMA
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The KMS-LPV series metering pumps are a robust high quality pump with advanced features and control options. The KMS-LPV series pumps feature dosing heads that are modified to handle viscous media up to 8000cPs. A range of input signals can be used depending on the model, see below.

All pumps are supplied with suction tubing, discharge tubing and an injection valve, Control and alarm cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/stroke	Valve size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
1802	18	2	0.19	3/8	16 x 22	8 x 12
1504	15	4	0.37	3/8	16 x 22	8 x 12
1005	10	5	0.46	3/8	16 x 22	8 x 12
0808	8	8	0.74	3/8	16 x 22	8 x 12
0510	5	10	0.93	3/8	16 x 22	8 x 12
0218	2	18	1.67	1/2	16 x 22	8 x 12

Models:

*NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
KCO PLUS LPV	✓	✓		
KCL PLUS LPV	✓	✓	✓	
K PLUS LPV	✓	✓	✓	Pulse / 4-20mA
KMS DC LPV	✓	✓	✓	
KMS MF LPV	✓	✓	✓	Pulse / 4-20mA
KMS CL LPV	✓	✓	✓	Chlorine Probe **
KMS RH LPV	✓	✓	✓	ORP Probe **
KMS PH LPV	✓	✓	✓	PH Probe **
KMS EN LPV	✓	✓	✓	Built-In Timer

Options:

Valves & O-rings in alternative materials, alternative voltages, selection of colours.

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EMEC AMS Series
Metering Pumps

Standard Features:

- Microprocessor Technology
- Analogue Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

The AMS analogue series metering pumps are similar in function to the K series, but for larger applications. The AMS analogue series features microprocessor control for accuracy, manual stroke rate and stroke length adjustment and a range of process input signals depending on the model.

All pumps are supplied with suction tubing, discharge tubing, foot valve, injection valve. A low level float switch and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
2505	25	5	0.7	3/8	4 x 6	4 x 6
1510	15	10	1.4	3/8	4 x 6	4 x 6
1015	10	15	2.1	1/2	6 x 8	6 x 8
0720	7	20	2.8	1/2	6 x 8	6 x 8
0340	3	40	5.6	3/4	8 x 12	8 x 10
0260	2	60	7.7	3/4	8 x 12	8 x 10

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMS CO PLUS	✓	✓		
AMS CL PLUS	✓	✓	✓	
AMS PLUS	✓	✓	✓	Pulse / 4-20mA

Options:

Liquid ends, valves & O-rings in alternative materials, alternative voltages, liquid ends for viscous media, selection of colours.

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2

EMEC AMSA Series
Self Venting Metering Pumps

Standard Features:

- Microprocessor Technology
- Analogue Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The AMSA analogue series metering pumps are similar in function to the K series, but for larger applications. The AMSA is the same as the AMS, but features a self venting function, to ensure reliable operation with liquids that emit gasses.

All pumps are supplied with suction tubing, discharge tubing, foot valve and injection valve. A low level float switch and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
2503.2	25	3.2	0.44	3/8	4 x 6	4 x 6
1506	15	6	0.83	3/8	4 x 6	4 x 6
1010	10	10	1.40	1/2	6 x 8	6 x 8
0713	7	13	1.81	1/2	6 x 8	6 x 8
0330	3	30	4.17	3/4	8 x 12	8 x 10
0238.5	2	38.5	5.35	3/4	8 x 12	8 x 10

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMSA CO PLUS	✓	✓		
AMSA CL PLUS	✓	✓	✓	
AMSA PLUS	✓	✓	✓	Pulse / 4-20mA

Options:

Liquid ends, valves & O-rings in alternative materials, liquid ends for viscous media, alternative voltages, selection of colours.

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EMEC AMS Digital Series
Metering Pumps

Standard Features:

- Microprocessor Technology
- Digital Display
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The AMS digital series metering pumps feature smart microprocessor controls, providing outstanding accuracy with quartz timing, and EEPROM storage of data and settings during power outages. An LCD display is utilised for display of measured values, stroking rates, and assists with pump setup and calibration functions. A variety of input signals can be accepted depending on the model, see below.

All pumps are supplied with suction and discharge tubing, foot valve, injection valve, and low level float switch in PVDF. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
2505	25	5	0.7	3/8	4 x 6	4 x 6
1510	15	10	1.4	3/8	4 x 6	4 x 6
1015	10	15	2.1	1/2	6 x 8	6 x 8
0720	7	20	2.8	1/2	6 x 8	6 x 8
0340	3	40	5.6	3/4	8 x 12	8 x 10
0260	2	60	7.7	3/4	8 x 12	8 x 10

Models:

*NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMS MF	✓	✓		Pulse / 4-20mA
AMS RH	✓	✓	✓	ORP Probe **
AMS PH	✓	✓	✓	PH Probe **

Options:

Liquid ends, valves & O-rings in alternative materials, liquid ends for high viscosity, alternative voltages. Selection of colours.

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2

EMEC AMSA Digital Series
Self Venting Metering Pumps

Standard Features:

- Microprocessor Technology
- Digital Display
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End and Accessories in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The AMSA digital series metering pumps feature smart microprocessor controls, providing outstanding accuracy with quartz timing. An LCD display is utilised for display of measured values, stroking rates, and assists with pump setup and calibration functions. A variety of input signals can be accepted depending on the model, see below. The AMSA series metering pumps have a self venting liquid end fitted. For medias that emit gasses, the self priming function ensures reliable metering.

All pumps are supplied with suction and discharge tubing, foot valve, injection valve, and low level float switch in PVDF. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
2503.2	25	3.2	0.44	3/8	4 x 6	4 x 6
1506	15	6	0.83	3/8	4 x 6	4 x 6
1010	10	10	1.4	1/2	6 x 8	6 x 8
0713	7	13	1.81	1/2	6 x 8	6 x 8
0330	3	30	4.17	3/4	8 x 12	8 x 10
0238.5	2	38.5	5.35	3/4	8 x 12	8 x 10

Models:

*NOTE: Probes sold separately ***

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMSA MF	✓	✓		Pulse / 4-20mA
AMSA RH	✓	✓	✓	ORP Probe **
AMSA PH	✓	✓	✓	PH Probe **

Options:

Liquid ends, valves & O-rings in alternative materials, liquid ends for viscous media, alternative voltages, selection of colours.

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EMEC AMS LPV Series
Metering Pumps for Viscous Media – up to 8000cPs

Standard Features:

- Microprocessor Technology
- Digital Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End in PMMA
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The AMS-LPV series metering pumps provide a high quality option with digital controls. These pumps provide advanced features and control options. AMS-LPV series pumps feature dosing heads that are modified to handle viscous media up to 8000cPs. A range of input signals can be used depending on the model (see below).

All pumps are supplied with suction and discharge tubing and injection valve. Control cables are also included where relevant.

Note: Flow may change according to viscosity. Indicated flow rates measured with water.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Suction Tube ID x OD	Discharge Tube ID x OD
2505	25	5	0.7	3/4	16 x 22	8 x 12
1510	15	10	1.4	3/4	16 x 22	8 x 12
1015	10	15	2.1	3/4	16 x 22	8 x 12
0720	7	20	2.8	3/4	16 x 22	8 x 12
0340	3	40	5.6	3/4	16 x 22	8 x 12
0260	2	60	7.7	3/4	16 x 22	8 x 12

Models:

*NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMS CO PLUS LPV	✓	✓		
AMS CL PLUS LPV	✓	✓	✓	
AMS PLUS LPV	✓	✓	✓	Pulse / 4-20mA
AMS MF LPV	✓	✓	✓	Pulse / 4-20mA
KMS RH LPV	✓	✓	✓	ORP Probe **
KMS PH LPV	✓	✓	✓	PH Probe **

Options:

Liquid ends, valves & O-rings in alternative materials, alternative voltages, selection of colours.

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EMEC AMS P Series
Metering Pumps for Viscous Media – up to 50,000cPs

Standard Features:

- Microprocessor Technology
- Analogue Controls
- Stroke Length Adjustment 0-100%
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End in PMMA
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The AMS-P series metering pumps are specifically designed for handling very high viscosity liquids.

A variety of input signals can be accepted depending on the model, see below.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Suction Tube ID x OD	Discharge Tube ID x OD
0802	8	2	0.28	20 x 27	16 x 22
0604	6	4	0.56	20 x 27	16 x 22
0410	4	10	1.4	20 x 27	16 x 22
0225	2	25	3.5	20 x 27	16 x 22
0140	1	40	5.6	20 x 27	16 x 22

Models:

**NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
AMSP CO PLUS	✓	✓		
AMSP PLUS	✓	✓	✓	Pulse / 4-20mA
AMSP MF	✓	✓	✓	Pulse / 4-20mA
AMSP RH	✓	✓	✓	ORP Probe **
AMSP PH	✓	✓	✓	PH Probe **

Options:

Valves & O-rings in alternative materials, alternative voltages, selection of colours.

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EMEC T Series
Metering Pumps

Standard Features:

- Wall Mounting
- Microprocessor Technology
- Analogue or Digital Control Options
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene, PP or SS
- Liquid End in PVDF
- Level of Protection IP65
- 2 Year Warranty*

emec
SIMPLE AS WATER

The T series metering pumps provide a simple, economical solution for larger applications, in a convenient wall mounting option.

All pumps are supplied with suction and discharge tubing, foot valve and injection valve. Control cables and low level chemical floats are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Suction Tube ID x OD	Discharge Tube ID x OD
2005	20	5	0.7	4 x 6	4 x 6
0515	5	15	2.1	6 x 8	6 x 8
0420	4	20	2.8	6 x 8	6 x 8
0330	3	30	4.2	8 x 12	8 x 10
0150	1	50	7	8 x 12	8 x 10
00100	0	100	14	12 x 18	12 x 18

Models:

*NOTE: Probes sold separately ***

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
T CO		✓		
T CL		✓	✓	
TMS DC		✓	✓	
TMS MF		✓	✓	Pulse / 4-20mA
TMS RH		✓	✓	ORP Probe **
TMS PH		✓	✓	PH Probe **

Options:

Alternative voltages, liquid ends, valves & O-rings in alternative materials, selection of colours.

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2

EMEC TA Series
Self Venting Metering Pumps

Standard Features:

- Wall Mounting
- Microprocessor Technology
- Analogue or Digital Control Options
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End in PVDF, PP or SS
- Level of Protection IP65
- 2 Year Warranty*

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SIMPLE AS WATER

The TA series metering pumps provide a simple, economical solution for larger applications, in a convenient wall mounting option.

Fitted with a self venting head to ensure reliable Chlorine service.

All pumps are supplied with suction and discharge tubing, foot valve and injection valve. Control cables and low level chemical floats are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Suction Tube ID x OD	Discharge Tube ID x OD
2003.2	20	3.2	0.44	4 x 6	4 x 6
0510	5	10	1.39	6 x 8	6 x 8
0413	4	13	1.8	6 x 8	6 x 8
0320	3	20	2.7	8 x 12	8 x 10
0135	1	35	7.4	8 x 12	8 x 10

Models:

**NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
TA CO		✓		
TA CL		✓	✓	
TMSA DC		✓	✓	
TMSA MF		✓	✓	Pulse / 4-20mA
TMSA RH		✓	✓	ORP Probe **
TMSA PH		✓	✓	PH Probe **

Options:

Alternative voltages, liquid ends, valves & O-rings in alternative materials.

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EMEC TP Series
Metering Pumps for Viscous Media - up to 50,000cPs

Standard Features:

- Wall Mounting
- Microprocessor Technology
- Analogue or Digital Control Options
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid End in PMMA
- Level of Protection IP65
- 2 Year Warranty*

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The T P series metering pumps are fitted with a high viscosity liquid end, to handle liquids up to 50,000cPs.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Suction Tube ID x OD	Discharge Tube ID x OD
0601	6	1	0.14	20 x 27	16 x 22
0403	4	3	0.42	20 x 27	16 x 22
0208	2	8	1.2	20 x 27	16 x 22
0120	1	20	2.8	20 x 27	16 x 22
0.525	0.5	25	3.5	20 x 27	16 x 22

Models:

*NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
TP CO		✓		
TMSP DC		✓	✓	
TMSP MF		✓	✓	Pulse / 4-20mA
TMSA RH		✓	✓	ORP Probe **
TMSA PH		✓	✓	PH Probe **

Options:

Alternative voltages, liquid ends, valves & o-rings in alternative materials.

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2

EMEC V Series
Metering Pumps

Standard Features:

- Wall Mounting
- Analogue Controls
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

The V series metering pumps provide effective metering in an economical wall mounting format. These units are commonly used in swimming pools, heating and cooling systems and on rural water supplies.

All pumps are supplied with suction tubing, discharge tubing, foot valve and injection valve. Low level float switches and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Tube Size ID x OD
2001	20	1	0.1	4 x 8
1802	18	2	0.19	4 x 8
1804	18	4	0.37	4 x 8
1502	15	2	0.19	4 x 6
1504	15	4	0.37	4 x 6
1505	15	5	0.46	4 x 6
1004	10	4	0.37	4 x 6
1005	10	5	0.46	4 x 6
1010	10	10	0.93	4 x 6
0706	7	6	0.56	4 x 6
0510	5	10	0.93	4 x 6
0512	5	12	1.11	4 x 6
0501	5	1	0.1	4 x 6
0408	4	8	0.74	4 x 6
0310	3	10	0.93	4 x 6
0215	2	15	1.38	6 x 8
0116	1	16	1.48	6 x 8

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
VCO		✓		
VCL		✓	✓	

Options:

Liquid ends and O-rings in alternative materials, alternative voltages.

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EMEC VA Series
Self Venting Metering Pumps

Standard Features:

- Wall Mounting
- Analogue Controls
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

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The VA series metering pumps feature self venting heads to ensure reliable dosing for medias that release gasses during pumping.

All pumps are supplied with suction tubing, discharge tubing, foot valve and injection valve. Low level float switches and control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Tube Size ID x OD
1802	18	2	0.19	4 x 8
1503	15	3	0.28	4 x 6
1501	15	1	0.10	4 x 6
1003.4	10	3.4	0.32	4 x 6
1007	10	7	0.65	4 x 6
1002	10	2	0.19	4 x 6
1000.5	10	0.5	0.05	4 x 8
0704	7	4	0.37	4 x 6
0507.5	5	7.5	0.70	4 x 6
0509	5	9	0.84	4 x 6
0405.5	4	5.5	0.51	4 x 6
0307	3	7	0.65	4 x 6
0212	2	12	1.11	6 x 8
0113.5	1	13.5	1.25	6 x 8

Models:

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
VA CO		✓		
VA CL		✓	✓	

Options:

Liquid ends and O-rings in alternative materials, alternative voltages.

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EMEC VMS Digital Series
Metering Pumps

Standard Features:

- Wall Mounting
- Digital Controls
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

The VMS Digital series metering pumps feature microprocessor control, a digital display and digital controls in a compact wall mounting format.

All pumps are supplied with suction and discharge tubing, foot valve and injection valve, and low level float switch in PVDF. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Tube Size ID x OD
2001	20	1	0.1	4 x 8
1802	18	2	0.19	4 x 8
1804	18	4	0.37	4 x 8
1502	15	2	0.19	4 x 6
1504	15	4	0.37	4 x 6
1505	15	5	0.46	4 x 6
1004	10	4	0.37	4 x 6
1005	10	5	0.46	4 x 6
1010	10	10	0.93	4 x 6
0706	7	6	0.56	4 x 6
0510	5	10	0.93	4 x 6
0512	5	12	1.11	4 x 6
0501	5	1	0.1	4 x 6
0408	4	8	0.74	4 x 6
0310	3	10	0.93	4 x 6
0215	2	15	1.38	6 x 8
0116	1	16	1.48	6 x 8

Models:

*NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
VMS MF		✓	✓	Pulse / 4-20mA
VMS PO		✓	✓	ORP or pH **
VMS EN			✓	Built-In Timer

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EMEC VMSA Digital Series
Self Venting Metering Pumps

Standard Features:

- Wall Mounting
- Digital Controls
- Stroke Rate Adjustment 0-100%
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

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The VMSA series metering pumps feature microprocessor controls and advanced functions as described below.

All pumps are supplied with suction tubing, discharge tubing, foot valve, injection valve and low level float switch. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Tube Size ID x OD
1802	18	2	0.19	4 x 8
1503	15	3	0.28	4 x 6
1501	15	1	0.10	4 x 6
1003.4	10	3.4	0.32	4 x 6
1007	10	7	0.65	4 x 6
1002	10	2	0.19	4 x 6
1000.5	10	0.5	0.05	4 x 8
0704	7	4	0.37	4 x 6
0507.5	5	7.5	0.70	4 x 6
0509	5	9	0.84	4 x 6
0405.5	4	5.5	0.51	4 x 6
0307	3	7	0.65	4 x 6
0212	2	12	1.11	6 x 8
0113.5	1	13.5	1.25	6 x 8

Models:

NOTE: Probes sold separately **

Model	Stroke Length Adjustment	Stroke Speed Adjustment	Float Switch	Input
VMSA MF		✓	✓	Pulse / 4-20mA
VMSA PO		✓	✓	ORP or pH **
VMSA EN			✓	Built-In Timer

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2

EMEC WD Series
Dual Pump with Built-In Controllers for Swimming Pools

Standard Features:

- Wall Mounting
- Measurement and Control of Two Parameters Simultaneously
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Flow l/h	Valve Size BSP inch	Tube Size ID x OD
0310	3	10	3/8	4 x 6
0706	7	6	3/8	4 x 6
0307	3	7	3/8	4 x 6
0501	5	1	3/8	4 x 6

Models:

Model	Function
WDPHRH	Swimming pool controller for pH(0-14) and redox (0-1000mV), with 2 x metering pumps for acid and disinfectant. LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.
WDPHCL	Swimming pool controller for pH(0-14) and chlorine or bromine (0-10PPM), with 2 x metering pumps for acid and disinfectant. LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.
WDPHCF	Swimming pool controller for measuring pH(0-14) and chlorine (0-10PPM) with 2 x metering pumps for acid and flocculant, plus electric valve output (eg: salt water chlorinator or chlorine gas), LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.
WDPHCA	Swimming pool controller for measuring pH(0-14) and chlorine (0-10PPM), with 2 x metering pumps for acid and algaecide, plus electric valve output (eg: for salt water chlorinator or chlorine gas control), weekly timer for algaecide dosing, LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.
WDPHOS	Swimming pool controller for measuring pH(0-14) and temperature (0-100 degrees C), with 2 x metering pumps for acid and Hydrogen Peroxide, LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pump heads and accessories in PVDF.
WDPHRHS	Swimming pool controller for measuring pH(0-14) and ORP (0-1000mV), with 1x metering pump for acid and output socket for chlorine generator, LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.
WDPHCLS	Swimming pool controller for measuring pH(0-14) and chlorine/bromine (0-10mg/l Cl2), with 2x metering pump for acid and chlorine/bromine, plus output for chlorine generator (hydrolysis), LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.

Options:

Self venting heads fitted on request. Optional remote control by ERMES. Probes sold separately.

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EMEC WH Series
Dual Pump with Built-In Controllers for Swimming Pools

Standard Features:

- Wall Mounting
- Measurement and Control of Two Parameters Simultaneously
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

NEW:
- Auto Learning Function for Easy Set Up

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Sizes:

Model	Pressure Bar	Flow l/h	Valve Size BSP inch	Tube Size ID x OD
0310	3	10	3/8	4 x 6
0706	7	6	3/8	4 x 6
0307	3	7	3/8	4 x 6
0501	5	1	3/8	4 x 6

Models:

Model	Function
WHPHRH	Swimming pool controller for pH(0-14) and redox (0-1000mV), with 2 x metering pumps for acid and disinfectant. LCD backlit display, alarm output, maximum dosing time alarm, probe check function, pH priority dosing, pump heads and accessories in PVDF.

Options:

Self venting heads fitted on request. Optional remote control by ERMES. Probes sold separately.

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2

EMEC WTC Series
Dual Pump With Built-In Controller for Cooling Towers

Standard Features:

- Wall Mounting
- Conductivity Measurement and Blowdown Control
- Built-In Biocide Timers
- With Two Integral Dosing Pumps
- Housing in Polypropylene
- Liquid Ends and Accessories in PVDF or PP
- Level of Protection IP65
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Flow l/h	Valve Size BSP inch	Tube Size ID x OD
0310	3	10	3/8	4 x 6
0706	7	6	3/8	4 x 6
0307	3	7	3/8	4 x 6
0501	5	1	3/8	4 x 6

Models:

Model	Function
WTC	Cooling tower controller with conductivity input (probe included). Features bleed control and pre-bleed options. Two built-in pumps can be configured to be driven by external flow meter (e.g. makeup), percentage mode, PPM mode, 1-4 week timer or feed and bleed. Additional output (timer controlled).
WTC IND	Cooling tower controller with inductive conductivity probe. Features bleed control and pre-bleed options. All pumps can be configured to be driven by external flow meter (e.g. makeup), percentage mode, PPM mode, 1-4 week timer or feed and bleed.

Options:

Choose pump capacity. Self venting heads fitted on request. Optional remote control by ERMES. Probes sold separately.

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EMEC F Series
Metering Pumps

Standard Features:

- Stroke Rate Adjustment 0-100%
- Chemical Level Switch Input
- Housing and Liquid Ends in Polypropylene
- Level of Protection IP65
- PTFE Diaphragm
- 2 Year Warranty*

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The F series metering pumps provide effective metering in a low cost wall mounting configuration. These popular units are often applied in swimming pools, cooling and heating circuits and in horticulture.

The F series pumps were superseded by the V series (see pages 15-18) over 10 years ago. However F series pumps remained so popular that EMEC continues to make them.

They have a smaller footprint than the V series, making them useful for squeezing into tight spaces.

All pumps are supplied with suction and discharge tubing, foot valve, injection valve and low level float switch. Control cables are also included where relevant.

Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
1201.5	12	1.5	0.17	3/8	4 x 6
1002.2	10	2.2	.25	3/8	4 x 6
0703	7	3	0.34	3/8	4 x 6
0505	5	5	0.56	3/8	4 x 6
0306.5	3	6.5	0.72	3/8	4 x 6
0308.5	3	8.5	0.95	3/8	4 x 6

Models:

Model	Function
FCL	Manual setup with low level float switch.
FPVM	F pump with external pulse input signal, built-in pulse multipliers/dividers.
FEN	Digital version with built-in time clock.

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SECTION 3   Peristaltic Metering Pumps

3

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3

EMEC V Series
Peristaltic Metering Pumps

Standard Features:

- Low Cost Valve-less Metering Pumps
- 12 Month Warranty*

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VPESR   VPER002

Each pump is supplied with a foot-valve, injection valve, and 4m of PVC suction or discharge tubing.

Models:

Model	Pressure Bar	Flow l/h	Maximum Operating Time minutes	Maximum Duty Cycle	Tube Size ID x OD
VPESR2	0.5	2	30	50%	4 x 6 PVC
VPESR00.8	0.5	0.8	30	50%	4 x 6 PVC
VPER002	0.5	0.154 - 2.0	30	50%	4 x 6 PVC

Peristaltic pumps use rotating rollers to compress a flexible tube, creating positive displacement. This produces an effective valve-less pump which is self priming. This pump is a low cost option, but it is limited to applications where operation is intermittent, and where there is minimal back pressure.

Model VPESR features constant output with no control.   Model VPER2 has a built in timer, on time and off time are independently adjustable from 5 to 60 seconds.

Applications include cooling towers, rinse baths, fountains and swimming pools.

Please call and discuss your application, so we can determine if a peristaltic pump is the right solution for you.

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3

EMEC F Series
Peristaltic Metering Pumps

Standard Features:

- Low Cost Valve-less Metering Pumps
- 12 Month Warranty*

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FPESR   FPER002

Each pump is supplied with a foot-valve, injection valve, and 4m of PVC suction or discharge tubing.

Models:

Model	Pressure Bar	Flow l/h	Maximum Operating Time minutes	Maximum Duty Cycle	Tube Size ID x OD
FPESR2	0.5	2	30	50%	4 x 6 PVC
FPESR00.8	0.5	0.8	30	50%	4 x 6 PVC
FPER002	0.5	0.154 - 2.0	30	50%	4 x 6 PVC

Peristaltic pumps use rotating rollers to compress a flexible tube, creating positive displacement. This produces an effective valve-less pump which is self priming. This pump is a low cost option, but it is limited to applications where operation is intermittent, and where there is minimal back pressure.

Model FPESR features constant output with no control. Model FPER2 has a built in timer, on time and off time are independently adjustable from 5 to 60 seconds.

Applications include cooling towers, rinse baths, fountains and swimming pools.

Please call and discuss your application, so we can determine if a peristaltic pump is the right solution for you.

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3

ALLAQUA
Peristaltic Metering Pump

Standard Features:

- Low Cost Valve-less Metering Pump
- Adjustable Flow Output
- Small Footprint 100 x 106mm
- Easy Mount Wall Bracket
- 12 Month Warranty*

Each pump is supplied with a foot-valve, non return valve, wall bracket, suction and discharge tubing.

Models:

Model	Pressure Bar	Flow l/h	Maximum Operating Time hours	Maximum Duty Cycle	Tube Size ID x OD
AP2.2A	2	0 to 2.2	4	50%	4 x 6 PVC

Peristaltic pumps use rotating rollers to compress a flexible tube, creating positive displacement. This produces an effective valve-less pump which is self priming. This pump is a low cost option, but it is limited to applications where operation is intermittent, and where there is minimal back pressure.

Applications include cooling towers, rinse baths, fountains and swimming pools.

Please call and discuss your application, so we can determine if a peristaltic pump is the right solution for you.

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SECTION 4

Pneumatic Metering Pumps

SECTION 4   Pneumatic Metering Pumps

4

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4

EMEC RAC Series
Pneumatic Metering Pumps

Standard Features:

- Driven by Compressed Air
- Manual Stroke Length Adjustment from 0-100%
- Liquid End in Polypropylene
- O-Ring Seals in EPDM, Viton or Nitrile
- Diaphragm in PTFE
- Wall or Din Rail Mounting
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
0601	6	1	0.14	1/2	4 x 6 / 6 x 8
0603	6	3	0.42	1/2	4 x 6 / 6 x 8
0606	6	6	0.83	1/2	4 x 6 / 6 x 8
0612	6	12	1.66	1/2	4 x 6 / 6 x 8

Models:

Model	Function
RAC	Standard
RACV	Integral Solenoid Valve
RACP	Priming Button

Specifications:

Max 120 strokes per minute.
Working environment: –10 to +50 degrees C.

Air requirements: 2.4 litres per minute at 6-8 Bar.

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4

EMEC AMS AC Series
Pneumatic Metering Pumps

Standard Features:

- Driven by Compressed Air
- Stroke Length Adjustment from 0-100%
- Stroke Frequency Adjustment from 0-100%
- Liquid End in PVDF
- O-Ring Seals in EPDM, Viton or Nitrile
- Diaphragm in PTFE
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
1050	10	50	7	1/2	8 x 10 / 8 x 12
05140	5	140	19	3/4	13 x 16 / 12 x 18
00220	0	220	30	3/4	13 x 16 / 12 x 18

Models:

Model	Function
A AC CO	Constant output pump with stroke speed and stroke length adjustment.
A AC CL	Constant output pump with stroke speed and stroke length adjustment and level probe.
AMS AC MF	Digital multifunction pump, constant, pulse, divide, multiply, PPM, batch, volt, mA, %, ml/q, standby, flow sensor input, alarm output, level control.

Options:

Liquid ends and accessories in alternative materials.

NOTE: Use compressed air from 6-10 bar without lubricant or water.

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4

EMEC TAC Series
Pneumatic Metering Pumps

Standard Features:

- Driven by Compressed Air
- Stroke Frequency Adjustment from 0-100%
- Liquid End in PVDF
- O-Ring Seals in EPDM, Viton or Nitrile
- Diaphragm in PTFE
- 2 Year Warranty*

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Sizes:

Model	Pressure Bar	Flow l/h	Cc/Stroke	Valve Size BSP inch	Tube Size ID x OD
1050	10	50	7	1/2	8 x 10 / 8 x 12
05150	5	150	20	3/4	13 x 16 / 12 x 18
00230	0	230	32	3/4	13 x 16 / 12 x 18

Models:

Model	Function
T AC CO	Constant output pump with stroke speed adjustment.
T AC CL	Constant output pump with stroke speed adjustment. And level probe
TMS AC MF	Digital multifunction pump. Modes: constant, pulse, divide, multiply, PPM, batch, volt, mA, %, ml/q, standby, flow sensor input, alarm output, level control.

Options:

Liquid ends and accessories in alternative materials.

NOTE: Use compressed air from 6-10 bar without lubricant or water.

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SECTION 5   Motor Driven Metering Pumps

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5

EMEC PRIUS D
Diaphragm Metering Pumps

Standard Features:

- Positive Displacement Pump with Spring Return Mechanism
- Stroke Length Adjustable from 0-100%
- Dosing Heads in PVDF, PP and SS
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Manual Degassing Valve (PVDF & PP)
- Single Phase or 3 Phase
- Double Ball Check Valves
- ATEX (Explosive Atmosphere) Certified Versions also Available on Request
- 2 Year Warranty*

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PRIUS

Robust and accurate, these industrial quality pumps have been developed for reliable metering in larger commercial and industrial applications. With pressure capabilities up to 100 Bar and flow rates up to 1000 l/h, there is a PRIUS model suitable for most applications.

Specifications:

Power Supply	220-240V Single phase or 400V three phase
Chemical Temperature for PVDF**	-10 to 65°C
Chemical Temperature for SS**	-10 to 90°C
Chemical Temperature for PP	-10 to 40°C
Insulation	Class 2
Protection	IP55 standard, IP65 motor extra
Audible Level	78 dba (±5)
Max Suction Height	3M
Oil Capacity	0.3L

NOTE: ** Maximum Temperature can be exceeded for a short time during CIP.
Protection against blocked discharge is recommended for motor pumps.

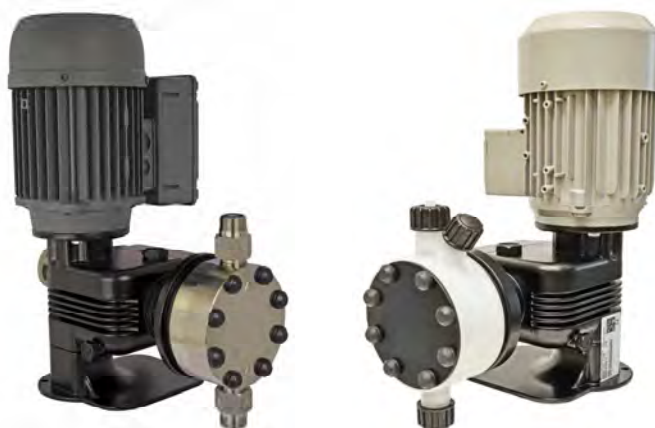*Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

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EMEC PRIUS D
Diaphragm Metering Pumps

5

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Installation Kit
010012	10	12	35	PVDF, SS, PP	A (Included)
010016 *	10	16	35	PVDF, SS, PP	A (Included)
010021	10	21	35	PVDF, SS, PP	A (Included)
010024	10	24	70	PVDF, SS, PP	A (Included)
010030	10	30	94	PVDF, SS, PP	A (Included)
007032	7	32	35	PVDF, SS, PP	A (Included)
010042	10	42	70	PVDF, SS, PP	A (Included)
005048	5	48	35	PVDF, SS, PP	B
010056	10	56	94	PVDF, SS, PP	A (Included)
010060	10	60	175	PVDF, SS, PP	A (Included)
007064	7	64	70	PVDF, SS, PP	A (Included)
005070	5	70	35	PVDF, SS, PP	C
007086	7	86	94	PVDF, SS, PP	A (Included)
005088	5	88	35	PVDF, SS, PP	C
005096	5	96	70	PVDF, SS, PP	B
010105	10	105	175	PVDF, SS, PP	A (Included)
005106	5	106	35	PVDF, SS, PP	C
005128	5	128	94	PVDF, SS, PP	B

*** 3 phase only**

More sizes next page

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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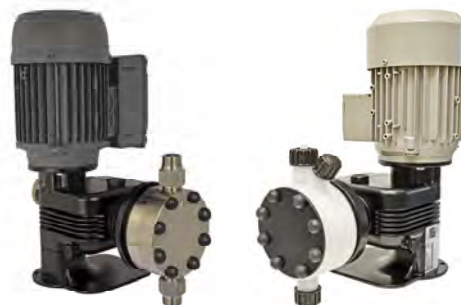09 281 1865 • sales@aquasales.co.nz • www.aquasales.co.nz

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EMEC PRIUS D
Diaphragm Metering Pumps

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Installation Kit
005140	5	140	70	PVDF, SS, PP	C
005141	5	141	35	PVDF, SS, PP	C
007160	7	160	175	PVDF, SS, PP	A (Included)
005176	5	176	70	PVDF, SS, PP	C
005180 *	5	180	35	PVDF, SS, PP	C
005188	5	188	94	PVDF, SS, PP	C
005212	5	212	70	PVDF, SS, PP	C
005236	5	236	94	PVDF, SS, PP	C
005240	5	240	175	PVDF, SS, PP	B
005284	5	284	94	PVDF, SS, PP	C
005290 *	5	290	70	PVDF, SS, PP	C
005350	5	350	175	PVDF, SS, PP	C
005380 *	5	380	94	PVDF, SS, PP	C
005390 *	5	390	70	PVDF, SS, PP	C
005440	5	440	175	PVDF, SS, PP	C
004520 *	4	520	94	PVDF, SS, PP	C
005520 *	5	520	94	PVDF, SS, PP	C
005530	5	530	175	PVDF, SS, PP	C
003750 *	3	750	175	PVDF, SS, PP	C
005750 *	5	750	175	PVDF, SS, PP	C
002M00 *	2	1000	175	PVDF, SS, PP	C
005M00 *	5	1000	175	PVDF, SS, PP	C

* * 3 phase only*

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D AP
High Pressure Diaphragm Metering Pumps

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW
10001.5	100	1.5	70	SS	0.37
100002	100	2	94	SS	0.37
05002.5	50	2.5	35	SS	0.37
100004	100	4	175	SS	0.37
030005	30	5	35	SS	0.37
050005	50	5	70	SS	0.37
020006 *	20	6	35	PVDF	0.37
050009	50	9	94	SS	0.37
030010	30	10	70	SS	0.37
020012 *	20	12	94	PVDF	0.37
030014	30	14	94	SS	0.37
030015	30	15	35	SS	0.37
020016 *	20	16	70	PVDF	0.37
050017	50	17	175	SS	0.37
030028	30	28	175	SS	0.37
020030 *	20	30	35	PVDF	0.37
030030	30	30	70	SS	0.37
020034	20	34	35	SS	0.37
030041	30	41	94	SS	0.37
020068	20	68	70	SS	0.37
030076	30	76	175	SS	0.37
020091	20	91	94	SS	0.37, 0.55
020170	20	170	175	SS	0.37, 0.55

*** 3 phase only**

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D MF
Diaphragm Metering Pumps

Standard Features:

- Motor Driven Diaphragm Pump with Built-in Speed Control
- Stroke Length Adjustable from 0-100%
- Level Control
- Alarms
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Manual Degassing Valve
- Single Phase Supply
- Modbus Option Available
- 2 Year Warranty*

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PRIUS

Alternate   Default

The PRIUS D is also available in a MF version. With sophisticated electronics built-in, these versatile pumps can accept a range of standard process signals for automatic speed control. With pressure capabilities up to 100 Bar and flow rates up to 1000 l/h, there is a PRIUS model suitable for most applications.

Options:

Power Supply	220 - 240VAC 1PH
Pump Heads Available in	PVDF, PP or SS
Chemical temperature for PVDF	-10 to 65°C
Chemical temperature for SS	-10 to 90°C
Chemical temperature for PP	-10 to 40°C
Insulation	Class 2
Protection	IP55 (IP65 also available)
Audible Level	78 dba (±5)
Max Suction Height	3M
Oil Capacity	0.3L
Operating Modes	Constant, PPM, %, mlq, mA, volt, batch, pause/Work, low Chemical Level Input, alarm output, standby Input

NOTE: Protection against blocked discharge is recommended for motor pumps.

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EMEC PRIUS D MF
Diaphragm Metering Pumps

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW	Installation Kit
010012	10	12	35	PVDF, SS, PP	0.18	A (Included)
010016	10	16	35	PVDF, SS, PP	0.18	A (Included)
010021	10	21	35	PVDF, SS, PP	0.37	A (Included)
010024	10	24	70	PVDF, SS, PP	0.18	A (Included)
010030	10	30	94	PVDF, SS, PP	0.18	A (Included)
007032	7	32	35	PVDF, SS, PP	0.37	A (Included)
010042	10	42	70	PVDF, SS, PP	0.37	A (Included)
005048	5	48	35	PVDF, SS, PP	0.37	B
010056	10	56	94	PVDF, SS, PP	0.37	A (Included)
010060	10	60	175	PVDF, SS, PP	0.18	A (Included)
007064	7	64	70	PVDF, SS, PP	0.37	A (Included)
005070	5	70	35	PVDF, SS, PP	0.37	C
007086	7	86	94	PVDF, SS, PP	0.37	A (Included)
005088	5	88	35	PVDF, SS, PP	0.37	C
005096	5	96	70	PVDF, SS, PP	0.37	B
010105	10	105	175	PVDF, SS, PP	0.37	A (Included)
005106	5	106	35	PVDF, SS, PP	0.37	C
005128	5	128	94	PVDF, SS, PP	0.37	B
005140	5	140	70	PVDF, SS, PP	0.37	C
005141	5	141	35	PVDF, SS, PP	0.37	C

More sizes next page

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D MF
Diaphragm Metering Pumps

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Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW	Installation Kit
007160	7	160	175	PVDF, SS, PP	0.37	A (Included)
005176	5	176	70	PVDF, SS, PP	0.37	C
005180	5	180	35	PVDF, SS, PP	0.37	C
005188	5	188	94	PVDF, SS, PP	0.37	C
005212	5	212	70	PVDF, SS, PP	0.37	C
005236	5	236	94	PVDF, SS, PP	0.37	C
005240	5	240	175	PVDF, SS, PP	0.37	B
005284	5	284	94	PVDF, SS, PP	0.37	C
005290	5	290	70	PVDF, SS, PP	0.37	C
005350	5	350	175	PVDF, SS, PP	0.37	C
005380	5	380	94	PVDF, SS, PP	0.37	C
005390	5	390	70	PVDF, SS, PP	0.37	C
005440	5	440	175	PVDF, SS, PP	0.37	C
004520	4	520	94	PVDF, SS, PP	0.37	C
005530	5	530	175	PVDF, SS, PP	0.37	C
003750	3	750	175	PVDF, SS, PP	0.37	C
002M00	2	1000	175	PVDF, SS, PP	0.37	C

NOTE: B & C Installation Kits - sold separately when required for application. Installation kits do not fit SS pumps.

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EMEC PRIUS D MF AP
High Pressure Diaphragm Metering Pumps

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Pump Head	Motor Size kW
10001.5	100	1.5	70	SS	0.37
100002	100	2	94	SS	0.37
05002.5	50	2.5	35	SS	0.37
100004	100	4	175	SS	0.37
050005	50	5	70	SS	0.37
030005	30	5	35	SS	0.37
050009	50	9	94	SS	0.37
030010	30	10	70	SS	0.37
030014	30	14	35	SS	0.37
030015	30	15	94	SS	0.37
050017	50	17	175	SS	0.37
030028	30	28	175	SS	0.37
030030	30	30	70	SS	0.37
020034	20	34	94	SS	0.37
030041	30	41	94	SS	0.37
020068	20	78	94	SS	0.37
030076	30	76	175	SS	0.37
020091	20	91	94	SS	0.37
020170	20	170	175	SS	0.37

NOTE: Accessories for SS pumps are ordered separately.

Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

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EMEC PRIUS P
Plunger Metering Pumps

Standard Features:

- PP or SS Pump Head
- Stainless or Ceramic Plunger
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Stroke Length Adjustable from 0-100%
- ATEX (Explosive Atmosphere) Versions also available
- 220-240VAC Single Phase or 230/400V 3 Phase
- 2 Year Warranty*

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Installation Kit
010005	10	5	35	A (Included)
010010	10	10	70	A (Included)
010013	10	13	94	A (Included)
010016	10	16	35	A (Included)
010024	10	24	175	A (Included)
010026	10	26	35	A (Included)
010032	10	32	70	A (Included)
010042	10	42	35	B
010043	10	43	94	A (Included)
010052	10	52	70	A (Included)
010064	10	64	35	B
010070	10	70	94	A (Included)
010080	10	80	175	A (Included)
010084	10	84	70	B
007101	7	101	35	C
010113	10	113	94	B
010128	10	128	70	B
010130	10	130	175	A (Included)
010172	10	172	94	B
007203	7	203	70	C
010210	10	210	175	B
007273	7	273	94	C
010320	10	320	175	B
007508	7	508	175	C

NOTE: B & C Installation Kits - sold separately when required for application.

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5

EMEC PRIUS P MF
Plunger Metering Pumps

Standard Features:

- Motor Driven Plunger Pump with Built-in Speed Control
- Stroke length Adjustable from 0-100%
- PP Head with Ceramic Plunger or Stainless Head and Plunger Options
- Working Modes: Constant, PPM,%, mA Volt, Batch
- Level Control
- Alarms
- Aluminium Enclosure with Chemical Resistant Epoxy Coating
- Single Phase Supply
- 2 Year Warranty*

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PRIUS

Sizes:

Model	Pressure Bar	Capacity l/h	Speed SPM	Installation Kit
010005	10	5	35	A (Included)
010010	10	10	70	A (Included)
010013	10	13	94	A (Included)
010016	10	16	35	A (Included)
010024	10	24	175	A (Included)
010026	10	26	35	A (Included)
010032	10	32	70	A (Included)
010042	10	42	35	B
010043	10	43	94	A (Included)
010052	10	52	70	A (Included)
010064	10	64	35	B
010070	10	70	94	A (Included)
010080	10	80	175	A (Included)
010084	10	84	70	B
010113	10	113	94	B
010128	10	128	70	B
010130	10	130	175	A (Included)
010172	10	172	94	B
010210	10	210	175	B
010320	10	320	175	B

NOTE: B & C Installation Kits - sold separately when required for application.
Installation kits do not fit pumps with SS heads.
Protection against blocked discharge is recommended for motor pumps.

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SECTION 6 Metering Pump Accessories

6

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6

EMEC 1/2" Injection Valves

Model	Tube Connection	Body	Seals
073.1062.1	4 x 6	PVDF	VITON
073.1065.1	4 x 6	PVDF	EPDM
073.1111.1	4 x 6	PVDF	WAX
073.1390.1	4 x 6	PP	EPDM
073.1538.1	4 x 6	PP	WAX
073.0888.1	4 x 6	316SS	VITON
073.1078.1	4 x 8	PVDF	VITON
073.1137.1	4 x 8	PVDF	EPDM
073.1167.1	4 x 8	PVDF	WAX
073.1541.1	4 x 8	PP	EPDM
073.1079.1	6 x 8	PVDF	VITON
073.1112.1	6 x 8	PVDF	EPDM
073.1189.1	6 x 8	PVDF	WAX
073.1495.1	6 x 8	PP	EPDM
073.0889.1	6 x 8	316SS	VITON
073.1080.1	8 x 10	PVDF	VITON
073.1135.1	8 x 10	PVDF	EPDM
073.1337.1	8 x 10	PVDF	WAX
073.1081.1	8 x 12	PVDF	VITON
073.1136.1	8 x 12	PVDF	EPDM
073.1606.1	8 x 12	PVDF	WAX
073.1405.1	8 x 12	PP	EPDM
073.1132.1	12 x 18	PVDF	VITON
073.1133.1	12 x 18	PVDF	EPDM
073.1607.1	12 x 18	PVDF	WAX
073.1542.1	12 x 18	PP	EPDM

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1/2" valves feature 1/2" BSP taper thread and 1/4" BSP parallel thread. All springs Hastelloy C - 0.3 Bar. Other spring settings on request. PVDF up to 135°C. PP up to 40°C. PTFE coated spring option for extreme applications.

Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

EMEC 3/4" Injection Valves

Model	Tube Connection	Body	Seals
073.1212.1	8 x 10	PVDF	VITON
073.1213.1	8 x 10	PVDF	EPDM
073.1608.1	8 x 10	PVDF	WAX
073.1543.1	8 x 12	PP	EPDM
073.0008.1	12 x 18	PVDF	VITON
073.0009.1	12 x 18	PVDF	EPDM
073.1609.1	12 x 18	PVDF	WAX
073.1394.1	12 x 18	PP	EPDM
073.1214.1	13 x 16	PVDF	VITON
073.1215.1	13 x 16	PVDF	EPDM
073.1610.1	13 x 16	PVDF	WAX

3/4" valves feature 3/4" BSP taper thread and 3/8" BSP parallel thread.
All springs Hastelloy C - 0.3 Bar. Other spring settings on request.
PVDF up to 135°C, PP up to 40°C.

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6

EMEC 1-1/2" Injection Valves

Model	Tube Connection ID mm	Valve Body	Valve Seals
073.1527.1	18	PVC	VITON
073.1597.1	18	PP	VITON
073.1529.1	32	PVC	VITON
073.1530.1	32	PVC	EPDM

1-1/2" valves feature 1-1/2 inch BSP thread.
All springs Hastelloy C - 0.3 Bar.
Other spring settings on request.
PVC up to 50°C, PP up to 40°C.

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EMEC Injection Lances

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The injection lance allows the injection fitting to be withdrawn, serviced and refitted without depressurising the process line.

Model	Size Inch	Tube Connection	Body	Seals	Temperature	Pressure Bar	Valve
LINI/V 1/2 4x6	1/2	4 x 6	PVDF	VITON	25°C	16	None
LINI/V 1/2 6x8	1/2	6 x 8	PVDF	VITON	25°C	16	None
LINI/V 1/2 8x12	1/2	8 x 12	PVDF	VITON	25°C	16	None
LINI/D 1/2 4x6	1/2	4 x 6	PP	EPDM	25°C	16	None
LINI/D 1/2 6x8	1/2	6 x 8	PP	EPDM	25°C	16	None
LINI/D 1/2 8x12	1/2	8 x 12	PP	EPDM	25°C	16	None
LINIR/V 1/2 4x6	1/2	4 x 6	PVDF	VITON	25°C	16	PVC
LINIR/V 1/2 6x8	1/2	6 x 8	PVDF	VITON	25°C	16	PVC
LINIR/V 1/2 8x12	1/2	8 x 12	PVDF	VITON	25°C	16	PVC
LINIR/D 1/2 4x6	1/2	4 x 6	PP	EPDM	25°C	16	PVC
LINIR/D 1/2 6x8	1/2	6 x 8	PP	EPDM	25°C	16	PVC
LINIR/D 1/2 8x12	1/2	8 x 12	PP	EPDM	25°C	16	PVC
LINIR/K 1/2 4x6	1/2	4 x 6	PVDF	VITON	25°C	16	PVDF
LINIR/K 1/2 6x8	1/2	6 x 8	PVDF	VITON	25°C	16	PVDF
LINI-SS-D 1/2 4x6	1/2	4 x 6	316SS	EPDM	150°C	25	None
LINI-SS-V 1/2 4x6	1/2	4 x 6	316SS	VITON	200°C	25	None
LINIR/V 3/4 8x12	3/4	8 x 12	PVDF	VITON	25°C	25	PVDF
LINIR/D 3/4 8x12	3/4	8 x 12	PVDF	EPDM	25°C	25	PVDF
LINIR-SS 1/2 4x6	1/2	4 x 6	316SS	VITON	200°C	25	316SS

PVDF shaft extensions are available in 5,10 and 15cm lengths.
PVDF coated spring available for chlorine dioxide service.
Available with a range of tube connections.

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EMEC 1/2" Foot Valves
Axial Foot Valve - Without Float Switch

Model	Tube Connection	Valve Body	Valve Seals
074.0570.1	4 x 6	PVDF	VITON
074.0571.1	4 x 6	PVDF	EPDM
074.0572.1	4 x 6	PVDF	WAX
074.0666.1	4 x 6	PP	EPDM
074.0686.1	4 x 6	PP	WAX
074.0576.1	4 x 8	PVDF	VITON
074.0596.1	4 x 8	PVDF	EPDM
074.0643.1	4 x 8	PVDF	WAX
074.0704.1	4 x 8	PP	EPDM
074.0577.1	6 x 8	PVDF	VITON
074.0597.1	6 x 8	PVDF	EPDM
074.0640.1	6 x 8	PVDF	WAX
074.0687.1	6 x 8	PP	EPDM
074.0578.1	8 x 10	PVDF	VITON
074.0598.1	8 x 10	PVDF	EPDM
074.0739.1	8 x 10	PVDF	WAX
074.0689.1	8 x 10	PP	EPDM
074.0579.1	8 x 12	PVDF	VITON
074.0599.1	8 x 12	PVDF	EPDM
074.0740.1	8 x 12	PVDF	WAX
074.0696.1	8 x 12	PP	EPDM
074.0600.1	12 x 18	PVDF	VITON
074.0601.1	12 x 18	PVDF	EPDM
074.0741.1	12 x 18	PVDF	WAX
074.0705.1	12 x 18	PP	EPDM

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1/2" valves feature 1/2" BSP thread.
Filter removable for cleaning.
Serviceable Ball Valve.

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EMEC 1-1/2" Foot Valves
Axial Foot Valve - Without Float Switch

Model	Tube Connection ID mm	Valve Body	Valve Seals
074.0766.1	13	PP	VITON
074.0765.1	13	PP	EPDM
074.0727.1	18	PP	VITON
074.0728.1	18	PP	EPDM
074.0729.1	32	PP	VITON
074.0730.1	32	PP	EPDM

1-1/2" valves feature 1-1/2" BSP thread.
Filter removable for cleaning.
Serviceable Ball Valve.

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6 EMEC Chemical Level Switches

Axial level switch fitted to EMEC axial foot valve with BNC connector. Foot Valve sold separately.

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EMEC Axial Level Switches

Model	Body	Seals	Cable mtr	Connection
076.0149.1	PVDF	VITON	2	BNC
076.0150.1	PVDF	EPDM	2	BNC
076.0316.1	PP	EPDM	2	BNC
076.0539.1	PP	WAX	2	BNC
076.0322.1	PVDF	VITON	10	BNC
076.0293.1	PVDF	EPDM	10	BNC

EMEC Axial Level Switches
for PRIUS / PRISMA

Model	Body	Seals	Cable mtr	Connection 2 pin
076.0051.1	PVDF	VITON	2.5	Weipu
076.0091.1	PVDF	EPDM	2.5	Weipu
076.0409.1	PP	EPDM	2.5	Weipu

EMEC Level Switch With Bracket

Model	Body	Seals	Cable mtr	Connection
076.0010.1	PP	VITON	2	BNC
076.0011.1	PP	EPDM	2	BNC
076.0015.1	PVDF	VITON	2	BNC

EMEC Level Switch With Bracket
for PRIUS / PRISMA

Model	Body	Seals	Cable mtr	Connection 2 pin
076.0020.1	PP	VITON	2	Weipu
076.0021.1	PP	EPDM	2	Weipu

Longer cables, alternative materials, alternative connections available on request.

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EMEC Multifunction / Security Valves

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| EMEC Multifunction Valve |
| Combined Back Pressure, Safety, Anti-Siphon & Bleed Valve |

Model	Body	Seals	Mounting Version	Connection
MFKT/V	PVDF	VITON	Pump	4 x 6
MFKT/D	PP	EPDM	Pump	4 x 6
MFKTS/V	PVDF	VITON	Wall	4 x 6
MFKTS/D	PP	EPDM	Wall	4 x 6

Available with PTFE coated spring for extreme applications.
Alternative connection sizes available on request.
Alternative materials and seals on request

| EMEC Security Valve |
| Back Pressure Valve Or Relief Valve For PRIUS Motor Pumps |

Model	Body	Seals	Diaphragm	Connection
023.0093.0	PVC	EPDM	PTFE	D16
023.0099.0	PVC	EPDM	PTFE	3/4
023.0101.0	PVC	VITON	PTFE	3/4
023.0102.0	PVC	EPDM	PTFE	3/4
023.0104.0	PVC	VITON	PTFE	1
023.0105.0	PVC	EPDM	PTFE	1

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EMEC Flow Sensors

EMEC Flow Sensor			
Flow Sensor for confirmation of Pump operation			
Model	Body	Seals	Mounting Version
SEFL/D	PP	EPDM	Pump
SEFLS/D	PP	EPDM	Wall
SEFL/V	PVDF	VITON	Pump
SEFLS/V	PVDF	VITON	Wall

Add LPV to the part number for viscous liquids up to 8,000cPs.

EMEC PRIUS Flow Sensor				
Flow Sensor for confirmation of Pump operation				
Model	Body	Seals	Flow l/h	PMMA
SEFLMS/PRIUS V	PVDF	VITON	160-500	1-1/2
SEFLMS/PRIUS D	PP	EPDM	160-500	1-1/2

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Calibration Cylinders

EMEC Calibration Cylinders			
Model	Size ml	Body	Connection
CIL6	100	PP	4 x 6
CIL8	100	PP	6 x 8

ACCUDRAW Calibration Cylinders			
Model	Size ml	Body	Connection
CV2-100B	100	PVC	BSP
CV2-250B	250	PVC	BSP
CV2-500B	500	PVC	BSP
CV2-1000B	1000	PVC	BSP
CV2-2000B	2000	PVC	BSP

Larger sizes available on request.

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EMEC Pulsation Dampeners

EMEC Pulsation Dampeners					
Model	Body	Seals	Volume ltr	Pressure Bar	Connection inch
SOIM3/V	PVC	VITON	0.09	10	3/8
SOIM3/D	PVC	EPDM	0.09	10	3/8
SOIM3K/V	PVDF	VITON	0.09	10	3/8
SOIM3K/D	PVDF	EPDM	0.09	10	3/8
SOIM1/V	PVC	VITON	0.5	5	1/2
SOIM1/D	PVC	EPDM	0.5	5	1/2
SOIM1K/V	PVDF	VITON	0.5	10	1/2
SOIN1K/D	PVDF	EPDM	0.5	10	1/2
SOIM1/SS/V	316SS	VITON	0.5	10	1/2
SOIM1/SS/D	316SS	EPDM	0.5	10	1/2
SOIM2.5/V	PVC	VITON	2.5	10	3/4 x 18
SOIM2.5/D	PVC	EPDM	2.5	10	3/4 x 18
SOIM5/V	PVC	VITON	5	10	1-1/4 x 32
SOIM5/D	PVC	EPDM	5	10	1-1/4 x 32

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Pulsation Dampener Sizing
Volume (L) $=$ $\dfrac{\text{Pressure (Bar)} \ \mathbf{x} \ \text{Quantity to Dose (L)}}{500}$

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EMEC Pump Mounting Brackets

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STKN Wall Mounting Bracket

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EMEC Mounting Brackets			
Model	**Pump Model**	**Mounting**	**Material**
STAMS	AMS / CMS	Side	PVC
STAMS2	AMS / CMS	Front	PVC
STKN	K / H	Front	PP
STK1	K / H	Tank	PVC
STT	T / G	Tank	PVC
STF	F	Tank	PP
STVN	V	Tank	PVC
STW	W	Tank	PVC
STPRIUS	PRIUS D / P	Front	PP
STPRIUS1	PRIUS D / P	Tank	PVC
STPRIUS MF	PRIUS DMF / PMF	Tank	PVC
STPRIUS SS	PRIUS	Front	304SS
STPRISMA	PRISMA	Front	PP

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EMEC PE Chemical Tanks

Standard Features:

- One Piece Moulded Tank
- Screw On Lid
- Mounting Threads For Metering Pumps
- Mounting Threads For Mixer
- Assorted Drill Out Ports With BSP Threads
- Chemical Level Scale

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Models:

Model	Size ltr	Dimension D x H mm	Material
CNT PD50	50	420 x 505	PE Natural
CNT PD110	110	475 x 735	PE Natural
CNT PD200	200	610 x 850	PE Natural
CNT PD500	500	780 x 1200	PE Natural
CNT PD1000	1000	1120 x 1240	PE Natural

Options:

Manual mixers, electric mixers, suction lances, level lances, level sensors, level indicators, safety bunds.

50L and 110L tanks available in natural, yellow or blue.

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EMEC Suction Lances

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Rigid Suction Lance with Adjustable Height, Foot Valve & Float Switch Built-in										
Model	**Size**	**Body**	**Seals**	**Length cm**						**Flow l/h**
LASP4/V	4 x 6	PVC	VITON	40	63	75	95	108	122	up to 10
LASP4/D	4 x 6	PVC	EPDM	40	63	75	95	108	122	up to 10
LASP4/V CAN	4 x 6	PVC	VITON	40	63					up to 10
LASP4/D CAN	4 x 6	PVC	EPDM	40	63					up to 10
LASP5/V	6 x 8	PVC	VITON	40	63	75	95	108	122	over 10
LASP5/D	6 x 8	PVC	EPDM	40	63	75	95	108	122	over 10
LASP6/V	6 x 8	PVDF	VITON	40	63	75		108	122	up to 10

Options:

Available with double suction connections for two pumps.
LASP4 available with double float switches. Specify distance when ordering.
LASP4/VCAN & LASP/DCAN designed to fit containers with screws on lids.
Alternative tube connections on request.

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LASP4

LASP4 CAN

Rigid Suction Lances for PRIUS Pumps from 250 to 500 l/h. Level Probe sold separately.						
Model	**Tube Size ID mm**	**Body**	**Seals**	**Length cm**		
LASP/M D13 EP	13	PVC	EPDM	75	108	122
LASP/M D13 FP	13	PVC	VITON	75	108	122
LASP/M D18 EP	18	PVC	EPDM	75	108	122
LASP/M D18 FP	18	PVC	VITON	75	108	122
LASP/M D32 EP	32	PVC	EPDM	75	108	122
LASP/M D32 FP	32	PVC	VITON	75	108	122

Options:

Available with 1 or 2 outlets - D13 & D18 only.

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EMEC Visual Level Indicators

EMEC Tank Mounted Level Indicator		
Model	For Tank Model	Tank Depth mm
SLV50	CNT PD50	505
SLV110	CNT PD110	735
SLV200	CNT PD200	850
SLV500	CNT PD500	1200

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Metering Pump Accessories

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EMEC Hose Holding Kits

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3 piece Connection Set for Connecting Tube - One Connection per Kit					
Model	Thread Inch	Tube Size ID x OD	Material	Colour	Size
025.0038.1	3/8	4 x 6	PP	Black	Long
025.0064.1	3/8	4 x 6	PP	White	Long
025.0039.1	3/8	4 x 6	PVDF	White	Long
025.0015.1	3/8	4 x 6	PVDF	Black	Short
025.0020.1	3/8	4 x 6	PVDF	White	Short
025.1408.1	3/8	4 x 8	PVDF	Black	Short
025.1409.1	3/8	4 x 8	PVDF	White	Short
025.1722.1	3/8	4 x 8	PP	White	Short
025.0021.1	3/8	6 x 8	PVDF	Black	Short
025.0024.1	3/8	6 x 8	PVDF	White	Short
025.0032.1	1/2	4 x 6	PVDF	Black	
025.0033.1	1/2	4 x 6	PVDF	White	
025.1616.1	1/2	4 x 6	PP	White	
025.1607.1	1/2	4 x 8	PVDF	Black	
025.1621.1	1/2	4 x 8	PVDF	White	
025.1724.1	1/2	4 x 8	PP	White	
025.0025.1	1/2	6 x 8	PVDF	Black	
025.0027.1	1/2	6 x 8	PVDF	White	
025.0213.1	1/2	6 x 8	PP	White	
025.0231.1	1/2	8 x 10	PVDF	Black	
025.0222.1	1/2	8 x 12	PP	Black	
025.0414.1	1/2	8 x 12	PP	White	
025.0967.1*	1/2	9 x 12	PP	Black	
025.0503.1*	1/2	5 x 8	PVDF	Black	
025.0954.1**	1/2	1/4	PVDF	Black	
025.1477.1**	1/2	3/8	PVDF	Black	
025.0570.1**	1/2	1/2	PVDF	Black	

Options:

Alternative colours and materials on request
*   Common size used with competing pump brands.
** For converting accessories for use with American pumps.

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6 EMEC Hose Holding Kits / Empty Valve Bodies

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EMEC Hose Holding Kit				
Connection Sets with Hose Tail for Connecting Tube - one connection per kit				
Model	Thread Inch	Tube Size ID mm	Material	Colour
025.0059.1	1/2	12	PP	Black
025.0060.1	1/2	12	PP	White
025.0035.1	1/2	12	PVDF	Black
025.0045.1	1/2	12	PVDF	White
021.1024.0	1/2	16	PP	Black
025.1512.1	3/4	12	PVDF	Black
025.1515.1	3/4	12	PP	White
025.1668.1	3/4	18	PVDF	Black

EMEC Empty Valve Bodies				
Without Internal Balls				
Model	Thread Inch	Seal	Material	Colour
025.0443.1	3/8	VITON	PP	Black
025.0444.1	3/8	EPDM	PP	White
029.0067.1	3/8	VITON	PVDF	
029.0095.1	1/2	VITON	PP	Black
029.0096.1	1/2	VITON	PP	White
029.0066.1	1/2	VITON	PVDF	

Add one connection set to valve body to adapt from tube to pipe thread.
Add two connection sets to join two tubes together, or adapt from one tube size to another.

Options:

Alternative colours and materials on request.

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EMEC Tubing for Metering Pumps
Per Roll

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EMEC Tubing for Metering Pumps - Per Roll				
Model	**Tube Size ID x OD mm**	**Application**	**Tube Type**	**Roll Size Mtr**
PVC				
049.0359.0	4 x 6	Suction	Clear	25
049.0511.0	4 x 8	Suction	Clear	25
049.0330.0	8 x 12	Suction	Clear	25
049.0432.0	12 x 18	Suction/Discharge	Reinforced	5
PE				
049.0496.0	4 x 6	Discharge	Natural	25
049.0737.0	4 x 6	Discharge	Black	25
049.0590.1	4 x 8	Discharge	Natural	25
049.0269.0	6 x 8	Suction/Discharge	Natural	25
PVDF				
049.0284.0	4 x 6	Suction/Discharge	Natural	5
049.0366.0	6 x 8	Suction/Discharge	Natural	5
049.0312.0	8 x 10	Suction/Discharge	Natural	5

More tube options next page.

Note:

To prevent chemical compatibility and tube detachment issues, we recommend using genuine EMEC suction and discharge tubing.

EMEC recommends using PVDF tubing when dosing sodium hypochlorite or concentrated sulphuric acid.

Hose Cutter

Model	Description
HOSECUTTER	For cutting dosing tube clean and straight.

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EMEC Tubing for Metering Pumps
Per Metre

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EMEC Tubing for Metering Pumps - Per Metre			
Model	Tube Size ID x OD mm	Application	Tube Type
PVC			
059.0003.0	4 x 6	Suction	Clear
059.0054.0	4 x 8	Suction	Clear
059.0004.0	8 x 12	Suction	Clear
059.0005.0	12 x 18	Suction/Discharge	Reinforced
059.0188.0	16 x 22	Suction/Discharge	Reinforced
059.0158.0	32 x 42	Suction/Discharge	Reinforced
PE			
059.0001.0	4 x 6	Discharge	Natural
059.0155.0	4 x 6	Discharge	Black
059.0038.0	4 x 8	Discharge	Natural
059.0010.0	6 x 8	Suction/Discharge	Natural
059.0002.0	8 x 12	Discharge	Natural
059.0200.0	12 x 15	Discharge	Natural
059.0944.0	18 x 25	Discharge	Natural
PVDF			
059.0057.0	4 x 6	Suction/Discharge	Natural
059.0014.0	6 x 8	Suction/Discharge	Natural
059.0067.0	8 x 10	Suction/Discharge	Natural
059.0066.0	13 x 16	Suction/Discharge	Natural
059.0789.0	18 x 22	Suction/Discharge	Natural

All tubing sold per metre and is cut to order.

Note:

To prevent chemical compatibility and tube detachment issues, we recommend using genuine EMEC suction and discharge tubing.

EMEC recommends using PVDF tubing when dosing sodium hypochlorite or concentrated sulphuric acid.

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EMEC PRIUS Installation Kits

EMEC PRIUS Installation Kit
Kit A supplied with Pump - consists of:
1/2 inch Foot Valve with 13mm ID Tube Fitting
3/4 inch Injection Valve
12 x 18 PVC Suction Tube
13 x 16 PVDF Discharge Tube

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EMEC PRIUS Installation Kits				
Kit B & Kit C purchased separately - not supplied with Pump				
Model	Valve Size Inch	Tube ID mm	Material	Seal
KIT B				
110.6842.1	1-1/2	18	PP	EPDM
110.9118.1	1-1/2	18	PVDF	EPDM
110.9070.1	1-1/2	18	PP	VITON
110.9106.1	1-1/2	18	PVDF	VITON
KIT C				
110.9073.1	1-1/2	32	PP	EPDM
110.9120.1	1-1/2	32	PVDF	EPDM
110.6841.1	1-1/2	32	PP	VITON
110.9119.1	1-1/2	32	PVDF	VITON

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SECTION 7   Water Powered Dosing Pumps

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7 | Proportional Water Powered Dosing Pumps

Standard Features:

- No Power Required
- Precise Dose Ratio Regulation
- Double Mixing Chamber
- Simple Maintenance and Sanitation
- Stable Proportional Dosing Maintained even with Fluctuating Pressure and Flows
- Chemical Resistant Materials
- Viton Seals (EPDM on Request)
- 316SS Springs for Improved Durability
- Operating Temperature Range 5-40°C
- 0.3-6 Bar Operating Pressure
- Suction Tube, Foot Valve & Bracket Included
- 1 Year Warranty*

P003

P022

P054

P150

P110

miXtron

MIXTRON proportional dosing pumps are suitable for a wide range of applications including livestock medication, fertiliser addition, water treatment, pharmaceutical, food additives and metalworking.

Sizes:

Model	Water Flow max	Dosing Percentage	Model	Water Flow max	Dosing Percentage
MX075.P003	12.5 l/m 0.75 m³/h	0.03 - 0.2	MX150.P003	25 l/m 1.5 m³/h	0.03 - 0.2
MX075.P022		0.2 - 2	MX150.P022		0.2 - 2
MX075.P054		0.5 - 4	MX150.P054		0.5 - 4
MX075.P150		1 - 5	MX150.P150		1 - 5
MX075.P110		1 - 10	MX150.P110		1 - 10
MX250.P003	40 l/m 2.5 m³/h	0.03 - 0.2	MX300.P003	50 l/m 3.0 m³/h	0.03 - 0.2
MX250.P022		0.2 - 2	MX300.P022		0.2 - 2
MX250.P054		0.5 - 4	MX300.P054		0.5 - 4
MX250.P150		1 - 5	MX300.P150		1 - 5
MX250.P110		1 - 10	MX300.P110		1 - 10

Options:

Pressure regulator, filter and manometer. On/off kit. Bypass kit. Flange adaptor. Suction spare part kit.

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Proportional Water Powered Dosing Pumps   7

Features:

ON/OFF Lever Option

Wall Mounting Bracket

Water Inlet

Flushing Water Port

Water Outlet

Bypass Option for Dosing Aggressive Liquids

Dosing Adjustment %

Chemical Inlet

miXtron

Options:

Pressure regulator, filter and manometer. On/off kit. Bypass kit. Flange adaptor. Suction spare part kit.

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SECTION 8 Centrifugal Chemical Pumps

8

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8

ARGAL TMB
Chemical Pumps

Standard Features:

- Magnetically Coupled
- Low Noise
- Liquid Temperature 0-60°C
- Single Phase IP54 230VAC
- No Metal Shaft or Mechanical Seal
- Maximum Viscosity 20cPs
- Polypropylene Body & Impellor for Superior Chemical Resistance
- CTFE Options on Request
- 12 Month Warranty*

PRINCIPAL OF OPERATION

The drive magnet is located outside of the sealed pump casing and is driven by the motor. This drives the magnetic impellor inside the casing.
In this way, the traditional shaft seal and consequent leakage problems are eliminated.

Sizes:

Model	Max Head m	Max Capacity l/m	Power Watts	Connections Inlet - Outlet Inch BSP
TMB10 WR N	2	10	25	14mm - 14mm hose tail
TMB20 WR N	3	20	29	3/4
TMB30 WR N	3	40	57	3/4
TMB35 WR N	8	15	57	1/2 - 3/8
TMB65 WR N	6	60	97	1

Typical Applications:

Water treatment, ice making machines, beverage vending machines, corrosive chemical solutions, sea water, pure water (demineralised water), preservatives, horticultural applications, dyeing & etching, electroplating, de-scaling and toxic liquids.

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8

ARGAL TMP
Chemical Pumps

Standard Features:

- IEC Standard Motors
- Magnetically Coupled Centrifugal Pumps
- No Metal Shaft or Mechanical Seal
- All Thermoplastic (GFR/PP or CFF/E-CTFE) Body & Impellor for Superior Chemical Resistance
- 12 Month Warranty*

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inch BSP
TMP 0404	9	60	3/4
TMP 0408	9.5	120	1
TMP 0608	11	160	1-1/4
TMP 0610	12	200	1-1/4

Options:

Motor	Single Phase, 3 Phase, Assorted IP Ratings, ATEX
Pump Head Available In	GFR/PP or CFF/E-CTFE
3 Versions	N, P or S for High SG Liquids (SG - 1.05, 1,35 and 1.8 respectively)
Impellor Shaft	CER or SiC
Bushes	CARB/HD, SiC or GFR/PTFE
O-Ring Gasket	EPDM or Viton
Pump Connections	BSP, NPT or Flange

Typical Applications:

Water treatment, chemical solutions, CIP systems, sea water, pure water (demineralised water), preservatives, horticultural applications, dyeing & etching, electroplating, de-scaling, product washing and toxic liquids.
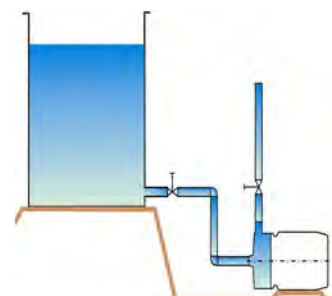
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8

ARGAL TMR
Chemical Pumps

Standard Features:

- IEC Standard Motors
- Magnetically Coupled Centrifugal Pumps
- No Metal Shaft or Mechanical Seal
- All Thermoplastic (GFR/PP or CFF/E-CTFE) Body & Impellor for Superior Chemical Resistance
- 12 Month Warranty*

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inlet - Outlet Inch BSP
TMR 06.10	22	40	1-1/2 - 1-1/4
TMR 10.10	20	266	1-1/2 - 1-1/4
TMR 10.15	18	400	1-1/2 - 1-1/4
TMR 16.15	23	430	2 - 1-1/2
TMR 16.20	26	500	2 - 1-1/2
TMR 02.30	32	100	2 - 1-1/2
TMR 20.15	20	600	2 - 1-1/2
TMR 20.20	24	660	2 - 1-1/2
TMR 20.27	30	600	2 - 1-1/2
TMR 20.36	40	650	2 - 1-1/2
TMR 30.15	22	730	2 - 1-1/2
TMR 30.25	30	800	2 - 1-1/2
TMR 36.30	35	850	2 - 1-1/2

Options:

Motor	Single Phase, 3 Phase, Assorted IP Ratings, ATEX
Pump Head Available In	GFR/PP or CFF/E-CTFE
Impellor Shaft	CER or SiC
Bushes	CARB/HD, SiC or GFR/PTFE
O-Ring Gasket	EPDM or Viton
Pump Connections	BSP, NPT or Flanged Connections
Exclusive Patented Run Dry Option Available	

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8

ARGAL TMA
Self Priming Chemical Pumps

Standard Features:

- Self Priming Pump - Up to 6m Suction Lift
- IEC Standard Motors
- Magnetically Coupled Centrifugal Pumps
- No Metal Shaft or Mechanical Seal
- All Thermoplastic Body & Impellor for Superior Chemical Resistance
- 12 Month Warranty*

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inch BSP
TMA 0116	22	40	3/4
TMA 1014	20	266	1-1/2

Options:

Motor	Single Phase, 3 Phase, Assorted IP Ratings, ATEX
Pump Heads	GFR/PP or CFF/E-CTFE
3 Versions	N, P or S for High SG Liquids (1.05, 1,35 and 1.8 respectively)
Impellor Shaft	CER or SiC
Bushes	CARB/HD, SiC or GFR/PTFE
Gasket	EPDM or Viton
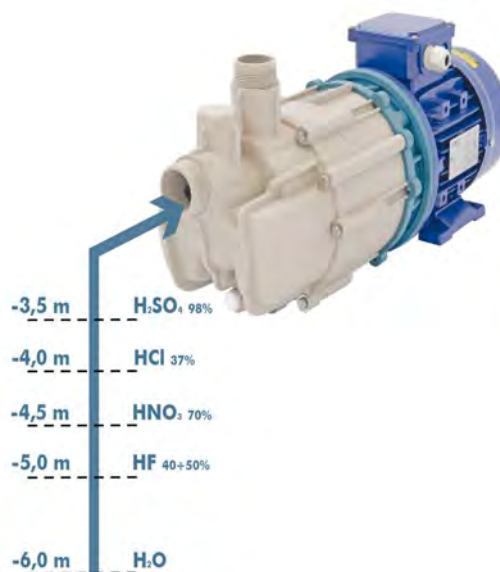
-3,5 m	H_2SO_4 98%
-4,0 m	HCl 37%
-4,5 m	HNO_3 70%
-5,0 m	HF 40÷50%
-6,0 m	H_2O

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ARGAL Chemical Pumps
Larger Pumps Available On Request

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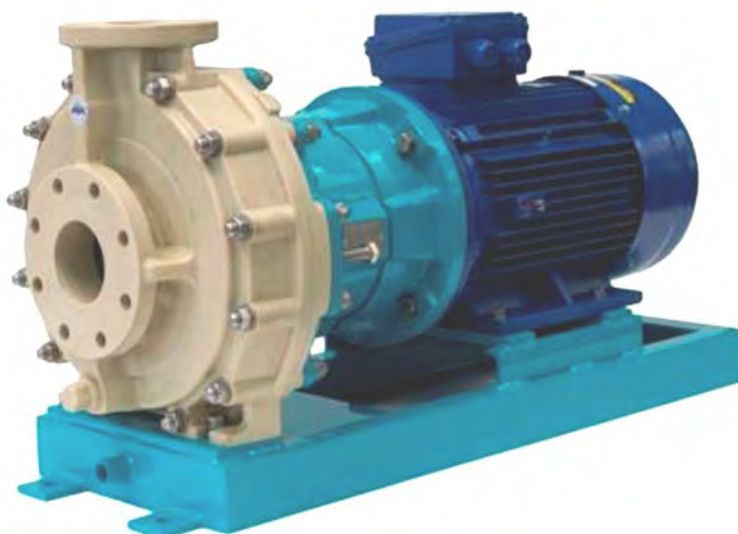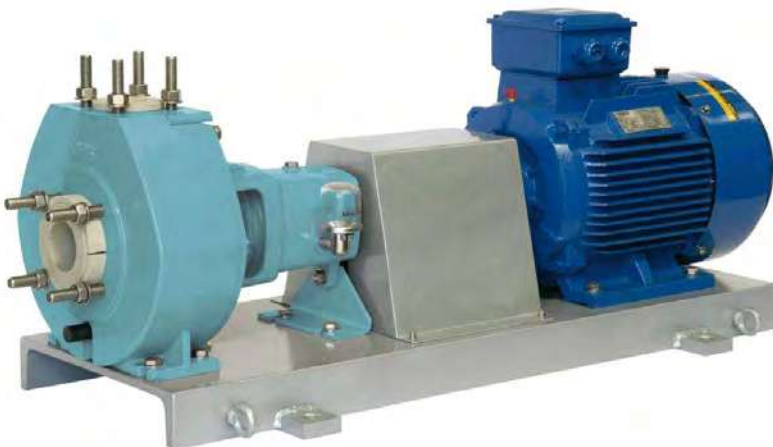
ARGAL Chemical Pump Curves

8

TMB Series
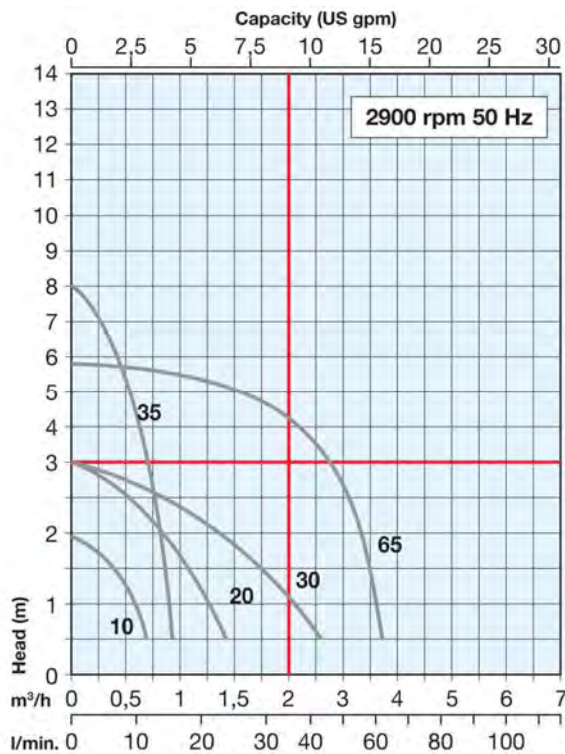
TMP Series

TMR Series

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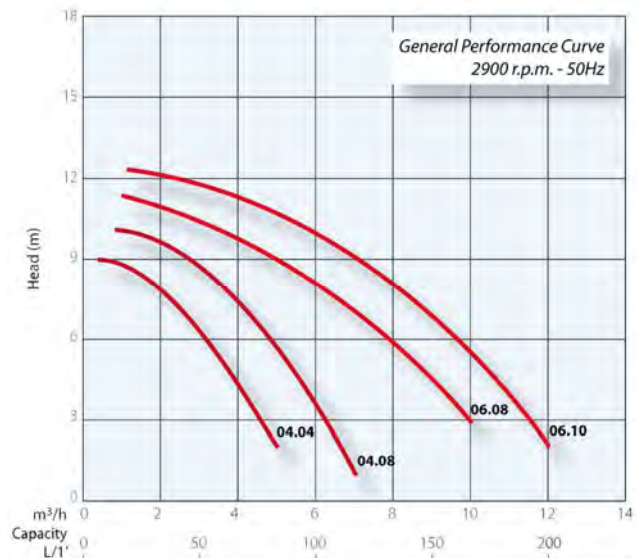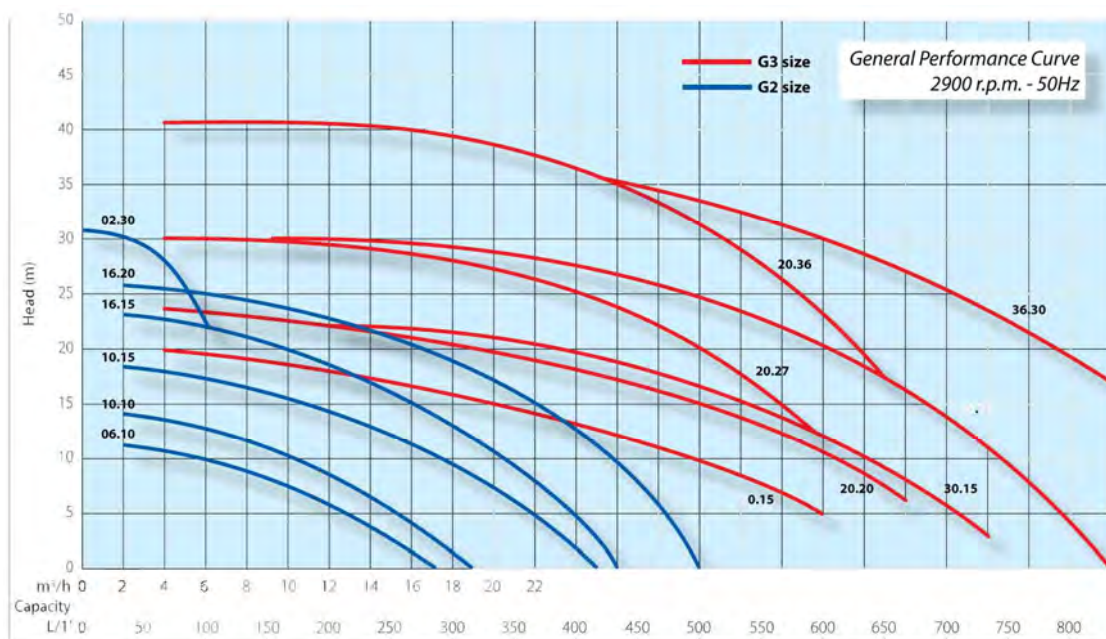
SECTION 9   Air Operated Double Diaphragm Pumps

9

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ASTRA EVO
Air Operated Double Diaphragm Pumps

Standard Features:

- Self Priming
- Submersible or Dry Mount
- Variable Flow Rates & Discharge Pressures
- Dead Head without Damage
- Run Dry without Damage
- High Solids Handling
- Viscous Liquids Handling
- Corrosive Liquids Handling
- Gentle on Shear Sensitive Fluids
- 12 Month Warranty*

ARGAL PUMPS

BEST IN CLASS
Low Air Consumption

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inch BSP	Max Solids Size mm
DDE 30	80	52	1/2	3.5
DDE 60	80	76	1/2	3.5
DDE 100	80	130	1	3.5
DDE 160	80	175	1	7.5
DDE 400	80	370	1-1/2	8.5
DDE 650	80	715	2	8.5

Options:

Connections	BSP standard. NPT or Flanged on request
Pump Case Material	PP,PVDF, Aluminium, 316SS
Diaphragms	Keyflex, Santoprene PTFE
Balls	EPDM, NBR, PTFE, 316SS
Ball Seats	PVDF, 316SS, PP, UPPE
O-Rings	EPDM, Viton, NBR, PTFE
Hazardous Areas	ATEX Zone 1 Rated Versions

Applications:

Wastewater, chemicals, oils, ink, paint, industrial washing & de-greasing, drum transfer, sand slurries, cleaning products, solvents, lacquers, chemical transfer, sump pump.

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ASTRA EVO FOOD
Air Operated Double Diaphragm Pumps

Standard Features:

- Designed for Transfer of Fluids in the Food & Beverage Industry
- FDA Compliant
- Viscosities up to 50,000cPs
- ATEX Zone 2 Rating
- 12 Month Warranty*

ARGAL PUMPS

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inch
DDE SPN 30	80	52	1 Tri-Clamp or BSP
DDE SPN 100	80	130	1 Tri-Clamp or BSP
DDE SPN 400	80	370	2-1/2 Tri-Clamp
DDE SPN 650	80	715	2-1/2 Tri-Clamp or BSP

Options:

Pump Case Material	Polished 316SS
Diaphragms	PTFE Coated NBR
Balls	PTFE, 316SS
Ball Seats	316SS, UPPE
O-Rings	PTFE

Applications:

Jams, jellies, creams, fondants, sauces, honey, marmalade, peanut butter, fruit juice, syrups, oils, yeast, decanting wine, bottling, hops, yeast slurries, animal products, fish oil, fish scales, food additives, food colourings, butter.

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QUANTUM
Air Operated Double Diaphragm Pumps

Standard Features:

- Solid Block Construction for Extreme Mechanical Strength and Chemical Resistance
- PTFE or UPPE (polyethylene) Construction
- Designed to Handle Extreme Chemicals
- Lower Air Consumption up to 30%
- ATEX Zone 2 Compliant
- Ice Free Design
- Easy to Service
- 12 Month Warranty*

ARGAL PUMPS

The Latest INNOVATION
from ARGAL

Sizes:

Model	Max Head m	Max Capacity l/m	Connections Inch BSP
DDQ 60	80	60	1/2
DDQ 160	80	160	1
DDQ 400	80	400	1-1/2

Removable Valves
for service
without uninstalling the Pump

Fastening free Diaphragms
for easy replacement
without uninstalling the Pump

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MISTRAL
Air Operated Double Diaphragm Pumps

Standard Features:

- Designed for Extreme Heavy Duty Applications & Continuous Operation
- Pump Body in 316L Low Carbon
- Extremely Resistant to Corrosion
- ATEX Zone 1 Rating
- 12 Month Warranty*

ARGAL ITALY PUMPS

Sizes:

Model	Max Head m	Max Capacity l/m	Connections	Max Solids Size mm
MISTRAL 200	70	680	DN50 flange	9
MISTRAL 300	70	1100	DN80 flange	11
MISTRAL 400	70	1280	DN100 flange	13

Options:

Pump Case Material	316SS, 316L, Bronze
Diaphragms	EPDM, NBR, EPDM+PTFE, NBR+PTFE
Balls	EPDM, NBR, PTFE, 316L, FRP
Ball Seats	Polyurethene, EPDM, NBR, 316L, UPPE, PVDF
O-Rings	EPDM, NBR, FKM, FEP

Applications:

Oil, seawater, chemicals, cement mixer waste, de-watering.

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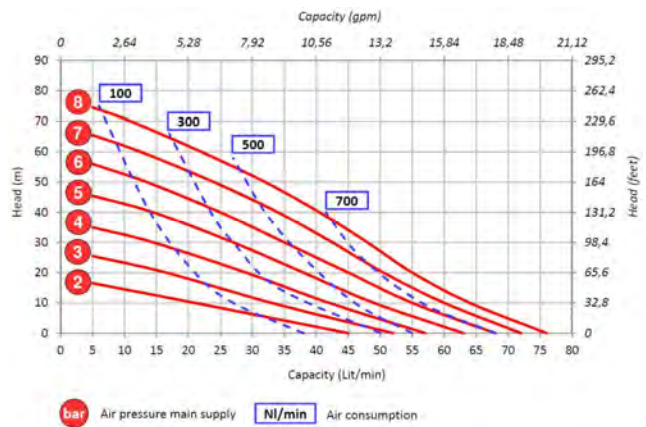simple Solutions

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AIRSATURN
Air Operated Double Diaphragm Pumps

Standard Features:

- World First FRP Pump in 3 and 4"
- Extra Heavy Duty
- 316L Centre Block
- High Chemical Resistance
- Extreme Corrosion Resistance
- Abrasion Resistant
- Light Weight
- Wide Temperature Range
- 12 Month Warranty*

ARGAL ITALY
PUMPS

Sizes:

Model	Max Head m	Max Capacity l/m	Connections	Max Solids Size mm
AIRSATURN 300	70	1100	DN80 flange	11
AIRSATURN 400	70	1280	DN100 flange	13

Options:

Pump Case Material	316SS, FRP
Diaphragms	EPDM, NBR, Santoprene, PTFE
Balls	EPDM, NBR, PTFE, 316L
Ball Seats	EPDM, NBR, 316L, UPPE, PVDF
O-Rings	EPDM, NBR, FKM, FEP
Special Version	3" pump in UPPE, for extremely aggressive chemicals

Applications:

Chemicals transfer, chemical wastewater, seawater applications.

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Flow Curves

9

DDE 30 Flow Curve
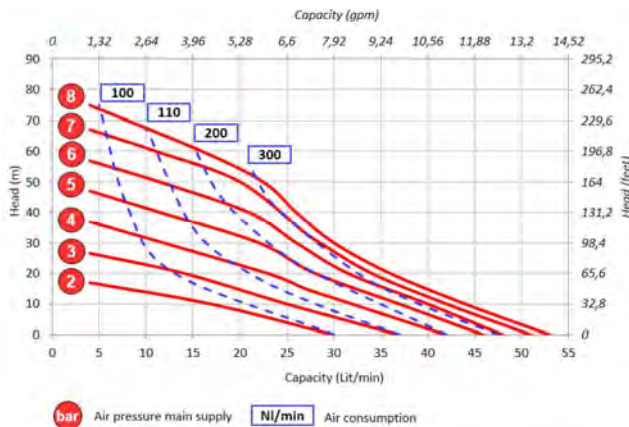
DDE 60 Flow Curve

DDE 100 Flow Curve
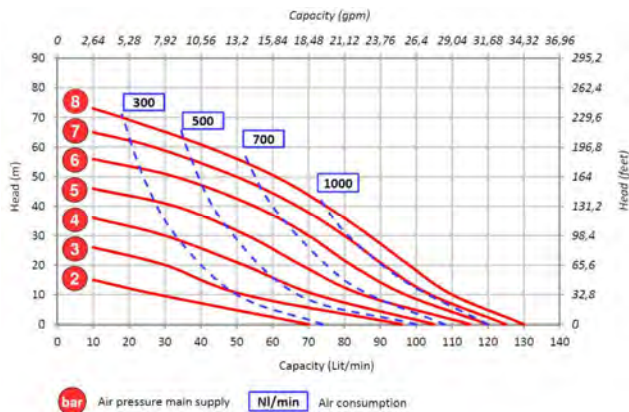
DDE 160 Flow Curve

DDE 400 Flow Curve

DDE 650 Flow Curve

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EMEC CENTURIO TOWER
Cooling Tower Controller

Standard Features:

- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Measure and Control Conductivity plus 5 additional Parameters Simultaneously
- Plus add 4 additional Chemical Level Probes
- Select from Conductivity, Chlorine, pH, ORP, Tracer, Inductive Conductivity, mA Input, Chemical Level, Corrosion
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Report (hourly, daily, weekly, monthly)
- Software Update Function
- Pre-Bleed before Biocide Dosing
- Data Download via USB
- ERMES Remote Configuration and Control
- 2 Year Warranty*

Models:

Model	Function
CENTURIO TOWER BASIC	Ethernet, USB, Modbus
CENTURIO TOWER GSM	Remote Control by GPRS (mobile network)
CENTURIO TOWER WIFI	Remote Control by WIFI Connection

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1µS-100mS, 0.01µS-10mS, 0.001µS-1mS, 1µS-1S, temperature compensation
INDUCTIVE CONDUCTIVITY	Non contact conductivity 0-3,000µS, 0-30,000µS, temperature compensation
pH	0-14 pH, temperature compensation
ORP	-999/+999mV, temperature compensation
CHLORINE	Scale based on probe selected, temperature compensation
TRACERS	0-999.9ppm, temperature compensation
mA INPUT	0-20mA analog input module
CORROSION	0.001-10 MPY

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EMEC CENTURIO POOL
Swimming Pool Controller

10

Standard Features:

- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Measure and Control 6 Parameters Simultaneously
- Plus add 4 additional Chemical Level Probes
- Select from Conductivity, Chlorine, pH, ORP, Tracer, Inductive Conductivity, mA Input, Chemical Level
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Report (hourly, daily, weekly, monthly)
- Software Update Function
- Data Download via USB
- ERMES Remote Configuration and Control
- 2 Year Warranty*

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CENTURIO

ERMES

Modbus

Models:

Model	Function
CENTURIO POOL BASIC	Ethernet, USB, Modbus
CENTURIO POOL GSM	Remote Control by GPRS (mobile network)
CENTURIO POOL WIFI	Remote Control by WIFI Connection

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1µS-100mS, 0.01µS-10mS, 0.001µS-1mS, 1µS-1S
pH	0-14 pH
ORP	-999/+999mV
CHLORINE	Range based on probe selection
CHLORINE DIOXIDE	Range based on probe selection
BROMINE	0-20 ppm
OZONE	Range based on probe selection
HYDROGEN PEROXIDE	0-200 ppm
PERACETIC ACID	Range based on probe selection
mA INPUT	0/4-20mA analog input module
TRACERS	0-999.9 ppm
TEMPERATURE	0-100 degrees C

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EMEC CENTURIO PRO
Multipurpose Controller

Standard Features:

- IP65 Easy Mount Enclosure
- 4.3" LCD Colour Touchscreen
- Measure and Control up to 10 Parameters
- On Screen Graphs and Permanent Data Logging
- Alarms and Log Report (hourly, daily, weekly, monthly)
- Add, Remove or Modify Input Channels as Required
- Software Update Function
- Data Download via USB
- ERMES Remote Configuration and Control
- 2 Year Warranty*

Models:

Model	Function
CENTURIO PRO BASIC	Ethernet, USB, Modbus
CENTURIO PRO GSM	Remote Control by GPRS (mobile network)
CENTURIO PRO WIFI	Remote Control by WIFI Connection

Input Modules:

Parameter	Range
CONDUCTIVITY	0.1µS-100mS, 0.01µS-10mS, 0.001µS-1mS, 1µS-1S
INDUCTIVE CONDUCTIVITY	Non contact Conductivity 0-3,000µS, 0-30,000µS
pH	0-14 pH
ORP	-999/+999mV
CHLORINE	Range based on probe selection
CHLORINE DIOXIDE	Range based on probe selection
BROMINE	0-20 ppm
OZONE	Range based on probe selection
HYDROGEN PEROXIDE	0-200 ppm
PERACETIC ACID	Range based on probe selection
mA INPUT	0/4-20mA analog input module
TRACERS	0-999.9 ppm
TEMPERATURE	0-100 degrees C
CORROSION	0.100-10 MPY

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EMEC MAX5
Wall Mounted Controller

10

Standard Features:

- Measure & Control 5 Parameters Simultaneously
- Select from pH, Redox, Chlorine, Chlorine Dioxide, Ozone, Hydrogen Peroxide, Peracetic Acid, Turbidity, Conductivity, Dissolved Oxygen or Temperature
- ABS IP65 Wall Mounting Enclosure
- Easy Control by ENCODER Wheel
- 6 Set-Point Relays
- On/Off, Pulse Width, Proportional or PID Control
- Standby Input
- 5 Tank Level Inputs
- 5 Timers Built In
- Water Meter Input
- Alarm Output
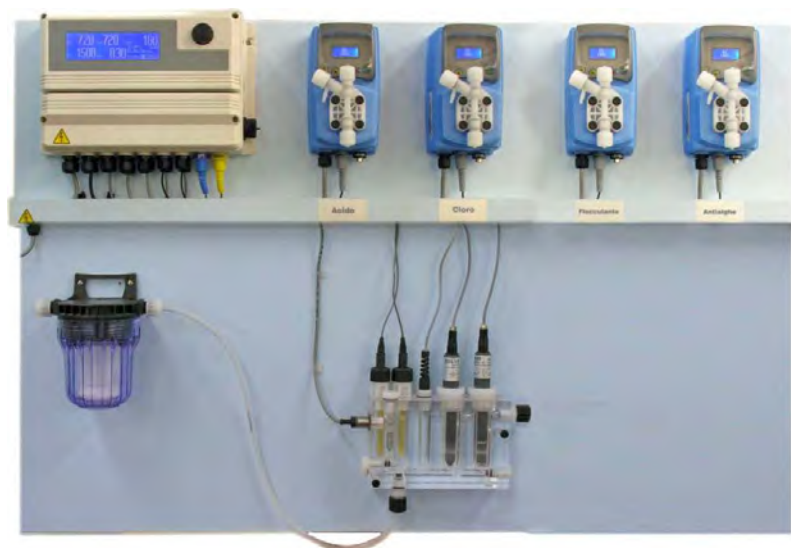- 2 Year Warranty*

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Modbus

Example of the MAX5,
Pumps & Probes
mounted on a back plate.

Options:

6 x mA Signals out for measured values
Data logging to USB
Remote control by Ethernet
Remote control by GPRS
MODBUS
Wi-Fi

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EMEC MTOWER
Cooling Tower Controller

Standard Features:

- IP65 Wall Mounted Enclosure
- Easy Control by Encoder Wheel
- Conductivity Measurement
- 2 Biocide Pump Outputs
- 2 Biocide Activator Outputs
- Bleed Valve Control
- Inhibitor Pump Control
- Makeup Flow Meter Input
- Bleed Flow Meter Input
- Standby Input
- Chemical Tank Level Inputs
- Pre-Bleed & Bleed Lockouts
- Temperature Input
- Alarm Output
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Function
MTOWER CD	Base model with features as described above
MTOWER CD/RH	Same as CD but with redox controller built in
MTOWER CD/PH	Same as CD but with pH controller built in
MTOWER CD/CL	Same as CD but with chlorine controller built in
MTOWER PLUS CD/PH/RH	Same as CD but with redox and pH controllers built in
MTOWER PLUS CD/PH/CL	Same as CD but with pH and Chlorine controllers built in

Options:

mA Signals out for measured values
Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
MODBUS
Wi-Fi

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EMEC LD PLUS Duplex
Dual Channel Wall Mounted Controller

10

Standard Features:

- ABS IP65 Wall Mounted Controller with PID
- Two Parameters
- Easy Control by ENCODER Wheel
- Flow Control
- 4-20mA Output Signals
- Internal Storage with System Log
- Temperature Compensation where Relevant
- Standby Input
- PID, On/Off, Impulsive Proportional, Proportional PWM or Fixed PWM Control
- Alarm Output
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Function
LDPHRH PLUS	Digital pH meter (from 0-14pH), and redox meter (from 0-1000mV)
LDPHCL PLUS	Digital pH meter (from 0-14pH), and chlorine meter (configurable for bromine, chlorine dioxide, hydrogen peroxide, ozone or peracetic acid)
LDPHCD PLUS	Digital pH meter (from 0-14pH), and conductivity
LDPHCDIND PLUS	Digital pH meter (from 0-14pH), and inductive conductivity
LDPHETORB2 PLUS	Digital pH meter (from 0-14pH), and turbidity
LDPHTRC PLUS	Digital pH meter (from 0-14pH), and tracer
LDPHFL PLUS	Digital pH meter (from 0-14pH), and fluoride

Options:

When ordering you can specify any parameter combination e.g. LDCLETORB2
Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
MODBUS
Wi-Fi

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EMEC LD Duplex
Dual Parameter Wall Mounted Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Two Parameters
- Easy Control by ENCODER Wheel
- Flow Control
- Internal Storage with System Log
- Temperature Compensation where relevant
- Standby Input
- On/Off, Impulsive Proportional, Proportional PWM or Fixed PWM Control
- Alarm Output
- 2 Year Warranty*

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ERMES

Modbus

Controller Models:

Model	Function
LDPHRH	Digital pH meter (from 0-14pH), and Redox meter (from 0-1000mV)
LDPHCL	Digital pH meter (from 0-14pH), and chlorine meter (configurable for bromine, chlorine dioxide, hydrogen peroxide, ozone or peracetic acid)
LDPHCD	Digital pH meter (from 0-14pH), and conductivity
LDPHCDIND	Digital pH meter (from 0-14pH), and inductive conductivity
LDPHETORB2	Digital pH meter (from 0-14pH), and turbidity
LDPHTRC	Digital pH meter (from 0-14pH), and tracer
LDPHFL	Digital pH meter (from 0-14pH), and fluoride

Options:

When ordering you can specify any parameter combination e.g. PH+PH
Data logging to USB device
4-20mA signals out for measured value
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
MODBUS
Wi-Fi

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EMEC LD PLUS
Wall Mounted Controller

Standard Features:

- IP65 Wall Mounted Controller
- Easy Control by ENCODER Wheel
- Flow Control
- 4-20mA Output Signal
- Internal Data Storage with System Log
- Temperature Compensation Input where relevant
- Stand-By Input
- Alarm Output
- On/Off, Impulsive Proportional, Proportional PWM, Fixed PWM or PID Control
- Probe Cleaning
- 5 Output Relays (2 Set Point; Alarm; Probe Cleaning; Circulation)
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Function
LDSPH PLUS	Digital pH meter (0-14 pH)
LDSRH PLUS	Digital Redox (ORP) meter (0-1000mV)
LDSCL PLUS	Digital chlorine meter (Total chlorine, free chlorine, bromine, hydrogen peroxide, ozone, peracetic acid), range depends upon probe selection
LDSCD PLUS	Digital conductivity controller (0-300µS, 0-3000µS,0-30mS, 0-300mS)
LDSCDIND PLUS	Digital controller for inductive conductivity (0-3000µS, 0-30mS, 0-300mS)
LDSETORB2 PLUS	Turbidity controller (0-40 NTU, 0-400 NTU, 0-4000 NTU)
LDSTRC PLUS	Digital tracer controller (0-1000ppm)
LDSFL PLUS	Digital fluoride controller (0-3ppm, 0-1000mV)
LDSDO PLUS	Digital DO controller (0-20mg/l)

Options:

mA Water Meter Input
Data logging to USB device
Remote control by Ethernet
Remote control by internal GSM/GPRS modem, SMS alert, email alert,
MODBUS
Wi-Fi

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EMEC LD
Wall Mounted Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Standby Input
- Flow Input
- Temperature Compensation where relevant
- On/Off, Pulse Width Proportional or Proportional Pulse Control
- Probe Cleaning Output
- Dosing Timer
- Data Storage with Internal Logging
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Function
LDSPH	Digital pH meter (0-14 pH)
LDSRH	Digital Redox (ORP) meter (0-1000mV)
LDSCL	Free chlorine/bromine meter, hydrogen peroxide, ozone, peracetic acid. Range based on probe.
LDSCD	Digital conductivity controller (0-300µS, 0-3000µS,0-30mS, 0-300mS)
LDSCDIND	Digital controller for inductive conductivity (0-3000µS, 0-30mS, 0-300mS)
LDSETORB2	Turbidity controller (0-40 NTU, 0-400 NTU, 0-4000 NTU)
LDSDO	Dissolved oxygen controller (0-20mg/l O2)
LDSTRC	Digital tracer controller (0-1000ppm)
LDSFL	Digital fluoride controller (0-3ppm, 0-1000mV)

Options:

Data logging to USB device
4-20mA signals out for measured value
Remote control by Ethernet. (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, Email alert
MODBUS
Wi-Fi

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EMEC LDLOG
Chemical Usage Logging

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Standard Features:

- ABS IP65 Wall Mounted
- For Monitoring Chemical Levels and Usage
- Easy Control by ENCODER Wheel
- Internal Storage with System Log
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Function
LDLOG	Data log system for chemical usage, by monitoring chemical pump output.
LDLOG mA	Data logging system for chemical usage, by monitoring tank levels. 4-20mA inputs for four tanks. Records and displays daily, weekly and monthly chemical consumption, plus quantity remaining in tanks.
LDLOG LASER	Data logging system for chemical usage, by monitoring tank levels. EMEC LASER level input from 4 tanks. Records and displays daily, weekly and monthly chemical consumption, plus quantity remaining in tanks.

Options:

Data logging to USB device
Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, email alert
MODBUS
Wi-Fi

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EMEC LDSPN PLUS
pH Neutralisation Controller

Standard Features:

- ABS IP65 Wall Mounted Controller
- Easy Control by Encoder Wheel
- Flow Input
- Inlet Solenoid Valve Control
- Outlet Solenoid Valve Control
- Mixer Control
- 2 Way pH Pump Control
- Internal Data Storage with System Log
- 2 Year Warranty*

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ERMES

Models:

Model	Function
LDSPN PLUS	Digital pH Controller

Options:

Remote control by Ethernet (LAN connection)
Remote control by internal GSM/GPRS modem, SMS alert, Email alert
Wi-Fi

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EMEC BT Modules
Add on Modules for Remote Control

EMEC BT Modules can be added to any LD or WD Series Controller,
to provide additional services and functions that are not built in.

Models:

Model	Function
BT CEL	External GSM modem for connection via the mobile network
BT ETH	Ethernet module for connection via a computer LAN network
BT USB	To allow logging to a USB memory stick
BT WIFI	To allow for connection via a WIFI connection
BT MODBUS	To allow communication between devices using MODBUS
BT CEL 2IN	External GSM modem for 2 controllers to connect via the mobile network

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10

EMEC J Digital
Panel Mounted Controller

Standard Features:

- 96 x 48mm Panel Mounted Measuring Instrument
- Backlit LCD Display
- Two On/Off or PWM Control Relays
- Flow Alarm
- 4-20mA Output for Measured Value
- Probes Supplied Separately
- 2 Year Warranty*

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Models:

Model	Function
J DIGITAL PH	Digital pH meter (from 0-14 pH). Automatic temperature compensation,
J DIGITAL RH	Digital Redox (ORP) meter (0-1000 mV).
J DIGITAL CL	Digital Chlorine meter (Total chlorine, free chlorine, hydrogen peroxide, bromine, peracetic acid),
J DIGITAL CD	Digital conductivity control (0-20µS, 0-200µS, 0-2000µS, 0-20mS, 0-200mS), automatic temperature compensation,
J DIGITAL O$_3$	Digital Ozone meter (0-1 or 0-10PPM),
J DIGITAL CLO$_2$	Digital Chlorine Dioxide meter (0-2 or 0-20PPM),
J DIGITAL TEMP	Digital Temperature meter (0-100 degrees C),

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EMEC DIN Digital
Din Rail Mounted Controller

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Standard Features:

- Din Rail Mounted Measuring Instrument
- Backlit LCD Display
- Two On/Off or PWM Control Relays
- Flow Alarm
- 4-20mA Output for Measured Value
- Probes Supplied Separately
- 2 Year Warranty*

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Models:

Model	Function
DIN DIGITAL PH	Digital pH meter (from 0-14 pH). Automatic temperature compensation.
DIN DIGITAL RH	Digital Redox (ORP) meter (0-1000 mV).
DIN DIGITAL CL	Digital Chlorine meter (Total chlorine, free chlorine, hydrogen peroxide, bromine, peracetic acid).
DIN DIGITAL CD	Digital conductivity control (0-20, 0-200, 0-2000µS, 0-20, 0-200mS). Automatic temperature compensation.
DIN DIGITAL O_3	Digital Ozone Controller (0-1mg/l or 0-10mg/l).
DIN DIGITAL CLO_2	Digital Chlorine Dioxide Controller (0-2 or 0-20mg/l).
DIN DIGITAL TEMP	Digital Temperature Controller (0-100 degrees C),

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EMEC JA
Panel Mounted Controller

Standard Features:

- 96x96mm Panel Mount
- Backlit LCD Display
- On/Off, Impulsive Proportional and PID Modes
- 2 Setpoints
- Flow Alarm
- Flow Sensor
- Standby Input
- Alarm Output
- Automatic Temperature Compensation
- 4-20mA Output
- MODBUS Serial Communication
- Probes Supplied Separately
- 2 Year Warranty*

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Models:

Model	Function
JA PH PRO	Digital pH meter (0-14 pH).
JA RH PRO	Digital Redox (ORP) meter (0-1000 mV).
JA CL PRO	Digital chlorine meter. Depending on probe selection: total chlorine, free chlorine, chlorine dioxide, hydrogen peroxide, ozone, bromine or peracetic acid.
JA CD PRO	Digital conductivity meter. Auto-ranging. Automatic temperature compensation.
JA CD IND PRO	Digital inductive conductivity control (0-3000µS, 0-300mS). Automatic temperature compensation.

Options:

12VDC, 24VDC, 110VAC, 230VAC, IP54 protection cover

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EMEC POOLBRAVO
Integrated Swimming Pool Controller

Standard Features:

- Turn Key Assembly for Managing Swimming Pools
- Weatherproof Wall Mounting Enclosure
- Integrated V Series Dosing Pumps
- Integrated Swimming Pool Controller
- Window to View Signalling Status and Alarms
- WIFI, 3G Or LAN Internet Options allowing Remote Configuration and Control via ERMES
- 2 Year Warranty*

Models:

Model	Function
POOLBRAVO PHCL1	POOL BRAVO with pH and open free chlorine cell, acid and chlorine pump
POOLBRAVO PHCL2	POOL BRAVO with pH and closed free chlorine cell, acid and chlorine pump
POOLBRAVO PHCL1 FLOC	POOL BRAVO with pH and open free chlorine cell, acid, chlorine and flocculant pump
POOLBRAVO PHCL2 FLOC	POOL BRAVO with pH and closed free chlorine cell, acid, chlorine and flocculant pump
POOLBRAVO PHCL1 ALG	POOL BRAVO with pH and open free chlorine cell, acid, chlorine and anti-algaecide pump
POOLBRAVE PHCL2 ALG	POOL BRAVO with pH and closed free chlorine cell, acid, chlorine and algaecide pump

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pH Probes

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pH Probe Model — EPH

Single junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70ºC. 12mm dia. Minimum conductivity 100µS.

Applications	Potable water, swimming pools, laboratory use.
EPHS	0.8 meter cable and BNC connector
EPHM	4.5 meter cable and BNC connector
EPHL	15 meter cable and BNC connector

pH Probe Model — EPHM/D

Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70ºC. 12mm dia. Minimum conductivity 100µS.

Applications	As above plus wastewater, and medias containing proteins, silver or sulphides.
EPHM/D	4.5 meter cable and BNC connector
EPHL/D	15 meter cable and BNC connector

pH Probe Model — EPHMD/100

Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 100°C. 12mm dia. Minimum conductivity 100µS.

Applications	Wastewater e.g. electroplating, and medias containing proteins, silver or sulphides. Suitable for high temperature wastewater applications.
EPHMD/100	4.5 meter cable and BNC connector

pH Probe Model — EPHMD/LI

Double junction epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum conductivity 3µS.

Applications	Low Ionic (conductivity) applications.
EPHMD/LI	4.5 meter cable and BNC connector

pH Probe Model — EPHM/HF

Epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70°C. 12mm dia. Minimum 100µS.

Applications	Hydrogen fluoride resistant.
EPHM/HF	4.5 meter cable and BNC connector

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pH Probes

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pH Probe Model — EPH SC	
Epoxy shaft pH 0-14 probe . Max. pressure 7 bar at 70ºC. 12mm dia. Minimum 100µS.	
Applications	High solids wastewater, mount in flow path for self cleaning action.
EPHSC	Self cleaning, flat tip. 4.5 meter cable and BNC connector

pH Probe Model — EPH SN6 Range	
Epoxy shaft pH 0-14 probe. Max. pressure 7 bar at 70ºC. 12mm dia. Minimum 100µS.	
Applications	High solids wastewater, mount in flow path for self cleaning action.
EPHSN6	PG13.5 mounting thread and SN6 connector
EPHM/D/SN6	Double junction. PG13.5 mounting thread and SN6 connector
EPHSC/SN6	Self cleaning, flat tip. PG13.5 mounting thread and SN6 connector

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Accessories for ORP & pH Probe Installations	
CASN6S	BNC/SN6 cable for ERHSN6 probe, 5m
CASN6M	BNC/SN6 cable for ERHSN6 probe, 10m
CASN6L	BNC/SN6 cable for ERHSN6 probe, 15m
GHIERA	PG13.5 threading nut for ORP probes, with O-ring

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10   Redox (ORP) Probes

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Redox Probe Model — ERH	
Single junction epoxy shaft Redox probe. Max. pressure 7 bar at 70ºC. 12mm dia. 100µS minimum.	
Applications	Potable water, swimming pools, laboratory use.
ERHS	With 0.8 meter cable and BNC connector
ERHM	With 4.5 meter cable and BNC connector
ERHL	With 15 meter cable and BNC connector

Redox Probe Model — ERHM/D	
Double junction epoxy shaft Redox probe. Max. pressure 7 bar at 70ºC. 12mm dia. 100µS minimum.	
Applications	As above plus low solids wastewater and medias containing proteins, silver or sulphides.
ERHM/D	With 4.5 meter cable and BNC connector
ERHL/D	With 15 meter cable and BNC connector

Redox Probe Model — ERHMD/100	
Double junction epoxy shaft Redox probe. Max. pressure 7 bar at 100ºC. 12mm dia. 100µS minimum.	
Applications	As above plus low solids wastewater eg: electroplating, medias containing proteins, silver or sulphides. Suitable for high temperature wastewater applications.
ERHMD/100	With 4.5 meter cable and BNC connector

Redox Probe Model — ERH SC	
Epoxy shaft Redox probe with flat end and self cleaning action. Max. pressure 7 bar at 70ºC. 12mm dia. Minimum 100µS.	
Applications	High solids wastewater, mount in flow path for self-cleaning action.
ERHSC	With 4.5 meter cable and BNC connector

Redox Probe Model — ERH SN6 Range	
Epoxy shaft Redox probe. Max. pressure 7 bar at 70ºC. 12mm dia. Minimum 100µS. PG13.5 mounting thread and SN6 connector.	
Applications	Potable water, swimming pools, laboratory use, wastewater.
ERHSN6	With PG13.5 mounting thread and SN6 connector
ERHSC/SN6	Self Cleaning double junction version for wastewater
ERHHLB/SN6	For Low chlorine and pure water applications, glass shaft

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Chlorine Dioxide, Chlorine Probes

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Chlorine Dioxide Probe Model — SCL2	
Closed Amperometric Cell for Chlorine Dioxide measurement. Max. pressure 1 bar, max. temperature 40ºC. Automatic temperature compensation.	
Applications	Potable water, swimming pools, breweries, food processing.
SCL2/0.5	Range: 0-0.5mg/l
SCL2/2	Range: 0-2mg/l
SCL2/20	Range: 0-20mg/l

Chlorine Probe Model — SCL3	
Closed Amperometric Chlorine Cell with pH compensation. Max. pressure 1 bar, max. temperature 40ºC. Automatic temperature compensation.	
Applications	Drinking water, swimming pools, laboratory use, industrial process water
SCL3S/20	Range: 0-20mg/l Free Chlorine (organic and inorganic) for freshwater
SCL3N/0.5	Range: 0-0.5mg/l Free Chlorine (inorganic) for freshwater
SCL3N/2	Range: 0-2 mg/l Free Chlorine (inorganic) for freshwater
SCL3N/20	Range: 0-20mg/l Free Chlorine (inorganic) for freshwater
SCL3N/200	Range: 0-200mg/l Free Chlorine (inorganic) for freshwater

Free Chlorine Probe Model — ECL6	
Open Amperometric Free Chlorine Cell (organic and inorganic). Integral Flow rate control. Includes 2 x electrode holders for pH, Redox or temperature probe. With flow switch model SEPR. Up to 5 Bar at 40°C.	
Applications	Potable water, swimming pools, laboratory use.
ECL6	Range: 0-10mg/l
ECL6/E	Budget version without additional electrode holders

Free Chlorine Probe Model — ECL7	
Open Amperometric Free Chlorine Cell as ECL6, but manufactured to hold PG13.5 mounting versions of pH, Redox and temperature probes. Up to 5 Bar at 40°C.	
Applications	Potable water, swimming pools, laboratory use.
ECL7	Range: 0-10mg/l

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Chlorine, Hydrogen Peroxide, Ozone & Peracetic Acid Probes

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Total Chlorine Probe Model — SCL8	
Amperometric Total Chlorine Cell (organic and inorganic). Max. pressure 1 bar, max. temperature 40ºC. Automatic temperature compensation.	
Applications	Potable water, swimming pools, laboratory use.
SCL8/2	Range: 0-2 mg/l
SCL8/20	Range: 0-20 mg/l

Hydrogen Peroxide Probe Model — SCL9	
Hydrogen Peroxide probe, max. temperature 40ºC.	
Applications	Potable water, industrial processes, laboratory use.
SCL9/200	Ranges: 0-200 mg/l

Ozone Probe Model — SCL10	
Ozone Cell , Max. pressure 1bar, max. temperature 40ºC. Temperature compensated.	
Applications	Potable water, swimming pools, industrial processes, salt water.
SCL10/2	Range: 0-2 mg/l
SCL10/20	Range: 0-20 mg/l

Peracetic Acid Probe Model — SCL11	
Amperometric Peracetic Acid Cell. Max. pressure 1 bar, max. temperature 40ºC. Automatic temperature compensation.	
Applications	CIP systems.
SCL 11/200	Range: 0-200 mg/l
SCL 11/2000	Range: 0-2000 mg/l

Chlorine Probe Model — ECL12	
Amperometric Free Chlorine Cell for salt water applications as ECL6, manufactured to hold pH, Redox and temperature probes.	
Applications	Salt water swimming pools.
ECL12	Range: 0-10mg/l
ECL12/E	Option - no additional probe mounting

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Chlorine, Chlorine Dioxide, Bromine, Chlorites & Potentiostatic Probes

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Free Chlorine Probe Model — SCL18 : High Pressure

Closed Amperometric Free Chlorine Cell (inorganic) for use with Sodium Hypochlorite, Calcium Hypochlorite and chlorine gas applications. Max. pressure 8 bar, 5 -70ºC. Automatic temperature compensation. Self-cleaning.

Applications	Potable water, industrial processes.
SCL18/0.5	Range: 0-0.5mg/l
SCL18/2	Range: 0-2 mg/l
SCL 18/20	Range: 0-20 mg/l

Chlorine Dioxide Probe Model — SCL17 : High Pressure

Closed Amperometric cell for Chlorine Dioxide measurement. Max. pressure 8 bar, 5 -70ºC. Automatic temperature compensation. Self cleaning.

Applications	Potable water, industrial processes.
SCL17/0.5	Range : 0-0.5mg/l
SCL17/2	Range: 0-2 mg/l
SCL17/20	Range: 0-20 mg/l

Bromine Probe Model — SBR/20

Closed Amperometric cell for Bromine measurement. Automatic temperature compensation. Max. pressure 0.5bar, max. temperature 40ºC.

Applications	Potable water, industrial processes.
SBR/20	Range: 0-20 mg/l

Chlorites Probe Model — SCT/2

Closed Amperometric cell for Chlorites measurement. Automatic temperature compensation. Max. pressure 1bar, max. temperature 40ºC.

Applications	Potable water, industrial processes.
SCT/2	Range: 0-2 mg/l

Potentiostatic Probe Model — EPS

Probe for measurement of Chlorine, Chlorine Dioxide, Ozone.
-5 to 70ºC, 16bar at 20.ºC

Applications	Potable water, industrial processes, wastewater.
EPS	Range: 0-20 mg/l

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Chlorine Probe Spare Parts

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Electrolyte for Amperometric Probes	
Solution for Refilling new S Series Amperometric Probes.	
ELESCL2	Electrolyte for SCL2
ELESCL	Electrolyte for SCL3S and ELECL8
ELESCL3N	Electrolyte for SCL3N
ELESCL9	Electrolyte for SCL9
ELESCL10	Electrolyte for SCL10
ELESCL11	Electrolyte for SCL11
ELESCL17	Electrolyte for SCL17
ELESCL18	Electrolyte for SCL18
ELESBR	Electrolyte for SBR
ELESCT	Electrolyte for SCT

Replacement Membrane Caps	
Replacement Membrane Caps for S Series Amperometric Probes.	
MESCL2	Spare membrane cap for SCL2
MESCL	Spare membrane cap for SCL3S and SCL8
MESCL3N	Spare membrane cap for SCL3N
MESCL9	Spare membrane cap for SCL9
MESCL10	Spare membrane cap for SCL10
MESCL11	Spare membrane cap for SCL11
MESBR	Spare membrane cap for SBR
MESCT	Spare membrane cap for SCT

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Chlorine Probe Spare Parts

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Electrolyte for Amperometric Probes

Solution for Refilling old E Series Amperometric Probes.

ELECL1	Electrolyte for ECL1
ELECL2	Electrolyte for ECL2
ELECL3N	Electrolyte for ECL3
ELECL3S	Electrolyte for ECL3S
ELECL17	Electrolyte for ECL17

Replacement Membrane Caps

Replacement Membrane Caps for old E Series Amperometric Probes.

MECL1-2	Membrane cap for ECL1 and ECL2
MECL3	Membrane cap for ECL3

Replacement Electrodes

Replacement Electrodes for Open Amperometric Chlorine Cells.

ELE/PR	Platinum & Copper electrodes for cell ECL6/7
ELE12	Platinum & Silver electrodes for cell ECL12
ELE/P	Platinum electrode for ECL20 and ECL21
ELE/A	Silver electrode for ECL21
ELE/R	Copper electrode for ECL20
BIG2	Glass balls for ECL6/7/20/21 cells

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Graphite Conductivity Probes

Conductivity Probe Model — ECDC

Conductivity probe with Graphite electrodes, PVDF body, 3/4" BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60ºC.

ECDC/1	K=1, maximum 20mS
ECDC/10	K=10, maximum 200mS
Options	Longer lead on request. 1/2" on request.

Conductivity Probe Model — ECDCC

Conductivity probe with Graphite electrodes, PVDF body, 3/4" BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60ºC. Temperature compensation.

ECDCC/1	K=1, maximum 20mS, NTC10k temp sensor
ECDCCPT/1	K=1, maximum 20mS, PT100 temp sensor
ECDCC/10	K=10, maximum 200mS, NTC10k temp sensor
ECDCCPT/10	K=10, maximum 200mS, PT100 temp sensor
Options	Longer lead on request. 1/2" on request.

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Conductivity Probe Model — ECDCIM

Conductivity probe, immersion style with Graphite electrodes, PVDF body, 1/2" BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60ºC.

ECDCIM/1	K=1, maximum 20mS
ECDCCIM/1	K=1, 0-20mS, NTC10k
ECDCCIMPT/1	K=1, 0-20mS, PT100
ECDCIM/10	K=10, 0-200mS
ECDCCIM/10	K=10, 0-200mS, NTC10
ECDCCIMPT/10	K=10, 0-200mS, PT100
Options	Temperature compensation. Longer lead on request, 1/2" on request.

Conductivity Probe Model — ECDC20

Conductivity probe, old type, for through wall installation, PVDF body, Graphite electrodes, 4m cable, BNC plug.

ECDC20	K=1, maximum 20mS, threaded with lock nut for through tank mounting
Options	Longer lead on request.

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Inox Conductivity Probes with SS Electrode

Conductivity Probe Model — ECDI	
Conductivity probe with Stainless Steel electrodes, PVDF body, 3/4" BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60ºC. 100°C at 2 Bar.	
ECDI/1	Range: 0-5mS
ECDI/01	Range: 0- 200µS
Options	Longer cable on request.

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Conductivity Probe Model — ECDIC	
Conductivity probe with Stainless Steel electrodes, PVDF body, 3/4" BSP thread, 4m cable, BNC plug, maximum pressure 7 bar at 60ºC. 100°C at 2 Bar, temperature compensation.	
ECDIC/1	Range: 0-5mS, NTC 10k temp sensor
ECDICPT/1	Range: 0-5mS, PT100 temp sensor
ECDIC/01	Range: 0- 200µS NTC 10k sensor
ECDICPT/01	Range: 0- 200µS PT 100 temp sensor
Options	Longer cable on request.

Conductivity Probe Model — ECDIIM	
Conductivity probe immersion style with Stainless Steel electrodes, PVDF body, 3/4" or 1/2" BSP thread, 4m cable, BNC plug, maximum pressure 7bar at 60ºC. 100°C at 2Bar.	
ECDIIM/1	Range: 0-5mS
ECDIIM/01	Range: 0- 200µS
ECDICIM/1	Range: 0- 5mS, temperature compensation (NTC 10k)
ECDICIM/01	Range: 0- 200µS, temperature compensation (NTC 10k)
ECDICPTIM/1	Range: 0- 5mS, temperature compensation (PT100)
ECDICPTIM/01	Range: 0- 200µS, temperature compensation (PT100)
Options	High temperature version, longer cable on request.

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Stainless Steel Conductivity Probes

Conductivity Probe Model — EICDC : Stainless Body	
Conductivity probe with Stainless Steel electrodes, 3/4" BSP thread, 4m cable, maximum pressure 15 bar at 130ºC, NTC 10k temperature compensation.	
EICDC/1	Maximum 20mS
EICDC/01	Maximum 200µS
EICDC/001	Maximum 20µS
Options	Longer cable on request.

Conductivity Probe Model — EICDCPT : Stainless Body	
Conductivity probe with Stainless Steel electrodes, 3/4" BSP thread, 4m cable, maximum pressure 15 bar at 130ºC, PT100 temperature compensation.	
EICDCPT/1	Maximum 20mS
EICDCPT/01	Maximum 200µS
EICDCPT/001	Maximum 20µS
Options	Longer cable on request.

Conductivity Probe Model — EICDHPT : Stainless Body	
High temperature range conductivity probe with Stainless Steel electrodes, SS body, 3/4" BSP thread, 4m cable, BNC plug, maximum pressure 15 bar at 200ºC, PT100 temperature compensation.	
EICDHPT/1	Maximum 20mS
EICDHPT/0.1	Maximum 200µS
EICDHPT/001	Maximum 20µS
Options	Longer cable on request.

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High Linearity Conductivity Probes

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Conductivity Probe Model — ECDHL	
Conductivity probe with platinum electrode, 12mm dia, 4.5m cable, maximum pressure 7 bar at 70ºC.	
ECDHL/01	K=0.1, maximum conductivity 200µS
ECDHL/1	K=1, maximum conductivity 20mS
ECDHL/10	K=10, maximum conductivity 200mS

Conductivity Probe Model — ECDHLC	
High linearity conductivity probe with platinum electrode, 4.5m cable, maximum pressure 7 bar at 70ºC , NTC10k temperature compensation.	
ECDHLC/01	K=0.1, maximum conductivity 200µS
ECDHLC/1	K=1, maximum conductivity 20mS
ECDHLC/10	K=10, maximum conductivity 200mS

Conductivity Probe Model — ECDHLCPT	
High linearity conductivity probe with platinum electrode, 4.5m cable, maximum pressure 7 bar at 70ºC , PT100 temperature compensation.	
ECDHLCPT/01	K=0.1, maximum conductivity 200µS
ECDHLCPT/1	K=1, maximum conductivity 20mS
ECDHLCPT/10	K=10, maximum conductivity 200mS

Conductivity Probe Model — ECDINDPT	
All plastic construction, no metallic or conductive materials in contact with fluid, with PT100 temperature compensation, max pressure 8 bar, maximum temperature 85°C.	
ECDINDPT	Specify range 0-3mS, 0-30mS, 0-300mS
ECDSINDPT	0-30mS (compact probe)

An enormous range of conductivity probes are available. There are too many to list.
Please enquire for assistance to choose a probe to suit your process.

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Miscellaneous Probes

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Temperature Probe Model — ETEHLP	
High linearity temperature probe with PVDF body, 1/2"threading 0-100ºC, 10 Bar, 1mV=0.1ºC. 4m cable.	
ETEPCH18	NTC10kohm sensor, ECL6 or PEF Holder
ETEPCH18/L	NTC 10kohm sensor, NPED PEF22 or PEF23 Holder
ETEPTCH18	PT100 sensor, ECL6 or PEF Holder
ETEPTCH18/L	PT100 sensor, ECL6 or NPED or PEF22 or PEF23 Holder

Turbidity Sensor Model — ETORB40	
Off line Turbidity Sensor, max flow 40 litres per hour, maximum pressure 0.5 bar.	
Applications	Swimming pools, potable water systems.
ETORB40	0-40 NTU

Turbidity Probe Model — ETORB2	
Turbidity probe with self cleaning function (by water injection), maximum pressure 2 bar at 40°C, internal temperature compensation, 5m cable.	
ETORB2	0-4000 NTU
ETORB2-IM	0-4000 NTU, 10 m cable

Dissolved Oxygen Probe Model — EOLUM	
Dissolved Oxygen probe with fluorescence membrane, maximum pressure 10 bar, -5-50°C, temperature compensation (PT100), 15m cable.	
EOLUM	0-20 mg/l O_2

Fluoride Probe Model — EFL	
Ion selective probe (ISE) for Fluoride (F-), maximum pressure 1 bar, 0-60°C, pH range 5-7, 1m cable.	
EFL	0-3 PPM

Tracer Probe Model — ETRC	
Tracer probe, PVC body, 4-20mA output, 0-50°C, 7 Bar, 0.8m cable.	
ETRC	Dynamic range 0-300 ppb

Corrosion Probe Model — ECORR	
Corrosion probe, SS body, RS485 output, 0-50°C, 7 Bar.	
ECORR	Range 0.001-10MPY

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Probe Holders

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In-Line Probe Holder	
For insertion into threaded connection in pipe work.	
PEA/CH28	For 12mm epoxy shaft electrodes 1/2" BSP thread, suitable for max. 90°C at 7 bar or 130°C at 3 bar, PVDF
PEB	For 12mm epoxy shaft electrodes 3/4" BSP thread, suitable for max. 90°C at 7 bar or 130°C at 3 bar, Polypropylene
PEA/SN6	For 12mm epoxy shaft with PG13.5 mounting thread and SN6 connector, suitable for max 90°C 7 bar, PVDF

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In-Line Probe Holder for T Connection	
For insertion into a threaded connection in pipe work.	
PEL	For 12mm epoxy shaft electrodes 1/2" or 3/4" thread, PVDF
PEL/SN6	For probes with PG13.5 mounting thread
PELC	With saddle connection
PEL-E	For ETORBH or EOLUM probe, PVC
PEL-IND *Options:*	For ECDINDPT probe, max. 40°C, 7 bar, PVDF *PEL-IND 40, 50mm (T connection)* *PEL-IND 63, 75, 90, 110, 125, 160 mm (saddle connection)*
PEL-INDC	For ECDINDPT probe, max. 80°C, 7 bar, CPVC
PEL-IND-SS	For ECDINDPT probe, max. 80°C, 7 bar, SS
PELS-IND	For ECDSINDPT probe, max. 40°C, 7 bar, PVC

Immersion Probe Holder — PVC 1m Long	
PEC	For 1 electrode 12mm dia. (eg type EPH), max. 80°C, PP
PEC/SN6	For 1 electrode with PG13.5 mounting thread, max. 80°C, PP
PEC/IM	For 1 conductivity electrode 3/4" thread, max. 80°C, PP
PECAP/SN6	As PEC/SN6 with compressed air or water self cleaning system, max. 40°C, PP/PVC
PEC2	For 2 x 12mm PG13.5 electrodes, max. 40°C, PVC
PECAP2	With compressed air or water self cleaning, max. 40°C, PVC
PECAP-E	For EOLUM self cleaning system, max. 40°C, PVC
PEC-E	For EOLUM, max. 80°C, PP
PEC-IND	For ECDINDPT, max. 40°C, PVC
PEC-E2	For ETORB2, max. 40°C, PVC
108.6173.1	PVC fixing flange for PEC/PECIM, 100mm
108.2205.1	PVC fixing flange for PEC-E or PECAP, 100mm
108.2231.1	PP fixing flange for PEC-IND

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Off-Line Probe Housings

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Off-Line Probe Housing Model — NPED	
Off-line probe housing, maximum pressure 5 Bar, maximum temperature 40ºC. Fittings - 6x8mm.	
NPED2	For 2 x probes 12mm diameter, e.g. type EPHM/D
NPED1	For 2 x probes with PG13.5 mounting thread
NPED4	For 2 x 12mm probes, with integral flow sensor
NPED4/2F	For 2 x 12 mm epoxy probes with 2 wires for sensor
NPED4-1/2	As NPED3, with integral flow sensor plus 1/2" thread
NPED5	For 2 x probes plus 1/2" electrode
NPED-E2	For ETORB2
NPED-E	For EOLUM probe
NPED-IND	For ECDINDPT inductive conductivity probe
NPED-IND-PVDF	For ECDINDPT inductive conductivity probe
NPED-INDS	For ECDINDSPT inductive conductivity probe
NPED4-INDS	For ECDINDSPT inductive conductivity probe with integral flow sensor

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Off-Line Probe Housings

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Off-Line Probe Housing Model — PEF For Closed Amperometric Cells	
Off-line probe housing to suit closed type chlorine probe. Maximum pressure 5 Bar, maximum temperature 50ºC. PMMA body with 6x8 PVDF fittings and 4m PE hose.	
PEF1R	For 2 x 12mm diameter probes, 1 temperature probe and 1 x chlorine probe e.g. type SCL, with SEPR flow switch.
PEF1R/E	For 1 x chlorine probe e.g. type SCL, and 1 temperature probe with SEPR flow switch.
PEF5R	For 2 probes with PG13 mounting threads, 1 temperature probe and 1 x chlorine probe e.g. type SCL, with SEPR flow switch.
PEF2	For 2 x 12mm diameter probes and 1 temperature probe, with SEPR flow switch.
PEF3	For 2 x probes with PG13 mounting threads and 1 temperature probe, with SEPR flow switch.
PEF22R	For 2 x 12mm diameter probes, 1 temperature probe and 2 chlorine probes e.g. type SCL, with SEPR flow switch.
PEF23R	For 2 x 12mm diameter probes, 1 temperature probe and 1 chlorine probe e.g. type SCL and 1 conductivity probe 3/4" thread, with SEPR flow switch.
PEF24R	For 1 fluoride electrode with flow switch.
PEF26R	For 1 chlorine probe e.g. type SCL and 1 fluoride probe with flow switch.
PEF27R	For 1 chlorine probe e.g. type SCL and 1 conductivity probe 3/4" thread with flow switch.
Options	Integral anti-siphon valve, high temperature option. Alternative tube materials on request.

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Cooling Tower Accessories

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Multi Function Probe Holder	
MANIFOLD/E/3	Probe holder for 3/4" conductivity probe, with flow sensor and sample port. 3/4" water inlet. PMMA standard.
MANIFOLD/E/1	Probe holder for 3/4" conductivity probe, with flow sensor and sample port. 1" water inlet. PMMA standard.
MANIFOLD/3	Probe holder for conductivity probe, with flow sensor, sample port and two injection points. 3/4" water inlet. PMMA standard.
MANIFOLD/1	Probe holder for conductivity probe, with flow sensor, sample port and two injection points. 1" water inlet. PMMA standard.
MANIFOLD PLUS/3	Probe holder for conductivity probe plus 2 x 12mm dia. probes, with flow sensor and sample port. 3/4" water inlet. PMMA standard.
MANIFOLD PLUS/1	Probe holder for conductivity probe plus 2 x 12mm dia. probes, with flow sensor and sample port. 1" water inlet. PMMA standard.
MAPLTR	Probe holder for tracer probe plus 2 x 12 mm dia. electrodes with flow sensor PVC
MAPLTRE	Probe holder for tracer probe and ECDCC plus 2 x 12mm dia. electrodes PVC

Manifold Flow Sensor Spares	
SF/BNC	Manifold flow sensor with BNC connection.
SEPR	Manifold inductive flow sensor for probe housing and open amperometric cells.

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ERMES
Remote Monitor And Manage

10

YOUR SCADA or BMS

MODBUS

GPRS

LAN

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ALARMS

CONTROL

PROBES
pH
ORP
Chlorine
Chlorine Dioxide
Peracetic Acid
Ozone
Hydrogen Peroxide
Turbidity
Tracers
Flow
Tank Level

Date	pH	mV	Cl2	uS	NTU	Temperature	Flow Alarm
17/08/2015 0:00	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 23:52	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 23:32	5.13	131	0.001	2	0	25.3	OFF
16/08/2015 23:12	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 22:52	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 22:32	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 22:12	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 21:52	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 21:32	5.13	131	0.001	1	0	25.3	OFF
16/08/2015 21:12	5.13	131	0.001	1	0	25.3	OFF

- Display
- Control
- Log
- Alarm

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Modbus

ERMES Cloud based Monitoring and Control is a free service supplied and maintained by EMEC.

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SECTION 11   Chlorine Dioxide Generators

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11

LOTUS EASY
Chlorine Dioxide Generator

Standard Features:

- Economical Option for Producing & Dosing Chlorine Dioxide Proportional to Flow
- Sodium Chlorite / Hydrochloric Acid Method
- Instantaneous CLO2 Production
- Flow Control Input
- Tank Level Alarms
- Water Meter Input
- Standby Input
- Service Reminder
- 2 Year Warranty*

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Models:

Model	Pressure Bar	Capacity g/h
LOTUS EASY 8	8	8
LOTUS EASY 20	8	20
LOTUS EASY 40	8	40
LOTUS EASY 80	8	80

Applications Include:

Food and beverage manufacturing, bottle washing, potable water, process water, produce washing, cooling towers and swimming pools.

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LOTUS MINI
Chlorine Dioxide Generator

Standard Features:

- Sodium Chlorite / Hydrochloric Acid Method
- Instantaneous CLO_2 Production
- Water Injection to Limit the Concentration Strength Leaving the Reaction Vessel
- Dosing Proportional to Flow or Remote Controlled
- Flow Control Input
- Tank Level Alarms
- Water Meter Input
- Standby Input
- Internal Data Logging
- 4-20mA Output
- Service Reminder
- Colour Coded Pumps and Suction Lances
- 2 Year Warranty*

Models:

Model	Pressure Bar	Capacity g/h
LOTUS MINI 8	8	8
LOTUS MINI 20	8	20

Versions:

	Standard version
ERH	Built-in redox measurement
SCL2	Built-in chlorine dioxide measurement
SCL17	Built-in chlorine dioxide measurement (high pressure or high temperature)

Options:

Ethernet connection, GPRS option, Data logging to USB, remote control via the ERMES Web Server, MODBUS, WIFI. GAS detector option.

Applications Include:

Food and beverage manufacturing, bottle washing, potable water, process water, produce washing, cooling towers and swimming pools.

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LOTUS MAXI
Chlorine Dioxide Generator

Standard Features:

- Sodium Chlorite/Hydrochloric Acid Method
- Instantaneous CLO$_2$ Production
- Dosing Proportional to Flow or Residual Set-Point
- Flow Control Input
- Tank Level Alarms
- Water Meter Input
- Standby Input
- Internal Data Logging
- 4-20mA Output
- Service Reminder
- Colour Coded Pumps and Suction Lances
- 2 Year Warranty*

Models:

Model	Pressure Bar	Capacity g/h
LOTUS MAXI 80	8	80
LOTUS MAXI 160	8	160
LOTUS MAXI 240	8	240
LOTUS MAXI 400	8	400
LOTUS MAXI 600	5	600
LOTUS MAXI 1000	4	1000

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Modbus

Versions:

	Standard version
ERH	Built-in redox measurement
SCL2	Built-in chlorine dioxide measurement
SCL17	Built-in chlorine dioxide measurement (high pressure or high temperature)

Options:

Ethernet connection, GPRS option, data logging to USB, remote control via the ERMES Web Server, MODBUS, WIFI, GAS detector option.

Applications Include:

Food and beverage manufacturing, bottle washing, potable water, process water, produce washing, cooling towers and swimming pools.

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LOTUS ULTRA
Chlorine Dioxide Generator

Standard Features:

- Sodium Chlorite/Hydrochloric Acid Method
- Instantaneous CLO_2 Production
- Dosing Proportional to Flow or Residual Set-Point
- Flow Control Input
- Tank Level Alarms
- Real Time Production Data
- Pump and Flow sensor Monitoring
- Water Meter Input
- Standby Input
- Internal Data Logging
- 4-20mA Output
- Service Reminder
- Colour Coded Pumps
- 2 Year Warranty*

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ERMES

Modbus

Models:

Model	Pressure Bar	Capacity g/h
LOTUS ULTRA 1	5	1000
LOTUS ULTRA 2	5	2000
LOTUS ULTRA 3	5	3000
LOTUS ULTRA 4	5	4000

Versions:

	Standard version
ERH	Built-in redox measurement
SCL2	Built-in chlorine dioxide measurement
SCL17	Built-in chlorine dioxide measurement (high pressure or high temperature)

Options:

Ethernet connection, GPRS option, data logging to USB, remote control via the ERMES Web Server, MODBUS, WIFI, GAS detector option.

Applications Include:

Food and beverage manufacturing, bottle washing, potable water, process water, produce washing, cooling towers and swimming pools.

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LOTUS AIR
Chlorine Dioxide Generator

Standard Features:

- Sodium Chlorite/Hydrochloric Acid Method
- Batch Chlorine Dioxide Production
- CLO_2 Manufactured and Stored at Atmospheric Pressure
- Flow Control Input
- Tank Level Alarms
- Water Meter Input
- Standby Input
- Service Reminder
- 2 Year Warranty*

Models:

Model	Pressure Bar	Capacity g/h
LOTUS AIR 10	8	10
LOTUS AIR 30	8	30
LOTUS AIR 60	8	60

Versions:

	Standard version
ERH	Built-in redox measurement
SCL2	Built-in chlorine dioxide measurement
SCL17	Built-in chlorine dioxide measurement (high pressure or high temperature)

Options:

Ethernet connection, GPRS option, data logging to USB, remote control via the ERMES Web Server, MODBUS, WIFI. GAS detector option.

Applications Include:

Food and beverage manufacturing, bottle washing, potable water, process water, produce washing, cooling towers and swimming pools.

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ERMES

Modbus

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SECTION 12   Water Softeners

12

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12

DELTA HYDROSOFT 100M
Water Softener

Standard Features:

- Ultra Compact
- Easy to Install
- Easy to Use
- No Power Required
- No Assembly Required
- No Programming Required
- Automatic Demand Based Regeneration
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA WATER ENGINEERING

HYDRO HOME

The amazing **DELTA HYDROSOFT 100M** water softener sets a new standard for efficiency and performance.
It outperforms traditional water softeners, and yet it is small enough to fit under a sink bench.
The softener sits inside the brine tank for a compact tidy finish.
Regenerating automatically as required, the **DELTA HYDROSOFT 100M** regenerates in just 15 minutes, using only 18L of water and 0.3kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
DHSO100M	1500	3/4	150	150 - 600

Dimensions:

240mm (W) x 540mm (L) x 483mm (H)

Applications:

Domestic homes, cafés, commercial kitchens, dishwashers, dispensing machines, humidifiers, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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DELTA HYDROSOFT 200M DUPLEX
Water Softener

Standard Features:

- Ultra Compact
- Easy to Install
- Easy to Use
- No Power Required
- No Assembly Required
- No Programming Required
- Automatic Demand Based Regeneration
- Continuous Uninterrupted Soft Water
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA
WATER SOFTENERS

HYDRO ⊕ HOME

The twin parallel configuration of the **DELTA HYDROSOFT 200M Duplex** water softener provides continuous uninterrupted soft water with easy salt refill.
Staggered regeneration ensures continuous soft water.
Each softener regenerates in just 15 minutes, using only 18L of water and 0.3kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
DHSO200M	2600	3/4	2 x 150	150 - 600

Dimensions:

460mm (W) x 490mm (L) x 470mm (H)

Applications:

Domestic use, cafés, commercial kitchens, dishwashers, dispensing machines, humidifiers, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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DELTA ONEGA
Water Softener

Standard Features:

- Compact
- Easy to Install
- Easy to Use
- No Power Required
- No Assembly Required
- Automatic Demand Based Regeneration
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA WATER SOFTENERS

The **DELTA ONEGA** water softener provides a higher capacity option softening up to 2000L per hour of water, with the same controller design for high performance and efficiency. The **DELTA ONEGA** softener sits inside the brine tank for a compact and tidy installation. Regenerating automatically as required in just 24 minutes, using 40L of water and 0.9kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
ONEGA 1x9L	2000	3/4	400	200 - 600

Dimensions:

276mm (W) x 553mm (L) x 552mm (H)

Applications:

Domestic use, cafés, commercial kitchens, dishwashers, dispensing machines, humidifiers, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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DELTA ONEGA DUPLEX
Water Softener

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Standard Features:

- Compact
- Easy to Install
- Easy to Use
- No Power Required
- Automatic Demand Based Regeneration
- Continuous Uninterrupted Soft Water
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA WATER SOFTENERS

The twin parallel configuration of the **DELTA ONEGA DUPLEX** water softener provides a higher capacity option softening up to 3500L per hour of water, with continuous uninterrupted soft water and easy salt refill. The **DELTA ONEGA DUPLEX** softener sits inside a single container with matching brine tank for a compact and tidy installation. Regenerating automatically as required in just 24 minutes, using 40L of water and 0.9kgs of salt per softener.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
ONEGA 2x9L	3500	3/4	2 x 400	200 - 600

Dimensions:

552mm (W) x 553mm (L) x 552mm (H)

Applications:

Domestic use, cafés, commercial kitchens, dishwashers, dispensing machines, humidifiers, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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DELTA ARENAL
Water Softener

Standard Features:

- Compact
- Easy to Install
- Easy to Use
- No Power Required
- Automatic Demand Based Regeneration
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA
WATER SOFTENERS

The **DELTA ARENAL** water softener provides a higher capacity option softening up to 2100L per hour of water, with the same controller design for high performance and efficiency. The **DELTA ARENAL** softener sits inside the brine tank for a compact and tidy installation. Regenerating automatically as required in just 30 minutes, using 50L of water and 1.2kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
ARENAL 1x12L	2100	3/4	600	200 - 600

Dimensions:

276mm (W) x 553mm (L) x 603mm (H)

Applications:

Domestic use, cafés, commercial kitchens, dishwashers, dispensing machines, humidifiers, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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12

DELTA ONTARIO DUPLEX
Water Softener

Standard Features:

- Easy to Install
- Easy to Use
- No Power Required
- Automatic Demand Based Regeneration
- Continuous Uninterrupted Soft Water
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- 2 Year Warranty*

DELTA
WATER SOFTENERS

The **DELTA ONTARIO DUPLEX** has two 12L water softeners for larger capacity with a separate brine tank. The **DELTA ONTARIO DUPLEX** can soften up to 3700L per hour of water. Regenerating automatically as required, using 50L of water and 1.2kgs of salt per softener. For larger flow rates and capacities simply connect more units in parallel. Maximum pressure 8 bar.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
ONTARIO 2	3700	3/4	1200	200 - 600

Applications:

Production plants, sports facilities, reverse osmosis pre-treatment, package boilers and cooling tower feed.

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DELTA IKARIA
Hot Water Softener

Standard Features:

- Ultra Compact
- Easy to Install
- Easy to Use
- No Power Required
- Automatic Demand Based Regeneration
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- Maximum Temperature 65°C
- 2 Year Warranty*

DELTA
WATER SOFTENERS

The **DELTA IKARIA** water softener can soften up to 750L per hour of hot water at a maximum temperature of 65°C.
Regenerating automatically as required the **DELTA IKARIA** regenerates in just 15 minutes, using only 18L of water and 0.3kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
IKARIA	750	3/4	150	200 - 600

Dimensions:

241mm (W) x 538mm (L) x 480mm (H)

Applications:

For commercial coffee machines, dishwashers, bakery ovens, steamers, hot water dispensers, reverse osmosis appliances, vending machines.

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12

DELTA IKARIA DUPLEX
Hot Water Softener

Standard Features:

- Ultra Compact
- Easy to Install
- Easy to Use
- No Power Required
- Automatic Demand Based Regeneration
- Duplex Model Provides Continuous Uninterrupted Soft Water
- Uses Less Water
- Uses Less Salt
- Bypass Valve
- Maximum Temperature 65°C
- 2 Year Warranty*

DELTA
WATER SOFTENERS

The **DELTA IKARIA DUPLEX** water softener can soften up to 1500L per hour of hot water at a maximum temperature of 65°C.
Regenerating automatically as required the **DELTA IKARIA DUPLEX** regenerates in just 15 minutes, using 18L of water and 0.3kgs of salt.

Models:

Model	Flow Rate l/h	Connections inch	Capacity ppm/m3	Operating Range PPM
IKARIA DUPLEX	1500	3/4	2 x 150	200 - 600

Dimensions:

470mm (W) x 498mm (L) x 463mm (H)

Applications:

For commercial coffee machines, dishwashers, bakery ovens, steamers, hot water dispensers, reverse osmosis appliances, vending machines.

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DELTA MULTIPLE

Water Softeners

For all the advantages of the **DELTA** water softeners with larger capacities, **DELTA** assemble multiple dual water softeners in parallel.

Further information on request.

DELTA
WATER SOFTENERS

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AUTOTROL
Water Softener

Standard Features:

- Fully Automatic
- Quality Components Throughout
- Autotrol 268 High Capacity Valve
- 762 Series Demand Based Regeneration
- 12 Month Warranty*

Models:

Model	Size D x H mm	Service Flow lpm	Backwash Flow lpm	Capacity Grains	Connections Inch BSP
AWS735-268-762	152 x 890	7	5	10,500	1
AWS844-268-762	200 x 1120	17	6	22,000	1
AWS1054-268-762	250 x 1380	30	9	44,000	1
AWS1252-268-762	300 x 1320	45	13	66,000	1
AWS1465-268-762	350 x 1650	70	18	88,000	1

Applications:

Domestic, industrial, food manufacturing, reverse osmosis pre-treatment, boiler feed water.

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AUTOTROL Magnum
Water Softener

Standard Features:

- Valve Manufactured in Noryl
- Operating Pressure 20-125 PSI
- For 4" Tank Opening
- 12 Month Warranty*

Models:

Model	Size D x H mm	Service Flow lpm	Backwash Flow lpm	Capacity Grains	Connections Inch BSP
AWS1665-298-762	400 x 1650	98	24	123,620	2
AWS2061-298-762	500 x 1550	140	37	176,600	2
AWS2472-298-762	600 x 1828	175	53	220,750	2
AWS3062-298-762	760 x 1570	280	83	353,200	2

For water softeners greater than 30" a custom design is required.

Applications:

Industrial water softening, food manufacturing, boiler feed water, reverse osmosis pre-treatment.

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AUTOTROL Duplex
Water Softener

Standard Features:

- Twin Alternating Systems
- Fully Automatic
- Quality Components Throughout
- 764 Series Demand Based Regeneration
- 12 Month Warranty*

For high capacity applications
and where continuous uninterrupted
soft water is required,
a DUPLEX softener is recommended.

Models:

Model	Size D x H mm	Service Flow lpm	Backwash Flow lpm	Capacity Grains	Connections Inch BSP
AWS-844-278-764	200 x 1120	17.5	6	22,075 x 2	1
AWS-1054-278-764	250 x 1370	31.6	9	39,735 x 2	1
AWS-1252-278-764	300 x 1320	45	13	57.395 x 2	1
AWS-1465-278-764	350 x 1650	70	18	88,300 x 2	1

Larger units on request.

Applications:

Industrial water softening, food manufacturing, boiler feed water, reverse osmosis pre-treatment.

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Fleck
Automatic Control Valves

Standard Features:

- Suitable for Filter or Softener Applications
- Fully Automatic
- SXT Digital Controls
- Quality Components Throughout
- 12 Month Warranty*

THE WORLDS NO.1 SELLING SOFTENER CONTROL VALVE

Simple sliding piston technology with fewer moving parts.
Fleck provides higher flowrates and more flexibility in a smaller format.

Models:

Model	Maximum Service Flow lpm	Maximum Backwash Flow lpm	Connections Inch	Maximum Softener Tank Diameter Inch
5800 SXT	80	78	3/4	16
5810 SXT	136	105	1	24
5812 SXT	165	125	1-1/4	24

Larger units on request.

Applications:

Domestic and industrial water softening, food manufacturing, boiler feed water, reverse osmosis pre-treatment.

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SECTION 13   Reverse Osmosis

13

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PRF RO UNIT
Reverse Osmosis

Standard Features:

- Compact
- Low Cost
- Pump Free
- Easy to Maintain
- Built-in Pre-Filtration
- Up to 2500 Litres Per Day
- Built-In Water Shut Off Valve

The PRF RO offers a viable alternative to traditional RO for small scale applications.

Driven by water pressure, the PRF RO utilises high output low pressure membranes, eliminating the need for pumps.

Compact, designed for domestic undersink use, these versatile units have found their way into many small industrial applications as well.

Models:

Model	Description
PRF RO	Reverse Osmosis system
3027637	PRF RO membrane
1244746	PRF activated carbon pre-filter
1266690	PRF sediment cartridge

Applications:

Domestic potable water, coffee makers, water coolers, humidifiers, aquariums, first stage treatment for laboratories. Suitable for use on potable water only.

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RO Machines
Reverse Osmosis

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Standard Features:

- SS Frame
- Permeate Flow Meter
- Concentrate Flow Meter
- Recycle Flow Meter
- Inlet Pressure Gauge
- Operating Pressure Gauge
- Concentrate Pressure Gauge
- 2 Stage Pre Filters
- Microprocessor Control
- Conductivity Monitor
- Auto Flush System
- Manual Flush Push Button

Models:

Model	Permeate Flow l/h	Recovery Rate %	Rejection rate %	No. of Elements	Membrane Size inch	Power Consumption
RO 1500	180	50-75	95-98	1	4.0 x 40	1.5kW 1 phase
RO 3000	360	50-75	95-98	2	4.0 x 40	1.5kW 1 phase
RO 6000	725	50-75	95-98	4	4.0 x 40	2.2kW 3 phase
RO 9000	1090	50-75	95-98	6	4.0 x 40	3kW 3 phase
RO 12000	1450	50-75	95-98	8	4.0 x 40	4kW 3 phase
RO 15000	1815	50-75	95-98	10	4.0 x 40	4kW 3 phase
RO 18000	2180	50-75	95-98	12	4.0 x 40	5kW 3 phase

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EMEC Controllers
Reverse Osmosis

Standard Features:

- Microprocessor Based RO System Controller
- IP56 Wall Mounting Configuration
- Working Modes: Continuous Production, Washing, Waiting, Manual Production (with water meter only)
- Water Meter Input, Water Meter Output
- Dual Conductivity Display
- Standby, High Level, Low Level Input
- 3 Set Points
- Alarms: High Pressure, High Temperature for Osmosis Pump, Damaged Probes, Threshold, Dosing, Filter
- 2 Year Warranty*

Inlet and outlet conductivity display, RO pump output, dosing pump output,
inlet solenoid control, outlet solenoid control, flushing solenoid control,
level control for storage tank, inlet and outlet pressure monitoring, standby input.

Also available in a panel mount version
to suit OEM assemblies.

Models:

Model	Configuration
LDOSIN PLUS	Wall mount IP65 housing
OSIN DIG	OEM version

Options:

Ethernet, GSM or WIFI communication. Local or remote control, ERMES web communication.

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SECTION 14   Demineralisers

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14 | Demineraliser Bottles

Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforcing
- 150 psi
- 50°C

Used to make small volumes of
demineralised water,, demineraliser bottles
can make high quality pure water
at high flowrates.

You can refill the bottles yourself
with mixed bed resin, or
we offer an exchange service on request.

Models:

Model	Size D x H mm (inch)	Connections inch	Resin Volume Litre
PW716	178 x 400 (7 x 16)	3/4	7.5
PW844	200 x 1120 (8 x 44)	3/4	25

Larger Sizes On Request.

Applications:

Laboratory use, pharmaceutical ingredients and reagents, cosmetic manufacturing, battery filling, streak free cleaning, polisher after other treatment stages.

Regenerating Demineraliser

14

Standard Features:

- Automatic Autotrol Control Heads
- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforcing
- 150 psi
- 50°C
- Automatic or Semi-Automatic Regeneration using Hydrochloric Acid & Caustic Soda

For the production of
high purity water
for industrial and commercial
applications.

Models:

Model	Flow Rate Max l/m
ADI735	3.7
ADI844	5.7
ADI1054	11
ADI1252	15
ADI1465	22

Applications:

Laboratory use, pharmaceutical ingredients and reagents, cosmetic manufacturing, battery filling, streak free cleaning, electroplating, powder coating.

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SECTION 15   Ultraviolet Disinfection

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Ultraviolet Disinfection
Information

Ultraviolet (UV) systems can provide a quick, effective and chemical free solution for many applications.

UV light in the range of 200 to 280 nanometres is the most effective range for pathogen destruction and is known as the germicidal spectrum, 254 nanometres being the most effective value.

UVC light has the ability to inactivate a wide range of nuisance micro-organisms by damaging their DNA. This damage prevents the organism from reproducing thus rendering them harmless.

The amount of UV energy you apply is known as the UV dose. It is a product of the UV intensity (energy per unit of surface area) and the exposure time. The UV dose is typically expressed in $\mu Wsec/cm^2$ or mJ/cm^2. The adjustment of either the intensity or flow rate will adjust the applied dose. This is why the same size UV can have different published UV dose rates, depending upon the lamp output, chamber design and the flowrate. You can achieve different UV dose rates simply by changing the flow rate.

The UV dose required to achieve inactivation depends upon the micro-organism. For example e-coli is inactivated at a dose rate of $6.6mJ/cm^2$, and both Giardia Lamblia and Cryptosporidium at $10mJ/cm^2$. Some viruses and fungi require higher dose rates.

Typically flow rates are quoted at three distinct dose rates. The first is 16mJ/cm2, and is based on an old US public health publication. A dose rate of 30mJ/cm2 has since become an industry standard. 40mJ/cm2 has recently been adopted by NSF, and as a result, by some public authorities as well.

The important thing is to note that different suppliers and manufacturers are quoting different dose rates, and you need to take this into account when comparing units.

The UV chamber is a pressure vessel and should be manufactured to ASME guidelines. The use of properly rated pressure tube and correct manufacturing ensures reliability in service and guards against failure.

The quartz sleeve must be manufactured from pure quartz to provide optimum transmissibility, strength, and provide a thermal barrier with the water being treated.

There are many different types of lamp on the market, and they also come in many lengths, connections and configurations. The effectiveness of any UV unit should have been verified with a specific lamp type. Fitting the wrong lamp type may compromise the performance of the unit. For this reason, spare parts should be genuine, or at least specifically designed for the application by a reputable supplier. To this end, we promote genuine LUMINOR spare parts.

Quality matters when it comes to protecting your health, and we recommend you choose a UV based on quality and reliability rather than on the lowest available price.

LUMINOR quality is unsurpassed, and backed by an industry leading 3 year warranty.

NOTE: To prevent particles from shading micro-organisms, pre-filtration to 5 microns is recommended for all UV systems.

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Domestic Ultraviolet Disinfection

LUMINOR Blackcomb Series 4

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Standard Features:

- Flow Rates Quoted at 30mJ/cm² and 95%UVT
- 304SS Axial Flow Reactors for Optimum Efficiency and Lamp & Sleeve Service Without Draining the Water
- Low Pressure Coated UV Lamps for Consistent UV Output Throughout Life
- LED Lamp Countdown Timer
- Sensor Port on Chamber for Future Upgrade Options
- Glow Plug Indicator Fitted
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Port Size inch
LB4-024	7.6	8	6.4 x 26.2	1/2
LB4-034	11	15	6.4 x 36.4	1/2
LB4-064	23	22	6.4 x 54.2	3/4
LB4-104	41	39	6.4 x 89.5	3/4
LB4-154	57	50	6.4 x 101.6	1
LB4-204	79	42	8.9 x 91.7	1
LBH4-254	95	67	8.9 x 68.3	1
LBH4-404	150	101	8.9 x 103.4	1-1/2

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB5 controller with colour screen, alarm messaging, expansion port. LB6 controller with LB5 features plus UV sensor and intensity display. Optional 316SS reactor chamber.

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Validated Ultraviolet Disinfection
LUMINOR BLACKCOMB NSF55 Class A

Standard Features:

- NSF 55 Class A Systems
- NZ Drinking Water Standards Compliant
- NSF Class A Systems are Used for Primary Disinfection to Inactivate or Kill Bacteria, Viruses & Cysts in Contaminated Water
- Normal Flows up to 68lpm
- Flow Rates Quoted at $40mj/cm^2$ and 70%UVT
- 99.99% Destruction of Bacteria, Viruses and Protozoan Cysts
- 304SS Polished and Passivated Tubing
- Continuous Monitoring
- Colour Interface with System Diagnosis and Fault Codes
- Future Proof Expandability Port
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR ENVIRONMENTAL

W WaterMark

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LB6-024A	6.1	8	6.4 x 26.2	1/2
LB6-034A	8.3	15	6.4 x 36.4	1/2
LB6-064A	13	22	6.4 x 52.1	3/4
LB6-104A	24	39	6.4 x 87.1	3/4
LB6-154A	30	50	6.4 x 101.6	1
LBH6-404A	68	115	8.9 x 103.4	1-1/2

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

Water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Light Commercial Ultraviolet Disinfection
LUMINOR RAINIER Series

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Standard Features:

- Modular Control Panel with LED Display for Lamp Life, Running Hours, Lamp Failure, Remote On
- Flow Rates Quoted at 30mJ/cm² and 95%UVT
- 316SS Polished Reactors with Fixed Mounting Legs
- Constant Current Electronic Ballasts in IP54 Case
- Reliable, Industry Proven Low Pressure Amalgam (LP-AM) Coated UV Lamps with Ceramic Bases for Durability - 12,000 hours Lamp Life
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model (RAINIER Series 5.0)	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LR5-354	132	104	10 x 69 x 14	1-1/2
LR5-554	220	152	10 x 91 x 14	2
LR5-854	322	207	10 x 119 x 14	2
LR5-1104	416	2 x 152	15 x 91 x 20	2-1/2
LR5-1404	530	2 x 172	15 x 103 x 20	3
LR5-1754	662	2 x 207	15 x 119 x 20	4

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LR6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management.

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Industrial & Municipal Ultraviolet Disinfection
LUMINOR K2 Series

Standard Features:

- Control Panel with LED Display for Lamp Life, Running Hours, Lamp Failure, Remote On
- Flow Rates Quoted at 30mJ/cm² and 95%UVT
- 316SS Polished Reactors
- Constant Current Electronic Ballasts in IP54 Case
- Reliable, Industry Proven Low Pressure Amalgam (LP-AM) Coated UV Lamps with Ceramic Bases for Durability - 12,000 hours Lamp Life
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model (without sensor)	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LK5-A22	659	2 x 207	10 x 69 x 14	3 flange
LK5-A42	1530	4 x 207	10 x 91 x 14	4 flange
LK5-A62	2360	6 x 207	10 x 119 x 14	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LK6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output.

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Specialty Applications
LUMINOR BLACKCOMB 12VDC

Standard Features:

- Suitable for Solar, Mobile, Marine and Applications Where a Safe Operating Voltage is Preferred
- 304SS Reactor chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mJ/cm2 and 95%UVT
- Available with LB5 & LB6 Controllers
- Colour Screen with Full Diagnostics & Warnings
- Expansion Port
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LB5-02-12V	7.6	8	6.4 x 26.2	1/2
LB5-03-12V	11.4	15	6.4 x 36.4	1/2
LB5-06-12V	22.7	22	6.4 x 54.2	3/4

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Specialty Applications
LUMINOR Hot Water Systems

Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mj/cm2 at 70%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-HW	38	45	8.9 x 50.8	1
LBH4-254-HW	61	67	8.9 x 68.3	1
LBH4-404-HW	106	101	8.9 x 103.4	1-1/2
LR5-554-HW	144	152	10 x 91 x 14	2
LR5-854-HW	227	207	10 x 119 x 14	2
LR5-1104-HW	242	304	15 x 91 x 20	2-1/2
LR5-1404-HW	306	344	15 x 103 x 20	3
LR5-1754-HW	360	414	15 x 119 x 20	4
LK5-A42-HW	681	828	1393 x 451 x 248	4 flange
LK5-A62-HW	1067	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Specialty Applications
LUMINOR Low UVT Systems

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Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mj/cm2 at 50%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-50	23	45	8.9 x 50.8	1
LBH4-254-50	38	67	8.9 x 68.3	1
LBH4-404-50	64	101	8.9 x 103.4	1-1/2
LR5-554-50	152	152	10 x 91 x 14	2
LR5-854-50	133	207	10 x 119 x 14	2
LR5-1104-50	136	304	15 x 91 x 20	2-1/2
LR5-1404-50	170	344	15 x 103 x 20	3
LR5-1754-50	193	414	15 x 119 x 20	4
LK5-A42-50	333	828	1393 x 451 x 248	4 flange
LK5-A62-50	530	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Specialty Applications
LUMINOR Total Organic Carbon Reduction

Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 150mj/cm2 at 98%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty

LUMINOR
ENVIRONMENTAL

Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-TOC	12	45	8.9 x 50.8	1
LBH4-254-TOC	19	67	8.9 x 68.3	1
LBH4-404-TOC	30	101	8.9 x 103.4	1-1/2
LR5-554-TOC	45	152	10 x 91 x 14	2"
LR5-854-TOC	64	207	10 x 119 x 14	2
LR5-1104-TOC	83	304	15 x 91 x 20	2-1/2
LR5-1404-TOC	106	344	15 x 103 x 20	3
LR5-1754-TOC	132	414	15 x 119 x 20	4
LK5-A42-TOC	303	828	1393 x 451 x 248	4 flange
LK5-A62-TOC	473	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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LUMINOR Ultraviolet Disinfection

Options and Accessories

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All LUMINOR reactors have a common sensor port, fitted with either a UV sensor or glow plug.
This means that all models can be upgraded, future proofing your installation.

Controller Options

LB4.1: Constant output controller with count down lamp timer.

LB5.1: Features as per 4.1, plus colour screen, Full diagnostic and warnings, expansion port for future upgrades and options.

LB6.1: Features as per 5.1, plus UV intensity sensor and display.

Package Options

Luminor Ultraviolet sterilisers are available in a range of packaged systems combining filtration and sterilisation in a single convenient package.

Please enquire.

Ultrasonic Flow Meter

Real time flow monitoring for LB5 and LB6 units. No or low-flow signal for the UV controller.

The controller will reduce power to lamp, saving power, reducing quartz sleeve fouling and providing cooler operating temperatures.

Temperature Management

This optional bolt-on cooling fan runs continuously to lower the operating temperature of the ultraviolet steriliser.

Recommended for units with high output lamps.

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LUMINOR Ultraviolet Disinfection
Options and Accessories

Temperature Management

The TRV is a mechanical temperature management valve. When the water reaches a pre-set temperature the valve automatically opens dumping the hot water to drain.

Recommended for applications where there are extended periods without flow, or where the temperature management is required.

4-20mA Output Option

Provides a 4-20mA signal out for UV intensity.

Suitable for LB6.1 controllers

Remote Alarm Option

Provides a voltage free changeover relay contact for switching a remote alarm.

Suitable for LB5.1 and LB6.1 controllers

Solenoid Valve Option

Provides a shut off solenoid valve to turn off the water if the lamp fails or the UV intensity drops below 50%.

With manual over-ride.

Suitable for LB5.1 and LB6.1 controllers.

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LUMINOR Ultraviolet Disinfection
Options and Accessories

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UV Sensor Module

Allows upgrade of all 5.1 systems, or replacement for all 6.1 systems.

Sherpa Wireless Monitoring Module

Remote monitoring of all major and minor alarms on the Blackcomb UV models.

UV Concierge

Check your Blackcomlb UV status remotely.

Integrated WiFi solution with data-logging capabilities.

Cloud based information storage.

SMS and email alerts for all major alarms.
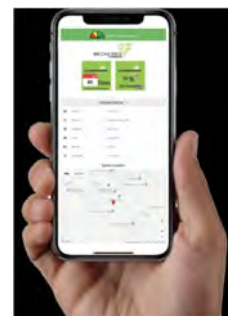
Dealer Portal

With the optional dealer module, you can now monitor all of the UV systems you service and get real time reporting on system status. You will know which systems are in need of attention and when servicing is due.

SMS and email alarm messaging is included.

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LED Ultraviolet Disinfection
LUMINOR Glacier UVC LED Series

Standard Features:

- Compact, High Power Density
- Integral Solid State Control Architecture
- Eco Friendly, Mercury Free
- 5,000 hrs LED Life
- Easy to Use, Install and Maintenance Free
- Temperature Independent Ensuring Constant Output
- Automatic Detection of Water Flow for On-Demand Disinfection for GUV4S & GUV5S
- Fully Integrated LED Based UV Disinfection System with Full Colour Screen Interface for GUV-5S
- Flow Rates Quoted at 30mJ/cm² and 95%UVT
- 3 Year Warranty
- 5000hr LED Usage Warranty

GLACIERUVLED by LUMINOR

UV LED System

LUMINOR ENVIRONMENTAL

Models:

Model	Flow l/m	Input Power Watts	Voltage	Tube Connections OD inch	Automatic water flow detection for on-demand disinfection
GUV-2	0.6	8	12	3/8	
GUV-5	2.4	12	12	3/8	
GUV-4S	2.4	15	12	3/8	✓
GUV-5S	2.4	16	12	3/8	✓

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

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Ultraviolet Disinfection
LUMINOR Spare Parts

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LUMINOR Spare Parts:

Model	Quartz Sleeve	UV Lamp	Model	Quartz Sleeve	UV Lamp
LB4-024	RQ210	RL210	LBH4-404-HW	RQ950	RL950HW
LB4-034	RQ290	RL290	LR5-554-HW	RQ720	RL720AHW
LB4-064	RQ470	RL470	LR5-854-HW	RQ1000	RL1000AHW
LB4-104	RQ820	RL820	LR5-1104-HW	2 x RQ720	2 x RL720AHW
LB4-154	RQ999	RL999	LR5-1404-HW	2 x RQ843	2 x RL843AHW
LB4-204	RQ850	RL850	LR5-1754-HW	2 x RQ1000	2 x RL1000AHW
LBH4-254	RQ600	RL600HO	LK5-A42-HW	4 x RQK2	4 x RL1000AHW
LBH4-404	RQ950	RL950HO	LK5-A62-HW	6 x RQK2	6 x RL1000AHW
LB6-024A	RQ210	RL210	LBH4-154-50	RQ420	RL420HO
LB6-034A	RQ290	RL290	LBH4-254-50	RQ600	RL600HO
LB6-064A	RQ470	RL470	LBH4-404-50	RQ950	RL950HO
LB6-104A	RQ820	RL820	LR5-554-50	RQ720	RL720A
LB6-154A	RQ999	RL999	LR5-854-50	RQ1000	RL1000A
LBH6-404A	RQ950	RL950HO	LR5-1104-50	2 x RQ720	2 x RL720A
LR5-354	RQ500	RL500A	LR5-1404-50	2 x RQ843	2 x RL843A
LR5-554	RQ720	RL720A	LR5-1754-50	2 x RQ1000	2 x RL1000A
LR5-854	RQ1000	RL1000A	LK5-A42-50	4 x RQK2	4 x RL1000A
LR5-1104	2 x RQ720	2 x RL720A	LK5-A62-50	6 x RQK2	6 x RL1000A
LR5-1404	2 x RQ843	2 x RL843A	LBH4-154-TOC	RQ420	RL420HO-TOC
LR5-1754	2 x RQ1000	2 x RL1000A	LBH4-254-TOC	RQ600	RL600HO-TOC
LK5-A22	2 x RQK2	2 x RL1000A	LBH4-404-TOC	RQ950	RL950HO-TOC
LK5-A42	4 x RQK2	4 x RL1000A	LR5-554-TOC	RQ720	RL720A-TOC
LK5-A62	6 x RQK2	6 x RL1000A	LR5-854-TOC	RQ1000	RL1000A-TOC
LB5-02-12V	RQ210	RL210	LR5-1104-TOC	2 x RQ720	2 x RL720A-TOC
LB5-03-12V	RQ290	RL290	LR5-1404-TOC	2 x RQ843	RL843A-TOC
LB5-06-12V	RQ470	RL470	LR5-1754-TOC	2 x RQ1000	2 x RL1000A-TOC
LBH4-154-HW	RQ420	RL420HW	LK5-A42-TOC	4 x RQK2	4 x RL1000A-TOC
LBH4-254-HW	RQ600	RL600HW	LK5-A62-TOC	6 x RQK2	6 x RL1000A-TOC

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SECTION 16   Ultrasonic Algae Control

Toscano Dumo - Ultrasonic Algae Control   Page 1

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Toscano Dumo
Ultrasonic Algae Control

Standard Features:

- Chemical Free
- Non-Toxic
- Easy to Install
- Low Power Consumption
- Minimal Maintenance
- Doesn't Cause Harm to People, Animals or Plants
- Automatic Signal Generator with Automatic Multi-Frequency Sequencing

Ultrasound against algae
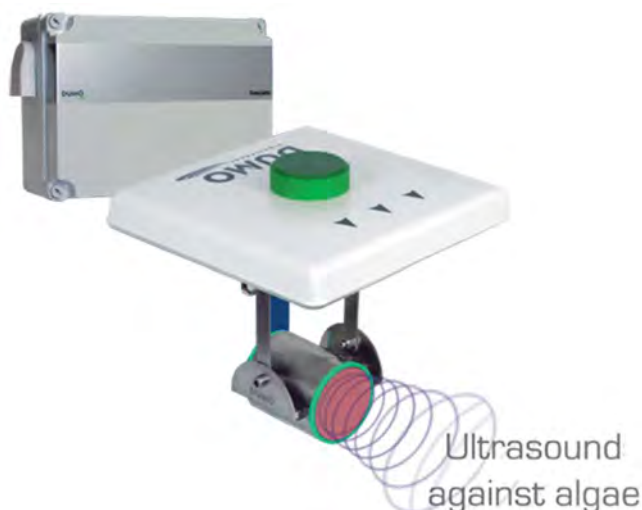
The Dumo Ultrasonic Algae Cleaner transmits ultrasonic sound waves through water to control algal growth.

The water proof emitter is suspended at the optimal depth by the float and a transmitter cable runs back to a land based control box.

Models:

Model	Supply Voltage	Transmitter Cable Mtr	Effective Range Mtr
AC60	230VAC	20	25 - 60
AC180	230VAC	30	100 - 180

Applications:

Reservoirs, settling ponds, storage ponds, lakes, fountains.

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SECTION 17   Chemical Mixers

17

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EMEC Mechanical Mixers

Standard Features:

- Top Mounting Flanged Mixers
- IP55
- Designed for Tanks from 100 to 1000L
- 3 Phase or Single Phase
- PVC Coated Stainless Steel Shaft
- Fluorocarbon Rotary Seal Fitted to the Flange to Protect Motor from Chemical Vapours

| MIXVN | MIXN |

emec
SIMPLE AS WATER

Models:

Model	Rated Power kW	Rotational Speed rpm	Shaft Length mm	Propeller Diameter mm	Use for Tanks Sizes
MIX8N	0.09	65 or 200	630, 730	150	up to 250L
MIXV8N	0.09	1400	630, 730	70	up to 250L
MIX4N	0.18	65, 200 or 400	730, 980, 1100	200	up to 1000L
MIXV4N	0.18	1400	730, 980	90	up to 500L
MIX2N	0.37	65, 200 or 400	1100	200	up to 1000L
MIXV2N	0.37	1400	730, 980, 1100	90	up to 1000L

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EMEC Manual Mixers

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Standard Features:

- Chemical Tank Mixer
- Manual Mixer for Chemical Tanks, to keep Chemical Solutions in Suspension

emec
SIMPLE AS WATER

Models:

Model	Mixer	Shaft Length mm	Propeller Diameter mm
MIX MAN 450	PVC	450	130
MIX MAN 650	PVC	650	130
MIX MAN 770	PVC	770	130
MIX MAN 1100	PVC	1100	130

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17   EMEC Static Mixers

Standard Features:

- In-Line UPVC Static Mixer
- Polypropylene Mixing Elements
- 1/2 inch Injection Valve
- Serviceable

emec
SIMPLE AS WATER

Models:

Model	Size inch	Connection	Injection Valve inch
MIX STATICO D40	1-1/4	DN40 Socket Ends	1/2
MIX STATICO 1-1/4	1-1/4	BSP Threads	1/2
MIX STATICO 1-1/2	1-1/2	BSP Threads	1/2
MIX STATICO 2	2	BSP Threads	1/2

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Allaqua Static Mixers

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Standard Features:

- In-Line UPVC Static Mixer
- Clear PVC Housing
- UPVC Mixing Elements
- Threaded Connection

Allaqua®

Models:

Model	Size	Connections inch	Flow m3/hr	Length mm
ASM15	DN15	1/2	0.3 - 0.6	200
ASM20	DN20	3/4	0.3 - 1.2	400
ASM25	DN25	1	0.9 - 1.8	400
ASM32	DN32	1-1/4	1.4 - 2.8	400
ASM40	DN40	1-1/2	2.2 - 4.5	450
ASM50	DN50	2	3.5 - 7	500

Options:

UPVC mixer with 316SS mixing elements. 304SS and 316SS mixers. Flange connections on request.
Available up to DN300

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SECTION 18 Ozone

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Ozone Generators
Wall Mounted

Standard Features:

- Stainless Steel Mounting Box
- Air-Cooled
- Integrated Timer
- Integrated Air Pump
- Suitable for Humidity ≤90%
- 1 Year Warranty*

Allaqua®

Models:

Model	Capacity G/h	Dimensions mm	Power watts
AO5GW	5	461 x 180 x 240	82
AO6GW	6	461 x 180 x 240	136
AO8GW	8	461 x 180 x 240	156
AO10GW	10	461 x 180 x 240	220

Options:

Adjustable Ozone output.
Integrated air dryer.

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Ozone Generators
Free Standing

Standard Features:

- Stainless Steel Mounting Box
- Air Cooled
- Integrated Timer
- Integrated Air Pump
- Suitable for Humidity ≤90%
- 1 Year Warranty*

Allaqua®

Models:

Model	Capacity G/h	Dimensions mm	Power watts
AO10G	10	360 x 260 x 730	206
AO15G	15	360 x 260 x 730	271
AO20G	20	360 x 260 x 730	306
AO30G	30	420 x 260 x 1090	481
AO40G	40	420 x 260 x 1090	601
AO50G	50	450 x 290 x 1415	824
AO60G	60	450 x 290 x 1415	868

Options:

Adjustable Ozone output.
Integrated air dryer.
Capacities up to 500G/h.

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Ozone Generators
Portable

Standard Features:

- Air Cooled
- Integrated Timer
- Integrated Air Pump
- Suitable for Humidity ≤90%
- 1 Year Warranty*

Allaqua®

Models:

Model	Capacity G/h	Dimensions mm	Power watts
AO3GP	3	175 x 371 x 282	82
AO5GP	5	175 x 371 x 282	122
AO6GP	6	175 x 371 x 282	132
AO8GP	8	175 x 371 x 282	183
AO10GP	10	175 x 371 x 282	198

Options:

Adjustable Ozone output.
Integrated Air Drier

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Ozone Accessories
Air Stones & Ozone Injectors

18

Standard Features:

- Fine Bubble Diffusers for Delivering Ozone into a Water Tank

Air Stones

Allaqua®

Models:

Model	Diameter mm	Inlet mm	Air Flow l/m
BL4	40	6	2
BL8	80	6	16
BL12	120	6	21
BL15	150	6	28

Standard Features:

- For Delivering Ozone into a Pipeline
- PVDF Construction

Ozone Injectors

Allaqua®

Models:

Model	Size inch	Gas Inlet inch	Water Flow m³/Hr	Length mm
A12057	1/4	1/8	0.05 - 0.25	60
A25100	1/2	1/4	0.2 - 1	100
A25152	3/4	1/4	1 - 3	152
A32235	1	3/8	3 - 10	230
A48275	1-1/2	1/2	10 - 25	275
A58295	2	1/2	25 - 50	295

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SECTION 19   Filtration

19

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19 | **Stainless Steel Cluster Filter Housings**

Standard Features:

- 304 Stainless Steel
- 7 Cartridges Per Housing
- Fits Standard Open End Cartridges
- Temperature Range 4-140°C
- 400 kPa
- Drain Fitting
- Vent or Gauge Port

For the removal of
particulate matter from water.

Models:

Model	Height mm	Fits Cartridges inch	Flow Rate l/m	Connections NPT inch
CF10-7SS	540	10 x 2.5	105	1-1/2
CF20-7SS	780	20 x 2.5	210	1-1/2
CF30-7SS	1060	30 x 2.5	315	2
CF40-7SS	1340	40 x 2.5	420	2

Options:

Bag filters version, high pressure versions, 316 SS version, alternative cartridge mountings, alternative cartridge quantities.

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PVC Cluster Filter Housings

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Standard Features:

- UPVC
- 5 Cartridges Per Housing
- Fits Standard Open End Cartridges
- Temperature Range 4-38°C
- 500 kPa
- Vent or Gauge Port

For the removal of
particulate matter from water.

Models:

Model	Height mm	Fits Cartridges inch	Flow Rate l/m	Connections Socket inch
CF10-5PVC	480	10 x 2.5	75	1-1/2
CF20-5PVC	730	20 x 2.5	150	1-1/2
CF30-5PVC	980	30 x 2.5	225	2
CF40-5PVC	1230	40 x 2.5	300	2

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Manual Multimedia Filters

Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforced
- 600 kPa
- 0-50°C
- 3 Position Manual Control Valve
  Service / Backwash / Rinse
- 12 Month Warranty*

For the removal of
particulate matter from water.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
MMMF844	200 x 1120	18	18	1
MMMF1054	250 x 1380	30	28	1
MMMF1252	300 x 1320	42	40	1

Options:

Larger sizes on request.

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Automatic Multimedia Filters

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Standard Features:

- Automatic Timer Controlled Backwash
- Autotrol 263 High Capacity Valve
- 600 kPa
- 12 Month Warranty*

For the removal of
particulate matter from water.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
AMMF844-263-742	200 x 1120	18	18	1
AMMF1054-263-742	250 x 1380	30	28	1
AMMF1252-263-742	300 x 1320	42	40	1

Options:

Larger sizes on request.

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Manual Activated Carbon Filters

Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforced
- 600 kPa
- 0-50°C
- 3 Position Manual Control Valve
  Service / Backwash / Rinse
- 12 Month Warranty*

For the removal of chlorine,
taste & odours from water.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
MCF735	175 x 890	4	5	1
MCF844	200 x 1120	7	10	1
MCF1054	250 x 1380	12	16	1
MCF1252	300 x 1320	17	25	1
MCF1465	350 x 1650	25	35	1

Options:

Larger sizes on request.

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Automatic Activated Carbon Filters

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Standard Features:

- Automatic Backwash Timer
- Autotrol 263 High Capacity Valve
- 600 kPa
- 12 Month Warranty*

For the removal of chlorine,
taste & odours from water.

Models:

Model	Size D x H mm	Service Flow Max l/m	Backwash Flow min l/m	Connections BSP inch
ACF735-263-742	175 x 890	4	5	1
ACF844-263-742	200 x 1120	7	10	1
ACF1054-263-742	250 x 1380	12	16	1
ACF1252-263-742	300 x 1320	17	25	1
ACF1465-263-742	350 x 1650	25	35	1

Options:

Larger sizes on request.

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Manual Pyrolox Iron Filters

Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforced
- 600 kPa
- 0-50°C
- 3 Position Manual Control Valve
  Service / Backwash / Rinse
- 12 Month Warranty*

For the removal of iron, manganese & hydrogen sulphide from water.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
MPF735	175 x 890	12	17	1
MPF844	200 x 1120	15	24	1
MPF1054	250 x 1380	23	37	1
MPF1252	300 x 1320	35	54	1

Operating Parameters:

TDS<500, pH>6.5, Iron<10ppm, Manganese <8ppm, Hydrogen Sulphide<10ppm.

Options:

Larger sizes on request.

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Automatic Pyrolox Iron Filters

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Standard Features:

- Timer Based Automatic Backwash
- Autotrol 263 High Capacity Valve
- 600kPa
- 12 Month Warranty*

For the removal of iron, manganese & hydrogen sulphide from water.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
APF735-263-742	175 x 890	12	17	1
APF844-263-742	200 x 1120	15	24	1
APF1054-263-742	250 x 1380	23	37	1
APF1252-263-742	300 x 1320	35	54	1

Operating Parameters:

TDS<500, pH>6.5, Iron<10ppm, Manganese <8ppm, Hydrogen Sulphide<10ppm.

Options:

Larger sizes on request.

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pH Neutralisers

Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforced
- 600 kPa
- 0-50°C
- Flow Rates and Performance Varies with Water Quality
- 12 Month Warranty*

Acidic water causes problems with corrosion of plumbing fittings. By dissolving metals it can cause water leaks and staining of household fixtures. A neutralising filter provides an economical solution.

Water flows through a tank containing a specially selected Calcite based media, which dissolves into the water to raise the pH. The media can be topped up periodically as required.

Models:

Model	Size D x H mm	Typical Application	Connections BSP inch
NF718	175 x 450	Small Flows	1
NF735	175 x 890	Small House	1
NF844	200 x 1100	Medium House	1
NF1052	250 x 1320	Large House	1

Options:

Larger sizes for commercial applications on request.
Manual or automatic backwash versions for applications with high solids content.

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Arsenic Removal Filters

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Standard Features:

- Polyethylene Tank Liner
- Spiral Wound Fibreglass Reinforced
- 600 kPa
- 0-50°C
- Flow Rates and Performance Varies with Water Quality
- 12 Month Warranty*

Arsenic contamination is a rare problem in New Zealand, but it does occur in ground water from time to time.

We can supply a bottle containing a specialised arsenic media for the removal of arsenic from potable water supplies. The media eventually saturates, and the bottle is then refilled.

Self regenerating units are also available. A custom design is recommended for each application.

Models:

Please enquire.

Options:

Larger sizes for commercial applications on request.
Manual or automatic backwash versions for applications with high solids content.
Self regenerating versions on request.

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Nitrate Removal Filters

Standard Features:

- Fully Automatic
- Autotrol 268 High Capacity Valve
- 762 Series Demand Based Regeneration
- 600kPa
- 12 Month Warranty*

Nitrate contamination of ground water is an increasing health concern.
Nitrate specific ion exchange resin targets this growing problem.

The filter automatically regenerates using salt.

Models:

Model	Size D x H mm	Service Flow max l/m	Backwash Flow min l/m	Connections BSP inch
ANF844-268-762	200 x 1120	10	6	1
ANF1054-268-762	250 x 1380	20	9	1
ANF1252-268-762	300 x 1320	50	13	1
ANF1465-268-762	350 x 1650	80	18	1

Options:

Larger sizes for commercial applications on request.

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Cartridge Filter Housings

5" Filter Housing - Clear

Model	Description
AFHC05S1/2	5" 3 piece filter housing
Size	For 5" x 2.5" cartridge
Connections	1/2" BSP
Specifications	0-50°C, 800 Kpa, complete with bleed valve, spanner and wall bracket

10" Filter Housing - Clear

Model	Description
AFHC10S3/4	10" filter housing
Size	For 10" x 2.5" cartridge
Connections	3/4" BSP
Specifications	0-50°C, 800 Kpa, complete with bleed valve, spanner and wall bracket

10" Filter Housing - Opaque

Model	Description
AFHO10S3/4	10" filter housing
Size	For 1x 10" x 2.5" cartridge
Connections	3/4" BSP
Specifications	0-50°C, 800 kPa, complete with bleed valve, spanner and wall bracket.

20" Filter Housing - Opaque

Model	Description
AFHO20S3/4	20" filter housing
Size	For 20" x 2.5" cartridge
Connections	3/4" BSP
Specifications	0-45°C, 600 Kpa, complete with bleed valve, spanner and wall bracket

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Cartridge Filter Housings

10" Big Filter Housing

Model	Description
AFHO10B1	10" big filter housing complete
Size	For one 10" x 4" cartridge
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valve, spanner and wall bracket

10" Big Filter Housings

Model	Description
AFHO10B1-2	10" big white filter housing
Size	For two 10" x 4" jumbo cartridges
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valves, spanner and wall bracket

10" Big Filter Housings

Model	Description
AFHO10B1-3	10" big white filter housing
Size	For three 10" x 4" jumbo cartridges
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valves, spanner and wall bracket

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Cartridge Filter Housings

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20" Big Filter Housing

Model	Description
AFHO20B1	20" big filter housing complete
Size	For one 20" x 4" cartridge
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valve, spanner and wall bracket

20" Big Filter Housings

Model	Description
AFHO20B1-2	Two 20" big white filter housing
Size	For two 20" x 4" jumbo cartridges
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valves, spanner and wall bracket

20" Big Filter Housings

Model	Description
AFHO20B1-3	Three 20" big white filter housing
Size	For three 20" x 4" jumbo cartridges
Connections	1" BSP
Specifications	0-50°C, 600 kPa, integral bleed valves, spanner and wall bracket

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Filter Cartridges

Polypropylene Spun Fibre Filter Cartridges

Model	Length inch	Diameter inch	Micron Rating	Cartridge Type
2100250N	10	2.5	50	Nominal
2100220N	10	2.5	20	Nominal
2100205N	10	2.5	5	Nominal
2100201N	10	2.5	1	Nominal
2200250N	20	2.5	50	Nominal
2200220N	20	2.5	20	Nominal
2200205N	20	2.5	5	Nominal
2200201N	20	2.5	1	Nominal
2300210N	30	2.5	10	Nominal
2300205N	30	2.5	5	Nominal
2300201N	30	2.5	1	Nominal
2400210N	40	2.5	10	Nominal
2400201N	40	2.5	1	Nominal
2100450N	10	4	50	Nominal
2100420N	10	4	20	Nominal
2100405N	10	4	5	Nominal
2100401N	10	4	1	Nominal
2200450N	20	4	50	Nominal
2200420N	20	4	20	Nominal
2200405N	20	4	5	Nominal
2200401N	20	4	1	Nominal

Options:

Dual gradient cartridges, absolute rated cartridges, alternative end connections.

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Filter Cartridges

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Polypropylene Pleated Filter Cartridges

Model	Length inch	Diameter inch	Micron Rating	Cartridge Type
3100250N	10	2.5	50	Nominal
3100220N	10	2.5	20	Nominal
3100205N	10	2.5	5	Nominal
3100201N	10	2.5	1	Nominal
3100201A	10	2.5	1	Absolute
3200250N	20	2.5	50	Nominal
3200220N	20	2.5	20	Nominal
3200205N	20	2.5	5	Nominal
3200201N	20	2.5	1	Nominal
3100450N	10	4	50	Nominal
3100420N	10	4	20	Nominal
3100410N	10	4	10	Nominal
3100405N	10	4	5	Nominal
3100401N	10	4	1	Nominal
3100401A	10	4	1	Absolute
3200450N	20	4	50	Nominal
3200420N	20	4	20	Nominal
3200405N	20	4	5	Nominal
3200401N	20	4	1	Nominal
3200401A	20	4	1	Absolute

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SECTION 19

Filtration

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Filter Cartridges

Activated Carbon Cartridges

Model	Length inch	Diameter inch	Micron Rating	Cartridge Type
6050201N	5	2.5	0.5	Nominal
6100205N	10	2.5	5	Nominal
6100201N	10	2.5	0.5	Nominal
6200205N	20	2.5	5	Nominal
6200201N	20	2.5	0.5	Nominal
6100405N	10	4	5	Nominal
6200405N	20	4	5	Nominal

Washable Net Cartridges

Model	Length inch	Diameter inch	Micron Rating	Flow l/h
A4030100	5	2.5	80	1750
A4030010	5	2.5	250	2250
A4030030	10	2.5	80	3500
A4030120	10	2.5	250	4500

Other sizes on request.

Allaqua washable cartridges can be washed and re-used over and over again.
The washable net cartridge is ideal for removing suspended solids, sand, and rust particles.

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Filter Cartridges

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Specialist Filter Cartridges

Model	Length inch	Diameter inch	Function Removal of	Flow l/h
RFFE20-BB	20	4	Iron	20l/m <3ppm
AAL	10	2.5	Fluoride	
NRC	10	2.5	Nitrate	

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SECTION 20   Valves

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Compact Ball Valves

Standard Features:

- BSP
- PVC Body
- EPDM Seals
- 0-55°C
- UV Resistant
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
CBV 1/2 BSP	DN15	UPVC	EPDM	1/2	BSP Thread
CBV 3/4 BSP	DN20	UPVC	EPDM	3/4	BSP Thread
CBV 1 BSP	DN25	UPVC	EPDM	1	BSP Thread
CBV 1-1/4 BSP	DN32	UPVC	EPDM	1-1/4	BSP Thread
CBV 1-1/2 BSP	DN40	UPVC	EPDM	1-1/2	BSP Thread
CBV 2 BSP	DN50	UPVC	EPDM	2	BSP Thread

Options:

Alternative colours and socket ends available on request.

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Double Union Ball Valves

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Standard Features:

- ANSI Schedule 80 or BSP
- PVC Body
- EPDM Seals
- Double Union Connections
- Serviceable Valve
- Removable Handle
- UV Resistant
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
UBV UPVC 1/2 EP BSP	DN15	UPVC	EPDM	1/2	BSP Thread
UBV UPVC 3/4 EP BSP	DN20	UPVC	EPDM	3/4	BSP Thread
UBV UPVC 1 EP BSP	DN25	UPVC	EPDM	1	BSP Thread
UBV UPVC 1-1/4 EP BSP	DN32	UPVC	EPDM	1-1/4	BSP Thread
UBV UPVC 1-1/2 EP BSP	DN40	UPVC	EPDM	1-1/2	BSP Thread
UBV UPVC 2 EP BSP	DN50	UPVC	EPDM	2	BSP Thread
UBV UPVC 1/2 EP SCH80	DN15	UPVC	EPDM	1/2	Socket End
UBV UPVC 3/4 EP SCH80	DN20	UPVC	EPDM	3/4	Socket End
UBV UPVC 1 EP SCH80	DN25	UPVC	EPDM	1	Socket End
UBV UPVC 1-1/4 EP SCH80	DN32	UPVC	EPDM	1-1/4	Socket End
UBV UPVC 1-1/2 EP SCH80	DN40	UPVC	EPDM	1-1/2	Socket End
UBV UPVC 2 EP SCH80	DN50	UPVC	EPDM	2	Socket End

Options:

Valve in UPVC, CPVC, PPH, Clear PVC, PVDF.
BSP threads, socket ends or alternative international connections.
Viton seals on request.
Available up to DN100 on request.

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Single Union Non Return Valves

Standard Features:

- ANSI Schedule 80 or BSP
- PVC Body
- EPDM Seals
- Single Union Connection
- UV Resistant
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
NRV UPVC 1/2 EP BSP	DN15	UPVC	EPDM	1/2	BSP Thread
NRV UPVC 3/4 EP BSP	DN20	UPVC	EPDM	3/4	BSP Thread
NRV UPVC 1 EP BSP	DN25	UPVC	EPDM	1	BSP Thread
NRV UPVC 1-1/4 EP BSP	DN32	UPVC	EPDM	1-1/4	BSP Thread
NRV UPVC 1-1/2 EP BSP	DN40	UPVC	EPDM	1-1/2	BSP Thread
NRV UPVC 2 EP BSP	DN50	UPVC	EPDM	2	BSP Thread
NRV UPVC 1/2 EP SCH80	DN15	UPVC	EPDM	1/2	Socket End
NRV UPVC 3/4 EP SCH80	DN20	UPVC	EPDM	3/4	Socket End
NRV UPVC 1 EP SCH80	DN25	UPVC	EPDM	1	Socket End
NRV UPVC 1-1/4 EP SCH80	DN32	UPVC	EPDM	1-1/4	Socket End
NRV UPVC 1-1/2 EP SCH80	DN40	UPVC	EPDM	1-1/2	Socket End
NRV UPVC 2 EP SCH80	DN50	UPVC	EPDM	2	Socket End

Options:

Spring assisted on request.
Valve in UPVC, CPVC, PPH.
Alternative colours on request.
BSP threads, socket ends or alternative international connections.
Viton seals on request.

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Double Union Non Return Valves

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Standard Features:

- ANSI Schedule 80 or BSP
- PVC Body
- EPDM Seals
- Double Union Connections
- Serviceable Valve
- Patented Springless Design
- UV Resistant
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
UNRV UPVC 1/2 EP BSP	DN15	UPVC	EPDM	1/2	BSP Thread
UNRV UPVC 3/4 EP BSP	DN20	UPVC	EPDM	3/4	BSP Thread
UNRV UPVC 1 EP BSP	DN25	UPVC	EPDM	1	BSP Thread
UNRV UPVC 1-1/4 EP BSP	DN32	UPVC	EPDM	1-1/4	BSP Thread
UNRV UPVC 1-1/2 EP BSP	DN40	UPVC	EPDM	1-1/2	BSP Thread
UNRV UPVC 2 EP BSP	DN50	UPVC	EPDM	2	BSP Thread
UNRV UPVC 1/2 EP SCH80	DN15	UPVC	EPDM	1/2	Socket End
UNRV UPVC 3/4 EP SCH80	DN20	UPVC	EPDM	3/4	Socket End
UNRV UPVC 1 EP SCH80	DN25	UPVC	EPDM	1	Socket End
UNRV UPVC 1-1/4 EP SCH80	DN32	UPVC	EPDM	1-1/4	Socket End
UNRV UPVC 1-1/2 EP SCH80	DN40	UPVC	EPDM	1-1/2	Socket End
UNRV UPVC 2 EP SCH80	DN50	UPVC	EPDM	2	Socket End

Options:

Valve in UPVC, CPVC, PPH, Clear PVC.
BSP threads, socket ends or alternative international connections.
Viton seals on request.

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Foot Valves

Standard Features:

- BSP
- PVC Body
- EPDM Seals
- Serviceable Valve
- No Spring
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
FV UPVC 1/2 EP BSP	DN15	UPVC	EPDM	1/2	BSP Thread
FV UPVC 3/4 EP BSP	DN20	UPVC	EPDM	3/4	BSP Thread
FV UPVC 1 EP BSP	DN25	UPVC	EPDM	1	BSP Thread
FV UPVC 1-1/4 EP BSP	DN32	UPVC	EPDM	1-1/4	BSP Thread
FV UPVC 1-1/2 EP BSP	DN40	UPVC	EPDM	1-1/2	BSP Thread
FV UPVC 2 EP BSP	DN50	UPVC	EPDM	2	BSP Thread

Options:

Valve in UPVC, CPVC.
BSP threads, socket ends or alternative international connections.
Available in DN65-DN200 flanged.
Viton seals on request.

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Butterfly Valves

Standard Features:

- Flange
- PVC Body
- EPDM Seals
- Lockable Handle
- UV Resistant
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
BV UPVC 1-1/2 EP	DN40	UPVC	EPDM	1-1/2	Flange
BV UPVC 2 EP	DN50	UPVC	EPDM	2	Flange
BV UPVC 2-1/2 EP	DN65	UPVC	EPDM	2-1/2	Flange
BV UPVC 3 EP	DN80	UPVC	EPDM	3	Flange
BV UPVC 4 EP	DN100	UPVC	EPDM	4	Flange
BV UPVC 5 EP	DN125	UPVC	EPDM	5	Flange
BV UPVC 6 EP	DN150	UPVC	EPDM	6	Flange
BV UPVC 8 EP	DN200	UPVC	EPDM	8	Flange

Options:

Valve in UPVC, CPVC, PPH.
Viton seals on request.

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Diaphragm Valves

Standard Features:

- ANSI Schedule 80
- PVC Body
- EPDM Seals
- Double Union Connections
- Position Indicator
- UV Resistant
- 0-55°C
- 0-10 Bar
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
DV UPVC 1/2 EP SCH80	DN15	UPVC	EPDM	1/2	Socket End
DV UPVC 3/4 EP SCH80	DN20	UPVC	EPDM	3/4	Socket End
DV UPVC 1 EP SCH80	DN25	UPVC	EPDM	1	Socket End
DV UPVC 1-1/4 EP SCH80	DN32	UPVC	EPDM	1-1/4	Socket End
DV UPVC 1-1/2 EP SCH80	DN40	UPVC	EPDM	1-1/2	Socket End
DV UPVC 2 EP SCH80	DN50	UPVC	EPDM	2	Socket End
DV UPVC 2-1/2 EP SCH80	DN65	UPVC	EPDM	2-1/2	Socket End
DV UPVC 3 EP SCH80	DN80	UPVC	EPDM	3	Socket End
DV UPVC 4 EP SCH80	DN100	UPVC	EPDM	4	Socket End

Options:

Valve in UPVC, CPVC, PPH, Clear PVC, PVDF.
Available with or without unions, BSP, flanged or socket connections.
Diaphragm in Viton or PTFE on request.
Viton seals on request.

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Allaqua DSV Solenoid Valves

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Standard Features:

- Direct Acting Solenoid Valves
- IP65
- 304SS
- 0-10 Bar
- 0-80°C
- Viton Seal
- IP65
- 12 Month Warranty*

Allaqua®

Allaqua DSV valves offer an economical solution for process automation.

We recommend Allaqua solenoid valves for applications requiring fast opening & closing and multiple quick switching operations.

Suitable for water, air, gases & oil - for viscosities up to 20cPs.

Models:

Model	Connections BSP inch	Cv	Lift Action	Valve Body	Voltage	
DSV15SVC-24	1/2	4.6	Semi-Direct	304SS	24	DC
DSV20SVC-24	3/4	8.5	Semi-Direct	304SS	24	DC
DSV25SVC-24	1	12	Semi-Direct	304SS	24	DC
DSV32SVC-2	1-1/4	26	Semi-Direct	304SS	24	DC
DSV40SVC-24	1-1/2	26	Semi-Direct	304SS	24	DC
DSV50SVC-24	2	48	Semi-Direct	304SS	24	DC
DSV15SVC-230	1/2	4.6	Semi-Direct	304SS	230	AC
DSV20SVC-230	3/4	8.5	Semi-Direct	304SS	230	AC
DSV25SVC-230	1	12	Semi-Direct	304SS	230	AC
DSV32SVC-230	1-1/4	26	Semi-Direct	304SS	230	AC
DSV40SVC-230	1-1/2	26	Semi-Direct	304SS	230	AC
DSV50SVC-230	2	48	Semi-Direct	304SS	230	AC

Options:

Available in Brass or 304SS.
Voltage in 230VAC, 110VAC, 24VDC, 12VDC.
Seals in NBR, EPDM or Viton.
Normally open valves available on request.

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Allaqua Mini Motorised Ball Valves

Standard Features:

- Compact Mini Actuator
- Reliable Operation, 70,000+ Cycles **
- Fast Operation <5 Seconds
- Valve Position Indicator Window
- Multi Voltage 9-24VAC or DC
- Viton Seals
- IP65
- 1.5m Cable
- Outside Weather Cover for Valves 1/2 to 1"
- 12 Month Warranty*

  ** Manufacturer testing with water at 0.4Mpa

Allaqua®

Weather cover for outdoor use

Motorised ball valves are a popular alternative to solenoid valves, often retro fitted into difficult applications where solenoid valves are problematic.

Motorised ball valves have no diaphragms to rupture, no pilot tubes to block, no minimum pressure requirement and no restriction to flow.

These valves feature a visual indication of valve position.

Models:

Model	Connections BSP inch	Bore Diameter mm	Valve Body	Wiring Version	Voltage	
MOV156VC0022-24	1/2	15	316SS	2 wire	24	AC/DC
MOV206VC0022-24	3/4	20	316SS	2 wire	24	AC/DC
MOV256VC0022-24	1	25	316SS	2 wire	24	AC/DC
MOV326VC0022-24	1-1/4	32	304SS	2 wire	24	AC/DC
MOV406VC0022-24	1-1/2	40	304SS	2 wire	24	AC/DC
MOV506VC0022-24	2	50	304SS	2 wire	24	AC/DC

Options:

Also available in brass, PVC or 304SS.
2 wire (auto-close) or three wire versions.
1/4 and 3/8" valves.
Position feedback switch option.
Normally open valves available on request.

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Allaqua Motorised 3 Port Ball Valves

Standard Features:

- 3-Way Valve
- Compact Mini Actuator 58x72x88mm
- Reliable Operation 70,000+ Cycles**
- Operation <15s
- Valve Position Indicator Window
- 316SS
- Viton Seal
- IP65
- 12 Month Warranty*

Allaqua®

Stainless steel 3 port motorised flow diversion ball valves. Flow direction depends on ball valve configuration, options as shown.
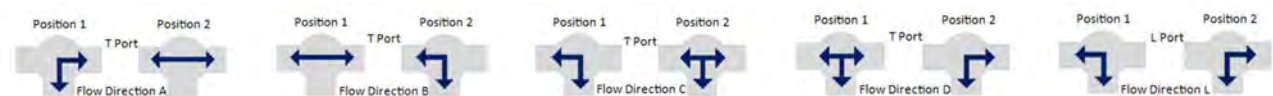
Models:

Model	Connections BSP inch	Nominal Diameter mm	Flow Direction	Wiring Version	Voltage	
MOV156VC002A-24	1/2	15	A	2 wire	24	AC/DC
MOV156VC002B-24	1/2	15	B	2 wire	24	AC/DC
MOV156VC002C-24	1/2	15	C	2 wire	24	AC/DC
MOV156VC002D-24	1/2	15	D	2 wire	24	AC/DC
MOV156VC002L-24	1/2	15	L	2 wire	24	AC/DC
MOV206VC002A-24	3/4	20	A	2 wire	24	AC/DC
MOV206VC002B-24	3/4	20	B	2 wire	24	AC/DC
MOV206VC002C-24	3/4	20	C	2 wire	24	AC/DC
MOV206VC002D-24	3/4	20	D	2 wire	24	AC/DC
MOV206VC002L-24	3/4	20	L	2 wire	24	AC/DC
MOV256VC002A-24	1	25	A	2 wire	24	AC/DC
MOV256VC002B-24	1	25	B	2 wire	24	AC/DC
MOV256VC002C-24	1	25	C	2 wire	24	AC/DC
MOV256VC002D-24	1	25	D	2 wire	24	AC/DC
MOV256VC002L-24	1	25	L	2 wire	24	AC/DC

Options:

For 304SS brass or PVC models please enquire.
3 wire version on request.
Larger valves on request.

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KLD20 Mini Motorised Valves

Standard Features:

- Ultra Compact Mini Actuator 55x65x60mm
- Reliable Operation 70,000+ Cycles**
- Fast Operation 5-7 Seconds
- Low Power Consumption 5 Watts
- Valve Position Indicator Window
- Manual Override Standard, optionally without
- IP54
- 12 Month Warranty*

** Based on manufacturers testing on cold water at 1mPa.

Supplied with KLD20COVER Weather cover for outdoor use.

Motorised ball valves are a popular alternative to solenoid valves. Often retrofitted into difficult applications where solenoid valves are problematic. KLD ball valves have no diaphragms to rupture, no pilot tubes to block, no minimum pressure requirement and no restriction to flow. These valves also feature a manual over-ride and a visual indication of valve position.

Models:

Model	Connections BSP mm	Bore Diameter mm	Valve Body	Voltage	
KLD20S KT2 DN15 PVC 24	15/25	15	PVC	24	AC/DC
KLD20S KT2 DN15 PVC 230	15/25	15	PVC	230	AC
KLD20S KT2 DN15 SS 24	15	15	316 SS	24	AC/DC
KLD20S KT2 DN15 SS 230	15	15	316 SS	230	AC
KLD20S KT2 DN20 SS 24	20	20	316 SS	24	AC/DC
KLD20S KT2 DN20 SS 230	20	20	316 SS	230	AC
KLD20S KT2 DN25 SS 24	25	20	316 SS	24	AC/DC
KLD20S KT2 DN25 SS 230	25	20	316 SS	230	AC
KLD20S BD3 DN15 PVC 24	15 / 25	15	PVC	24	AC/DC
KLD20S BD3 DN15 PVC 230	15 / 25	15	PVC	230	AC
KLD20S BD3 DN15 SS 24	15	15	316 SS	24	AC/DC
KLD20S BD3 DN15 SS 230	15	15	316 SS	230	AC
KLD20S BD3 DN20 SS 24	20	20	316 SS	24	AC/DC
KLD20S BD3 DN20 SS 230	20	20	316 SS	230	AC
KLD20S BD3 DN25 SS 24	25	20	316 SS	24	AC/DC
KLD20S BD3 DN25 SS 230	25	20	316 SS	230	AC

KT2=2 wire self closing. BD3=3 wire powered to open and close. DN15 PVC valves can be used as either a 15mm BSP or 25mm BSP valve by the use/removal of an insert.

Options:

For alternative voltages, control types or valve materials please enquire. Normally open (NO) available on request.

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KLD200 Motorised Valves

Standard Features:

- Compact Actuator 70x84x102mm
- Fast Operation 10 Seconds
- Low Power Consumption 36 Watts
- Valve Position Indicator Window
- Manual Override
- IP54
- 12 Month Warranty*

Models:

Model	Connections BSP mm	Bore Diameter mm	Valve Body	Voltage	
KLD200N BD3 DN25 PVC 24	1	25	PVC	24	AC/DC
KLD200N BD3 DN25 PVC 230	1	25	PVC	230	AC
KLD200N BD3 DN32 PVC 24	1-1/4	32	PVC	24	AC/DC
KLD200N BD3 DN32 PVC 230	1-1/4	32	PVC	230	AC
KLD200N BD3 DN40 PVC 24	1-1/2	40	PVC	24	AC/DC
KLD200N BD3 DN40 PVC 230	1-1/2	40	PVC	230	AC
KLD200N BD3 DN50 PVC 24	2	50	PVC	24	AC/DC
KLD200N BD3 DN50 PVC 230	2	50	PVC	230	AC
KLD200N BD3 DN25 SS 24	1	25	304SS	24	AC/DC
KLD200N BD3 DN32 SS 24	1-1/4	32	304SS	24	AC/DC
KLD200N BD3 DN40 SS 24	1-1/2	40	304SS	24	AC/DC
KLD200N BD3 DN50 SS 24	2	50	304SS	24	AC/DC

Options:

Other voltages on request.
Control types available in B3S with feedback switches or KT3 self close when power fails.
Available in nickel plated brass.

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KLD Motorised Valves
Larger Sizes — On Request

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Pneumatic Ball Valves

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Standard Features:

- Compressed Air Operated 45-120 psi
- Double or Single Acting Actuator
- Position Indicator
- Double Union Ball Valve
- 10 Bar Media Working Pressure
- 0-55°C UPVC
- EPDM Seals
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch	Connection Type
PA UBV 1/2 UPVC EP SCH80	DN15	UPVC	EPDM	1/2	Socket End
PA UBV 3/4 UPVC EP SCH80	DN20	UPVC	EPDM	3/4	Socket End
PA UBV 1 UPVC EP SCH80	DN25	UPVC	EPDM	1	Socket End
PA UBV 1-1/4 UPVC EP SCH80	DN32	UPVC	EPDM	1-1/4	Socket End
PA UBV 1-1/2 UPVC EP SCH80	DN40	UPVC	EPDM	1-1/2	Socket End
PA UBV 2 UPVC EP SCH80	DN50	UPVC	EPDM	2	Socket End
PA UBV 2-1/2 UPVC EP SCH80	DN65	UPVC	EPDM	2-1/2	Socket End
PA UBV 3 UPVC EP SCH80	DN80	UPVC	EPDM	3	Socket End
PA UBV 4 UPVC EP SCH80	DN100	UPVC	EPDM	4	Socket End

Options:

Valve in UPVC, CPVC, PPH, PVDF.
BSP threads, socket ends or alternative international connections.
Viton Seals on request.

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Pneumatic Butterfly Valves

Standard Features:

- Compressed Air Operated 45-120 psi
- Double or Single Acting Actuator
- Position Indicator
- UV Stabilised UPVC Valve
- 10 Bar Media Working Pressure
- 0-55°C UPVC
- EPDM Seals
- 12 Month Warranty*

Models:

Model	Size	Material	Seals	Connection Size inch
PA BV UPVC 1-1/2 EP	DN40	UPVC	EPDM	1-1/2
PA BV UPVC 2 EP	DN50	UPVC	EPDM	2
PA BV UPVC 2-1/2 EP	DN65	UPVC	EPDM	2-1/2
PA BV UPVC 3 EP	DN80	UPVC	EPDM	3
PA BV UPVC 4 EP	DN100	UPVC	EPDM	4
PA BV UPVC 5 EP	DN125	UPVC	EPDM	5
PA BV UPVC 6 EP	DN150	UPVC	EPDM	6
PA BV UPVC 8 EP	DN200	UPVC	EPDM	8
PA BV UPVC 10 EP	DN250	UPVC	EPDM	10
PA BV UPVC 12 EP	DN300	UPVC	EPDM	12

Options:

Valve in UPVC, CPVC, PPH, PVDF.
Viton seals on request.

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KLD Modulating Valves

Standard Features:

- Positioning Valve for Flow Control
- 4-20mA Control Input
- LCD Display of Valve Position
- Adjustable Speed
- Forward or Reverse Action
- Special Motor, Extra Long Life Roller Bearings up to 500,000 Cycles
- Low Power Consumption
- 4-20mA Feedback Signal for Valve Position
- Manual Override
- IP54
- Electronic Flow Characteristics Adjustment
- 12 Month Warranty*

Models:

Model	Connections BSP mm	Bore Diameter mm	Valve Body	Voltage	
KLD20T KV DN10 SS 24	DN10	10	304SS	24	DC
KLD20T KV DN15 SS 24	DN15	15	304SS	24	DC
KLD20T KV DN20 SS 24	DN20	20	304SS	24	DC
KLD20T KV DN25 SS 24	DN25	25	304SS	24	DC
KLD200T KV DN32 SS 24	DN32	32	304SS	24	DC
KLD200T KV DN40 SS 24	DN40	40	304SS	24	DC
KLD200T KV DN50 SS 24	DN50	50	304SS	24	DC

Options:

Available in 230VAC on request.
Flow linearisation orifice options.

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SECTION 21 Flow

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LZM Series
Panel Mounting Rotameters

Standard Features:

- Constructed of Stainless Steel, Acrylic & ABS
- Dual Scales in Litres & Gallons Per Minute
- Maximum Working Pressure 10 Bar
- Maximum Temperature 60°C
- BSP Pipe Threads
- Suitable for Water & Compatible Liquids with an SG of 1
- 12 Month Warranty*
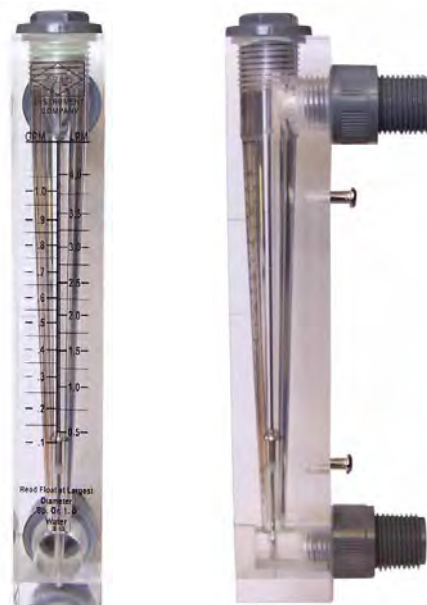
Models:

Model	Flow Rate	Dimensions HxWxD mm	Connections
LZM4O-60	6 to 60 ml/m	94 x 27 x 21	6mm tube
LZM8O-25	2.5 to 25 l/h	110 x 25 x 25	1/4" BSP
LZM8O-45	5 to 45 l/h	110 x 25 x 25	1/4" BSP
LZM8O-60	6 to 60 l/h	110 x 25 x 25	1/4" BSP
LZM15-4	0.5 to 4 l/m	220 x 32 x 38	1/2" BSP
LZM15-8	0.8 to 8 l/m	220 x 32 x 38	1/2" BSP
LZM15-18	2 to 18 l/m	220 x 32 x 38	1/2" BSP
LZM15-28	2 to 28 l/m	220 x 32 x 38	1/2" BSP
LZM20-40	8 to 40 l/m	233 x 39 x 44	3/4" BSP
LZM20-60	8 to 60 l/m	233 x 39 x 44	3/4" BSP
LZM20-80	8 to 80 l/m	233 x 39 x 44	3/4" BSP
LZM25-60	6 to 60 l/m	250 x 45 x 50	1" BSPT male
LZM25-170	20 to 170 l/m	250 x 45 x 50	1" BSPT male

Options:

Smaller and larger sizes, alternative flow ranges and alternative materials are available on request.

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LZM-T Series
Panel Mounting Rotameters with Flow Control

Standard Features:

- Built-in Stainless Steel Flow Control Valve
- Constructed of Stainless Steel, Acrylic & ABS
- Dual Scales in Litres & Gallons Per Minute
- Maximum Working Pressure 10 Bar
- Maximum Temperature 60°C
- BSP Pipe Threads
- Suitable for Water & Compatible Liquids with an SG of 1
- 12 Month Warranty*
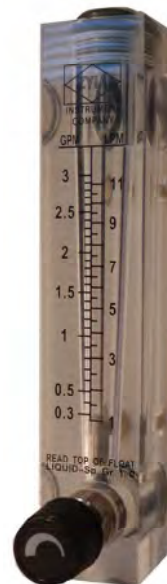
Models:

Model	Flow Rate	Dimensions HxWxD mm	Connections
LZM4T-60	6 to 60 ml/m	94 x 27 x 21	6mm tube
LZM8T-25	2.5 to 25 l/h	110 x 25 x 25	1/4" BSP
LZM8T-45	5 to 45 l/h	110 x 25 x 25	1/4" BSP
LZM8T-60	6 to 60 l/h	110 x 25 x 25	1/4" BSP
LZM15ZT-100	10-100 l/h	175 x 35 x 32	1/2" BSP
LZM15ZT-160	16-160 l/h	175 x 35 x 32	1/2" BSP
LZM15ZT-4	0.5 to 4 l/m	175 x 35 x 32	1/2" BSP
LZM15ZT-7	0.7 to 7 l/m	175 x 35 x 32	1/2" BSP
LZM15ZT-11	1 to 11 l/m	175 x 35 x 32	1/2" BSP
LZM15ZT-18	2 to 18 l/m	175 x 35 x 32	1/2" BSP
LZM25ZT-60	6 to 60 l/m	234 x 45 x 46	1" BSP
LZM25ZT-170	17 to 170 l/m	234 x 45 x 46	1" BSP

Options:

Smaller and larger sizes, alternative flow ranges and alternative materials are available on request.

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LZM-SW Series
Panel Mounting Rotameters with Alarm Limit Switch

Standard Features:

- Available with Low and/or High Flow Limit Switches
- Constructed of Stainless Steel, Acrylic & ABS
- Dual Scales in Litres & Gallons Per Minute
- Maximum Working Pressure 10 Bar
- Maximum Temperature 60°C
- BSP Pipe Threads
- Suitable for Water & Compatible Liquids with an SG of 1
- 12 Month Warranty*

Models:

Model	Flow Rate	Dimensions HxWxD mm	Connections
LZM25-35SW	5 to 35 l/m	250 x 45 x 50	1" BSP
LZM25-50SW	10 to 50 l/m	250 x 45 x 50	1" BSP
LZM25-60SW	6 to 60 l/m	250 x 45 x 50	1" BSP
LZM25-100SW	10 to 100 l/m	250 x 45 x 50	1" BSP
LZM25-130SW	10 to 130 l/m	250 x 45 x 50	1" BSP
LZM25-170SW	10 to 170 l/m	250 x 45 x 50	1" BSP

Options:

Smaller and larger sizes, alternative flow ranges and alternative materials are available on request.

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LZM-G Series
In-Line Rotameters

Standard Features:

- Constructed of Stainless Steel, Acrylic & ABS
- Dual Scales in Litres & Gallons Per Minute
- Maximum Working Pressure 10 Bar
- Maximum Temperature 60°C
- BSP Pipe Threads
- Suitable for Water & Compatible Liquids with an SG of 1
- 12 Month Warranty*

Models:

Model	Flow Rate	Dimensions HxØ mm	Connections
LZM10G-45	5 to 45 l/h	187 x 22	1/2" BSP
LZM10G-60	6 to 60 l/h	187 x 22	1/2" BSP
LZM15G-4	0.4 to 4 l/m	210 x 32	1/2" BSP
LZM15G-7	0.7 to 7 l/m	210 x 32	1/2" BSP
LZM15G-18	1.8 to 18 l/m	210 x 32	1/2" BSP
LZM20G-36	4 to 36 l/m	278 x 44	3/4" BSP
LZM25G-70	10 to 70 l/m	265 x 51	1" BSP
LZM40G-170	20 to 170 l/m	306 x 51	1-1/2" BSP
LZM40G-220	80 to 220 l/m	306 x 51	1-1/2" BSP
LZM50G-300	80 to 300 l/m	380 x 75	2" BSP
LZM50G-450	150 to 450 l/m	380 x 75	2" BSP
LZM50G-750	220 to 750 l/m	380 x 75	2" BSP

Options:

Smaller and larger sizes, alternative flow ranges and alternative materials are available on request.

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LZS Series
In-Line Rotameter

Standard Features:

- Tapered Tube is Chemical Resistant AS Plastic
- Float is ABS
- Guide is 316SS, PTFE on request
- End Connections are PVC, ABS on request
- Union Connections for Easy Disassembly & Cleaning
- Accuracy ±4%
- Temperature Range 0-60°C
- Pressure Maximum 6 Bar
- 12 Month Warranty*

Models:

Model	Flow Rate	Dimensions H x nominal Ø mm	Connections
LZS15D-50	5 to 50 l/h	202 x 15	1/2" BSP
LZS15D-100	10 to 100 l/h	202 x 15	1/2" BSP
LZS15D-250	25 to 250 l/h	202 x 15	1/2" BSP
LZS15D-500	50 to 500 l/h	202 x 15	1/2" BSP
LZS15D-1000	100 to 1000 l/h	202 x 15	1/2" BSP
LZS25D-1000	100 to 1000 l/h	226 x 25	3/4" BSP
LZS25D-1600	160 to 1600 l/h	226 x 25	3/4" BSP
LZS25D-2500	250 to 2500 l/h	226 x 25	3/4" BSP
LZS32D-6	0.6 to 6 m^3/h	288 x 32	1" BSP
LZS50D-16	1.6 to 16 m^3/h	341 x 50	1-1/2" BSP
LZS65D-40	4 to 40 m^3/h	430 x 65	2" BSP
LZS65D-60	6 to 60 m^3/h	430 x 65	2" BSP
LZS100D-120	12 to 120 m^3/h	550 x 100	Flange

Options:

D=short type with float guide. Also available in long version without guide.
Available with flange connections.
Body available in polysulphone, fittings available in PVC, floats available in SS for higher temperatures.
Available up to DN150 and flowrates to 200 m^3/h.

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LZS-SW Series
In-Line Rotameter with Alarm Limit Switches

Standard Features:

- Tapered Tube is Chemical Resistant AS Plastic
- Float is ABS
- Guide is 316SS, PTFE on request
- End Connections are PVC, ABS on request
- Union Connections for Easy Disassembly & Cleaning
- Accuracy ±4%
- Temperature Range 0-60°C
- Pressure Maximum 6 Bar
- 12 Month Warranty*

Models:

Model	Flow Rate	Dimensions H x nominal Ø mm	Connections
LZS15D-50SW	5 to 50 l/h	202 x 15	1/2" BSP
LZS15D-100SW	10 to 100 l/h	202 x 15	1/2" BSP
LZS15D-250SW	25 to 250 l/h	202 x 15	1/2" BSP
LZS15D-500SW	50 to 500 l/h	202 x 15	1/2" BSP
LZS15D-1000SW	100 to 1000 l/h	202 x 15	1/2" BSP
LZS25D-1000SW	100 to 1000 l/h	226 x 25	3/4" BSP
LZS25D-1600SW	160 to 1600 l/h	226 x 25	3/4" BSP
LZS25D-2500SW	250 to 2500 l/h	226 x 25	3/4" BSP
LZS32D-6SW	0.6 to 6 m^3/h	288 x 32	1" BSP
LZS50D-16SW	1.6 to 16 m^3/hr	341 x 50	1-1/2" BSP

Options:

D=short type with float guide. Also available in long version without guide.
Available with flange connections.
Body available in polysulphone, fittings available in PVC, floats available in SS for higher temperatures.
Available up to DN150 and flowrates to 200 m^3/h.

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21 EMEC Pulse Output Water Meters

Standard Features:

- Brass Body - 15 to 40mm
- Epoxy Coated Cast Iron Body - 50mm
- Union Connections
- Reed Switch for Pulse Output
- BNC Connector, for Direct Connection to EMEC Pumps
- 12 Month Warranty*

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Models:

CATFI Cold Water Meters with Dry Dial						
Maximum Temperature 30°C, 16 Bar						
Model	Nominal Diameter mm	Nominal Flow Rate m^3/h	Maximum Flow Rate m^3/h	Minimum Flow Rate l/h	Lowest Reading Unit litres	Fittings inch	Size LxWxH
CATFI15	15	1.5	3	10	0.01	1/2	110 x 80 x 110
CATFI20	20	2.5	5	15	0.01	3/4	130 x 80 x 110
CATFI25	25	3.5	7	20	0.1	1	160 x 100 x 132
CATFI30	30	5	10	20	0.1	1-1/4	180 x 100 x 132
CATFI40	40	10	20	25	0.1	1-1/2	200 x 110 x 137
CATFI50	50	15	30	50	0.5	2	300 x 108 x 131

CATCI Hot Water Meters with Dry Dial						
Maximum Temperature 90°C, 16 Bar						
Model	Nominal Diameter mm	Nominal Flow Rate m^3/h	Maximum Flow Rate m^3/h	Minimum Flow Rate l/h	Lowest Reading Unit litres	Fittings inch	Size LxWxH
CATCI15	15	1.5	3	10	0.01	1/2	110 x 80 x 110
CATCI20	20	2.5	5	15	0.01	3/4	130 x 80 x 110
CATCI25	25	3.5	7	20	0.1	1	160 x 100 x 132
CATCI30	30	5	10	20	0.1	1-1/4	180 x 100 x 132
CATCI40	40	10	20	25	0.1	1-1/2	200 x 110 x 137
CATCI50	50	15	30	50	0.5	2	300 x 108 x 131

Options:

Pulse output for CATFI, CATCI: 0.25, 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250, 500, 1000 l/pulse.
All Water Meters come with 2.5m cable standard. Longer cable available on request.

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EMEC Pulse Output Water Meters

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Standard Features:

- Telfon Coated Brass Body
- Union Connections
- Reed Switch for Pulse Output
- BNC Connector for Direct Connection to EMEC Pumps
- 12 Month Warranty*

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Models:

CATFIT Cold Water Meters with Dry Dial and Internal & External Teflon Coating
Maximum Temperature 30°C, 16 Bar

Model	Nominal Diameter mm	Nominal Flow Rate m^3/h	Maximum Flow Rate m^3/h	Minimum Flow Rate l/h	Lowest Reading Unit litres	Max Pressure Bar	Size LxWxH
CATFIT15	15	1.5	3	10	0.01	16	110 x 80 x 110
CATFIT20	20	2.5	5	15	0.01	16	130 x 80 x 110
CATFIT25	25	3.5	7	20	0.1	16	160 x 100 x 132
CATFIT30	30	5	10	20	0.1	16	180 x 100 x 132
CATFIT40	40	10	20	25	0.1	16	200 x 110 x 137

CATCIT Hot Water Meters with Dry Dial and Internal & External Teflon Coating
Maximum Temperature 90°C, 16 Bar

Model	Nominal Diameter mm	Nominal Flow Rate m^3/h	Maximum Flow Rate m^3/h	Minimum Flow Rate l/h	Lowest Reading Unit litres	Max Pressure Bar	Size LxWxH
CATCIT15	15	1.5	3	10	0.01	16	110 x 80 x 110
CATCIT20	20	2.5	5	15	0.01	16	130 x 80 x 110
CATCIT25	25	3.5	7	20	0.1	16	160 x 100 x 132
CATCIT30	30	5	10	20	0.1	16	180 x 100 x 132
CATCIT40	40	10	20	25	0.1	16	200 x 110 x 137

Options:

Pulse output for CATFIT, CATCIT: 1, 10 or 100 l/pulse. Others available on request.
All Water Meters come with 2.5m cable standard. Longer cable available on request.

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EMEC Flanged Pulse Output Water Meters

Standard Features:

- Epoxy Coated Cast Iron Body
- Flange Connection
- Reed Switch for Pulse Output
- BNC plug for Direct Connection to EMEC Pumps
- 12 Month Warranty*

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Models:

CWFA Flanged Cold Water Meters with Dry Dial Maximum Temperature 60°C, 16 Bar						
Model	Nominal Diameter mm	Nominal Flow Rate m³/h	Maximum Flow Rate m³/h	Minimum Flow Rate m³/h	Lowest Reading Unit litres	Flange inch	Size LxWxH
CWFA50	50	15	100	0.3	1	2	200 x 165 x 214
CWFA65	65	25	100	0.4	1	2-1/2	200 x 185 x 228
CWFA80	80	40	170	0.4	1	3	230 x 200 x 234
CWFA100	100	60	300	0.6	10	4	250 x 200 x 250
CWFA150	150	150	410	1.0	10	6	300 x 283 x 310
CWFA200	200	250	730	2	100	8	350 x 340 x 338
CWFA250	250	400	1400	6	100	10	450 x 406 x 438
CWFA300	300	600	2000	7	100	12	500 x 460 x 465

CWCA Flanged Hot Water Meters with Dry Dial Maximum Temperature 130°C, 16 Bar						
Model	Nominal Diameter mm	Nominal Flow Rate m³/h	Maximum Flow Rate m³/h	Minimum Flow Rate m³/h	Lowest Reading Unit litres	Flange inch	Size LxWxH
CWCA50	50	15	100	0.3	1	2	200 x 165 x 214
CWCA65	65	25	100	0.4	1	2-1/2	200 x 185 x 228
CWCA80	80	40	170	0.4	1	3	230 x 200 x 234
CWCA100	100	60	300	0.6	10	4	250 x 200 x 250
CWCA150	150	150	410	1.0	10	6	300 x 283 x 310
CWCA200	200	250	730	2	100	8	350 x 340 x 338

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EMEC Flanged Pulse Output Water Meters

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Standard Features:

- Teflon Coated Cast Iron Body
- Flange Connection
- Reed Switch for Pulse Output
- BNC Plug, for Direct Connection to EMEC Pumps
- 12 Month Warranty*

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Models:

CWFAT Flanged Cold Water Meters with Dry Dial & Internal/External Teflon Coating
Maximum Temperature 60°C, 16 Bar

Model	Nominal Diameter mm	Nominal Flow Rate m^3/h	Maximum Flow Rate m^3/h	Minimum Flow Rate m^3/h	Lowest Reading Unit litres	Flange inch	Size LxWxH
CWFAT50	50	15	100	0.3	1	2	200 x 165 x 214
CWFAT65	65	25	100	0.4	1	2-1/2	200 x 185 x 228
CWFAT80	80	40	170	0.4	1	3	230 x 200 x 234
CWFAT100	100	60	300	0.6	10	4	250 x 200 x 250

Options:

Pulse Output Options:
250, 500, 1000 litres per pulse. Others on request.

EMEC KDPV Connection Kit	
Model	**Description**
KDPV	Connection kit to control two proportional pumps with one pulse emitter water meter, cable BNC/BNC 1m.

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Insertion Flow Switch
Paddle Type Flow Switch

Standard Features:

- Maximum Working Pressure 10 Bar
- Maximum Temperature 100°C
- BSP Thread Connection
- For Pipe from 1 to 6" Diameter
- Suitable for Water & Compatible Liquids
- Available in Brass or Stainless Steel
- N/O and N/C contact 250VAC 3A
- 12 Month Warranty*

Models:

Model	Flow Rate l/m	Material	Connections
HFS20B	20 - 1800	Brass	3/4" BSP
HFS15S	20 - 1800	Stainless Steel	1/2" BSP

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SECTION 22 Level

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EMEC Level Lances

Standard Features:

- Tank Top Mounting
- Suitable for Aggressive Chemicals
- 1, 2 or 3 Floats
- Designed for CNT Chemical Tanks or Similar
- 12 Month Warranty*

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Models:

EMEC Level Lances		
Model	For Tank Model	Tank Height cm
LALIV40-1	CNT PD50	50
LALIV63-1	CNT PD110	73
LALIV75-1	CNT PD200	85
LALIV108-1	CNT PD500	120
LALIV122-1	CNT PD1000	124

Applications:

For the detection of liquid level or volume in chemical tanks.
Stop, start or alarm limits.

Options:

Available with 2 or 3 floats on request.
Custom sizes up to 2m available.
Specify distance between floats when ordering.

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Laser Level Sensors

Standard Features:

- Tank Top Mounting
- Suitable for Aggressive Chemicals
- RS485 Output
- For Connection to LDLOG or CENTURIO Controller
- Designed for CNT Chemical Tanks or Similar
- 12 Month Warranty*

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Models:

EMEC Laser Level Sensors		
Model	**For Tank Model**	**Shaft Length cm**
SLL50	CNT PD50	40
SLL110	CNT PD110	61
SLL200	CNT PD200	75
SLL500	CNT PD500	108
SLL1000	CNT PD1000	122

Applications:

For the detection of liquid level or volume in chemical tanks.

Options:

Available for measuring tank depths from 0.2 to 10 meters.
Available with 4-20mA output.

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Submersible Level Transducers

Standard Features:

- Provides a 4-20mA Signal Proportional to Liquid Depth
- Easy Installation
- 2 Wire Connection
- 24VDC
- 304SS Sensor
- 316SS Diaphragm
- 12 Month Warranty*

Models:

Model	Measurement Range metre	Cable Length metre	Connection	Output
CXPTB-1	0 - 1	2	2 wire	4-20mA
CXPTB-2	0 - 2	3	2 wire	4-20mA
CXPTB-5	0 - 5	10	2 wire	4-20mA
CXPTB-10	0 - 10	15	2 wire	4-20mA

Applications:

Water tanks, wells, lakes, rivers, sewage plants, ground water monitoring.

Options:

5VDC version, 1-5V output.
Hart protocol.
Measurement ranges up to 200m.
Longer cables on request.
Remote level display.

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Industrial Ultrasonic Level Detectors

Standard Features:

- Non Contact Tank Depth Measurement
- Industrial Cast Aluminium Housing
- LCD Display
- Accuracy ±0.3% of Full Scale
- Dead Band 0.3m
- 24VDC 1.5W
- Output 4-20mA
- Automatic Temperature Compensation
- Programmable Range Setting
- Level of Protection IP65
- 12 Month Warranty*

Models:

Model	Measurement Range metre	Mounting Thread inch	Connection	Output
CXULM GA-2	0 - 2	1-1/2	3 wire	4-20mA
CXULM GA-5	0 - 5	1-1/2	3 wire	4-20mA

Applications:

Water storage tanks, wastewater tanks, sedimentation ponds, environmental monitoring, clarifiers, sludge thickening.

Options:

Measurement ranges also available in 8, 10, 15, 20 or 25m.
LED display.
Explosion proof version.
Corrosion resistant version.
2 wire version.
RS485 (MODBUS) version.
Relay outputs.

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Ultrasonic Level Detectors

Standard Features:

- Non-Contact Tank Depth Measurement
- Programmable
- 24VDC, 1.5W
- Accurate within 1%±
- IP67
- 12 Month Warranty*

Models:

Model	Measurement Range mm	Diameter Sensor mm	Sensor End	Output
XX9V3A1C2M12	100 - 1000	30	Epoxy	4-20mA

PTFE end with viton seal
for corrosive liquids

Models:

Model	Measurement Range mm	Diameter Sensor mm	Sensor End	Output
PICO+100/TF	120 - 1300	22	PTFE	4-20mA

Applications:

Chemical tank level and chemical consumption monitoring.

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Float Switches

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Standard Features:

- Polypropylene Body, Rubber Cable
- Operating Temperature 0 - 40°C
- Level of Protection IP68
- 1 Bar
- N/O & N/C
- 20 (8)A, 250VAC
- TUV, CE Approvals
- 12 Month Warranty*

Models:

Compact General Purpose Float Switch			
Model	**Cable Length mtr**	**Dimensions mm**	**Buoyancy ml**
Olympic3D	3	74 x 124 x 38	200
Olympic5D	5	74 x 124 x 38	200
Olympic10D	10	74 x 124 x 38	200

Applications:

Switching pumps, for filling or emptying, alarms or control.

Models:

Heavy Duty BMS Float Switch			
Model	**Cable Length metre**	**Dimensions mm**	**Buoyancy ml**
A5050160	10	156 x 113 x 61	560

Applications:

Suitable for dirty water applications, e.g. chambers with sludge and scum.

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Float Weights

Standard Features:

- Counterweight for Correct Float Operation
- Built-in Reusable Cable Lock
- 12 Month Warranty*

Models:

Model	Description
A5018060	Small weight, to suit Olympic floats
A5018040	Large weight, to suit BMS floats

Option:

Model	Description
Fixing Kit	Fixing kit for floats

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SECTION 23 Pressure

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Pressure Gauges

Standard Features:

- 63mm Diameter
- Oil Filled
- Stainless Steel Case
- Brass Internals
- Dual Scale
- 0 - 55°C
- 1/4" BSP Connection

For water, gasses & other Liquids
compatible with brass

Models:

Bottom Entry Pressure Gauge

Model	Pressure Range	
	kPa	PSI
YTN63-200	0 - 200	0 - 30
YTN63-400	0 - 400	0 - 60
YTN63-600	0 - 600	0 - 90
YTN63-800	0 - 800	0 - 120
YTN63-1000	0 - 1000	0 - 150
YTN63-2000	0 - 2000	0 - 300

Back Entry Pressure Gauge

Model	Pressure Range	
	kPa	PSI
YTN63Z-200	0 - 200	0 - 30
YTN63Z-400	0 - 400	0 - 60
YTN63Z-600	0 - 600	0 - 90
YTN63Z-800	0 - 800	0 - 120
YTN63Z-1000	0 - 1000	0 - 150
YTN63Z-2000	0 - 2000	0 - 300

Supplied complete with removable
panel mount bracket.

Options:

Enquire about different diameters, different ranges, alternative threads, alternative scales, budget options, gauges with stainless steel internals, gauges for chemical service and vacuum gauges.

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Pressure Gauges
with Limit Switches

23

Standard Features:

- 60mm Diameter
- Plastic Case
- Brass Internals
- 0 - 55 °C

Analogue pressure gauge with adjustable high & low pressure limit switches

Models:

Model	Range kPa	BSP Connections inch	Contact Rating
YXC-60	0 - 1000	1/4	230VAC, 30VA

Options:

Alternative pressure ranges, diameters & connections.

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23 | Pressure Transducers

Standard Features:

- 24VDC, 4-20mA
- 2 Wire
- 316 Stainless Steel
- -20 to 125°C
- 1/2" NPT Connection
- 34mm Diameter x 75mm High
- IP65

Gas & liquid
pressure measurement

Models:

Model	Pressure kPa	NPT Connection inch	Output	Connection
CXPTB100H-35	0 - 35	1/2	4-20mA	2 Wire
CXPTB100H-100	0 - 100	1/2	4-20mA	2 Wire
CXPTB100H-400	0 - 400	1/2	4-20mA	2 Wire
CXPTB100H-600	0 - 600	1/2	4-20mA	2 Wire
CXPTB100H-1000	0 - 1000	1/2	4-20mA	2 Wire

Options:

Pressure ranges from 10kpa to 100Mpa.
5V version.
Alternative connection options.

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Differential Pressure Transducers

23

Standard Features:

- 24VDC, 4-20mA
- 2 Wire
- 316 Stainless Steel
- -20 to 125°C
- 1/2" NPT Connections
- IP65

Gas & liquid
pressure measurement

Models:

Model	Display	Pressure kPa	NPT Connection inch	Output	Connection
CXPTB-160	x	0 - 160	1/2	4-20mA	2 Wire
CXPTB-162	✓	0 - 160	1/2	4-20mA	2 Wire

Options:

Alternate Pressure ranges.
5V version
Alternative connection options.

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Pressure Switches

Standard Features:

- Telemecanique N/C Pressure Switch
- 1/4" BSP Bottom Entry
- Plastic Case
- Brass Internals
- Adjustable Switch Pressure
- Adjustable Differential

Models:

Model	Range PSI	Contact Rating	Dimensions mm	BSP Connection inch
XMPA12B2131	19 - 174	230VAC 12A, 1.5kW	90 x 80 x 55	1/4

Applications:

Water pump, air compressor.

Options:

Also available in 3 phase version.

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SECTION 24 Testing

24

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24

Water Quality Test Strips

1. Dip   2. Read   ITS

Recommended for end users, our test strips provide an easy, non technical method of checking for common water problems and for verifying the performance of water treatment equipment.

Models:

Model	No. of Tests	Testing Parameters	Ranges
480005	50	Alkalinity - Total + pH	TA: 0, 80, 120, 180, 240, 360 ppm pH: 6-9 pH
480007	30	Total Chlorine Ultra Low	<0.01, 0.01, 0.015, 0.02, 0.025, 0.05 ppm
480010	50	Chlorine - Total	0, 0.05, 0.1, 0.15, 0.2, 0.5, 0.8, 1, 4, 10 ppm
481026	50	Chlorine - Free	0, 0.05, 0.1, 0.2, 0.4, 0.6, 0.8, 1.2, 1.5, 2, 2.6, 4, 6 ppm
480022	50	Chlorine - Free HR	0, 1, 2, 5, 10, 20, 30, 40, 80, 120 ppm
481028	50	Chlorine Dioxide	Two methods provide two ranges: 0 to 0.3, 0 to 1.6 ppm
480031	50	Chlorine Dioxide HR	0, 0.5, 2, 5, 10, 25, 50, 100 ppm
480008	50	Hardness - Total	0, 40, 80, 120, 180, 250, 425, 1000 ppm
480025	25	Iron	0, 0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1, 2, 5 ppm
481020	24	Manganese	0.05, 0.1, 0.2, 0.5, 1, 2 ppm
480009	50	Nitrate, Nitrite	NO2: 0.15, 0.3, 1, 1.5, 3, 10 ppm NO3: 0.5, 2, 5, 10, 20, 50 ppm
481234	50	Ozone	0, 0.05, 0.1, 0.2, 0.3, 0.4, 0.5 ppm
480014	50	Peroxide	0, 0.5, 2, 5, 10, 25, 50, 100 ppm
481104	50	pH - Extended Range	2, 3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 11, 12 pH
482029	50	Total Dissolved Solids	<50, 100, 250, 500, >750 ppm

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Water Quality Test Strips
Pool & Spa

24

Designed with the Pool and Spa owners in mind, Pool Check™ test strips offer quick and reliable results.
Pool Check™ offers a wide range of multi-parameter tests to suit all your customers' needs.

Models:

Model	Description	No. of Tests	Testing Parameters	Ranges
481335	Pool Check™ 3in1	50	Free Chlorine	0, 0.5, 1, 3, 5, 10, 20 ppm
			pH	6, 6.4, 6.8, 7.2, 7.6, 8.2, 9 pH
			Total Alkalinity	0, 40, 80, 120, 180, 240, 360 ppm
481336	Spa Check™ 3in1	50	Total Bromine	0, 1, 3, 6, 9, 12, 20 ppm
			pH	6, 6.4, 6.8, 7.2, 7.6, 7.8, 8.2, 9 pH
			Total Alkalinity	0, 40, 80, 120, 180, 240, 360 ppm
481330	Pool Check™ 6in1	50	Free Chlorine	0, 0.5, 1, 3, 5, 10, 20 ppm
			Total Chlorine/ Total Bromine	0, 0.5, 1, 3, 5, 10 ppm
			pH	6, 6.8, 7.2, 7.6, 7.8, 8.2, 9 pH
			Total Alkalinity	0, 40, 80, 120, 180, 240, 360 ppm
			Total Hardness	0, 50, 120, 200, 400, 1000 ppm
			Cyanuric Acid	0, 50, 100, 150, 300 ppm

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Water Hardness Testing

Standard Features:

- Hardness Yes/No Tablets
- Easy to Use
- Quick Water Softener Test

Models:

Model	Description	No. of Tests
AD-1012	Palintest^R water hardness Yes/No test tablets	250 Tablets

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Exact EZ Water Testers
Photometers

Standard Features:

- Economical Digital Meters for Measuring Multiple Parameters
- For Pools, Process & Drinking Water
- LCD Display of Measured Value
- Easy Safe Reagent Strip Technology
- Waterproof IP67

ITS

Models:

Model	Description	Testing Parameters	Ranges	Reagent Code
486201	Exact EZ Pool Photometer	Alkalinity	10 - 200 ppm	486641
		Bromine	0 - 24 ppm	486644
		Calcium Hardness	20 - 700 ppm	486629
		Chloride - Salt	80 - 6700 ppm	486757
		Chlorine - Free	0 - 12 ppm	486637
		Chlorine - Combined	0 - 12 ppm	486638
		Copper	0 - 9 ppm	486632
		Cyanuric Acid	1 - 110 ppm	481652-111
		pH	6.4 - 8.4 pH	486639-11
		Phosphate	0.2 - 3 ppm	486814
486203	Exact EZ Well Photometer	Alkalinity	10 - 200 ppm	486641
		Hardness - Total High	60 - 600 ppm	486656
		Iron - Total	0.03 - 8 ppm	486650
		Nitrate	0.25 - 32 ppm	486655
		pH	6.4 - 8.4 pH	486639-11
486205	Exact EZ Chlorine Plus Photometer	Total Bromine	0 - 17 ppm	486644
		Chlorine Dioxide	0 - 6 ppm	486633
		Chlorine - Free	0 - 12 ppm	486637
		Chlorine - Total	0 - 12 ppm	486670
		Chlorine - High	1 - 200 ppm	486672
		Hydrogen Peroxide	0.5 - 130 ppm	486648
		Ozone	0 - 2 ppm	486634
		Peracetic Acid	2 - 590 ppm	486675
		pH	6.4 - 8.4 pH	486639-11

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24

Exact Multi Function Water Tester
Photometer

Standard Features:

- Ideal For Drinking Water, Pools, Environmental & Educational Testing
- Multiple Parameters Available
- LCD Display of Measured Value
- Bluetooth Communication

Models:

Model	Description	Testing Pararmeters	Ranges	Reagent Code
486700-WD Kit	Exact Micro 20 Dual Wavelength* Well Driller 525 & 638nm	Total Iron	0.03 - 6 ppm	486650
		Free Chlorine	0.01 - 6.2 ppm	486637
		Total Chlorine	0.01 - 6.2 ppm	486670
		Total Alkalinity	8 - 200 ppm	486641
		Total Hardness	60 - 600 ppm	486656
		pH	5.8 - 8.5 pH	486639
		Copper	0 - 11 ppm	486632
		Manganese	0.02 - 1.5 ppm	486606

The Exact Micro 20 Meter can be used for additional parameters by purchasing additional reagents including:

Aluminium, ammonia, calcium hardness, chloride, chlorine dioxide, cyanide, fluoride, permanganate, nitrites, nitrates, phosphates, ozone, peracetic acid, sulphates and sulphides.

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Exact iDip Tester

24

Standard Features:

- Multiple Parameter Digital Tester
- Uses Exact Reagent Strips
- Bluetooth Enabled for Communication
- LCD Display of Measured Value
- Download the App from the App Store
- Transfer Test Results to Smart Phone with Date Stamp & Location
- Store Results Indefinitely
- Send Results by Text, Email etc

Models:

Model	Description
486101	iDip Tester

Pre-installed tests are total alkalinity, free chlorine, combined chlorine and pH.

Further test methods are downloaded as required from the App Store.
Tests are added to the App Store for download as they are developed.
There are over 41 parameters available.

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24 | Exact Photometer Reagent Strips

Models:

Model	No. of Tests	Testing Parameters	Ranges
486641	100	Alkalinity - Total	10 - 210 ppm
486644	100	Bromine	0 - 24 ppm
486632	50	Copper	0 - 9 ppm
486656	50	Total Hardness - High Range	60 - 600 ppm
486629	100	Calcium Hardness	20 - 400 ppm
486757	100	Chloride - Salt	3 - 270 ppm / 50 - 5400 ppm
486633	100	Chlorine Dioxide - DPD1	0.04 - 7 ppm
486638	100	Combined Chlorine - DPD3	0.01 - 6.2 ppm
486637	100	Free Chlorine - DPD1	0 - 6 ppm
486672	50	Chlorine - High Range	1 - 300 ppm
486670	100	Total Chlorine - DPD4	0.01 - 6.2 ppm
486632	50	Copper	0.01 - 11 ppm
486652-111	60	Cyanuric acid	1 - 110 ppm

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Exact Photometer Reagent Strips

24

Models:

Model	No. of Tests	Testing Parameters	Ranges
486648	50	Hydrogen Peroxide	0.3 - 100 ppm
486650	50	Iron Total	0.03 - 6 ppm
486606	24	Manganese	0.01 - 1.5 ppm
486655	50	Nitrate - as NO3	0.01 - 30 ppm
496634	100	Ozone - DPD4	0.01 - 2 ppm
486675	100	Peracetic Acid - High Range	0.01 - 430 ppm
486639	100	pH	6.2 - 8.4 pH
486639-11	100	pH - for iDip	6 - 8.5 pH
486814	50	Phosphate	0.03 - 4 ppm

More parameters available on request.

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24

Handheld Testers

Standard Features:

- Hand Held Tester with Built-in Temperature
- Water Resistant IP65
- Dual LCD Display
- Hold Function
- Automatic Temperature Compensation
- Replaceable Electrode
- 2 Year Warranty*

pH / Temperature Meter

Measures pH & temperature - potable water, wastewater, aquariums, process water.
Automatic 1 or 2 point calibration.

Model	Measuring Range	Resolution	Accuracy
pH55	-2 to +16 pH -5.0 - 60°C	0.1 pH 0.1°C	± 0.1 pH ± 0.5°C

EC / TDS / Temperature Meters

Measures conductivity & temperature - potable water, wastewater, aquariums, process water.
Automatic 1 point calibration.

Model	Measuring Range	Resolution	Accuracy
EC59	0 - 3999 µS/cm TDS 0 - 2000 ppm 0.0 - 60°C	1 µS/cm TDS 1 ppm 0.1°C	± 2% full scale EC/TDS ± 0.5°C
EC60	20.00 mS/cm TDS 10.00 ppt 0.0 - 60.0°C	0.01 mS/cm TDS 0.01 ppt 0.1°C	± 2% full scale EC/TDS ± 0.5°C

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Handheld Testers

24

Standard Features:

- Hand Held Tester
- Water Resistant IP65
- Large LCD Display
- Hold Function
- Automatic Temperature Compensation
- Replaceable Electrode
- 2 Year Warranty*

pH Meter

pH Measurement - potable water, wastewater, aquariums, process water.
Manual 2 point calibration.

Model	Measuring Range	Resolution	Accuracy
pH51	0.0 - 14.0 pH	0.1 pH	± 0.1 pH

EC / TDS Meters

Conductivity measurement - potable water, wastewater, aquariums, process water.
Manual 1 point calibration through trimmer.

Model	Measuring Range	Resolution	Accuracy
C65	0-1999 µS/cm	1 µS/cm	± 2% full scale
C66	0.00 to 10.00 mS/cm	0.01 mS/cm	± 2% full scale

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24

Digital Photometers

Standard Features:

- Digital Photometer
- Compact
- Large LCD Display
- Automatic Temperature Compensation
- Auto Off after 2 Minutes
- Supplied with 2 Cuvets & Reagents
- 2 Year Warranty*

Digital Photometers

Drinking water, well water, agriculture, swimming pools.
Light emitting diode at 525nm.

Model	Measuring Type	Measuring Range	Resolution	Accuracy
MW10	Free Chlorine	0.00 - 2.50 ppm mg/L of Cl_2	0.01 ppm	± 0.03 ppm
MW11	Total Chlorine	0.00 - 3.50 ppm of Cl_2	0.01 ppm	± 0.03 ppm
MW14	Iron	0.0 - 5.00 ppm	0.01 ppm	± 0.04 ppm

Accessories:

Model	Description	No. of Tests
Mi526-25	Free Chlorine Powder Reagent	25
Mi524-25	Total Chlorine Powder Reagent	25
Mi528-25	Iron Powder Reagent	25
Mi0011	10ml Small Glass Cuvets	2
Mi0013	Stoppers for Mi0011 Glass Cuvets	2

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In-Line TDS Monitors

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Standard Features:

- In-Line TDS Meter
- LCD Display
- 1/4 inch T-Fitting, also available 3/8 & 1/2
- Installs in Minutes
- Automatic Temperature Compensation 1 - 65°C
- 2 Year Warranty*

In-Line Total Dissolved Solids Meter

Displays the TDS level of a single water line.
Ideal for knowing instantly if your water purification system is performing or not.

Model	Measuring Range	Resolution	Accuracy	Sensor Cable cm	Dimensions cm
SM-1	0 - 9990 ppm	1 ppm	+/- 2%	62	7.6 x 2 x 4.7

Large easy to read
LCD display,
splash proof housing.

Dual In-Line Total Dissolved Solids Meter

Displays instant TDS levels of the feed water and purified water with in & out sensors.
Ideal for knowing instantly if your water purification system is performing or not.

Model	Measuring Range	Resolution	Accuracy	Sensor Cable cm	Dimensions cm
DM-2	0 - 9990 ppm	1 ppm	+/- 2%	116	7.6 x 2 x 4.7

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24 Calibration & Maintenance Solutions

pH Buffer Solutions

RICCA Chemical Company pH buffers. Traceable to US National Institute of Standards & Technology standard reference material.

Model	Description	Volume ml
1501	pH4 buffer solution Red	500
1551	pH7 buffer solution Yellow	500
1601	pH10 buffer solution Blue	500

EMEC pH Buffer Solutions

Model	Description	Volume ml
BSA	pH4 buffer solution	50
BSB	pH7 buffer solution	50
BSC	pH10 buffer solution	50

EMEC Turbidity Buffer Solutions

Model	Description	Volume ml
BSTORB-40	Turbidity buffer solution 40NTU	20
BSTORB-0	Turbidity buffer solution 0NTU	20

EMEC Redox (ORP) Buffer Solution

Model	Description	Volume ml
BSD	Redox (ORP) buffer solution 650mV	50

EMEC Conductivity Buffer Solutions

Model	Description	Volume ml
BSI	Conductivity buffer solution 12880uS @ 25°C	50
BSE	Conductivity buffer solution 1413uS @ 25°C	50
BSE84	Conductivity buffer solution 84uS @ 25°C	50

EMEC Oxygen Buffer Solution

Model	Description	Volume ml
BSU	Oxygen (O2) buffer solution	50

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Calibration & Maintenance Solutions

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Milwaukee Solutions

Model	Description	Volume ml
MA9004	pH 4.01 buffer solution	230
MA9007	pH 7.01 buffer solution	230
MA9010	pH 10.01 buffer solution	230
MA9015	Storage solution for pH/ORP electrodes	230
MA9016	Cleaning solution for pH/ORP probes	230
MA9060	12,880µS conductivity buffer solution	230
MA9061	1413µS conductivity solution	230
MA9063	84µS conductivity solution	230
MA9070	Zero oxygen electrolyte solution	230
MA9071	Oxygen electrolyte solution	230
M10031B	1413 uS/cm EC solution, 25 sachets	20
Mi515-100	Calibration buffers for turbidity meters, set of 3: 0, 10 & 30NTU	30

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SECTION 25 Resin & Media

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Ion Exchange Resin, Filter Media & Consumables	Page 1

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25 | Ion Exchange Resin & Filter Media

Ion Exchange Resin

Model	Description	Volume L/Bag
RX-KW8	Water Softener Resin	25
RX-MX2	Mixed Bed De-ionizing Resin	25
RX-MX2I	Mixed Bed De-ionizing Resin with Colour Indicator	25
RX-K8H	Cation Resin for Demineralisers	25
RX-A4UB	Anion Resin for Demineralisers	25
RX-NR1	Nitrate Removal Resin	25
RX-TP9002	Arsenic Removal Resin	25

Many more specialised resins are available on request.

Filter Media

Model	Description	Volume kg
35304	0.6-1.2mm Filter Sand	25
35303	Under-Bed Gravel	20
3534010	Anthracite Filter Media	23
PYROLOX	Pyrolox Iron & Manganese Removal Media	27

Consumables

Model	Description	Volume kg
H200	Granular Activated Carbon	25
CALCITE	Calcite pH Correction Media	23
SALT22	Grade 22 Salt	25

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SECTION 26

Pipe Fittings

SECTION 26 Pipe Fittings

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UPVC Schedule 80 Pipe Fittings

Standard Features:

- Schedule 80 PVC Fittings
- American Pipe Standard
- Manufactured in Grey UPVC
- Superior Strength & UV Stabilised
- Operating Pressure 10 Bar
- Operating Temperature <50°C

Often used in water treatment plant rooms and assemblies for a high strength, durable & attractive finish. Suitable for most chemicals. Check compatibility with specific chemicals before use.

90 Degree Equal Elbows

Model	Material	Description	Size inch	Type
SCH80 ELB90 1/2	UPVC	90° Elbow	1/2	SxS
SCH80 ELB90 3/4	UPVC	90° Elbow	3/4	SxS
SCH80 ELB90 1	UPVC	90° Elbow	1	SxS
SCH80 ELB90 1-1/4	UPVC	90° Elbow	1-1/4	SxS
SCH80 ELB90 1-1/2	UPVC	90° Elbow	1-1/2	SxS
SCH80 ELB90 2	UPVC	90° Elbow	2	SxS

45 Degree Equal Elbows

Model	Material	Description	Size inch	Type
SCH80 ELB45 1/2	UPVC	45° Elbow	1/2	SxS
SCH80 ELB45 3/4	UPVC	45° Elbow	3/4	SxS
SCH80 ELB45 1	UPVC	45° Elbow	1	SxS
SCH80 ELB45 1-1/4	UPVC	45° Elbow	1-1/4	SxS
SCH80 ELB45 1-1/2	UPVC	45° Elbow	1-1/2	SxS
SCH80 ELB45 2	UPVC	45° Elbow	2	SxS

90 Degree Equal Tees

Model	Material	Description	Size inch	Type
SCH80 TEE90 1/2	UPVC	90° Tee	1/2	SxSxS
SCH80 TEE90 3/4	UPVC	90° Tee	3/4	SxSxS
SCH80 TEE90 1	UPVC	90° Tee	1	SxSxS
SCH80 TEE90 1-1/4	UPVC	90° Tee	1-1/4	SxSxS
SCH80 TEE90 1-1/2	UPVC	90° Tee	1-1/2	SxSxS
SCH80 TEE90 2	UPVC	90° Tee	2	SxSxS

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UPVC Schedule 80 Pipe Fittings

26

Standard Features:

- Schedule 80 PVC Fittings
- American Pipe Standard
- Manufactured in Grey UPVC
- Superior Strength & UV Stabilised
- Operating Pressure 10 Bar
- Operating Temperature <50°C

Often used in water treatment plant rooms and assemblies for a high strength, durable & attractive finish. Suitable for most chemicals. Check compatibility with specific chemicals before use.

Male Adaptors

Model	Material	Description	Size inch	Type
SCH80 MADPT 1/2	UPVC	Male Adaptor	1/2	SxT NPT
SCH80 MADPT 3/4	UPVC	Male Adaptor	3/4	SxT NPT
SCH80 MADPT 1	UPVC	Male Adaptor	1	SxT NPT
SCH80 MADPT 1-1/4	UPVC	Male Adaptor	1-1/4	SxT NPT
SCH80 MADPT 1-1/2	UPVC	Male Adaptor	1-1/2	SxT NPT
SCH80 MADPT 2	UPVC	Male Adaptor	2	SxT NPT

Female Adaptors

Model	Material	Description	Size inch	Type
SCH80 FADPT 1/2	UPVC	Female Adaptor	1/2	SxT NPT
SCH80 FADPT 3/4	UPVC	Female Adaptor	3/4	SxT NPT
SCH80 FADPT 1	UPVC	Female Adaptor	1	SxT NPT
SCH80 FADPT 1-1/4	UPVC	Female Adaptor	1-1/4	SxT NPT
SCH80 FADPT 1-1/2	UPVC	Female Adaptor	1-1/2	SxT NPT
SCH80 FADPT 2	UPVC	Female Adaptor	2	SxT NPT

Union Connectors

Model	Material	Description	Size inch	Type
SCH80 UNION 1/2	UPVC	Union	1/2	SxS
SCH80 UNION 3/4	UPVC	Union	3/4	SxS
SCH80 UNION 1	UPVC	Union	1	SxS
SCH80 UNION 1-1/4	UPVC	Union	1-1/4	SxS
SCH80 UNION 1-1/2	UPVC	Union	1-1/2	SxS
SCH80 UNION 2	UPVC	Union	2	SxS
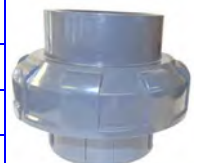
SECTION 26

Pipe Fittings

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UPVC Schedule 80 Pipe Fittings

Standard Features:

- Schedule 80 PVC Fittings
- American Pipe Standard
- Manufactured in Grey UPVC
- Superior Strength & UV Stabilised
- Operating Pressure 10 Bar
- Operating Temperature <50°C

Often used in water treatment plant rooms and assemblies for a high strength, durable & attractive finish. Suitable for most chemicals. Check compatibility with specific chemicals before use.

Straight Couplers

Model	Material	Description	Size inch	Type
SCH80 CPL 1/2	UPVC	Straight Coupler	1/2	SxS
SCH80 CPL 3/4	UPVC	Straight Coupler	3/4	SxS
SCH80 CPL 1	UPVC	Straight Coupler	1	SxS
SCH80 CPL 1-1/4	UPVC	Straight Coupler	1-1/4	SxS
SCH80 CPL 1-1/2	UPVC	Straight Coupler	1-1/2	SxS
SCH80 CPL 2	UPVC	Straight Coupler	2	SxS

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UPVC Schedule 80 Pipe Fittings

Standard Features:

- Schedule 80 PVC Fittings
- American Pipe Standard
- Manufactured in Grey UPVC
- Superior Strength & UV Stabilised
- Operating Pressure 10 Bar
- Operating Temperature <50°C

Often used in water treatment plant rooms and assemblies for a high strength, durable & attractive finish. Suitable for most chemicals. Check compatibility with specific chemicals before use.

Van Stone Flanges

Model	Material	Description	Size inch	Type
SCH80 FLANGE 1/2	UPVC	Van Stone Flange	1/2	S
SCH80 FLANGE 3/4	UPVC	Van Stone Flange	3/4	S
SCH80 FLANGE 1	UPVC	Van Stone Flange	1	S
SCH80 FLANGE 1-1/4	UPVC	Van Stone Flange	1-1/4	S
SCH80 FLANGE 1-1/2	UPVC	Van Stone Flange	1-1/2	S
SCH80 FLANGE 2	UPVC	Van Stone Flange	2	S
SCH80 FLANGE 2-1/2	UPVC	Van Stone Flange	2-1/2	S
SCH80 FLANGE 3	UPVC	Van Stone Flange	3	S
SCH80 FLANGE 4	UPVC	Van Stone Flange	4	S
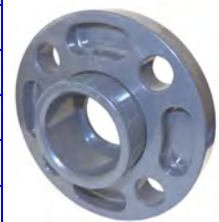
Flange Gaskets

Model	Material	Description	Size inch
FL GASKET 1/2	EPDM	Flange Gasket	1/2
FL GASKET 3/4	EPDM	Flange Gasket	3/4
FL GASKET 1	EPDM	Flange Gasket	1
FL GASKET 1-1/4	EPDM	Flange Gasket	1-1/4
FL GASKET 1-1/2	EPDM	Flange Gasket	1-1/2
FL GASKET 2	EPDM	Flange Gasket	2
FL GASKET 2-1/2	EPDM	Flange Gasket	2-1/2
FL GASKET 3	EPDM	Flange Gasket	3
FL GASKET 4	EPDM	Flange Gasket	4

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26 | UPVC Schedule 80 Pipe Fittings

Standard Features:

- Schedule 80 PVC Fittings
- American Pipe Standard
- Manufactured in Grey UPVC
- Superior Strength & UV Stabilised
- Operating Pressure 10 Bar
- Operating Temperature <50°C

Often used in water treatment plant rooms and assemblies for a high strength, durable & attractive finish. Suitable for most chemicals. Check compatibility with specific chemicals before use.

Reducing Bushes

Model	Material	Description	Size - inch		Type
			From	To	
SCH80 RB SXT 1/2 >1/4	Sch80 UPVC	Reducing Bush	1/2	1/4	SxT
SCH80 RB SXT 3/4>1/2	Sch80 UPVC	Reducing Bush	3/4	1/2	SxT
SCH80 RB SXT 1>1/2	Sch80 UPVC	Reducing Bush	1	1/2	SxT
SCH80 RB SXT 1>3/4	Sch80 UPVC	Reducing Bush	1	3/4	SxT
SCH80 RB SXS 3/4>1/2	Sch80 UPVC	Reducing Bush	3/4	1/2	SxS
SCH80 RB SXS 1>1/2	Sch80 UPVC	Reducing Bush	1	1/2	SxS
SCH80 RB SXS 1>3/4	Sch80 UPVC	Reducing Bush	1	3/4	SxS
SCH80 RB SXS 1-1/4>3/4	Sch80 UPVC	Reducing Bush	1-1/4	3/4	SxS
SCH80 RB SXS 1-1/4>1	Sch80 UPVC	Reducing Bush	1-1/4	1	SxS
SCH80 RB SXS 1-1/2>1-1/4	Sch80 UPVC	Reducing Bush	1-1/2	1-1/4	SxS
SCH80 RB SXS 2>1-1/2	Sch80 UPVC	Reducing Bush	2	1-1/2	SxS
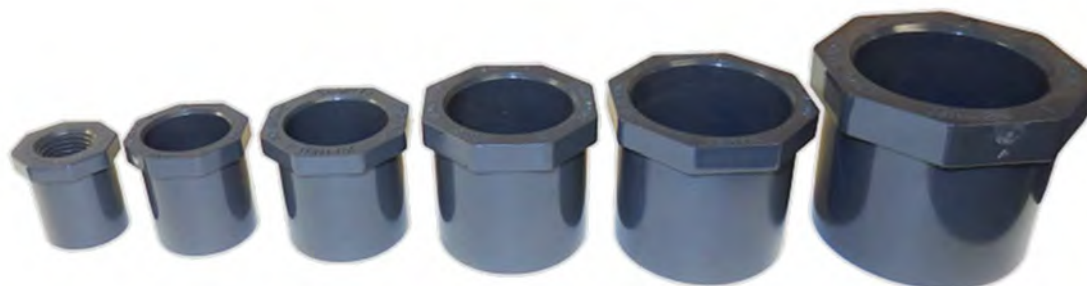
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SECTION 27   Miscellaneous

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27 WA22 Series Electrical Connectors

Standard Features:

- Plastic Bodied Electrical Connectors
- Waterproof IP67
- 4 Pin (3 Pin + Earth)
- 400VAC, 16A Rated
- Panel Mount & Cord Grip Versions
- Screw Terminal Wire Connections

These versatile compact connectors are perfect for field wiring of external loads.
With ample voltage and current capability, these waterproof connectors provide
a quick disconnect & test point for powered devices such as
water pumps, dosing pumps, motorised valves etc.

Models:

4 Pin Connectors

Model	Pin Type	Connection Type		Rated Voltage/Current	IP Rating
WA22J4TE2	4 pin	Male	Cord Grip	400V 16A	IP67
WA22K4ZE2	4 pin	Female	Cord Grip	400V 16A	IP67
WA22J4Z2	4 pin	Male	Panel Mount	400V 16A	IP67
WA22K4Z2	4 pin	Female	Panel Mount	400V 16A	IP67

Options:

7 pin version.

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SP13 Series Electrical Connectors

Standard Features:

- Plastic Bodied Electrical Connectors
- Waterproof IP68
- 3 Pin
- 250VAC, 13A Rated
- Panel Mount & Cord Grip Versions
- Solder Connections

These versatile, economical and compact connectors
are perfect for connection of
sensors, probes & small electrical devices.

Models:

3 Pin Connectors

Model	Pin Type	Description		Connects to	Rated Voltage/Amp
SP1310 P31C	3 pin	Male	Cord Grip with Cap		250VAC 13A
SP1310 S31C	3 pin	Female	Cord Grip with Cap	Panel Mount	250VAC 13A
SP1311 S31C	3 pin	Female	Cord Grip with Cap	Cord Grip	250VAC 13A
SP1312 P3C	3 pin	Male	Panel Mount with Cap		250VAC 13A
SP1312 S3C	3 pin	Female	Panel Mount with Cap		250VAC 13A

Options:

2,4,5,6,7,9 pin versions.

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24VDC Series Power Supplies

Standard Features:

- 230VAC In
- 24VDC Out
- Enclosed Housing
- Din Rail Mounting

HDR-15-24

Recommended for use with mini motorised valves.
DC power supplies provide a more
constant & stable voltage than AC transformers.

Models:

Din Rail Power Supplies

Model	Brand	Description	Voltage		Rating	
			In	Out	Watt	Amp
ABL8MEM24006	Schneider	Din Rail Power Supply	230VAC	24VDC	12W	0.6A
ABL8REM24030	Schneider	Din Rail Power Supply	230VAC	24VDC	50W	2A
HDR 15 24	Meanwell	Din Rail Power Supply	230VAC	24VDC	15W	0.63A
HDR 30 24	Meanwell	Din Rail Power Supply	230VAC	24VDC	30W	1.5A
HDR 60 24	Meanwell	Din Rail Power Supply	230VAC	24VDC	60W	2.5A
HDR 100 24	Meanwell	Din Rail Power Supply	230VAC	24VDC	100W	3.83A
HDR 150 24	Meanwell	Din Rail Power Supply	230VAC	24VDC	150W	6.25A

Options:

Larger models available on request.
We can supply in an IP66 wall mounting enclosure on request.

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Adesys SVA Alarm Modems

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Standard Features:

- 24VDC
- Enclosed Housing
- Din Rail Mounting

The SVA modem uses the 4G network to communicate with your cell phone.
The SVA can monitor digital inputs and the power source & send text message alerts.
In addition, you can switch output contacts on or off remotely with a text message.

Models:

SVA Alarm Modems

Model	Brand	Description	Voltage	Inputs	Outputs
SVA2000-I	Adesys	Din Rail Mounting	24VDC	2	
SVA4002-I	Adesys	Din Rail Mounting	24VDC	4	2
SVA8000-I	Adesys	Din Rail Mounting	24VDC	8	

SECTION 28   EMEC Pump Spare Parts

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EMEC Pump Head Codes

Models:

EMEC pump liquid ends are identified by a code.
To select the correct spare parts, identify the code from the list below and then find the parts you need on the pages following.

EMEC Pump Model	Pump Head Code	EMEC Pump Model	Pump Head Code	EMEC Pump Model	Pump Head Code
K series 2001	I	T series 0330	S	VA series 1000.5	JA
K series 1802	L	T series 0150	S	VA series 0704	KA
K series 1504	L	T series 00100	T	VA series 0507.5	KA
K series 1005	L	TA series 2003.2	LA	VA series 0509	KA
K series 0808	L	TA series 0510	NA	VA series 0405.5	KA
K series 0510	L	TA series 0413	NA	VA series 0307	KA
K series 0501	I	TA series 0320	SA	VA series 0213	KA
K series 0218	M	TA series 0135	TA	VA series 0113.5	KA
KA series 1801	LA	V series 2001	J	WD series	K
KA series 1503	LA	V series 1802	K	H series 2001	A
KA series 1003.5	LA	V series 1502	K	H series 1802	A or B*
KA series 1000.5	IA	V series 1504	K	H series 1004	B
KA series 8005.5	LA	V series 1505	K	H series 0706	B
KA series 5007.5	LA	V series 1004	K	H series 0408	B
KA series 0213	MA	V series 1005	K	H series 0216	B
A series 2505	L	V series 1010	K	HA series 2000.5	A (PMMA)
A series 1510	M	V series 0706	K	HA series 1801	A or B* (PMMA)
A series 1015	M	V series 0510	K	F series 1201.5	PCS
A series 0720	N	V series 0512	K	F series 1002.2	PCS
A series 0340	S	V series 0501	J	F series 0703	PCS
A series 0260	T	V series 0408	K	F series 0505	PCS
AA series 2503.2	LA	V series 0310	K	F series 0306.5	PCS
AA series 1506	MA	V series 0217	K	F series 0308.5	PCS
AA series 1010	MS	V series 0116	K	FA series 1000.6	PCA
AA series 0713	MS	VA series 1802	KA	FA series 1003.2	PCA
AA series 0330	SA	VA series 1503	KA	FA series 0701.5	PCA
AA series 0238.5	TA	VA series 1501	KA	FA series 0503.2	PCA
T series 2005	L	VA series 1003.4	KA	FA series 0304.7	PCA
T series 0515	N	VA series 1007	KA	FA series 0306.5	PCA
T series 0420	N	VA series 1002	KA		

* Early versions were A heads, later versions are B heads. There is an A or a B stamped into the plastic head.
To select correct materials please refer to the chemical list.

EMEC Pump Head Codes

Models:

EMEC pump liquid ends are identified by a code.
To select the correct spare parts, identify the code from the list below and then find the parts you need on the pages following.

EMEC Pump Model	Pump Head Code	EMEC Pump Model	Pump Head Code	EMEC Pump Model	Pump Head Code
PRISMA 2001	I	PRIUS D 005180	UM	PRIUS D AP 050017	MM AP
PRISMA 2502	L	PRIUS D 005188	UM	PRIUS D AP 030028	NM AP
PRISMA 2005	L	PRIUS D 005212	UM	PRIUS D AP 020030	NM AP
PRISMA 1607.5	L	PRIUS D 005236	UM	PRIUS D AP 030030	SM AP
PRISMA 1013	M	PRIUS D 005240	TM	PRIUS D AP 020034	TM AP
PRISMA 0720	N	PRIUS D 005284	UM	PRIUS D AP 030041	SM AP
PRISMA 0528	N	PRIUS D 005290	UM	PRIUS D AP 020068	TM AP
PRISMA 0450	N	PRIUS D 005350	UM	PRIUS D AP 030076	SM AP
PRISMA 0280	N	PRIUS D 005380	UM	PRIUS D AP 020091	TM AP
PRIUS D 010012	NM	PRIUS D 005390	UM	PRIUS D AP 020170	TM AP
PRIUS D 010016	NM	PRIUS D 005440	UM		
PRIUS D 010021	TM	PRIUS D 004520	UM		
PRIUS D 010024	NM	PRIUS D 005530	UM		
PRIUS D 010030	NM	PRIUS D 003750	UM		
PRIUS D 007032	TM	PRIUS D 005750	UM		
PRIUS D 010042	TM	PRIUS D 002M00	UM		
PRIUS D 005048	TM	PRIUS D 005M00	UM		
PRIUS D 010056	TM	PRIUS D AP 10001.5	LM AP		
PRIUS D 010060	NM	PRIUS D AP 100002	LM AP		
PRIUS D 007064	TM	PRIUS D AP 05002.5	MM AP		
PRIUS D 005070	UM	PRIUS D AP 100004	LM AP		
PRIUS D 007086	TM	PRIUS D AP 050005	MM AP		
PRIUS D 005088	UM	PRIUS D AP 030005	NM AP		
PRIUS D 005096	TM	PRIUS D AP 020006	NM AP		
PRIUS D 010105	TM	PRIUS D AP 050009	MM AP		
PRIUS D 005106	UM	PRIUS D AP 030010	NM AP		
PRIUS D 005128	TM	PRIUS D AP 020012	NM AP		
PRIUS D 005140	UM	PRIUS D AP 030014	NM AP		
PRIUS D 007160	TM	PRIUS D AP 030015	SM AP		
PRIUS D 005176	UM	PRIUS D AP 020016	NM AP		

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EMEC Pump Head Codes

Models:

EMEC PRIUS P series pumps are identified by their plunger size and materials.
To select the correct spare parts, identify the required head below and then find the parts you need on the pages following.

EMEC Pump Model	Plunger mm	Hose Connection ID mm	EMEC Pump Model	Plunger mm	Connection Thread Inch
PRIUS P 010005 PP	14	12	PRIUS P 010005 SS	14	1/2
PRIUS P 010013 PP	14	12	PRIUS P 010013 SS	14	1/2
PRIUS P 010016 PP	25	12	PRIUS P 010016 SS	25	1/2
PRIUS P 010024 PP	14	12	PRIUS P 010024 SS	14	1/2
PRIUS P 010026 PP	32	12	PRIUS P 010026 SS	32	1/2
PRIUS P 010032 PP	25	12	PRIUS P 010032 SS	25	1/2
PRIUS P 010042 PP	40	18	PRIUS P 010042 SS	40	3/4
PRIUS P 010043 PP	25	12	PRIUS P 010043 SS	25	1/2
PRIUS P 010052 PP	32	12	PRIUS P 010052 SS	32	1/2
PRIUS P 010064 PP	50	18	PRIUS P 010064 SS	50	3/4
PRIUS P 010070 PP	32	12	PRIUS P 010070 SS	32	1/2
PRIUS P 010080 PP	25	12	PRIUS P 010080 SS	25	1/2
PRIUS P 010084 PP	40	18	PRIUS P 010084 SS	40	3/4
PRIUS P 010113 PP	40	18	PRIUS P 007101 SS	63	1
PRIUS P 010128 PP	50	18	PRIUS P 010113 SS	40	3/4
PRIUS P 010130 PP	32	12	PRIUS P 010128 SS	50	3/4
PRIUS P 010172 PP	50	18	PRIUS P 010130 SS	32	1/2
PRIUS P 010210 PP	40	18	PRIUS P 010172 SS	50	3/4
PRIUS P 010320 PP	50	18	PRIUS P 007203 SS	63	1
			PRIUS P 010210 SS	40	3/4
			PRIUS P 007273 SS	63	1
			PRIUS P 010320 SS	50	3/4
			PRIUS P 007508 SS	63	1

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EMEC Maintenance Kits

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EMEC Maintenance Kits

Models:

Model	Pump Head Description				Model	Pump Head Description			
	Head	Material	Size	Pump		Head	Material	Size	Pump
110.0620.1	J	PVDF+EP	4 x 8	V	110.0678.1	LA **	PVDF+EP	4 x 6	AMS
110.0907.1	J	PVDF+FP	4 x 8	V	110.0679.1	LA **	PVDF+FP	4 x 6	AMS
110.0622.1	JA	PVDF+EP	4 x 8	V	110.0684.1	LA **	PVDF+EP	4 x 6	T
110.0623.1	JA	PVDF+FP	4 x 8	V	110.0685.1	LA **	PVDF+FP	4 x 6	T
110.0624.1	K	PVDF+EP	4 x 6	V	110.0663.1	M	PVDF+EP	6 x 8	K
110.0625.1	K	PVDF+FP	4 x 6	V	110.0662.1	M	PVDF+FP	6 x 8	K
110.6682.1	K	PVDF+EP	6 x 8	V	110.0683.1	M **	PVDF+EP	4 x 6	AMS
110.0876.1	K	PVDF+FP	6 x 8	V	110.0686.1	M **	PVDF+FP	4 x 6	AMS
110.0626.1	KA	PVDF+EP	4 x 6	V	110.0920.1	M **	PVDF+EP	4 x 8	AMS
110.0627.1	KA	PVDF+FP	4 x 6	V	110.0836.1	M **	PVDF+FP	4 x 8	CMS
110.6683.1	KA	PVDF+FP	6 x 8	V	110.0959.1	MA	PVDF+EP	6 x 8	K
110.6684.1	KA	PVDF+EP	6 x 8	V	110.0665.1	MA	PVDF+FP	6 x 8	K
110.0659.1	I	PVDF+EP	4 x 6	K	110.0687.1	MA **	PVDF+EP	4 x 6	AMS
110.0658.1	I **	PVDF+FP	4 x 6	K	110.0864.1	MA **	PVDF+FP	4 x 6	AMS
110.0730.1	IA **	PVDF+EP	4 x 6	K	110.0688.1	MA **	PVDF+EP	6 x 8	AMS
110.0680.1	IA **	PVDF+FP	4 x 6	K	110.0914.1	MA **	PVDF+FP	6 x 8	AMS
110.0661.1	L	PVDF+EP	4 x 6	K	110.0689.1	N	PVDF+EP	6 x 8	AMS/T
110.0660.1	L	PVDF+FP	4 x 6	K	110.0690.1	N	PVDF+FP	6 x 8	AMS/T
110.6685.1	L **	PVDF+EP	4 x 6	K	110.0865.1	NA	PVDF+EP	6 x 8	AMS/T
110.0955.1	L **	PVDF+FP	4 x 6	K	110.0957.1	NA	PVDF+FP	6 x 8	AMS/T
110.0675.1	L **	PVDF+EP	4 x 6	AMS	110.0925.1	S	PVDF+EP	8x10 / 8x12	AMS/T
110.0863.1	L **	PVDF+FP	4 x 6	AMS	110.0924.1	S	PVDF+FP	8x10 / 8x12	AMS/T
110.0681.1	L **	PVDF+EP	4 x 6	T	110.0691.1	SA	PVDF+EP	8x10 / 8x12	AMS/T
110.0682.1	L **	PVDF+FP	4 x 6	T	110.0692.1	SA	PVDF+FP	8x10 / 8x12	AMS/T
110.0672.1	LA	PVDF+EP	4 x 6	K	110.0693.1	T	PVDF+EP	8x10 / 8x12	AMS
110.0664.1	LA	PVDF+FP	4 x 6	K	110.0694.1	T	PVDF+FP	8x10 / 8x12	AMS
110.0676.1	LA **	PVDF+EP	4 x 6	K	110.0695.1	TA	PVDF+EP	8x10 / 8x12	AMS
110.0677.1	LA **	PVDF+FP	4 x 6	K	110.0696.1	TA	PVDF+FP	8x10 / 8x12	AMS

** Reinforced Head

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EMEC Pump Head Spares
F Series

EMEC - F Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.0496.1	EP		PCS	Head Complete	
020.0482.1	FP			Head Complete	
025.0436.1	EP			Suction /Discharge Valve	4 x 6
025.0459.1	FP			Suction /Discharge Valve	4 x 6
025.0454.1	EP			Bleed Valve Kit	
025.0601.1	FP			Bleed Valve Kit	
127EPR	EP			Head O-ring	
127V	FP			Head O-ring	
018.0001.0		PTFE		Diaphragm	

EP = EPDM Seals
FP = VITON Seals

EMEC - F Series Self Venting Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.0492.1	FP	Obsolete - Substitute Head K - 020.1015.1			
025.0721.1	FP	PP		Self Vent Valve	4 x 6
025.0596.1	FP			Discharge Valve with Spring	4 x 6
025.0459.1	FP			Suction Valve	4 x 6
127V	FP			Head O-ring	
018.0001.0		PTFE		Diaphragm	

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EMEC Pump Head Spares
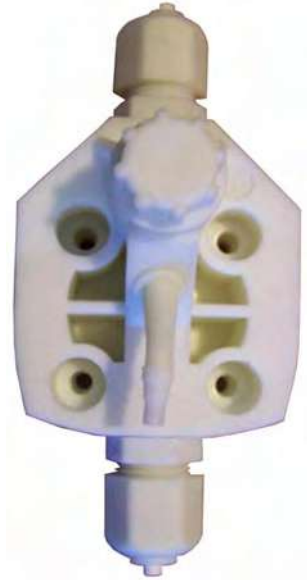## H Series

EMEC - H Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.0636.1	EP	PP	A	Head Complete	4 x 8
020.0635.1	FP	PP	A	Head Complete	4 x 8
020.0467.1	EP	PP	B	Head Complete	4 x 6
020.0560.1	FP	PP	B	Head Complete	4 x 6
025.0436.1	EP	PP		Suction /Discharge Valve	4 x 6
025.0459.1	FP			Suction /Discharge Valve	4 x 6
025.0454.1	EP			Bleed Valve Kit	
025.0601.1	FP			Bleed Valve Kit	
026.0007.0	EP		B	Head O-ring	
026.0009.0	FP		B	Head O-ring	
018.0027.0		PTFE	A	Diaphragm	
018.0033.0		PTFE	B	Diaphragm	

EP = EPDM Seals
FP = VITON Seals

EMEC - HA Series Self Venting Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.0839.1	FP	PMMA	A	Head Complete	4 x 6
020.0705.1	FP	PMMA	B	Head Complete	4 x 6
025.0424.1	FP	PVDF		Suction Valve	4 x 6
025.0631.1	FP	PVDF		Discharge Valve with Spring	4 x 6
025.0729.1	FP	PVDF		Bleed Valve	4 x 6
026.0009.0	FP		B	Head O-ring	
018.0027.0		PTFE	A	Diaphragm	
018.0033.0		PTFE	B	Diaphragm	

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EMEC Pump Head Spares
V Series

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EMEC - V Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.0986.1	EP	PVDF	J	Head Complete	4 x 8
020.0985.1	FP	PVDF	J	Head Complete	4 x 8
020.1848.1	EP	PP	J	Head Complete	4 x 6
020.0988.1	EP	PVDF	K	Head Complete	4 x 6
020.0987.1	FP	PVDF	K	Head Complete	4 x 6
020.1534.1	EP	PP	K	Head Complete	4 x 6
026.0059.0	EP		J	Head O-ring	
026.0053.0	FP		J	Head O-ring	
026.0007.0	EP		K	Head O-ring	
026.0009.0	FP		K	Head O-ring	
018.0027.0		PTFE	J	Diaphragm	
018.0001.0		PTFE	K	Diaphragm	

EP = EPDM Seals
FP = VITON Seals

EMEC - VA Series Self Venting Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1196.1	FP	PVDF	JA	Head Complete	4 x 8
020.1015.1	FP	PVDF	KA	Head Complete	4 x 6
026.0053.0	FP		JA	Head O-ring	
026.0009.0	FP		KA	Head O-ring	
018.0027.0		PTFE	JA	Diaphragm	
018.0001.0		PTFE	KA	Diaphragm	

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EMEC Pump Head Spares
K Series

EMEC - K Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1123.1	EP	PVDF	I	Head Complete	4 x 6
020.1124.1	FP	PVDF	I	Head Complete	4 x 6
020.2006.1	EP	PP	I	Head Complete	4 x 6
020.1125.1	EP	PVDF	L	Head Complete	4 x 6
020.1126.1	FP	PVDF	L	Head Complete	4 x 6
020.1562.1	EP	PP	L	Head Complete	4 x 6
020.1127.1	EP	PVDF	M	Head Complete	6 x 8
020.1128.1	FP	PVDF	M	Head Complete	6 x 8
020.1907.1	EP	PP	M	Head Complete	6 x 8
026.0059.0	EP		I	Head O-ring	
026.0053.0	FP		I	Head O-ring	
026.0007.0	EP		L	Head O-ring	
026.0009.0	FP		L	Head O-ring	
026.0002.0	EP		M	Head O-ring	
026.0013.0	FP		M	Head O-ring	
018.0027.0		PTFE	I	Diaphragm	
018.0033.0		PTFE	L	Diaphragm	
018.0004.0		PTFE	M	Diaphragm	

EP = EPDM Seals
FP = VITON Seals

EMEC - K Series Self Venting Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1163.1	EP	PVDF	IA	Head Complete	4 x 6
020.1162.1	FP	PVDF	IA	Head Complete	4 x 6
020.1129.1	EP	PVDF	LA	Head Complete	4 x 6
020.1130.1	FP	PVDF	LA	Head Complete	4 x 6
020.1131.1	EP	PVDF	MA	Head Complete	4 x 6
020.1132.1	FP	PVDF	MA	Head Complete	4 x 6
026.0059.0	EP		IA	Head O-ring	
026.0053.0	FP		IA	Head O-ring	
026.0007.0	EP		LA	Head O-ring	
026.0009.0	FP		LA	Head O-ring	
026.0002.0	EP		MA	Head O-ring	
026.0013.0	FP		MA	Head O-ring	
018.0027.0		PTFE	IA	Diaphragm	
018.0033.0		PTFE	LA	Diaphragm	
018.0004.0		PTFE	MA	Diaphragm	

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EMEC Pump Head Spares
A Series

EMEC - A Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1641.1	EP	PVDF	L	Head Complete	4 x 6
020.1640.1	FP	PVDF	L	Head Complete	4 x 6
020.1918.1	EP	PP	L	Head Complete	4 x 6
020.1643.1	EP	PVDF	M	Head Complete	4 x 6
020.1642.1	FP	PVDF	M	Head Complete	4 x 6
020.1919.1	EP	PP	M	Head Complete	4 x 6
020.1645.1	EP	PVDF	M	Head Complete	6 x 8
020.1644.1	FP	PVDF	M	Head Complete	6 x 8
020.1578.1	EP	PP	M	Head Complete	6 x 8
020.1635.1	EP	PVDF	N	Head Complete	6 x 8
020.1634.1	FP	PVDF	N	Head Complete	6 x 8
020.1820.1	EP	PP	N	Head Complete	6 x 8
020.1637.1	EP	PVDF	S	Head Complete	8 x 10 / 8 x 12
020.1636.1	FP	PVDF	S	Head Complete	8 x 10 / 8 x 12
020.1845.1	EP	PP	S	Head Complete	8 x 10 / 8 x 12
020.1672.1	EP	PVDF	T	Head Complete	8 x 10 / 8 x 12
020.1668.1	FP	PVDF	T	Head Complete	8 x 10 / 8 x 12
020.1838.1	EP	PP	T	Head Complete	8 x 10 / 8 x 12
026.0007.0	EP		L	Head O-ring	
026.0009.0	FP		L	Head O-ring	
026.0002.0	EP		M	Head O-ring	
026.0013.0	FP		M	Head O-ring	
026.0223.0	EP		N	Head O-ring	
026.0220.0	FP		N	Head O-ring	
026.0027.0	EP		S	Head O-ring	
026.0416.0	FP		S	Head O-ring	
026.0119.0	EP		T	Head O-ring	
026.0117.0	FP		T	Head O-ring	
018.0033.0		PTFE	L	Diaphragm	
018.0004.0		PTFE	M	Diaphragm	
018.0022.0		PTFE	N	Diaphragm	
018.0003.0		PTFE	S	Diaphragm	
018.0045.0		PTFE	T	Diaphragm	

EP = EPDM Seals
FP = VITON Seals

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EMEC Pump Head Spares
T Series

EMEC - T Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1641.1	EP	PVDF	L	Head Complete	4 x 6
020.1640.1	FP	PVDF	L	Head Complete	4 x 6
020.1918.1	EP	PP	L	Head Complete	4 x 6
020.1635.1	EP	PVDF	N	Head Complete	6 x 8
020.1634.1	FP	PVDF	N	Head Complete	6 x 8
020.1820.1	EP	PP	N	Head Complete	6 x 8
020.1637.1	EP	PVDF	S	Head Complete	8 x 10 / 8 x 12
020.1636.1	FP	PVDF	S	Head Complete	8 x 10 / 8 x 12
020.1845.1	EP	PP	S	Head Complete	8 x 10 / 8 x 12
020.1296.1	EP	PVDF	T	Head Complete	12 ID
020.1295.1	FP	PVDF	T	Head Complete	12 ID
020.1838.1	EP	PP	T	Head Complete	8 x 12
026.0007.0	EP		L	Head O-ring	
026.0009.0	FP		L	Head O-ring	
026.0223.0	EP		N	Head O-ring	
026.0220.0	FP		N	Head O-ring	
026.0027.0	EP		S	Head O-ring	
026.0416.0	FP		S	Head O-ring	
026.0119.0	EP		T	Head O-ring	
026.0117.0	FP		T	Head O-ring	
018.0033.0		PTFE	L	Diaphragm	
018.0022.0		PTFE	N	Diaphragm	
018.0003.0		PTFE	S	Diaphragm	
018.0045.0		PTFE	T	Diaphragm	

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EMEC Pump Head Spares
PRIUS D Series

EMEC - PRIUS D Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.1802.1	FP	PVDF	NM	Head Complete	8 x 10 / 8 x 12
020.1803.1	EP	PVDF	NM	Head Complete	8 x 10 / 8 x 12
020.1810.1	FP	PVDF	NM	Head Complete	13 ID
020.1811.1	EP	PVDF	NM	Head Complete	13 ID
020.1831.1	EP	PP	NM	Head Complete	13 ID
020.1840.1	FP	PP	NM	Head Complete	13 ID
020.1858.1	FP	SS	NM	Head Complete	1/2 inch thread
020.1861.1	EP	SS	NM	Head Complete	1/2 inch thread
020.1804.1	FP	PVDF	TM	Head Complete	13 ID
020.1805.1	EP	PVDF	TM	Head Complete	13 ID
020.1806.1	FP	PVDF	TM	Head Complete	18 ID
020.1807.1	EP	PVDF	TM	Head Complete	18 ID
020.1830.1	FP	PP	TM	Head Complete	18 ID
020.1829.1	EP	PP	TM	Head Complete	18 ID
020.1859.1	FP	SS	TM	Head Complete	3/4 inch thread
020.1862.1	EP	SS	TM	Head Complete	3/4 inch thread
020.1808.1	FP	PVC	UM	Head Complete	32 ID
020.1809.1	EP	PVC	UM	Head Complete	32 ID
020.1860.1	FP	SS	UM	Head Complete	1 inch thread
020.1863.1	EP	SS	UM	Head Complete	1 inch thread
026.0220.0	FP		NM	Head O-ring	
026.0223.0	EP		NM	Head O-ring	
026.0117.0	FP		TM	Head O-ring	
026.0119.0	EP		TM	Head O-ring	
026.0419.0	FP		UM	Head O-ring	
026.0436.0	EP		UM	Head O-ring	
018.0005.0		PTFE	NM	Diaphragm	
018.0049.0		PTFE	TM	Diaphragm	
018.0048.0		PFTE	UM	Diaphragm	

PVDF

PP

AISI316L

EP = EPDM Seals
FP = VITON Seals

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EMEC Pump Head Spares
PRISMA Series

EMEC - PRISMA Series Dosing Head

Model	Seals	Materials	Head	Description	Connection mm
020.2500.1	EP	PMMA	I	Head Complete	4 x 6
0202535.1	FP	PMMA	I	Head Complete	4 x 6
020.2417.1	FP	PVDF	L	Head Complete	4 x 6
020.2531.1	EP	PVDF	L	Head Complete	4 x 6
020.2424.1	EP	PP	L	Head Complete	4 x 6
020.2418.1	FP	PVDF	M	Head Complete	6 x 8
020.2532.1	EP	PVDF	M	Head Complete	6 x 8
020.2533.1	EP	PP	M	Head Complete	6 x 8
020.2419.1	FP	PVDF	N	Head Complete	8 x 12 / 8 x 10
020.2469.1	EP	PP	N	Head Complete	8 x 12 / 8 x 10
020.2515.1	EP	PVDF	N	Head Complete	8 x 12 / 8 x 10
018.0027.0		PTFE	I	Diaphragm	
018.0033.0		PTFE	L	Diaphragm	
018.0004.0		PTFE	M	Diaphragm	
018.0022.0		PTFE	N	Diaphragm	

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FP = VITON Seals

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Assemblies

At Aqua Products Limited, we supply a number of custom assemblies that are designed and constructed to meet our customers requirements.

Many of these assemblies feature our customers proprietary designs, so we can't include images in our catalogue.

However we are pleased to provide a few examples of typical assemblies for your consideration.

You can choose one of these proven designs, or we can design and build to your requirements on request.

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Hot Injection Set

Standard Features:

- Recommended for Boiler Applications and for Hot Tanks
- Allows for Installation into Either a 1/2" or 1/4" BSP Connection
- Injection Quill to Deliver Chemical into the Centre of the Pipework
- Isolating Valve, so that the Injection Valve can be Easily Serviced/Replaced Without Process Water Shutdown
- 0.5 mtr of 6mm SS Pipe to Dissipate the Heat
- Adaptor to 6mm Flexible Tubing

Models:

Model	Description
HOTINJSET	For injecting chemicals into hot pipelines or tanks

EMEC has advised that their PVDF injection valves supplied standard with K, V and A series pumps are suitable for use at up to 85°C at 18 bar, or up to 130°C at 5 bar.

Our recommendation allowing for a margin of safety,
is to use a hot injection set in any installation with the potential to operate at above 100°C
and for any installation operating above 85°C under pressure.

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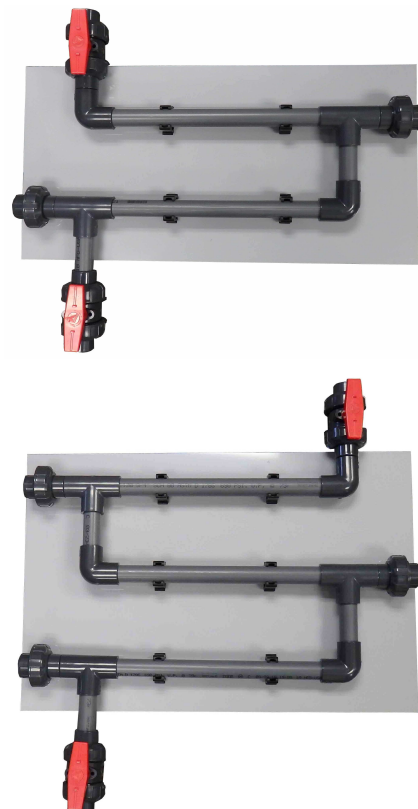
Corrosion Racks

Standard Features:

- High Quality Schedule 80 PVC Construction
- Double Union Isolating Ball Valves
- Easy to use Union Style Coupon Holders
- PVC Back Plate for Easy Mounting

Corrosion racks hold corrosion coupons in a sample water flow,
to simulate the corrosion of similar metals in the system.

Models:

Model	Description
2PASSCR	Corrosion Rack 2 Pass
3PASSCR	Corrosion Rack 3 Pass
4PASSCR	Corrosion Rack 4 Pass
4PASSCRDEL	Corrosion Rack 4 Pass Deluxe

Standard version with
isolating valves.

Deluxe version with
flow meter & bleed valve.

Options:

Alternative pipe materials.
2, 3 and 4 pass available standard.
Custom builds on request.
Flow switch on flowmeter.

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WTC Cooling Tower Control Panel

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Consisting of:

- EMEC WTC Controller
- Dual Pumps Built In
- EMEC MANIFOLD/3 Control Manifold
- Non Return
- Flow Switch
- Chemical Injection Points
- Motorised Bleed Valve

Models:

Model	Functions
WTC BASIC	Conductivity control of cooling tower bleed. Timer control of dual biocide dosing, or Timer controlled biocide plus water meter control of inhibitor dosing. Timer output for control of an additional dosing pump. Alarm output.

Options:

With or without weatherproof enclosure.
Web based remote management.
Timer control of an additional metering pump or
electric valve.

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CENTURIO Tower Control Panel

Consisting Of:

- EMEC CENTURIO Tower Controller
- Touch Screen Display
- 3 x EMEC VMSMF Metering Pumps
- Schedule 80 PVC Manifold
- Motorised Bleed Valve
- Flow Switch
- Non Return
- Chemical Injection Points
- Sample Valve

Models:

Model	Functions
CENTURIO BASIC	Monitoring and display of conductivity, pH and ORP. Conductivity based bleed valve control. ORP control of biocide dosing. Water meter based control of inhibitor dosing. Timer based control of secondary biocide dosing. LAN connection for web based remote management.

Options:

Plug and play input modules for chlorine, chlorine dioxide, bromine, ozone, hydrogen peroxide, peracetic acid, generic 4-20mA, tracers, temperature.
Weather proof enclosure.

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MTOWER Cooling Tower Control Panel

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Consisting Of:

- EMEC MTOWER CD Controller
- EMEC MANIFOLD/3 Control Manifold
- Motorised Bleed Valve
- 2 x EMEC FPESR0002 Peristaltic Dosing Pumps
- 1 x EMEC FPVM102.2EP Metering Pump

Models:

Model	Functions
MTOWER BASIC	Conductivity control of cooling tower bleed. Timer control of dual biocide dosing. Water meter control of inhibitor dosing.

Options:

4-20mA output signals.
Data-logging to USB.
Remote monitoring and management.
MODBUS.

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2 Way pH Correction System

Consisting Of:

- IP66 Enclosure with Hinged Lid
- EMEC LDSPH PLUS PH Controller
- Flow Meter with Integral Flow Switch
- EMEC VCO Acid Pump
- EMEC VCO Caustic Pump
- Schedule 80 Pipework
- Isolating Valves
- Non Return Valve

Models:

Model	Functions
2WAY pH	Continuous on line monitoring of pH. Acid and alkaline dosing pumps for pH correction in either direction.

Options:

Automatic Temperature compensation.
4-20mA signal output.
Datalogging to USB.
Remote control by LAN connection.
Remote control by GPRS.
MODBUS.

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Proportional Dosing System

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Consisting Of:

- EMEC Pulse Output Water Meter
- EMEC Chemical Dosing Pump
- Pipework in Schedule 80 PVC
- Isolating Valves
- Non Return Valve
- PVC Back Board

Models:

Model	Functions
PROPDOSE	The proportional dosing system injects chemical to achieve the same ratio of chemical to water, regardless of variations in flowrate.

Options:

Pipework and water meter sized to suit the flowrate.
Materials of construction selected for chemical compatibility.
Pump capacity selected to suit application.

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Automatic Tank Chlorination

Consisting of:

- EMEC VMSPO Metering Pump
- Built In ORP Controller
- Adjustable Timer to Set Working Times
- ORP Probe
- Non Return
- Motorised Ball Valve
- Weatherproof Enclosure

Complete automatic tank chlorination system in a box.

Tank is recirculated when programmed and automatically dosed to an ORP set point.

Models:

Model	Functions
VPO BASIC	Automatic tank chlorination system for safe drinking water. Timer based dosing with ORP probe dosing limit.

Options:

Pump capacity selected to suit application.

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Mixing & Dosing Station

Tank / Pump / Mixer / Lance / Level / Probe

Select a combination
to best suit your application.

Combinations:

Tank Model	Pump	Mounted With	Mixer	Suction Lance	Visual Level Indicator	Level Lance	Laser Level Probe
CNT PD50	V	Bracket	MIXMAN	LASP4 LASP5	SLV50	LALIV40	SLL50
	K						
	T	Bracket					
	PRISMA						
CNT PD110	V	Bracket	MIX8N MIXV8N	LASP4 LASP5	SLV110	LALIV63	SLL110
	K						
	A	Bracket					
	T						
	PRISMA						
CNT PD200	V	Bracket	MIX8N MIXV8N MIX4N MIXV4N MIXV2N	LASP4 LASP5	SLV200	LALIV75	SLL200
	K						
	A	Bracket					
	T						
	PRISMA						
CNT PD500	V	Bracket	MIX4N MIXV4N MIXV2N	LASP4 LASP5	SLV500	LALIV108	SLL500
	K						
	A	Bracket					
	T						
	PRISMA						
	PRIUS	Support					
CNT PD1000	V	Bracket	MIX4N MIXV2N MIX2N	LASP1 LASP3		LALIV122	SLL1000
	K						
	A	Bracket					
	T						
	PRISMA						
	PRIUS	Support					

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EMEC - ARGAL - ALLAQUA - KLD

LUMINOR - MIXTRON - DELTA - ITS

TOSCANO - ZYIA - MILWAUKEE

Dosing & Control Systems   Chemical Transfer Pumps

Motorised Valves   Valves & Fittings

Water Testing Equipment   Water Softeners

UV Sterilisers   Ozone

Flowmeters   Filtration

Water Softeners
Section 12

Ozone
Section 18

Testing / Filtration
Section 24 / 19

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