ELGA VEOLIA

PURELAB

ANALYTICAL RESEARCH

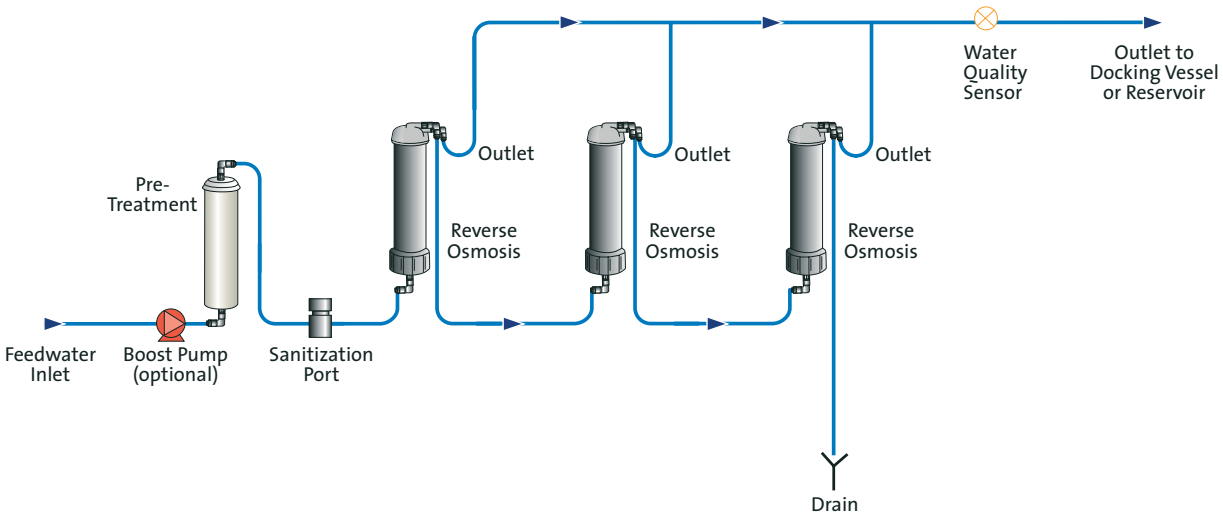
PURELAB® Prima 7/15/30

The PURELAB Prima is ideal for feeding ultra-pure water systems and for a wide range of laboratory applications including glassware washing, autoclave feed and for use in environmental cabinets.

- Simple to use and maintain with a clear display of water quality
- Auto rinse facility maintains purity of water after periods of low use
- Minimal consumables delivers a lower cost of ownership
- Provides for future changes in demand with easy upgradeability to higher flow rates
- Optional integral feedwater boost pump reduces costs

The cost-effective choice for glassware washing

Process Flow PURELAB Prima 7/15/30



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Treated Water Specifications

Model	Prima 7	Prima 15	Prima 30
Make up rate[1]	7.5 l/hr	15 l/hr	30 l/hr
Daily output (nominal max)[1]	180 l/24 hour day	360 l/24 hour day	720 l/24 hour day
Output reverse pressure (max)	0.1 bar (1 psi)	0.1 bar (1 psi)	0.1 bar (1 psi)
Purity:			
Inorganic - minimum	>90% rejection	>90% rejection	>90% rejection
Inorganic - typical	up to 98% rejection	up to 98% rejection	up to 98% rejection
Organics (MW>100 Dalton)	>99% rejection	>99% rejection	>99% rejection
TOC[2]	<50 ppb	<50 ppb	<50 ppb
Bacteria[2]	<5 CFU/ml	<5 CFU/ml	<5 CFU/ml
Particles	>99% rejection	>99% rejection	>99% rejection

[1]*Standard conditions are 4 bar inlet pressure, <0.1 bar back pressure at 15 degrees centigrade, fed with potable water and a clean pre-treatment cartridge. Refer to flow tables outside these conditions.* [2]*Subject to correct operating and maintenance procedures.*

Dimensions and weights

Height	460mm (18.1in)	460mm (18.1in)	460mm (18.1in)
Width	410mm (16.2in)	410mm (16.2in)	410mm (16.2in)
Depth	270mm (10.6in)	270mm (10.6in)	270mm (10.6in)
Weight with internal boost pump	13.5kg (30lb)	14.5kg (32lb)	15.0kg (33lb)
Weight without internal boost pump	11.5kg (25lb)	12.5kg (28lb)	13.0kg (29lb)

Feedwater Requirements

Source quality	Potable mains water supply	Potable mains water supply	Potable mains water supply
Fouling index - maximum	10	10	10
Conductivity	2000 µS/cm*	2000 µS/cm*	2000 µS/cm*
Free chlorine - maximum	0.5 ppm	0.5 ppm	0.5 ppm
Heavy metals - maximum	0.05 ppm	0.05 ppm	0.05 ppm
Silica - maximum	30 ppm	30 ppm	30 ppm
Temperature	1 - 35°C	1 - 35°C	1 - 35°C
Flowrate (maximum requirement)	145 l/hr	150 l/hr	155 l/hr
Drain requirements (gravity fall with air gap). Maximum during service	70 l/hr	70 l/hr	80 l/hr
Feedwater Pressure			
Maximum - without internal boost pump	6.0 bar (90 psi)	6.0 bar (90 psi)	6.0 bar (90 psi)
Minimum - without internal boost pump	4.0 bar (60 psi)	4.0 bar (60 psi)	4.0 bar (60 psi)
Maximum - with internal boost pump	2.0 bar (30 psi)	2.0 bar (30 psi)	2.0 bar (30 psi)
Minimum - with internal boost pump	Flooded Suction	Flooded Suction	Flooded Suction

** Deionization cartridge life may vary with feedwaters >1400 µS/cm*

Electrical Requirements

Mains input	100-240V ac, 50-60Hz all models	100-240V ac, 50-60Hz all models	100-240V ac, 50-60Hz all models
System voltage	24V dc	24V dc	24V dc
Power consumption with boost pump	52VA	52VA	52VA
Power consumption without boost pump	28VA	28VA	28VA
Fuses	2 x T3.15 Amp	2 x T3.15 Amp	2 x T3.15 Amp
Reservoir level connection	Jack Plug 3.5mm	Jack Plug 3.5mm	Jack Plug 3.5mm
Noise level	<45dBA	<45dBA	<45dBA

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