

PURELAB

ANALYTICAL RESEARCH



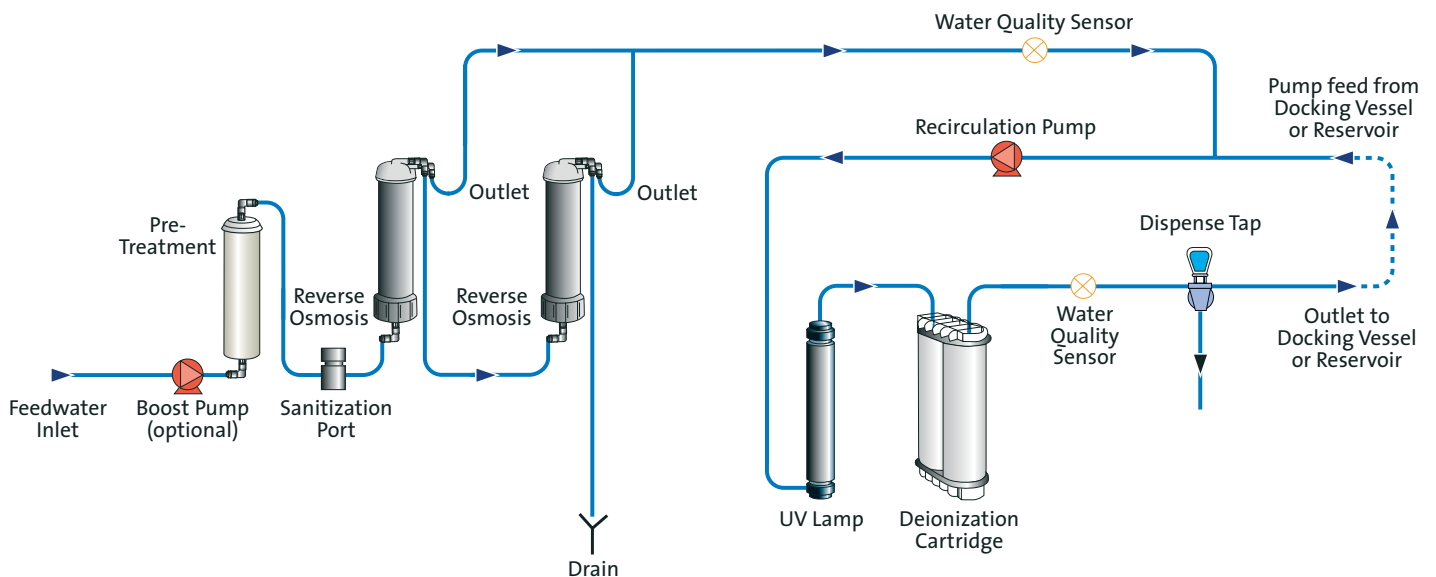
PURELAB® Option-S/R 7/15

The PURELAB Option provides Type II+/II pure water on demand with a wide range of flow-rates to suit your needs. Applications range from glassware washing and the feeding of ultrapure water systems to cell culture and media preparation. The PURELAB Option-R provides bacteria and inorganic quality for your more critical applications.

- The PURELAB Option-R system is the only fully recirculating Type II+ pure water system on the market, ensuring high specification water
- Features 'Reverse Osmosis feed optimized' resin mixes to increase the ion exchange capacity of consumables and minimize running costs
- Quick and easy sanitization and replacement of consumables to reduce maintenance time
- PURELAB Option systems are designed to be easy to access whether wall or bench mounted with a convenient dispense tap. They can be used with our wrap-around reservoirs to save space whilst optimizing purity

The only fully deionization recirculating Type II pure water system

Process Flow PURELAB Option-R 7/15



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Treated Water Specifications

Model	Option-S 7	Option-S 15	Option-R 7	Option-R 15
Make up rate ¹	7.5 l/hr	15 l/hr	7.5 l/hr	15 l/hr
Dispense rate from tap			1.0 l/min-nominal (less with POU filter)	1.0 l/min-nominal (less with POU filter)
Daily output (nominal max) ¹	180 l/24 hour day	360 l/24 hour day	180 l/24 hour day	360 l/24 hour day
Output reverse pressure (max) ²	0.1 bar (1 psi)	0.1 bar (1 psi)	0.1 bar (1 psi)	0.1 bar (1 psi)
Purity:				
Inorganics@ 25°C	1 to >10 MΩ-cm	1 to >10 MΩ-cm	10 to >15 MΩ-cm	10 to >15 MΩ-cm
Total organic carbon (TOC)	<30 ppb	<30 ppb	<20 ppb	<20 ppb
Bacteria ²	n/a	n/a	<1 CFU/ml	<1 CFU/ml
pH	Effectively neutral	Effectively neutral	Effectively neutral	Effectively neutral
Particles	n/a	n/a	Optional 0.2µm POU filter	Optional 0.2µm POU filter

¹ Standard conditions are 4 bar inlet pressure, 0 bar back pressure at 15 degrees centigrade, fed with potable water and a clean pre-treatment cartridge.

² Subject to suitable feedwater

Dimensions and weights

Height	460mm (18.1in)	460mm (18.1in)	460mm (18.1in)	460mm (18.1in)
Width	410mm (16.1in)	410mm (16.1in)	550mm (21.7in)	550mm (21.7in)
Depth	270mm (10.6in)	270mm (10.6in)	270mm (10.6in)	270mm (10.6in)
Weight with internal boost pump	16kg (35lb)	16.5kg (36lb)	20kg (44lb)	21kg (46lb)
Weight without internal boost pump	-	-	18kg (40lb)	-

Feedwater Requirements

Source Quality	Potable mains water supply	Potable mains water supply	Potable mains water supply	Potable mains water supply
Fouling index - maximum	10	10	10	10
Conductivity*	<2000 µS/cm	<2000 µS/cm	<2000 µS/cm	<2000 µS/cm
Free chlorine - maximum	0.5 ppm	0.5 ppm	0.5 ppm	0.5 ppm
Heavy metals - maximum	0.05 ppm	0.05 ppm	0.05 ppm	0.05 ppm
Silica - maximum	30 ppm	30 ppm	30 ppm	30 ppm
Temperature	1 - 35°C	1 - 35°C	1 - 35°C	1 - 35°C
Flowrate (maximum requirement)	78 l/hr	85 l/hr	78 l/hr	85 l/hr
Drain requirements (gravity fall with air gap). Maximum during service	70 l/hr			
Feedwater Pressure				
Maximum - without internal boost pump	-	-	6.0 bar (90 psi)	-
Minimum - without internal boost pump	-	-	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)	2.0 bar (30 psi)
Minimum - with internal boost pump	Flooded Suction	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	100-240V ac, 50-60Hz	100-240V ac, 50-60Hz	100-240V ac, 50-60Hz
System voltage	24V dc	24V dc	24V dc	24V dc
Power consumption with boost pump	43VA	43VA	80VA	80VA
Power consumption without boost pump	-	-	50VA	-
Fuses	2 x T3.15 Amp	2 x T3.15 Amp	2 x T6.3 Amp	2 x T6.3 Amp
Reservoir level connection	Jack Plug 3.5mm	Jack Plug 3.5mm	Jack Plug 3.5mm	Jack Plug 3.5mm
Noise level	<45dBA	<45dBA	<45dBA	<45dBA

ELGA LabWater

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