

PURELAB ANALYTICAL RESEARCH



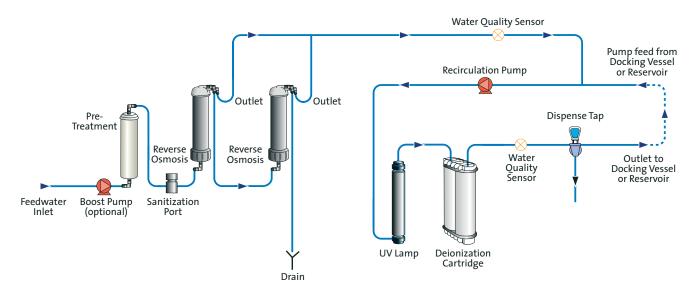
PURELAB® Option-S/R 7/15

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 additional bacteria and inorganic quality for your more critical applications.

- Delivers market leading microbial performance. In addition to simple sanitization and composite vent filtration, 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 |
| рН | 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 | 13.5kg (30lb) | 14.5kg (32lb) | 18kg (40lb) | 19kg (42lb) |

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) |
| Minimum - with internal boost pump | Flooded Suction | Flooded Suction | Flooded Suction | Flooded Suction |

* Deionization cartridge life may vary with feedwaters >1400 $\mu\text{S/cm}$

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 | 19VA | 19VA | 50VA | 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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