PURELAB

ANALYTICAL RESEARCH

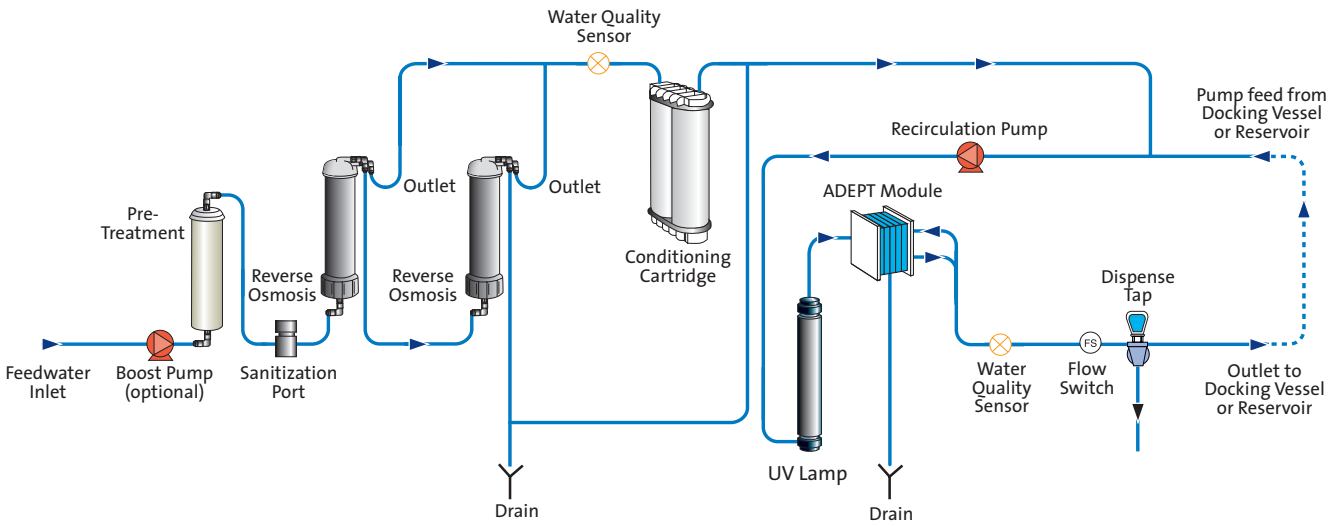
PURELAB Option-E 5/10

The PURELAB Option-E is the cost-effective choice for laboratories that require higher output volumes especially in hard water areas. Applications range from glassware washing and the feeding of ultra-pure water systems to cell culture and media preparation

- Delivers market leading performance. Using patented circulating electro deionisation (R-EDI) technology. The PURELAB Option-E ensures that all purified water is re-circulated up to the point of use and is continually 'polished' for optimum purity
- Quick and easy sanitization and replacement of consumables to reduce maintenance time
- PURELAB Option-E systems are designed to be easy to access whether wall or bench mounted, with a convenient dispense tap. The systems can be used with our wrap-around reservoir to minimize space whilst optimizing purity

The only fully recirculating Type II system

Process Flow PURELAB Option-E 5/10



ELGA

VEOLIA WATER Solutions & Technologies

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Treated Water Specifications

Model	Option-E5	Option-E10
Make up rate[1]	7.5 l /hr	15 l /hr
Daily output (nominal max)[1]	96 l /24 hour day	216 l /24 hour day
Dispense rate from tap	1.0 l / min-nominal (less with POU filter)	1.0 l / min-nominal (less with POU filter)
Output back pressure (max)[2]	0.1 bar (1 psi)	0.1 bar (1 psi)
Purity:		
Inorganics @25°C[3]	10 to >15 MΩ-cm	10 to >15 MΩ-cm
Total organic carbon (TOC)	<20 ppb	<20 ppb
Bacteria[2]	<1 CFU/ml	<1 CFU/ml
pH	Effectively neutral	Effectively neutral
Particles	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 correct operating and maintenance procedures and use of POU filter.* [3] *Optimum performance will be achieved with moderate use on moderate feedwaters. At high usage, (>100 l/day) and or high Total Conductivity/CO_2 feedwaters (>700µS/cm, 20 ppm CO_2) some reduction in resistivity may occur.*

Dimensions and weights

Height	460mm (18.1in)	460mm (18.1in)
Width	550mm (21.7in)	550mm (21.7in)
Depth	270mm (10.6in)	270mm (10.6in)
Weight with internal boost pump	20kg (44lb)	21kg (46lb)
Weight without internal boost pump	18kg (40lb)	19kg (42lb)

Feedwater Requirements

Source quality	Potable mains water supply	Potable mains water supply
Fouling index-maximum	10	10
Total conductivity-maximum	1400 µS/cm	1400 µS/cm
Free chlorine-maximum	0.5 ppm	0.5 ppm
CO_2 - maximum*	<30 ppm	<30 ppm
CO_2 - recommended	<20 ppm	<20 ppm
Heavy metals – maximum	0.05 ppm	0.05 ppm
Silica-maximum	30 ppm	30 ppm
Temperature	1 - 35°C	1 - 35°C
Flowrate (Maximum requirement)	75 l/hr	80 l/hr
Drain requirements (gravity fall with air gap). Maximum during Service	70 l/hr	70 l/hr
Feedwater Pressure		
Without internal boost pump	6.0 bar (90 psi) maximum, 4.0 bar (60 psi) minimum	
With internal boost pump	2.0 bar (30 psi) maximum, flooded suction minimum	

Electrical Requirements

Mains input	100 - 240V ac, 50 - 60Hz	100 - 240V ac, 50 - 60Hz
System voltage	24V dc	24V dc
Power consumption with boost pump	110VA	110VA
Power consumption without boost pump	85VA	85VA
Fuses	2 x T6.3 Amp	2 x T6.3 Amp
Reservoir level connection	Jack Plug 3.5mm	Jack Plug 3.5mm
Noise level	<45dBA	<45dBA

** Contact ELGA LabWater for feed water >30ppm*

ELGA LabWater
Tel: +44 (0) 1494 887500 Fax: +44 (0) 1494 887505
Email: info@elgalabwater.com Website: www.elgalabwater.com

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