ELGA VEOLIA

PURELAB

RESEARCH & TESTING

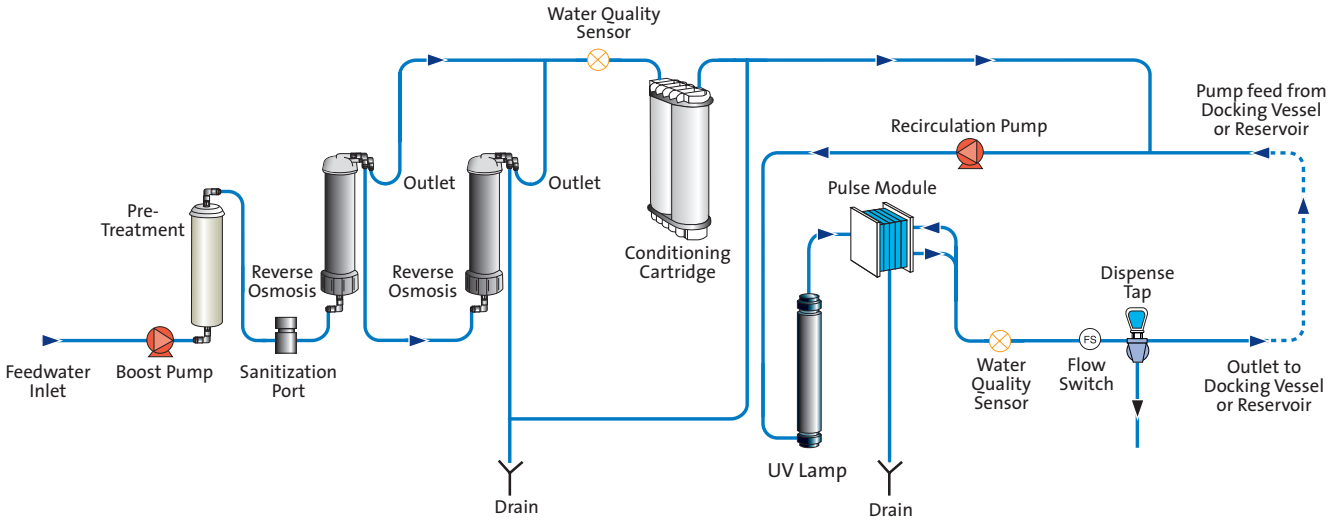
PURELAB® Pulse

The PURELAB Pulse is the cost-effective choice for laboratories that require higher output volumes especially in hard water areas. Applications range from sample dilution and reagent preparation, cell culture, media preparation and glassware washing.

- Incorporates patented 'Pulse Technology' using Electrodeionization (EDI) to provide a constant supply of high purity water at economical running costs. No costly resin replacement
- Unique integral recirculation ensures optimum pure water quality at point of dispense
- Improved laboratory productivity – quick and easy replacement of consumables reduces maintenance time
- 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 EDI Type II water system that fully recirculates

Process Flow PURELAB Pulse



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Treated Water Specifications

Model	Pulse 2
Make up rate @ 15°C [1]	up to 20 l /hr
Daily output [1]	up to 216 l /24 hour day
Dispense rate from tap (max)	1.0 l / min-nominal (less with POU filter)
Output back pressure (max) [2]	0.1 bar (1 psi)
Inorganics @25°C [3]	10 to >15 MΩ-cm
Total organic carbon (TOC)	<20 ppb
Bacteria [2]	<1 CFU/10ml
pH	Effectively neutral
Particles	Optional 0.2 µm POU filter

[1] *Standard conditions are 4 bar inlet pressure, 0 bar back pressure, 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) with high Total Conductivity and CO_2 feedwaters (>700µS/cm, 20 ppm CO_2) some reduction in product water resistivity may occur.*

Dimensions and weights

Height, Width, Depth	Height 460mm (18.1in), Width 550mm (21.7in), Depth 270mm (10.6in)
Operational weight	21kg (46lb)
Installation	Bench/wall

Feedwater Requirements

Source	Potable Mains water supply as detailed below
Conductivity*	<2000 µS/cm
Temperature	1 – 35°C
Flow rate required (maximum)	80 l/hr
Drain requirements (minimum)	80 l/hr
Contaminant	
Hardness	<350 ppm as $CaCO_3$
Free Chlorine	<0.5 ppm
Chloramine	<0.2 ppm
TOC	<3 ppm
Silica	<30 ppm
Fouling Index	<10
Iron/Manganese	<0.2 ppm
CO_2 – maximum**	<30 ppm
Feedwater Pressure	30 psi (2.0 bar) maximum, flooded suction minimum

** A restriction on the daily output may be necessary for feedwater >1400 µS/cm. ** Contact ELGA LabWater for feed water >30ppm*

Electrical Requirements

Mains input	100 - 240V ac, 50 - 60Hz
System voltage	24V dc
Power consumption	110VA
Fuses	2 x T6.3 Amp
Reservoir level connection	Jack Plug 3.5mm
Noise level	<45dBA

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