PURELAB

ANALYTICAL RESEARCH

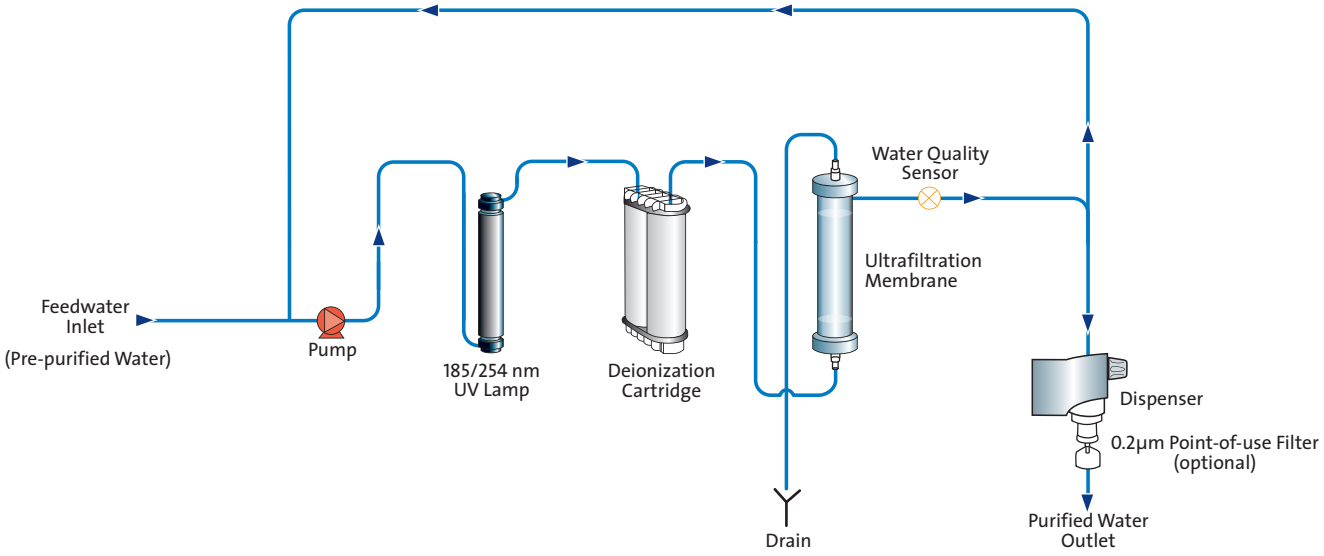
PURELAB Classic

The PURELAB Classic system combines high performance with economy to deliver 18.2 MΩ-cm water at a very cost-effective price. Despite its budget price the PURELAB Classic contains many market leading features.

- Ultra-pure water at very economic costs for the equipment and the cost of ownership
- Complete sanitization of all wetted parts ensures optimum microbial performance
- Automatic intermittent recirculation minimizes temperature build-up and optimizes microbial performance
- Very easy to maintain – incorporates 'fast rinse' ultra filter
- Upgradable from single pack to twin pack purification

Ultra-pure water at a very economic cost

Process Flow PURELAB Classic UVF



ELGA

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Treated Water Specifications

Model	Classic DI	Classic UV	Classic UF	Classic UVF
Flowrate	2.0 l/min max	2.0 l/min max	2.0 l/min max	2.0 l/min max
Inorganics	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
TOC	3 – 10 ppb	1 – 3 ppb	3 – 10 ppb	1 – 3 ppb
Bacteria	<1 CFU/ml[1]	<0.1 CFU /ml[1,2]	<0.1 CFU /ml1[1,2]	<0.1 CFU /ml1[1,2]
Bacterial endotoxin	-	-	<0.001 EU/ml	<0.001 EU/ml
pH	Effectively neutral	Effectively neutral	Effectively neutral	Effectively neutral
Particles	0.2 µm[1]	0.2 µm[1]	Ultrafiltration	Ultrafiltration
RNase and DNase	-	-	Removed	Removed
Cartridge capacity (LC186)	45,000 liters >18MΩ-cm per single purification pack/µS at pH 7.0 70,000 liters >1MΩ-cm per single purification pack/µS at pH 7.0			

[1] *With POU filter fitted.* [2] *<1 CFU/ml without point-of-use filter.*

Dimensions and Weights

Height	490mm (19.3in)	490mm (19.3in)	490mm (19.3in)	490mm (19.3in)
Width	410mm (16.2in)	410mm (16.2in)	410mm (16.2in)	410mm (16.2in)
Depth	365mm (14.4in)	365mm (14.4in)	365mm (14.4in)	365mm (14.4in)
Weight	14.0kg (30.8 lb)	14.5kg (32.0 lb)	14.5kg (32.0 lb)	15.0kg (33.1 lb)

Feedwater Requirements

Parameter	Limits
Source - originally from potable supply, then pre-treated	Preferably reverse osmosis (RO) or filtered service deionization (SDI) or distilled. Note: mixed bed or twin bed deionized supplies should be cation limited at exhaustion.
Fouling index (max)	1 for all models. A 0.2 micron membrane prefilter is recommended for all non-RO feeds.
Service deionization (SDI) - MΩ-cm	1 MΩ-cm minimum resistivity at exhaustion.
Reverse osmosis (RO) - µS/cm	Recommended < 30 µS/cm
Free chlorine	0.05 ppm max.
TOC	Recommended 50 ppb max.
Carbon dioxide	30 ppm max.
Silica	2 ppm max.
Particulates	Filtration down to 0.2 micron advisable to protect internal and/or point of use filters.
Temperature	1 - 40°C Recommended 10 - 15°C
Flowrate (maximum requirement)	130 l/hr
Drain requirements (gravity fall with air gap). Maximum during service	Up to 2 l/min
Feedwater pressure	0.7 bar (10 psi) maximum, 0.07 bar (1 psi) minimum

Electrical Requirements

Mains input	100 - 240V ac, 50 - 60Hz all models
System voltage	24V dc
Power consumption during recirculation	60VA
Power consumption during dispense	75VA
Fuses	2 x T6.3 Amp
Reservoir level connection	Jack Plug 3.5mm
Noise level during recirculation	<40dBA

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