PURELAB

ANALYTICAL RESEARCH

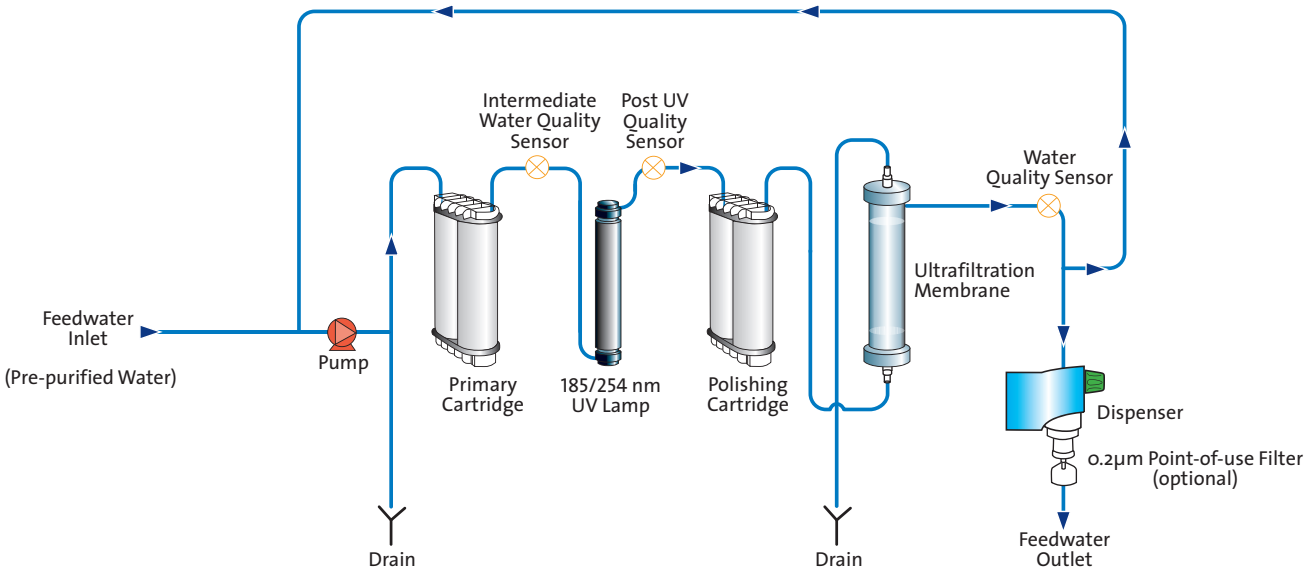
PURELAB Ultra

The new PURELAB Ultra is the intelligent ultra-pure water purification system for your most critical applications. It incorporates many unique and innovative features that set it apart from other systems and guarantees water purity to 18.2 MΩ-cm and beyond.

- Ultimate inorganic purity provided by the PureSure system
- Real-time TOC monitoring provides an update on Total Organic Carbon every 2 seconds, ensuring confidence in organic quality
- PureSure system ensures that work is not interrupted by cartridge replacement
- Ongoing bacterial performance guaranteed through complete sanitization of all wetted parts

Guaranteed water purity for your critical applications

Process Flow PURELAB Ultra Genetic



ELGA

VEOLIA WATER
Solutions & Technologies

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Treated Water Specifications

	Life Science		Analysis		General Science
Model	Genetic	Bioscience	Analytic	Ionic	Scientific
Flowrate	2.0 l/min max	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	18.2 MΩ-cm
TOC	1 – 3 ppb [1]	3 – 10 ppb [1]	1 – 2 ppb [1]	3 – 10 ppb [1]	3 – 10 ppb [1]
Bacteria	<0.1 CFU/ml [2]	<0.1 CFU/ml [2]	<0.1 CFU/ml [2]	<0.1 CFU/ml [2]	<1 CFU/ml [2]
Bacterial endotoxin	<0.001 EU/ml	<0.001 EU/ml	–	–	–
pH	Effectively neutral	Effectively neutral	Effectively neutral	Effectively neutral	Effectively neutral
Particles	Ultrafiltration	Ultrafiltration	0.05 µm	0.05 µm	0.2 µm [2]
RNase / DNase	Removed	Removed	–	–	–
Labpure cartridge capacity (LC182)	Liters at 18.2 MΩ-cm = 80,000 / µS/cm + (2.3 x ppm CO_2)				

[1] *Dependant on feedwater - recommended feed < 50 ppb TOC.* [2] *With POU filter fitted.*

Dimensions and weights

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

Feedwater Requirements

Parameter	Limits
Source - originally from potable supply, then pre-treated	Preferably reverse osmosis (RO) or filtered service deionisation (SDI) or distilled. Note: mixed bed or twin bed deionised 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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