

Type I water

Liters per day: 1 - 10

18.2 MΩ.cm

Key Features

- ☒ Real-time TOC
- ☒ Fully re-circulating
- ☒ Integrated filtration
- ☒ Adjustable dispensing

Ideally suited for:

- Mass Spectrometry
- Molecular biology
- Electrochemistry
- Atomic Spectroscopy
- Liquid Chromatography
- Cell cultures
- Gas Chromatography
- Immunochemistry
- Spectrophotometry
- Media / Buffer prep
- General chemistry

Power and flexibility.

A small unit with big power capabilities

The PURELAB flex 3 is the ultimate system providing tap to ultrapure water in one single unit.

Space saving design

The compact unit can be placed on the bench or can be wall mounted and has an integrated 7 liter reservoir filled by a 10 l/hr RO membrane, ensuring that water is always available.

Fully Recirculating

Ensuring the highest microbial purity and guaranteeing pure water at the point-of-use as recirculation of the water occurs from the reservoir right to the point of use.

Real-time TOC Monitoring

Provides complete confidence in organic purity and clear display at all times. The final quality sensor is placed at the entry of the flexible dispenser giving you peace of mind.

Flexible dispenser

The intuitive dispenser offers a clear display of the water purity for absolute confidence as you dispense.

Easy to maintain

The front doors ensure easy access to the consumables, making them quick and easy to replace.

Data capture

Data capture via USB for system performance validation and software updates.



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Flexible elegance.

An independent system

As the PURELAB flex 4 has manual-filling capability, it can operate independently from a tap, in temporary locations.

The system can be connected to a pre-treated water supply and is particularly suited for small volumes of water where TOC levels are critical and must remain stable.



Space saving design

The compact unit can be placed on the bench or can be wall mounted and has an integrated 7 liter reservoir filled by a 10 l/hr RO membrane, ensuring that water is always available.

Portable system

Access on the top of the system gives the option to fill the reservoir with pre-purified water. This means that it can be moved at any time as the lab environment evolves.

Real-time TOC Monitoring

Provides complete confidence in organic purity and clear display at all times.

Flexible dispenser

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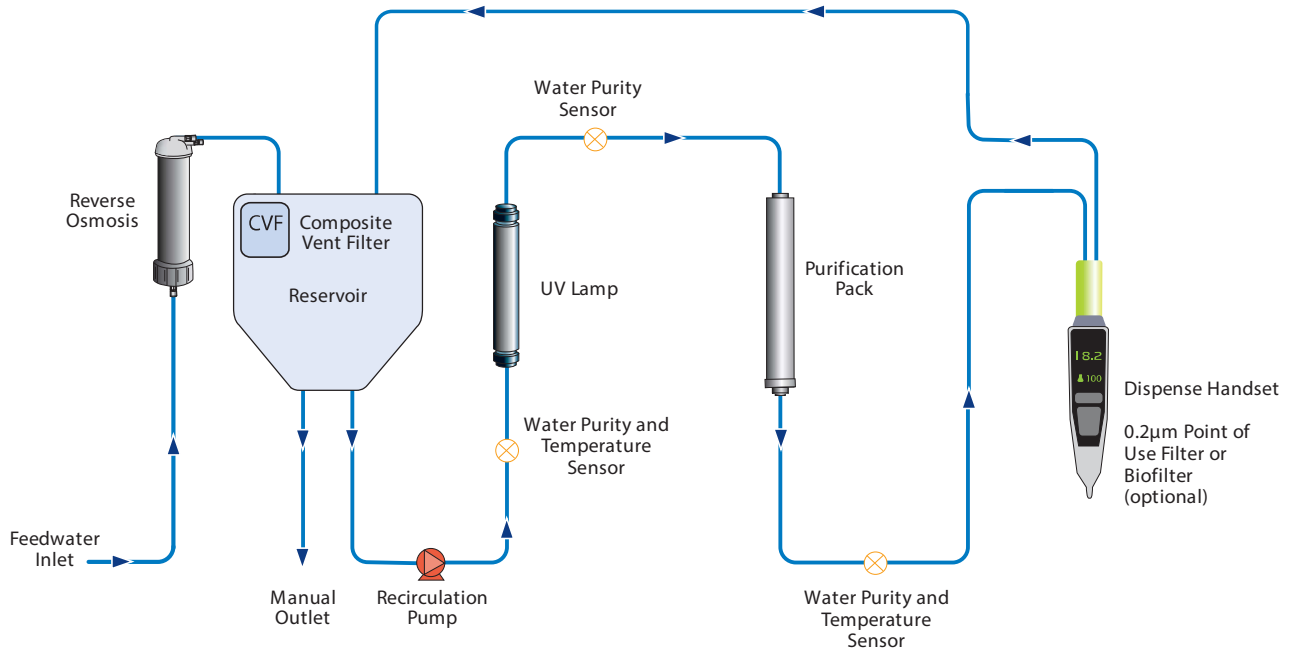
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Process Flow PURELAB flex 3



Specifications

TREATED WATER SPECIFICATIONS

APPLICATION	PURELAB flex 3	PURELAB flex 4
Daily volume	<10 liters	<100 liters
Dispense Flowrate	Up to 2.0 l/min	Up to 2.0 l/min
Reverse osmosis make up flow rate at 15°C	10 l/hour	N/A
Inorganics @25°C	18.2 MΩ.cm	18.2 MΩ.cm
Total organic carbon (TOC)	<5 ppb	<5 ppb*
Bacteria	<0.1 CFU/ml ^o	<0.1 CFU/ml ^o
Bacterial Endotoxin	<0.001 EU/ml ^o	<0.001 EU/ml ^o
RNase	<0.002 ng/ml ^o	<0.002 ng/ml ^o
DNase	<20 pg/ml ^o	<20 pg/ml ^o

* Dependant on feed water ^o With POU filter fitted

FEEDWATER REQUIREMENT

Source	Potable tap water	Originally from potable supply, then pretreated. Preferably reverse osmosis (RO) or filtered service deionization (SDI) or distilled.
Fouling index (max)	<10	<1
Free Chlorine	<0.5 ppm max	<0.05 ppm max
TOC	<2 ppm	<50 ppb recommended
Carbon dioxide	<30 ppm (recommended <20 ppm)	
Silica (recommended max)	<30 ppm	<2 ppm
Particulates	-	5-10µm
Temperature	4-40°C (Recommend 10-15°C)	
Flowrate (maximum requirement)	Up to 75 l/hr (20 USG)	Up to 75 l/hr (20 USG)
Drain requirements	<90 l/hr (23 USG)	<70 l/hr (18 USG)
Feedwater pressure	6 bar (90 psi) max; 2 bar (30 psi) min	6 bar (90 psi) max; 0.07 bar (1 psi) min

* Fit LA652 Pressure Regulator where feedwater pressure exceeds specified limits

Dimensions	Height 900-1020mm, Width 236mm, Depth 470mm	
Weight	23 kg (57.3 lbs)	23 kg (57.3 lbs)
Installation	Bench / wall	