

PURELAB


ANALYTICAL RESEARCH



PURELAB Option-Q

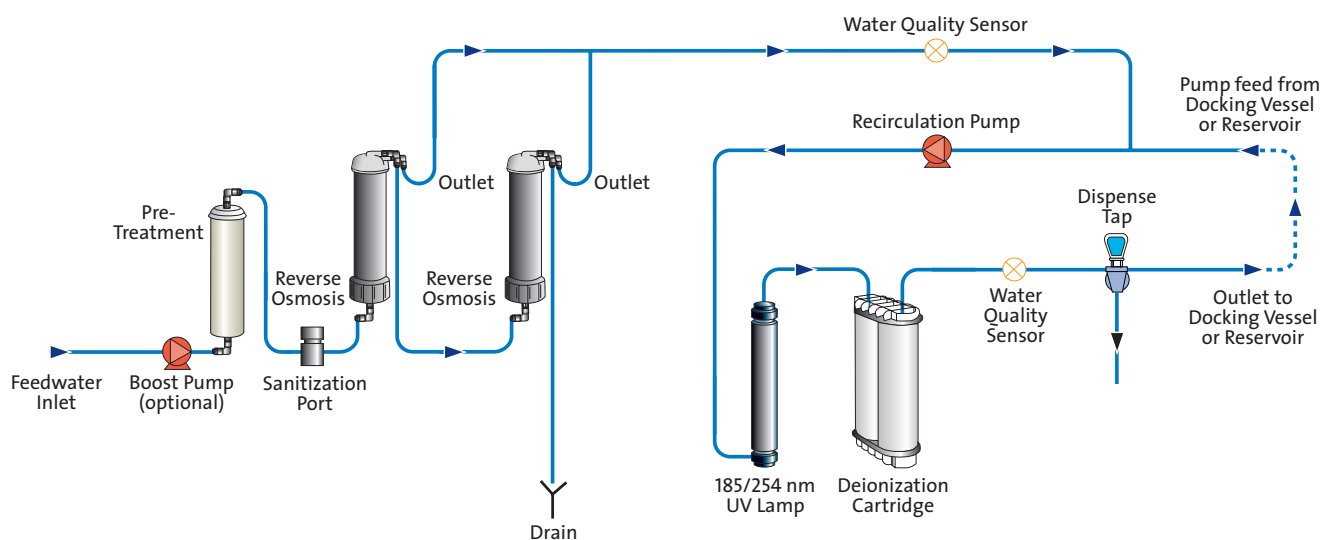
Tap to type I ultrapure water direct from a potable tap water supply. The PURELAB Option-Q is ideal for laboratories who need up to 100 liters of 18.2 MΩ.cm ultrapure water. With its simple design and ease of use, water can be dispensed at a flow rate of 1.0 l/min.

- Recirculation of purified water through our wrap-around reservoir – to maintain consistent peak water purity
- Optional ELGA Biofilter - when fitted to the Option-Q produces water which is free from biologically active impurities. This makes it suitable for use with applications which require endotoxin free ultrapure water, bacteria free water, and nuclease free ultrapure water
- Type III / RO water available from reservoir
- Front-entry service doors for easy and quick access to consumables
- Data collection capabilities through RS232 interface – for compliance with GLP guidelines
- Perfect single system solution for analytical and lifescience applications



Ultrapure type I water direct from a tapwater supply

Process Flow PURELAB Option-Q



Treated Water Specifications

Model	Option-Q 7	Option-Q 15	With ELGA Biofilter
Inorganics (resistivity @ 25°C)	Up to 18.2 MΩ-cm	Up to 18.2 MΩ-cm	Up to 18.2 MΩ-cm
Organics (TOC) – typical	1 – 3 ppb	1 – 3 ppb	1 – 3 ppb
Direct from reservoir	Type III / RO water ¹	Type III / RO water ¹	Type III / RO water ¹
Bacteria	<1 CFU/ml	<1 CFU/ml	<0.1 CFU/ml
Endotoxin	-	-	<0.001 EU/ml
RNase	-	-	<0.002 ng/ml
DNase	-	-	<20 pg/ml
pH	Effectively neutral	Effectively neutral	Effectively neutral

¹ (Equal to or >) Type III / RO water

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
Conductivity*	<2000 µS/cm	<2000 µS/cm
Total chlorine	0.5 ppm	0.5 ppm
Heavy metals - maximum	0.05ppm	0.05ppm
Silica - maximum	30 ppm	30 ppm
Temperature	1 - 35°C	1 - 35°C
Flowrate (maximum requirement)	78 l/hr	85 l/hr
Drain requirements (gravity fall with air gap). Maximum during Service	70 l/hr	70 l/hr
Feedwater Pressure		
Maximum - without internal boost pump	6 bar (90 psi)	6 bar (90 psi)
Minimum - without internal boost pump	4 bar (60 psi)	4 bar (60 psi)
Maximum - with internal boost pump	2 bar (30 psi)	2 bar (30 psi)
Minimum - with internal boost pump	Flooded suction	Flooded suction

* A restriction on the daily output may be necessary for feedwater >1400 µS/cm

Electrical Requirements

Mains input	100 - 240V ac, 50-60Hz all models	100 - 240V ac, 50 - 60Hz all models
System voltage	24V dc	24V dc
Power consumption with boost pump	90VA	90VA
Power consumption without boost pump	60VA	60VA
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

ELGA LabWater

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