



PURELAB Option-Q

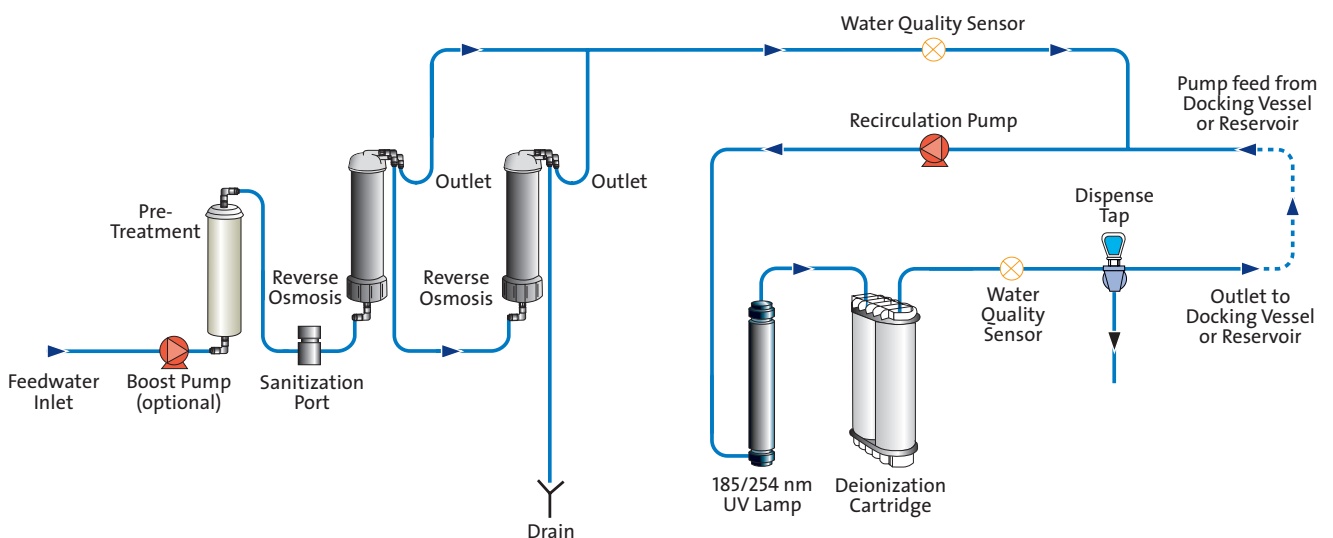
The PURELAB Option-Q produces ultra-pure water without the need for pre-purified feed. It can deliver up to 15 liters per hour (100 liters per 8 hour day) of 18.2 MΩ-cm water direct from a potable water supply and dispense this at a flow rate of 1.0 l/min.

- Recirculation of purified water through our wrap-around reservoir – to maintain consistent peak water purity
- Front-entry service doors for easy access to consumables
- Data collection capabilities through RS232 interface – for compliance with GLP guidelines
- 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 ultra-pure water, bacteria free water, and nuclease free ultra-pure water



Ultra-pure water direct from a potable supply

Process Flow PURELAB Option-Q



Treated Water Specifications

Model	Option-Q 7	Option-Q 15	With ELGA Biofilter
Inorganics at 25°C	Up to 18.2 MΩ-cm	Up to 18.2 MΩ-cm	Up to 18.2 MΩ-cm
TOC	1 – 3 ppb	1 – 3 ppb	1 – 3 ppb
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

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	1400 µS/cm	1400 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

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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