

PURELAB

ANALYTICAL RESEARCH



PURELAB 3000

The PURELAB 3000 series is ideal for all high usage applications requiring Type III water. The flexibility of the system means that it can be easily upgraded to provide Type II pure water or increased capacity should requirements change. Pure water can be used direct from the internal 50 liter reservoir or fed to much larger vessels as required.

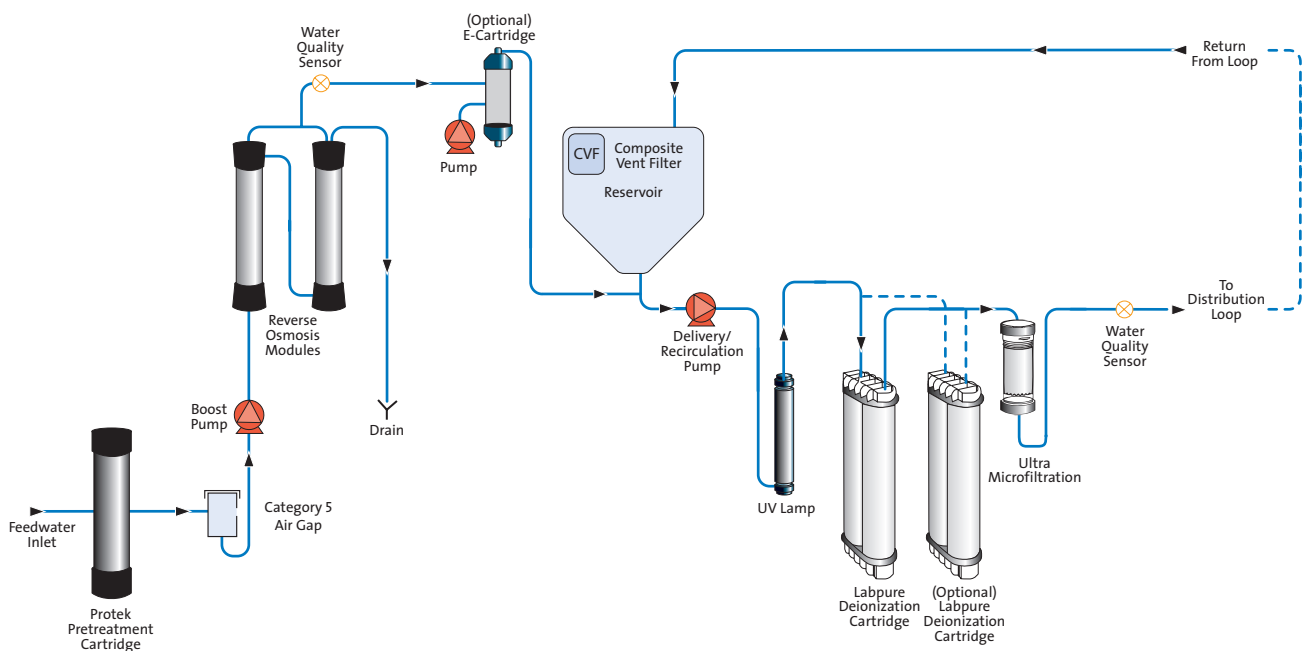
- Auto rinse and simple sanitization procedures maintain the purity of water for the life of the system
- A variety of connections and distribution pumps are available to cater for a diverse range of applications

PURELAB 7000

The PURELAB 7000 series is designed for applications requiring higher flows of Type II pure water or as a pure water feed system for small distribution loops. The system can supply water from the internal 50 liter reservoir at varying flow rates or can feed into much larger vessels as required.

- Small high purity distribution system with variable flow rates
- Auto rinse and simple sanitization procedures maintain the purity of water for the life of the system

Process Flow PURELAB 7000



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Treated Water Specifications

Model	PURELAB 3000		PURELAB 7000	
	3060	3120	7060	7120
Make-up rate @ 15°C	60 l/hr	120 l/hr	60 l/hr	120 l/hr
Daily usage – typical	480 liters	960 liters	480 liters	960 liters
Daily usage – maximum	1440 liters	2880 liters	1440 liters	2880 liters
Delivery flowrate	-	-	Up to 4 l/min @ 12 psi (0.8 bar) ³	Up to 4 l/min @ 12 psi (0.8 bar) ³
Inorganics rejection	>95%	>95%	-	-
Inorganics (resistivity @ 25°C)	>10 MΩ-cm ^{1,2}	>10 MΩ-cm ^{1,2}	>15 MΩ-cm	>15 MΩ-cm
Bacteria – typical	-	-	<1 CFU/ml	<1 CFU/ml
Organics (TOC) – typical	<50 ppb ¹	<50 ppb ¹	<10 ppb	<10 ppb
Particles	>99% Rejection ¹	>99% Rejection ¹	0.05 µm	0.05 µm

Specifications are for a system fed with a suitable water supply and installed, operated and sanitized according to the operator manuals.

¹ Quality of water feeding the reservoir. Quality out of reservoir depends on use and design.

² With optional deionization cartridge fitted. ³ With High Flow Kit (LA723) or 2 l/min @ 12 psi (0.8 bar) without high flow kit

Dimensions and weights

Dimensions	Height 820mm (32.8in), 834mm (33.4in) including castors, Width 794mm (31.8in), Depth 470mm (18.8in)			
Supply weight	52kg	60kg	52kg	53kg
Operational weight	109kg	117kg	109kg	110kg
Installation	Floor/bench	Floor/bench	Floor/bench	Floor/bench

Feedwater Requirements

Source	Tap water as detailed below
Contaminant	
Conductivity	<2000 µS/cm*
Hardness	<250 ppm as CaCO ₃
Free chlorine	<4 ppm Cl ₂
Chloramine	<1 ppm as Cl ₂
Silica	<30 ppm SiO ₂
Fouling Index	<10 FI
Iron/manganese	<0.1 ppm Fe/Mn
Organics	<3 ppm TOC
Temperature	4 – 40°C (Recommended 15 – 25°C)
Flowrate (maximum requirement @ 15°C)	9 l/min
Drain requirements (gravity fall with air gap)	20 l/min
Feedwater pressure	6 bar (90 psi) maximum, 2 bar (30 psi) minimum

Failure to comply with the feedwater pretreatment recommendations will affect the life and performance of key components and may invalidate the warranty. Feedwater requirements are specified for units fitted with a Protek L2 pretreatment cartridge. If feedwater purity is variable or values are outside any of the above ranges, additional pretreatment is recommended to be installed in the feedwater supply to the unit.

* Deionization cartridge life may vary with feedwater >1400 µS/cm

If in doubt seek advice from Technical Support at ELGA LabWater.

Electrical Requirements

Mains input	230V ac, 50Hz 115V ac, 60Hz
System control voltage (not including pumps and UV)	24V dc
Power consumption (peak demand)	650VA
Electrical protection rating	10 amps

ELGA LabWater

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