PURELAB

ANALYTICAL RESEARCH







PURELAB Classic

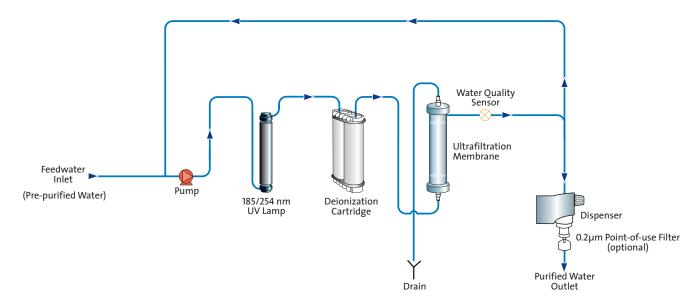
The PURELAB Classic system combines high performance with economy to deliver 18.2 $M\Omega$ -cm water at a very cost-effective price. Despite its budget price the PURELAB Classic contains many market leading features.

- Ultra-pure water at very economic costs for the equipment and the cost of ownership
- Complete sanitization of all wetted parts ensures optimum microbial performance
- Automatic intermittent recirculation minimizes temperature build-up and optimizes microbial performance
- Very easy to maintain incorporates 'fast rinse' ultra filter
- Upgradable from single pack to twin pack purification



Ultra-pure water at a very economic cost

Process Flow PURELAB Classic UVF







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Treated Water Specifications

Model	Classic DI	Classic UV	Classic UF	Classic UVF
Flowrate	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
TOC	3 – 10 ppb	1-3 ppb	3 – 10 ppb	1 – 3 ppb
Bacteria	<1 CFU/ml ¹	<0.1 CFU /ml ^{1,2}	<0.1 CFU /ml1 ^{1,2}	<0.1 CFU /ml1 ^{1,2}
Bacterial endotoxin	-	-	<0.001 EU/ml	<0.001 EU/ml
рН	Effectively neutral	Effectively neutral	Effectively neutral	Effectively neutral
Particles	0.2 μm¹	0.2 μm¹	Ultrafiltration	Ultrafiltration
RNase and DNase	-	-	Removed	Removed
Cartridge capacity (LC186)	45,000 liters >18MΩ-cm per single purification pack/ μ S at pH 7.0			

 $\frac{45,000\ liters}{70,000\ liters}$ >18MΩ-cm per single purification pack/µS at pH 7.0 $\frac{70,000\ liters}{10000\ liters}$ >1MΩ-cm per single purification pack/µS at pH 7.0

Dimensions and Weights

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

Feedwater Requirements

Source - originally from potable supply, then pre-treated Preferably reverse osmosis (RO) or filtered service deionization (SDI) or distilled. 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	Parameter	Limits		
Fouling index (max)1 for all models. A 0.2 micron membrane prefilter is recommended for all non-RO feeds.Service deionization (SDI) - MΩ-cm1 MΩ-cm minimum resistivity at exhaustion.Reverse osmosis (RO) - μS/cmRecommended < 30 μS/cm	0 1			
Service deionization (SDI) - MΩ-cm 1 MΩ-cm minimum resistivity at exhaustion. Reverse osmosis (RO) - μS/cm Recommended < 30 μS/cm	supply, then pre-treated	Note: mixed bed or twin bed deionized supplies should be cation limited 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	Fouling index (max)	1 for all models. A 0.2 micron membrane prefilter is recommended for all non-RO feeds.		
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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	Reverse osmosis (RO) - µS/cm	Recommended < 30 μS/cm		
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Temperature 1-40°C Recommended 10-15°C Flowrate (maximum requirement) 130 l/hr Drain requirements (gravity fall with air gap). Maximum during service	Silica	2 ppm max.		
Flowrate (maximum requirement) Drain requirements (gravity fall with air gap). Maximum during service 130 l/hr Up to 2 l/min	Particulates	Filtration down to 0.2 micron advisable to protect internal and/or point of use filters.		
Drain requirements (gravity fall with air gap). Maximum during service	Temperature	1 - 40°C Recommended 10 - 15°C		
with air gap). Maximum during service	Flowrate (maximum requirement)	130 l/hr		
service	Drain requirements (gravity fall	Up to 2 l/min		
	with air gap). Maximum during			
Feedwater pressure 0.7 bar (10 psi) maximum, 0.07 bar (1 psi) minimum	service			
	Feedwater pressure	0.7 bar (10 psi) maximum, 0.07 bar (1 psi) minimum		

Electrical Requirements

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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	

ELGA LabWater

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 $^{^1}$ With POU filter fitted. 2 <1 CFU/ml without point-of-use filter.