PURELAB® Chorus

Solutions For Type II Pure Water And Type III General Grade Water

Configure your solution

Step 1: Choose your system

Typical Applications	Select The Impurities You Want To Remove	Integrated Purification Technology: Pre-treatment (Carbon & Filtration)	Integrated Purification Technology: Reverse Osmosis (RO Cartridge)	Integrated Purification Technology: Ion-exchange (Purification Pack)	Your Daily Water Requirements	Your System and Part Number
Stills Replacement Buffer Preparation pH Solution Preparation Washing/Rinsing All Stainless Steel Autoclaves General Chemistry Spectrophotometry Feed to Type I & II Polisher	Inorganics (e.g. Calcium, Magnesium, Sodium, Bicorbonate, Sulphate) Organics (e.g. Pesticides, Hebicides, Decayed Plant & Animal Tissues) Particulates (>99% Removal of Anything ffl0.2µm) Bacteria (<5 CFU/ml)	✓	✓	✓	Up to 240 l/day Equivalent to 10 l/hour	PURELAB Chorus 2 (RO/DI)  Part No. PC210DIBPM3 or PC210DIXXM3
					Up to 480 l/day Equivalent to 20 l/hour	 Part No. PC220DIBPM3 or PC220DIXXM3
Glassware Rinsing, Heating Baths Autoclave Filling Hydroponics / Plant Growth Cabinets Steam Generators, Stability Chambers Sterilizer Feed Feed to Type I & II Polishers	Inorganics (e.g. Calcium, Magnesium, Sodium, Bicarbonate, Sulphate) Organics (e.g. Pesticides, Hebicides, Decayed Plant & Animal Tissues) Particulates (>99% Removal of Anything ffl0.2µm) Bacteria (<5 CFU/ml)	✓	✓	•	Up to 240 l/day Equivalent to 10 l/hour	PURELAB Chorus 3 (RO)  Part No. RO310BPM3 or RO310XXM3
					Up to 480 l/day Equivalent to 20 l/hour	 Part No. RO320BPM3 or RO320XXM3
					Up to 720 or 780 l/day Equivalent to 30 or 32.5 l/hour	 Part No. RO330BPM3 or RO330XXM3

Up to four x PURELAB Chorus 2 systems can be configured for a product flow rate of 80 l/hr

Up to four x PURELAB Chorus 3 systems can be configured for a product flow rate of 120 l/hr

Step 2: Optimize **Step 3:** Choose your water storage options

Optimize your Running Costs	Features							Working Volume and Part Number
	Configured Remotely to PURELAB Chorus	Configured on Top of PURELAB Chorus	Configured Underneath PURELAB Chorus	Wall mounting	Floor mounting	Dispense tap (1 supplied, 2nd tap optional)	15mm OD connection Max outlet flow 7 l/min (2 USG)	
Degassing Module Part No. LA775 CO_2 removal from the pre-purified water (post RO) increases the life of downstream consumables fitted to PURELAB Chorus 1 or 2 Recommended when the CO_2 present in the feed water is ffl the conductivity of the pre-purified water (post RO) Technology Note TN034	✓	✓	✓	✓ Part No. LA770	✓	✓ Part No. TAPS 39993	✓	15 liter  Part No. LA757
	✓	✓	✓	✓ Part No. LA770	✓	✓ Part No. TAPS 39993	✓	30 liter  Part No. LA758
High Recovery Kit Part No. LA765 Recommended in areas where water hardness <25ppm, feeding directly to your application. Technology Note TN035	✓	•	✓	✓ Part No. LA771	✓	✓ Part No. TAPS 39993	✓	60 liter  Part No. LA759

To download Technology Notes, please visit www.elgalabwater.com

Step 4: Choose the configuration that suits your laboratory

Wall Mounted

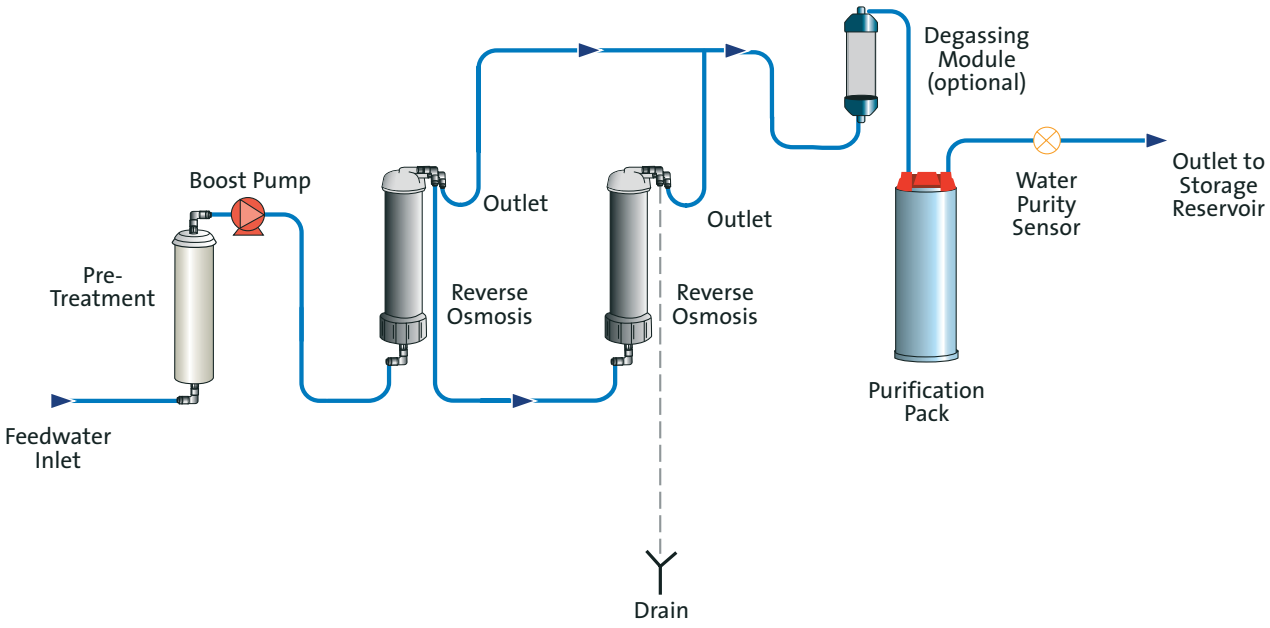
PURELAB Chorus 2 or 3
Configured next to storage reservoir

PURELAB Chorus 2 or 3
With 15 or 30 liter reservoir
configured on top
(floor, bench or wall mounted)

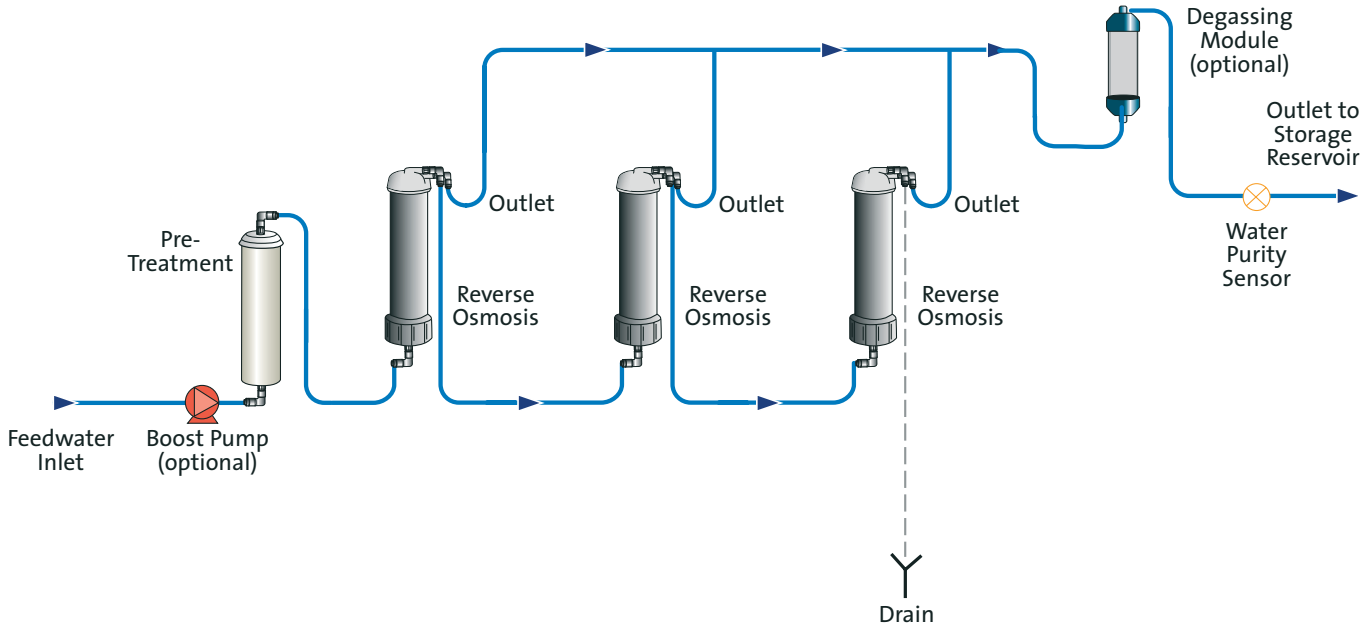
PURELAB Chorus 2 or 3
With 60 liter reservoir
configured underneath
(floor, bench or wall mounted)

2 x PURELAB Chorus 3
Configured together
(floor, bench or wall mounted)

PURELAB® Chorus 2 (RO/DI) – Pure Water for General Laboratory Applications



PURELAB® Chorus 3 (RO) – General Grade Water for Laboratory Applications



Treated Water Specifications

MODEL	PURELAB Chorus 2 (RO/DI)	PURELAB Chorus 3 (RO)		
Nominal output (max)	20 l/hr	10 l/hr	20 l/hr	30 l/hr
Nominal daily output (max)	480 l/24 hour day [1]	240 l/24 hour day [1]	480 l/24 hour day [1]	720 – 780 l/24 hour day [1]
Inorganics @ 25°C	1 to >10 MΩ-cm	>95% rejection		
Organics (MW>200 Dalton)	>99% rejection	>99% rejection		
Total organic carbon (TOC)	<30 ppb [2]	<100 ppb [2]		
Bacteria	<5 CFU/ml [2]	<5 CFU/ml [2]		
pH	Effectively neutral	Effectively neutral		
Particles	>99% rejection	>99% rejection		
Purification pack capacity	Liters to 1MΩ-cm = 90,000/(µS/cm + (2.3 x ppm CO^2)	–		

[1] Standard conditions are 4 bar inlet pressure at 15 degrees centigrade, fed with potable water and a clean pre-treatment cartridge. Refer to flow tables outside these conditions. [2] Subject to correct operating and maintenance procedures

Dimensions and Weights

Dimensions	Height minimum 435mm, Width 375mm, Depth 340mm			
Weight with internal boost pump	20kg (44lb)	17kg (37lb)	18kg (40lb)	19kg (42lb)
Weight without internal boost pump		15kg (33lb)	16kg (35lb)	17kg (37lb)

Feedwater Requirement

Source – originally from potable supply, then pre-treated	Potable mains water supply		
Fouling index (max)	10		
Conductivity	<2000 µS/cm [3]		
Free Chlorine (max)	0.5 ppm		
Heavy Metals (max)	0.05 ppm		
Silica	30 ppm		
Temperature	1 - 35°C		
Flowrate (maximum requirement)	100 l/hr (27 USG)	100 l/hr (27 USG)	
Drain requirements (gravity fall with air gap). Maximum during service	80 l/hr (21 USG)	80 l/hr (21 USG)	
Feedwater pressure			
Maximum – with internal boost pump	2.0 bar (30 psi) [4]		
Minimum – with internal boost pump	0.5 bar (7.5 psi)		
Maximum – without internal boost pump	–	6.0 bar (90 psi) [4]	
Minimum – without internal boost pump	–	4.0 bar (60 psi)	

[3] Deionization cartridge life may vary with feedwaters >1400 µS/cm 4 Fit LA652 Regulator where feedwater pressure exceeds specified limits.

Electrical Requirements

Mains Input	100 - 240V AC, 50 - 60Hz all models
System voltage	24V DC
Power consumption during peak demand	60VA
Noise level	<45 dBA

Reservoir Dimensions

LA757 - 15ltr Storage Reservoir	Height 485mm, Width 375mm, Depth 345mm
LA758 - 30ltr Storage Reservoir	Height 676mm, Width 376mm, Depth 345mm
LA759 - 60ltr Storage Reservoir	Height 591mm, Width 532mm, Depth 524mm

ELGA LabWater
tel: +44 (0) 203 567 7300 • fax: +44 (0) 203 567 7205 • info@elgalabwater.com • www.elgalabwater.com

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