




# PURELAB<sup>®</sup> Chorus

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

## Step 1: Choose your system

Typical Applications	Select The Impurities You Want To Remove	Integrated Purification Technology			Your Daily Water Requirements	Your System and Part Number
		Pre-treatment (Carbon & Filtration)	Reverse Osmosis (RO Cartridge)	Ion-exchange (Purification Pack)		
<b>Stills Replacement</b> <b>Buffer Preparation</b> <b>pH Solution Preparation</b> <b>Washing/Rinsing</b> <b>All Stainless Steel Autoclaves</b> <b>General Chemistry</b> <b>Spectrophotometry</b> <b>Feed to Type I &amp; II Polisher</b>	Inorganics (e.g. Calcium, Magnesium, Sodium, Bicarbonate, Sulphate)	✓	✓	✓	Up to 240 l/day Equivalent to 10 l/hour	<b>PURELAB Chorus 2 (RO/DI)</b>  Part No. PC210DIBPM3 or PC210DIXXM3
	Organics (e.g. Pesticides, Herbicides, Decayed Plant & Animal Tissues)					Up to 480 l/day Equivalent to 20 l/hour
	Particulates (>99% Removal of Anything ffl 0.2µm)				Up to 240 l/day Equivalent to 10 l/hour	
	Bacteria (<5 CFU/ml)					Up to 480 l/day Equivalent to 20 l/hour
<b>Glassware Rinsing,</b> <b>Heating Baths</b> <b>Autoclave Filling</b> <b>Hydroponics / Plant Growth Cabinets</b> <b>Steam Generators, Stability Chambers</b> <b>Sterilizer Feed</b> <b>Feed to Type I &amp; II Polishers</b>	Inorganics (e.g. Calcium, Magnesium, Sodium, Bicarbonate, Sulphate)	✓	✓	●	Up to 240 l/day Equivalent to 10 l/hour	
	Organics (e.g. Pesticides, Herbicides, Decayed Plant & Animal Tissues)					Up to 480 l/day Equivalent to 20 l/hour
	Particulates (>99% Removal of Anything ffl 0.2µm)				Up to 720 or 780 l/day Equivalent to 30 or 32.5 l/hour	
	Bacteria (<5 CFU/ml)					

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)	
<p><b>Degassing Module</b></p> <p>Part No. LA775</p> <p>CO<sub>2</sub> removal from the pre-purified water (post RO) increases the life of downstream consumables fitted to PURELAB Chorus 1 or 2</p> <p>Recommended when the CO<sub>2</sub> present in the feed water is full the conductivity of the pre-purified water (post RO)</p>	✓	✓	✓	✓ Part No. LA770	✓	✓ Part No. TAPS 39993	✓	<p>15 liter</p>  <p>Part No. LA757</p>
<p><b>Technology Note</b></p> <p>TN034</p>	✓	✓	✓	✓ Part No. LA770	✓	✓ Part No. TAPS 39993	✓	<p>30 liter</p>  <p>Part No. LA758</p>
<p><b>High Recovery Kit</b></p> <p>Part No. LA765</p> <p>Recommended in areas where water hardness &lt;25ppm, feeding directly to your application.</p>	✓	•	✓	✓ Part No. LA771	✓	✓ Part No. TAPS 39993	✓	<p>60 liter</p>  <p>Part No. LA759</p>
<p><b>Technology Note</b></p> <p>TN035</p>								

To download Technology Notes, please visit [www.elgalabwater.com](http://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)



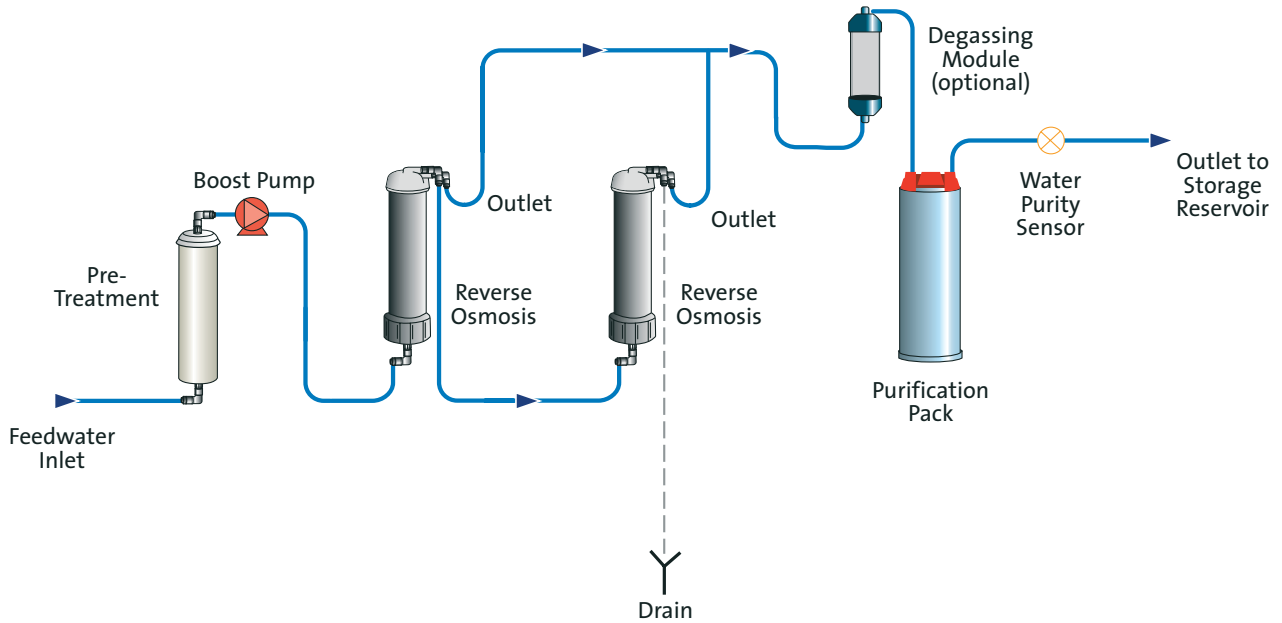
**PURELAB Chorus 2 or 3**  
With 60 liter reservoir  
configured underneath  
(floor, bench or wall mounted)



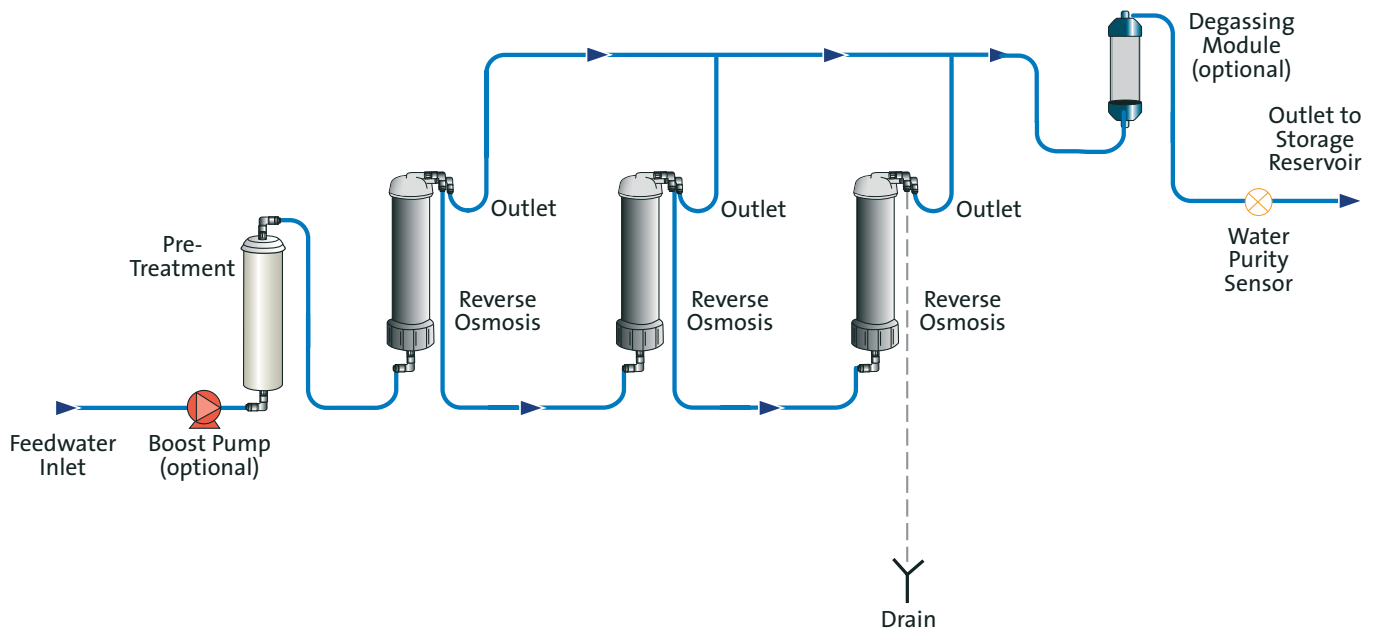
**2 x PURELAB Chorus 3**  
Configured together  
(floor, bench or wall mounted)

# What's inside?

## 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)	
	20 l/hr	10 l/hr	20 l/hr	30 l/hr
Nominal output (max)	480 l/24 hour day <sup>1</sup>	240 l/24 hour day <sup>1</sup>	480 l/24 hour day <sup>1</sup>	720 – 780 l/24 hour day <sup>1</sup>
Nominal daily output (max)				
Inorganics @ 25°C	1 to >10 MΩ-cm		>95% rejection	
Organics (MW>200 Dalton)	>99% rejection		>99% rejection	
Total organic carbon (TOC)	<30 ppb <sup>2</sup>		<100 ppb <sup>2</sup>	
Bacteria	<5 CFU/ml <sup>2</sup>		<5 CFU/ml <sup>2</sup>	
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 <sub>2</sub> ))		-	

<sup>1</sup> 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. <sup>2</sup> 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 <sup>3</sup>			
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) <sup>4</sup>			
Minimum – with internal boost pump	0.5 bar (7.5 psi)			
Maximum – without internal boost pump	-		6.0 bar (90 psi) <sup>4</sup>	
Minimum – without internal boost pump	-		4.0 bar (60 psi)	

<sup>3</sup> Deionization cartridge life may vary with feedwaters >1400 μS/cm <sup>4</sup> 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 470mm, Width 376mm, Depth 340mm
LA758 - 30ltr Storage Reservoir	Height 660mm, Width 376mm, Depth 340mm
LA759 - 60ltr Storage Reservoir	Height 570mm, Width 532mm, Depth 522mm

## ELGA LabWater

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