

## Type II

Liters per day: 10 - 480

10 MΩ.cm

## Key Features

- ✓ Easy configurability
- ✓ Modular

## Ideally suited for:

- Stills Replacement
- Buffer Preparation
- pH solution Preparation
- Washing / Rinsing
- Autoclaves
- General Chemistry
- Hydroponics
- Steam Generators
- Sterilizer Feed
- Feed to Type I polishers

## Modular. Flexible. Reliable.

### Reliable delivery of Type II water purity

When Type II water is all you need, then PURELAB Chorus 2 (RO/DI) is the reliable solution with the flexibility to suit your requirements.

Range of storage reservoirs designed to maintain optimum purity of stored purified water in a choice of 15, 30, 60 and 100 liter capacities.



### Deionization

The Reverse Osmosis feed contains optimized resin mixes to maximize consumables capacity.

### Simplicity

Simple to install, operate and maintain with a clear indication of water purity.

### Economical

Optional CO<sub>2</sub> removal from the purified water (post RO) increasing the life of downstream consumables.

Option to reduce water consumption for low hardness feed waters.

### Modular

Multiple PURELAB Chorus 2 units can feed into one reservoir and systems can be expanded post-installation. As such, the cost of future upgrades is minimized. Duplex systems also guarantee maximum uptime.

Model shown is PURELAB Chorus 2  
with 15l reservoir

**Type III water****Liters per day: 10-720****RO water****Key Features**

- ✓ Easy Configurability
- ✓ Auto rinse
- ✓ Modular

**Ideally suited for:**

- Buffer Preparation
- Washing / Rinsing
- Autoclaves
- General Chemistry
- Hydroponics
- Steam Generators
- Sterilizer Feed
- Feed to Type I polishers

**Modular. Flexible. Reliable.****Reliable delivery of Type III water purity**

When general laboratory grade water is all you need, then PURELAB Chorus 3 is the reliable solution with the flexibility to suit your requirements.

Range of storage reservoirs designed to maintain optimum purity of stored purified water in a choice of 15, 30, 60 and 100 liter capacities.

**Configuration**

Ability to configure multiple systems to increase flow rate.

**Simplicity**

Simple to install, operate and maintain with a clear indication of water purity.

**Auto Rinse**

Maintains purity of water during periods of low use.

**Economical**

Optional CO<sub>2</sub> removal from the purified water (post RO) increasing the life of downstream consumables.

Option to reduce water consumption for low hardness feed waters.

**Modular**

Multiple PURELAB Chorus 3 units can feed into one reservoir and systems can be expanded post-installation. As such, the cost of future upgrades is minimized. Duplex systems also guarantee maximum uptime.



Model shown is PURELAB Chorus 3  
with 15l reservoir



## Storage Reservoirs

Our unique range of storage solutions are designed to maintain optimum purity of stored water and provide effective protection against airborne contaminants.

They are designed to accommodate PURELAB Chorus water purification systems by maximizing the space in a single integral, compact unit or to sit independently to suit the layout of your laboratory.

### Multiple positioning

Multiple positioning / mounting options to suit your laboratory layout.

### Polyethylene construction

Inert opaque polyethylene construction with smooth inner surface.

### Dispense tap

Positioned to minimize accidental operation or damage (choice of positions).

### Advanced vent filtration

Prevents the ingress of airborne bacteria, particulates, organic vapours and CO<sub>2</sub>.

### Auto fill

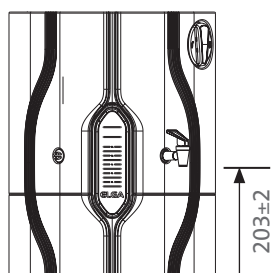
Monitoring of reservoir water levels with automated refill ensures purified water is always available.

### Hygienic Overflow

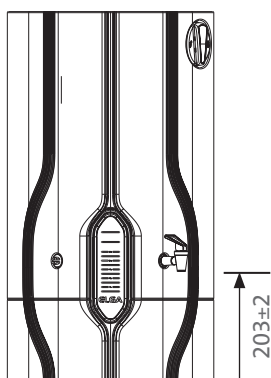
Hygienic overflow in the unlikely event of water system malfunction.

### Easy display

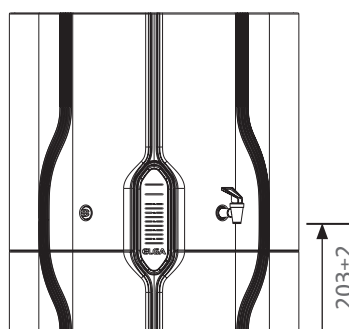
Direct display of stored purified water on the front of the reservoir for easy identification.



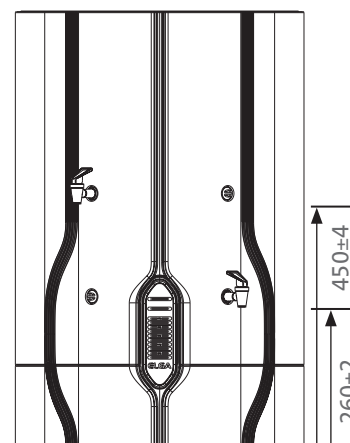
**Capacity:** 15 liters  
**Dimensions (mm):**  
470 (h) x 376 (w) x 340 (d)  
**Flow Rate:** 6 l/min



**Capacity:** 30 liters  
**Dimensions (mm):**  
660 (h) x 376 (w) x 340 (d)  
**Flow Rate:** 8 l/min

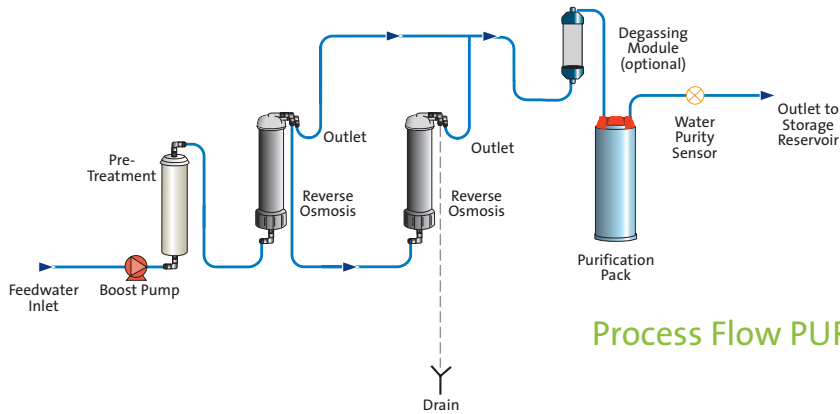


**Capacity:** 60 liters  
**Dimensions (mm):**  
570 (h) x 532 (w) x 522 (d)  
**Flow Rate:** 10 l/min

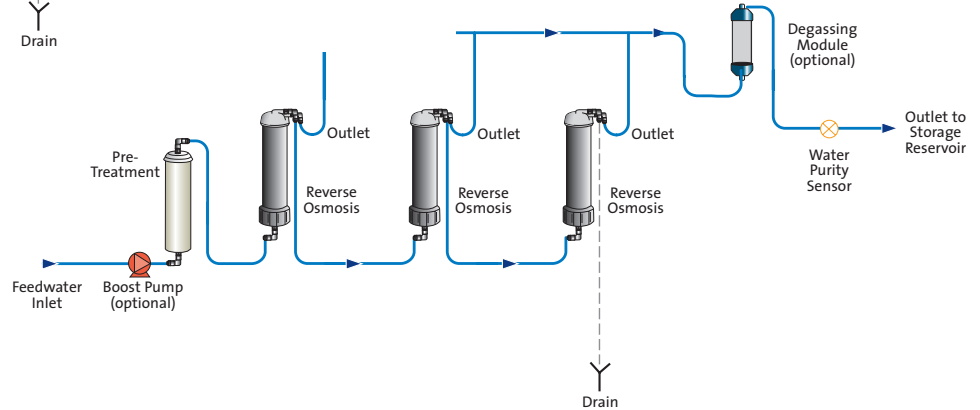


**Capacity:** 100 liters  
**Dimensions (mm):**  
806 (h) x 532 (w) x 522 (d)  
**Flow Rate:** 10 l/min

## Process Flow PURELAB Chorus 2 (RO/DI)



## Process Flow PURELAB Chorus 3 (RO)



Quantity of Reverse Osmosis Modules dependent on Chorus Model.

## Specifications

APPLICATION	PURELAB Chorus 2 (RO/DI)		PURELAB Chorus 3 (RO)		
	10 l/hr	20 l/hr	10 l/hr	20 l/hr	30 l/hr
Nominal output at 15°C	10 l/hr	20 l/hr	10 l/hr	20 l/hr	30 l/hr
Nominal daily output	240 l/day	480 l/day	240 l/day	480 l/day	720 l/day
Inorganics @25°C	1 to >10 MΩ.cm		>95% rejection		
Organics (MW>200 Dalton)	>99% rejection		>95% rejection		
Total organic carbon (TOC)	<30 ppb		<50 ppb		
Bacteria	<5 CFU/ml		<50 CFU/ml		
pH	Effectively neutral		Effectively neutral		
Particles	>99% rejection		>99% rejection		
Purification pack capacity	Liters to 1MΩ.cm = 103,200/(μS/cm + (2.3 x ppm CO <sub>2</sub> ))		N/A		

Standard conditions are 4 bar inlet pressure at 15°C, fed with potable water and a clean pre-treatment cartridge. Refer to flow tables outside these conditions.

FEEDWATER REQUIREMENT	Potable mains water supply		Potable mains water supply		
	10	20	10	20	30
Source – originally from potable supply, then pretreated	Potable mains water supply		Potable mains water supply		
Fouling index (max)	10		10		
Conductivity	<2000 μS/cm		<2000 μS/cm		
Free Chlorine	0.5 ppm max		0.5 ppm max		
Heavy Metals (max)	0.05 ppm		0.05 ppm		
Silica	30 ppm		30 ppm		
Temperature	1-35°C		1-35°C		
Flowrate (maximum requirement)	100 l/hr (27 USG)		100 l/hr (27 USG)		
Drain requirements	80 l/hr (21 USG)		80 l/hr (21 USG)		
Feedwater pressure	2.0 bar (30 psi) maximum; 0.5 bar (7.5 psi) minimum*		2.0 bar (30 psi) maximum; 0.5 bar (7.5 psi) minimum*		

\*Fit LA652 Regulator where feedwater pressure exceeds specified limits

Dimensions	Height 435mm, Width 376mm, Depth 340mm				
Weight (with boost pump)	19 kg (42lb)	20 kg (44 lbs)	17 kg (37 lbs)	18 kg (40 lbs)	19 kg (42lb)
Weight	17 kg (37 lbs)	18 kg (40 lbs)	15 kg (33 lbs)	16 kg (35 lbs)	17 kg (37 lbs)