

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 CO₂ 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 CO₂.

Auto fill

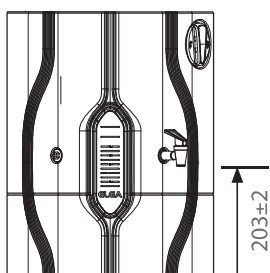
Monitoring of reservoir water levels with automated refill ensures purified water is always available.

Hygienic Overflow

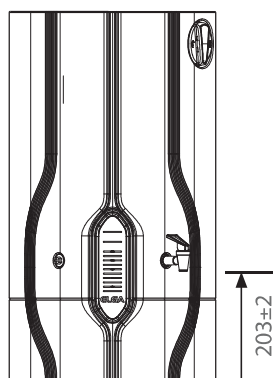
Hygienic overflow in the unlikely event of water system malfunction.

Easy display

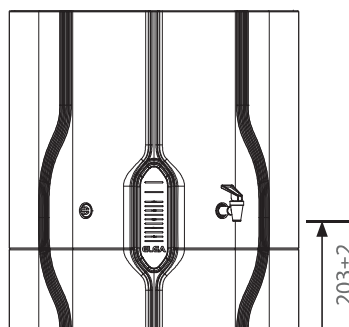
Direct display of stored purified water on the front of the reservoir for easy identification.



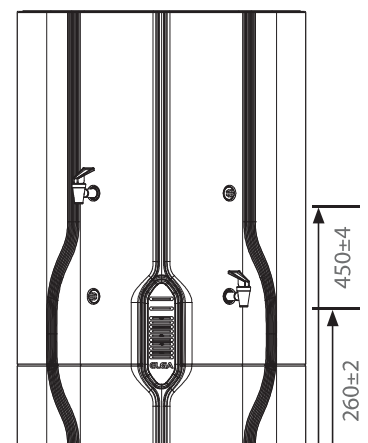
Capacity: 15 liters
Dimensions (mm):
470 (h) x 376 (w) x 340 (d)
Flow Rate: 6 l/min



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

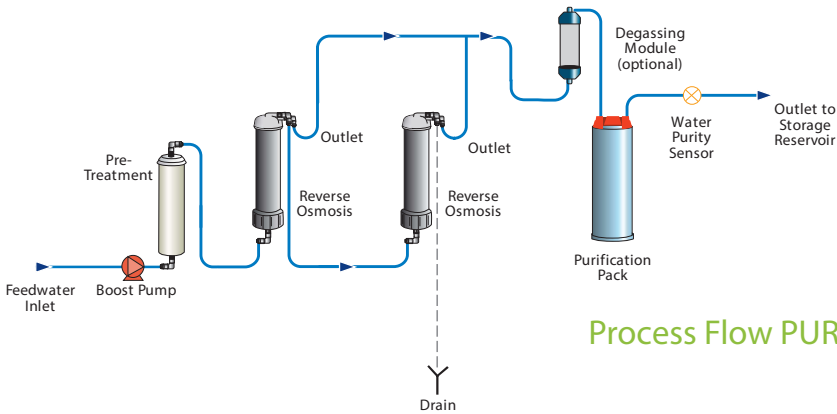


Capacity: 60 liters
Dimensions (mm):
570 (h) x 532 (w) x 522 (d)
Flow Rate: 10 l/min

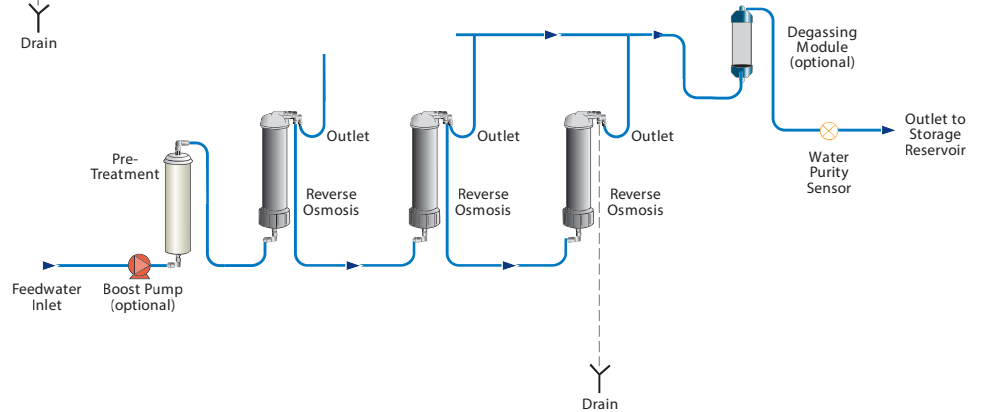


Capacity: 100 liters
Dimensions (mm):
806 (h) x 532 (w) x 522 (d)
Flow Rate: 10 l/min

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)		
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 ₂))		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.

	Potable mains water supply	Potable mains water supply
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)

TREATED WATER SPECIFICATIONS

FEEDWATER REQUIREMENT