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YOUR WATER





ELGA. We are the LabWater Specialists

We are the specialists in the engineering, service & support of water purification systems. Our unrivalled product design has achieved international recognition and awards. We have been working with scientists since 1937 to guarantee ultrapure and pure water for their experiments and laboratory work.

Why choose ELGA as your laboratory water partners?



Customer-focused – what we create is for our customer

Our commitment to developing and providing you with ultrapure water means that you can focus and concentrate on obtaining accurate and reliable results.



Sustainable – at the forefront of all of our activities

Our products are designed to have the lowest possible impact on the environment at all stages: manufacture, in service and at end of life. We can calculate the carbon value of all our products through their lifetime.



Innovative – the keystone of our thinking

Our UK R&D facilities are always looking to provide products dedicated to supplying you with the right water quality for your application.



British Engineering and Manufacturing – the standard for all our products

All our systems are manufactured in the UK and we are accredited to ISO:9001 and ISO:14001 standards.

Our technical service teams support our global science & healthcare customers with specialist expertise. Global digital performance monitoring ensures laboratory work is uninterrupted, and a global supply chain supports clients from regional centres on every continent.

Our Awards













The choice *you* need, for *your* lab

We understand how important it is for you to obtain a choice of water qualities that range from Reverse Osmosis grade for simple routine washing and rinsing, through to ultrapure water for the most critical applications. The PURELAB product range has a wide variety of water purification systems that will meet any one of your requirements for water quality.

What are the different types of water quality and what are they used for?

Type I Water

Often referred to as ultrapure water, this grade is required for some of the most water-critical applications such as HPLC (High-Performance Liquid Chromatography) mobile phase preparation, blanks and sample dilution for other key analytical techniques such as GC (Gas Chromatography), AAS (Atomic Absorption Spectrophotometry), and ICP-MS (Inductively Coupled Plasma Mass Spectrometry) as well as molecular biology applications.

Type II Water

Is the grade for general laboratory applications such as media preparation, pH solutions, buffers and used as a feed source to Type I systems.

Type III Water

Is the grade of water recommended for non-critical work which may include glassware rinsing, water baths, autoclave, environmental chambers as used to feed Type I systems.

There is a PURELAB® product to suit your specific needs

TYPE I*	TYPE II	TYPE III	
PURELAB Quest	PURELAB Quest	PURELAB Quest	
PURELAB Flex 1**, 2, 3 & 3+	PURELAB Chorus 2 RO/EDI/UV	PURELAB Chorus 3	
PURELAB Chorus 1 Analytical Research*	PURELAB Chorus 2 RO/DI/UV	PURELAB Flex 1**	
PURELAB Chorus 1 Life Science*	PURELAB Chorus 2 RO/DI		
PURELAB Chorus 1 General Science*	PURELAB Flex 1**, 3 & 3+		
PURELAB Chorus 1 Complete			

PURELAB Pharma Compliance*

*PureSure Technology/in-line filtration/variety of purification packs . **Dependent on feed water.

Our comprehensive range of products

















Technologies

The various technologies used in ELGA equipment are able to remove impurities from water down to extremely low levels; some technologies focus on specific contaminants while others have a broader spectrum of targets. To achieve the correct water purity for a particular application, in a cost effective manner, technologies must be arranged in combination and their operation optimized.

Activated Carbon

Contains a maze of tiny pores with sizes ranging from <0.1 – 2.9 nm and a surface area of about 1000 square meters per gram. The nature of this surface allows adsorption of organic impurities from the water and catalytic decomposition of free chlorine and, more slowly, chloramines.

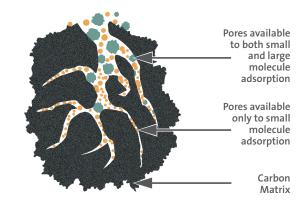
It is applied in:

- Pre-treatment cartridges
- Composite vent filters
- Final purification cartridges

Microporous Depth Filters

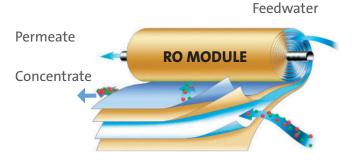
Pre-filtration using microporous depth filters, provides an entrapment/adsorption barrier for the removal of large suspended particles and some colloids from the water entering the ELGA purification process. Typically rated at $5-10\mu m$ and combined with an activated carbon treatment, these filters act to protect subsequent RO systems from fouling and blockage.

Small and Large Organic Molecules



Reverse Osmosis

Reverse osmosis (RO) is a process where pressure is used to push water through a membrane filter in a cross-flow fashion. RO membranes are extremely fine filters that reject water contaminants less than 1nm in diamenter. Typically >95% of ionic impurity, most organic impurity, and nearly all particulates, bacteria and bio-molecules are removed from the permeate water; these are carried out of the RO module in a waste or concentrate water stream.



Technologies

Ion Exchange

Ion exchange resins are often used as part of a final treatment step. Single-use purification packs typically use a mixture of ion-exchange resins and other media. When used to deionize water, charged impurities are retained on these resins, while H+ and OH- ions (which combine to form water) are released to replace them. This is a highly efficient process and can remove ions to give product-water resistivity of up to 18.2 $M\Omega$.cm.

Electrodeionization

Electrodeionization (EDI) combines ion-exchange resins and ion-selective membranes, which are used to move ionic impurities into a waste or concentrate water stream leaving purified productwater. As impurities leave via the concentrate water stream, their build-up does not exhaust the resin, and therefore prolongs resin lifespan. A single EDI unit may operate for many years before a replacement is required. Typically product water resistivity of >10 M Ω .cm is consistently achieved using this process. This technology can be used as an alternative to single-use purification cartridges.

Ultraviolet (UV) Light

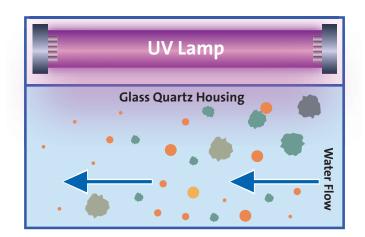
Treatment of water with UV-C light is used to photo-oxidise organic impurities and/or inactivate micro-organisms. Photo-oxidation of organic impurities results in polar or charged species that can subsequently be removed by ion-exchange processes. Typically the UV lamp forms part of a 'polishing' treatment loop including ion-exchange, through which water is repeatedly circulated to maintain quality. Water with Total Organic Carbon (TOC) of <5 ppbC and bacteria at <1 CFU/ml can be achieved in ELGA products that use this approach.

Sub-micron Filtration

Sub-micron filtration, including micro, ultra-micro and ultra filters (30–3000 nm) are used as part of a 'polishing' loop or at the point-of-use. Fine filtration is applied to remove bacteria (live or dead) and biologically active molecules. These absolute filters have pores smaller than their intended target and can retain the impurity while allowing water to pass through. Impurities that are removed by sub-micron filtration, include bacteria, colloids, enzymes, endotoxins and particulates.

Environmental improvements

New Aquaporin membrane technology provides greater recovery with reduced membrane surface area, reducing both water and component waste.



TECHNOLOGIES 11





PURELAB® Quest

The only purifier on the market that dispenses all 3 types of science ready water from a compact, economical and easy to use system. The Quest water solution system provides laboratory water directly from a tap water input.

AT A GLANCE

Overview:

- Type I 18.2 MΩ.cm (Up to 10 Litres per day)
- Type II > 1 MΩ.cm (Up to 10 Litres per day)
- Type III 20 μS.cm (Up to 30 Litres per day)

Key Features:

- Compact
- Connected
- Sustainable
- Cost effective
- Proven reliability which is tested, proven and unrivalled
- Effortless, ingenious, intuitive

Ideal Applications:

• Type I Water
HPLC
GC-MS
AA/ICP-OES
IC

Molecular biology e.g. DNA Sequencing and PCR

Type II Water
 Preparing and diluting buffers and reagents

Tissue culture media pH solutions

Type III Water
 Glassware rinsing
 Water baths

Autoclave feeds

Compact

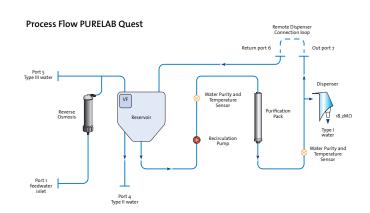
232 mm wide. 510 mm high. Wall mountable; saving valuable lab space.

Sustainable

Made from more than 85% reclaimed materials.* Designed with long lasting consumables.

Cost-Effective

3 types of water from one system. Space saving design means a more efficient lab and team.



^{*}Excludes materials in contact with the purification process.



See specification on page 46

The PURELAB® flex Range





FLEX FAMILY

PURELAB® flex 1

Simplicity and Elegance

A versatile dispensing and monitoring system when connected to a reservoir or distribution loop, while also functioning seamlessly as a straightforward deionization system.

AT A GLANCE

Overview:

- Type I
- Type II
- Type III

Dependant on use of DI pack Litres per day: Dependent on feed water

Key Features:

- · Flexible dispensing
- Customise settings
- Full re-circulating
- Fully Integrated filtration

Ideal Applications:

- General Lab
- Type II Applications
- Dispensing with DI Pack

Customized Settings

Be in control of your PURELAB flex by customizing the settings to suit your application.

Simplicity

Simple to install, operate and maintain with prioritized information displayed at all times (system status, alarm) for absolute confidence as you dispense.

Easy to Use

Ergonomic design with features including auto volumetric dispense and height adjustability.

Data Capture

Data capture via USB for system performance validation and software updates.

Space Saving

Space saving and compact dispenser which can be placed on the bench or wall mounted.

Sustainability

Manufactured using up to 70% reclaimed materials.

See specification on page 48

PURELAB® flex 2

Designed for the laboratory of today

Ensures precise, adaptable, and user-friendly performance.

This acclaimed system generates ultrapure type I (18.2.0 cm) y

This acclaimed system generates ultrapure type I (18.2 Ω .cm) water from a pre-purified source, making it perfect for analytical and life science purposes.

AT A GLANCE

Overview:

- **Type I** 18.2 MΩ.cm
- Litres per day:
 Dependent on feed water

Key Features:

- Real-time TOC
- Fully re-circulating
- Customize settings
- · Adjustable dispensing

Ideal Applications:

- Mass Spectrometry
- Molecular Biology
- Electrochemistry
- Atomic Spectroscopy
- Liquid Chromatography
- Gas Chromatography
- Immunochemistry
- Spectrophotometry
- Media / Buffer Prep
- General Chemistry

Full Spectrum UV Treatment

Full recirculation through the UV lamp and purification pack right to the point of use for peace of mind.

Intuitive Flexible Dispense

Clear water purity display for absolute confidence as you dispense.

Real-time TOC Monitoring

Provides complete confidence in organic purity by reducing the level of organics for critical applications.

Sustainability

Utilising PURELAB flex new ECO MODE reduced power consumption by 17% and manufactured from up to 70% reclaimed material.

Data Capture

Data capture via USB for system performance validation and software updates.

Space Saving

Space saving and compact dispenser which can be placed on the bench or wall mounted.

See specification on page 48

FLEX FAMILY

PURELAB® flex 3

Power and flexibility

A small unit with big powerful capabilities. The PURELAB flex 3 is the ultimate system providing Type 1 ultrapure water from potable tap water in one single unit.

AT A GLANCE

Overview:

- **Type I** 18.2 MΩ.cm
- Litres per day: < 10

Key Features:

- Real-time TOC
- Fully re-circulating
- Adjustable dispensing

Ideal Applications:

- Mass Spectrometry
- Molecular Biology
- Electrochemistry
- Atomic Spectroscopy
- Liquid Chromatography
- 6 11 6 11

- Gas Chromatography
- Immunochemistry
- Spectrophotometry
- Media / Buffer Prep
- General Chemistry
- · Cell Culture

Space Saving Design

The compact unit can be placed on the bench or wall mounted and has an integrated 7 Litre reservoir filled by a 20 l/hr RO membrane, ensuring that water is always available.

Full Recirculating

Ensuring the highest microbial purity and guaranteeing pure water, as recirculation of the water occurs from the reservoir right to the point-of-use.

Flexible Dispenser

The intuitive dispenser offers a clear display of the water purity for absolute confidence as you dispense.

Real-time TOC Monitoring

Provides complete confidence in organic purity and clear display at all times. The final quality sensor is placed at the entry of the flexible dispenser giving you peace of mind.

Sustainability

Manufactured using up to 55% reclaimed materials; improvements in energy efficiency of up to 55%, and reduced water waste up to 20%*.

*Compared to previous generation PURELAB Flex 3.

Data Capture

Data capture via USB for system performance validation and software updates.

See specification on page 49

PURELAB® flex 3+

Flexible elegance

A unique automated solution providing Type I (ultrapure water) from potable water. Couples directly with analytical chemistry systems delivering complete automation - all in one single unit.

AT A GLANCE

Overview:

• Litres per day: <10

Key Features:

- Type I 18.2 MΩ.cm Connects directly to multiple analytical chemistry systems from multiple brands
 - On-demand continuous ultrapure water to analysers
 - · Full automation of water production & delivery
 - Real-time TOC monitoring
 - · Fully re-circulating
 - Adjustable dispensing

Ideal Applications:

- Analytical Chemistry systems
- Mass Spectrometry
- · Molecular Biology
- Electrochemistry
- Atomic Spectroscopy
- · Liquid Chromatography
- · Cell Culture
- Gas Chromatography
- Immunochemistry
- Spectrophotometry

On-demand Water Supply

Provides consistent & continuous supply of ultrapure water to analysers to reduce failed runs and loss of samples, reagents and analyser components/accessories.

Space Saving Design

The compact unit can be placed on the bench or can be wall mounted and has an integrated 7 Litre reservoir filled by a 20 l/hr RO membrane, ensuring that water is always available.

Full Recirculating

Ensuring the highest microbial purity and guaranteeing pure water, as recirculation of the water occurs from the reservoir right to the point-of-use.

Real-time TOC Monitoring

Provides complete confidence in organic purity and clear display at all times. The final quality sensor is placed at the entry of the flexible dispenser giving you peace of mind.

Data Capture

Monitor water purity via USB datalog ensuring analytical performance during test batch.

Sustainability

Manufactured using up to 52% reclaimed materials; improvements in energy efficiency of up to 55%, and reduction of water to drain by up to 20%*.

*Compared to previous generation PURELAB Flex 5.

See specification on page 49

FLEX FAMILY

The Chorus Range



Chorus 1 Complete



Pharma Compliance



Chorus 2+



Chorus 2



Chorus 3





CHORUS FAMILY 23

PURELAB® Chorus 1

Flexible. Configurable. Simple.

Delivering the ultimate in water purity for absolute confidence in your results. When you require the ultimate in water purity, PURELAB Chorus 1 provides the perfect solution. Consistently delivering water purity of 18.2 $M\Omega$.cm (Type I+/I) and underpinned by the advanced PureSure® deionization system.

AT A GLANCE

Overview:

- Type I+ Water
 18.2 MΩ.cm
- Litres per day:
 Depends on feedwater

Key Features:

- Real time TOC
- Fully re-circulating
- Integrated filtration
- · Multiple dispensing
- PureSure technology

Ideal Applications:

- Mass Spectrometry
- Ion Chromatography
- Ultra trace Analyses
- Qualitative Analyses
- Gas Chromatography
- Molecular Biology
- Cell Cultures
- Electrochemistry
- Immunochemistry
- Atomic Spectroscopy

Advanced PureSure Deionization

A twin-bed ion-exchange process with inter-stage resistivity monitoring allows retention of any impurity released during exhaustion of a primary cartridge, by the secondary polishing cartridge. This method gives guaranteed, optimum, product-water quality, advanced warning of consumable change, and extended consumable service life.

Fully Recirculating

Ensuring microbial purity and guaranteeing pure water at the point-of-use.

Real-time TOC Monitoring

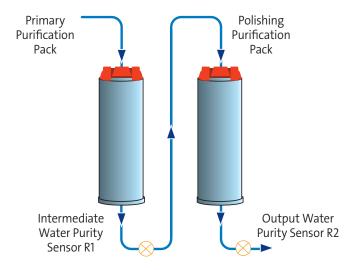
Provides complete confidence in organic purity.

Integrated Filtration

Ultrafiltration or microfiltration filters out endotoxins, proteins, nucleases and particulates. 185nm wavelength breaks organic compounds and 254nm wavelength sterilises bacteria and viruses.

Data Capture

Data capture via USB for system performance validation and software updates.





See specification on page 52

CHORUS FAMILY 25

PURELAB[®] Chorus 1 Complete

One complete solution for the laboratory.

PURELAB Chorus 1 Complete provides a complete solution from potable tap water supply to ultrapure water. With its easy to use ergonomic design, new and improved parameter readings and dispensed with confidence directly from the system or from a choice of additional Halo Dispensers.

AT A GLANCE

Overview:

- Type I Water
 18.2 MΩ.cm
- Litres per day: Up to 480

Key Features:

- Tap-to-ultrapure
- Real time TOC*
- Fully recirculating
- · Multiple dispensing

Ideal Applications:

- Mass Spectrometry
- Molecular Biology
- Electrochemistry
- Atomic Spectroscopy

Liquid Chromatography

- Gas Chromatography
- Immunochemistry
- General Laboratory
- Spectrophotometry

Tap to Type 1 water

Generate laboratory-grade Type 1 ultrapure water directly from your tap with our all-in-one purification system.

Realtime TOC monitoring*

Provides complete confidence in organic purity, with optional Inhibit mode for ensured water quality confidence.

Fully Recirculating

Recirculation of purified water through our modular reservoir to maintain consistent peak water purity at 18.2 M Ω .cm.

Aquaporin™ membrane

ELGA's incorporation of new Aquaporin membrane technology provides 20 L/hr with reduced membrane surface area, reducing component waste.

Type I and type II water

Through effective recirculation technology, the Chorus 1 Complete simultaneously produces Type 1 ultrapure water and stores Type 2 purified water within the reservoir, offering dual-grade water production in a single, efficient system.

Data Capture

Data capture via USB for system performance validation and software updates.

^{*}Dependent on model.



See specification on page 53

PURELAB® Pharma Compliance

PURELAB Pharma Compliance is packed with innovative features optimised for QC laboratories. It offers all the necessary purification, software capabilities, qualification documentation and online support services necessary for the validation required to meet Good Manufacturing Practice (GMP). The ultrapure water system meets your laboratories needs, with minimal intervention, improved efficiencies and a contemporary style to compliment any modern laboratory.

The Pharma Compliance includes secure software providing the evidence to meet FDA and EU standards for digital record keeping. Purification processes fulfil United States Pharmacopeia standards 643 and 645. Qualification documents provided enable the unit to support labs subject to validation under GxP.

AT A GLANCE

Overview:

• Type I Water - 18.2 MΩ.cm

Key Features:

- · Smart, intuitive software
- · Digital record keeping
- · Quality management system
- · Meets GMP requirements
- Complies with the TOC verification and water conductivity measurements required under US pharmacopeia 643 and 645.

Ideal Applications:

- QC labs wanting to meet high level GMP regulations
- QC labs with FDA CFR 21 Cell cultures Part 11 requirements
- Mass spectrometry
- · Ion and Gas chromatography
- · Ultra trace and qualitative analyses
- Molecular Biology
- Electrochemistry
- Immunochemistry

Digital Record Keeping

The PURELAB Pharma Compliance's admin functions, security and data integrity capabilities, password accessibility, audit trail procedures & permissions all meet national regulators best practice for data management in QC labs following GMP standards.

Designed to Comply

Designed to meet FDA, United States Pharmacopeia, EUDRALEX, European Pharmacopoeia and all GMP requirements for Quality Control laboratories.

Cost Effective

The PURELAB Pharma Compliance delivers the water to support the QC tests necessary to validate drug purity in pharma manufacturing. Consumables are designed to minimise cost and waste.



See specification on page 54

CHORUS FAMILY 29

PURELAB® Chorus 2+

Flexible. Configurable. Simple.

PURELAB Chorus 2+ (RO/EDI/UV) features our patented recirculating EDI technology: the only EDI system on the market that is able to fully recirculate to achieve 10- >15 M Ω .cm. The PURELAB Chorus 2+ provides additional bacteria and inorganic quality for sensitive analytical and life science applications above that of basic laboratory work. With its simple design and ease of use, water can be measured and dispensed with confidence from the system or from a choice of additional Halo or Remote Dispenser.

AT A GLANCE

Overview:

- Type II+ Water
 - 10 MΩ.cm
- Litres per day: upto 480L/day (RO/DI/UV) upto 220L/day (RO/EDI/UV)

Key Features:

- Tap to Type II
- · Fully Re-circulating
- · Multiple Dispensing

Ideal Applications:

- Electrochemistry
- · Cell Culture
- Spectrophotometry
- Feed to Ultrapure Water
- Media / Buffer
 - Preparation
 - General Chemistry

Fully Recirculating

ELGA's patented fully recirculated EDI provides a constant supply of high purity that guarantees a minimum of 10 M Ω .cm water at all times.

Ideal for High Volume Labs

A cost-effective solution for laboratories requiring higher output volumes thanks to the incorporated EDI technology.

Single System Solution

Perfect single system solution for analytical and life science applications.

Space Saving Design

Designed to be modular and stackable to save space, whether wall-mounted* or under the bench.

*If fitted with Halo dispenser

Reduced Maintenance Times

Quick and easy replacement of consumables as well as semi-automated sanitization to reduce maintenance times.

Economical

Optional CO₂ removal from the purified water (post RO) increasing the life of downstream consumables.

Data Capture

Data capture via USB for system performance validation and software updates.



See specification on page 55

PURELAB® Chorus 2

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. It dispenses up to 480 Litres of pure water per day from a potable water supply for general laboratory applications.

AT A GLANCE

Overview:

- Type II 10 MΩ.cm
- Litres per day: Up to 480

Key Features:

- Easy Configurability
- Modular

Ideal Applications:

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

Deionization

The Purification Pack contains optimized resin mixes to maximize consumables capacity.

Simplicity

Simple to install, operate and maintain with prioritized information displayed at all times (system status, alarm) for absolute confidence as you dispense.

Economical

Optional CO, 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.

Data Capture

Data capture via USB for system performance validation and software updates.

Reduced Maintenance Times

Quick and easy replacement of consumables as well as simple sanitization to reduce maintenance time.



See specification on page 56

CHORUS FAMILY

PURELAB® Chorus 3

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. It can also be used as a feed to other ELGA water systems.

AT A GLANCE

Overview:

- Type III Water
 10 MΩ.cm
- Litres per day: Up to 720
- RO Water

Key Features:

- Easy Configurability
- Auto Rinse
- Modular

Ideal Applications:

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

Configuration

Ability to configure multiple systems to increase flow rate.

Simplicity

Simple to install, operate and maintain with prioritized information displayed at all times (system status, alarm) for absolute confidence as you dispense.

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.

Auto Rinse

Maintains purity of water during periods of low use.

Data Capture

Data capture via USB for system performance validation and software updates.

Reduced Maintenance Times

Quick and easy replacement of consumables as well as semi-automated sanitization to reduce maintenance time.

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.



See specification on page 56

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

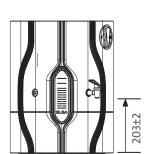
Monitoring of reservoir water levels with automated refill ensures purified water is always available.

Hygienic Overflow

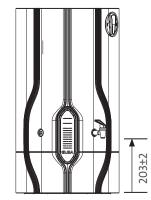
Hygienic overflow in the unlikely event of water system malfunction.

Easy Display

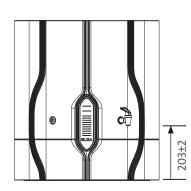
Direct display of stored purified water on the front of the reservoir for easy identification.



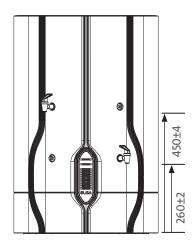
Capacity: 15 Litres
Dimensions (mm):
485 (h) x 376 (w) x 347 (d)*
Flow Rate: 6 I/min



Capacity: 30 Litres Dimensions (mm): 676 (h) x 376 (w) x 347 (d)* Flow Rate: 8 l/min



Capacity: 60 Litres Dimensions (mm): 590 (h) x 532 (w) x 534 (d)* Flow Rate: 10 l/min



Capacity: 100 Litres Dimensions (mm): 805 (h) x 532 (w) x 524 (d)* Flow Rate: 10 I/min

^{*} Please allow for ±8mm tolerance







CHORUS FAMILY

PURELAB® Dispenser

A remote dispenser with an in-built water quality monitor – providing maximum reassurance that you are not losing purity as you move to a free-standing solution. Together with PURELAB Chorus & Quest you can quickly and easily create a bespoke water purification solution for your lab. The PURELAB Dispenser enables uninterrupted discovery.

AT A GLANCE

Overview:

- Type I Water
 18.2 MΩ.cm
- Litres per day: Up to 480

Key Features:

- · Unrivaled purity in design
- Unmatched flexibility
- · Effortless use
- Simple & easy installation

Ideal Applications:

- Life Science applications (cell culture, PCR, genomics, dissolution testing, western blotting)
- Chromatographic techniques
- (HPLC, UHPLC, LC-MS,IC, ICP-MS, AAS)

Accuracy

- Flexible dispensing with unrivalled built in purity monitoring sensor
- · Delivering proof of water purity
- Repeated volume dispensing
- Improving lab efficiency
- Reproducible results

Streamlined footprint

- Maximized lab space
- Optimization of storage space
- Up to 4 dispensers per water purifier*
- *Dependent on water purifier purchased.

Simple use and maintenance

- Plug and Play installation with PURELAB range
- Height adjustable, 180° rotating arm and flexible dispenser arm
- IPX7 rating dispenser handset with menu navigation
- Optional connection to point of use filtration

Efficient

- From precise drop by drop up to 2 litres per minute allowing for the right speed including calibration work
- Variable flow rate for easier filling of different sizes of labware
- Volumetric dispensing freeing you to continue working while water is being dispensed
- Profile & locked dispensing allowing you to choose your desired amount of water and prevent accidental flooding



Halo Dispense Solutions

The PURELAB range offers a variety of dispensing and monitoring solutions to customers enabling the ultimate flexibility when using PURELAB Chorus 1, Chorus 1 Complete, & Quest.

Clear Display

Prioritized information displayed at all times (system status, alarm) for absolute confidence as you dispense.

Multiple Positioning

Position the dispenser on the benchtop or independent from the water purification system to optimise your valuable lab space.

Flexible Dispensing

- Variable flow
- Auto-volume dispense
- · Hands free
- · Locked dispense
- · Hand-held dispensing
- Profile dispense

Halo Glow*

The unique glow changes colour and flashes alerting you to changes in the system performance.

Water monitoring

Water is monitored right to the point of dispense for complete peace of mind.



- Variable flow rate dispense
- Drop-by-drop control
- Locked dispense
 - Purity monitoring to point-of-use
 - Auto volume dispense
 - · Profile dispense
- Flexible handset





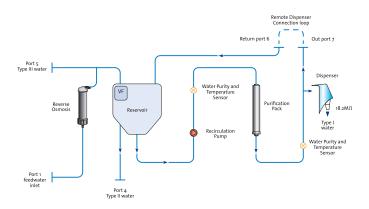
CHORUS FAMILY 43







Process Flow PURELAB Quest

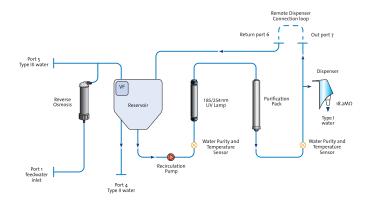


Specifications	PURELAB Quest UV	PURELAB Quest		
Ultrapure (Type I) water specifications (from fixed dispense tip)				
Resistivity	18.2 MΩ.cm @ 25°C	18.2 MΩ.cm @ 25°C		
Dispense flow rate	Up to 1.2 l/min (0.27 gal)	Up to 1.2 l/min (0.27 gal)		
тос	<5 ppb	<30 ppb		
Bacterial TVC	<0.1 CFU/ml *1	<0.1 CFU/ml *1		
Endotoxin	<0.001 EU/ml *2	<0.001 EU/ml *2		
RNases	<1 pg/ml	n/a		
DNases	<5 pg/ml	n/a		
рН	Effectively Neutral	Effectively Neutral		
Particulates	0.2 μm filtration *1	0.2 μm filtration *1		
Recommended daily volume	Up to 10 l/day *3	Up to 10 l/day *3		
Pure (Type II) water specifications (Water Ou	tlet port 4)		
Resistivity	>1 MΩ.cm @ 25 °C	>1 MΩ.cm @ 25 °C		
тос	< 50 ppb	< 50 ppb		
Bacterial TVC	<100 CFU/ml	<100 CFU/ml		
Recommended daily volume	Up to 10 l/day *3 (2.2 gal)	Up to 10 l/day *³ (2.2 gal)		

PURELAB Quest	PURELAB Quest UV	
Operational weight	Operational weight	
21.4 kg (47.2 lbs)	23 kg (50.7 lbs)	
Dime	ensions	
Height	511mm	
Width	232mm	
Depth	421mm	
Insta	llation	
Benchtop or	wall-mounted	
Electrical R	equirements	
Main Input	100 - 240 VAC, 50 - 60 Hz	
Power Required (Excluding Pump and UV)	24 V DC	
Power Consumption	120 VA	
Noise Output dBA - <40		
Pipe Co	nnections	
Inlet 8mm (5/16) OD Tube		
Outlet	8mm (5/16) OD Tube	
Drain	8mm (5/16) OD Tube	
Reservoir Outlets	8mm (5/16) OD Tube	
Reservoir Overflow	8mm (5/16) OD Tube	
Enviro	onment	
Temperature	4 - 40 °C (recommended 10 - 25 °C)	
Tomperature	o e precommended 20 e)	



Process Flow PURELAB Quest UV



RO-permeate (Type III) Water Specifications (Water Outlet port 5)						
Conductivity	Conductivity <20 μS/cm *4 <20 μS/cm *4					
TOC	<200 ppb *4	<200 ppb *4				
Bacterial TVC	<1000 CFU/ml *4	< 1000 CFU/ml *4				
Ionic rejection	>96% *5	>96% *5				
Particulates and Bacteria rejection	>99%	>99%				
Organic rejection (MW > 200 Da)	>99%	>99%				
Production flow	10 l/hr *5	10 l/hr *5				
Recommended daily volume	Up to 30 l/day	Up to 30 l/day				

^{*1} When using point of use filters (LC134/LC197)

Feedwater Specifications	
Water Source	(Portable Water Source)
Conductivity	< 2000 µS/cm (High conductivity feedwaters may lower purification pack life and raise Type III water conductivity)
Hardness	<350 ppm as CaCO 3
Free Chlorine	<0.05 ppm Cl ₂
Chloramine	<0.02 ppm Cl ₂
Total Chlorine	<0.05 ppm Cl ₂
Silica	<30 ppm SiO ₂
Carbon Dioxide (CO2)	<30 ppm (recommended < 20 ppm)
Fouling Index	<10
Iron/Manganese	<0.5 ppm Fe/Mn
TOC (Total Organic Carbon)	Recommended <2ppm

^{*2} When using point of use filter (LC197)

^{*3} Available volume of Type I and II water combined; increased use will reduce purification pack life

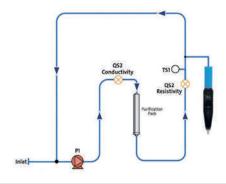
^{*4} Subject to suitable feed water purity (see ionic rejection) and system maintenance

^{*5} With feed water pressure at > 4 bar and temperature at 15 $^{\circ}\text{C}$

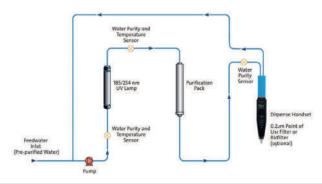
flex 1 & 2



Process Flow PURELAB flex 1



Process Flow PURELAB flex 2



Application	PURELAB Flex 1	PURELAB Flex 1 (with purification pack)	PURELAB flex 2
Daily volume	>10 Litres	>10 Litres	>10 Litres
Dispense Flowrate	Up to 2.0 1/min	Up to 2.0 l/min	Up to 2.0 l/min
Inorganics @25°C	As per feedwater	18.2 MΩ.cm	18.2 MΩ.cm
Total organic carbon (TOC)	Dependent on feedwater		<5 ppb
Bacteria	<0.1 CFU/ml°	<0.1 CFU/ml°	<0.001 CFU/ml ⁰¹
Bacterial Endotoxin	N/A	<0.001 EU/ml [‡]	<0.001 EU/ml*
RNase	N/A	N/A	<1 pg/ml
DNase	N/A	N/A	<5 pg/ml

With C134/145/197 POU filter/Biofilter † With LC197 Biofilter † Dependent on feedwater

Source	Originally from potable supply, then pretreated. Preferably reverse osmosis (RO) or filtered service deionization (SDI) or distilled.	
Fouling index (max)	<1 for all models	
Free Chlorine	<0.05 ppm max	
тос	N/A	
Carbon dioxide	<0.1 ppm	
Silica	<2 ppm	
Particulates	5-10 µm	
Temperature	4-40°C (Recommend 10-15°C)	
Flowrate (maximum requirement)	>2 l/min (0.5 USG)	
Drain requirements	None required	
Feedwater pressure	1.5 bar (22 psi) maximum; Flooded suction minimum	
* Fit LA652 Pressure Regulator where feedwater pressure exceed	Is specified limits	
Dimensions	Height 900-1020mm, Width 236mm, Depth 374mm	

The Brosz Freshale regulator where recentacter preshale execute specifical minus			
Dimensions	Height 9	900-1020mm, Width 236mm, Depth 374r	nm
Weight	10 kg (22 lbs)	10.5 kg (23.1 lbs)	11 kg (24.2 lbs)
Installation		Bench / wall	

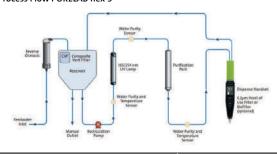
flex 3 & 3+



Process Flow PURELAB flex 3

TREATED WATER SPECIFICATIONS

FEEDWATER REQUIREMENT



Application	PURELAB Flex 3	
Daily volume	<10 Litres	
Dispense Flowrate	Up to 2.0 l/min	
Reverse osmosis make up flow rate at 15°C	20 1/hour	
Inorganics @25°C	18.2 MΩ.cm	
Total organic carbon (TOC)	<5 ppb	
Bacteria	<0.001 CFU/ml°	
Bacterial Endotoxin	<0.001 EU/ml [‡]	
RNase	<1 pg/ml	
DNase	<5 pg/ml	

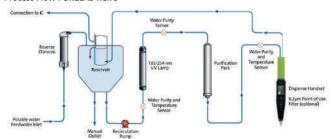
* Dependant on feed water ° With LC134/145/197 POU filter/Biofilter * With LC197 Biofilter

Source	Potable tap water	
Fouling index (max)	<10	
Free Chlorine	<0.5 ppm max	
ТОС	<2 ppm	
Carbon dioxide	<30 ppm (recommended <20 ppm)	
Silica (recommended max)	<30 ppm	
Particulates -		
Temperature	4-40°C (Recommend 10-15°C)	
Flowrate (maximum requirement)	Up to 75 1/hr (20 USG)	
Drain requirements	<90 l/hr (23 USG)	
Feedwater pressure*	6 bar (90 psi) max; 2 bar (30 psi) min	
*F"! ACF2 P P		

 * Fit LA652 Pressure Regulator where feedwater pressure exceeds specified limits

Dimensions	Height 900-1020mm, Width 236mm, Depth 470mm	
Weight	23 kg (57.3 lbs)	
Installation	Bench / wall	

Process Flow PURELAB flex 3+



Outlet Pump	
Application	PURELAB Flex 3+
Daily volume	<10 Litres
Delivery flow rate - maximum	Up to 2.0 1/min
Recirculation flow rate	1l/min
Reverse osmosis make up flow rate	20 l/hour
Inorganics (resistivity @25°C)	18.2 MΩ.cm
Organics (TOC) - typical	<5 ppb*
Direct from internal reservoir	Type III / RO Water
Bacteria - typical	<0.001 CFU/ml°
Endotoxin	<0.001 EU/ml [‡]
DNase	<5 pg/ml
RNase	<1 pg/ml
* Dependant on feed water ° With LC134,145/197 PC	OU filter/biofilter [†] With LC197 Biofilter
Source	Potable tap water
Conductivity	<2000 μS/cm²
Contaminant	
Hardness	<350 ppm as CaCO ₃
Hardness	<0.5 ppm Cl2
Silica	<30 ppm SiO2
Carbon Dioxide Maximum	<30 ppm (recommended <20 ppm)
Fouling index	<10
Iron / Manganese	<0.05 ppm
Organics (TOC)	<2 ppm
Particulates	N/A
Temperature	4 - 40°C (Recommended 10 - 25°C)
Flowrate (requirement at 15°C)	Up to 75 1/hr
Drain requirements (gravity fall with air gap)	>90L/hr

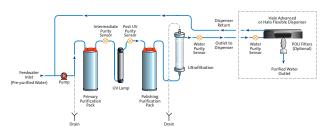
 $^2\,Purification$ pack life may vary with feedwaters >1400 $\mu\text{S/cm}$

Application
Dispense Flowrate



Process Flow PURELAB Chorus 1 Life Science

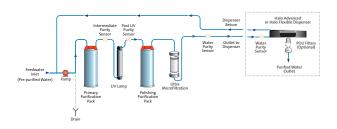
- Ultrafiltration particulate filter removal of endotoxin and large molecules for Life Science Applications



Process Flow PURELAB Chorus 1 Analytical Research - Ultra microfiltration to remove smaller particulates for Analytical Research Applications

Analytical Research

Up to 2.0 I/min[†]



Inorganics @25°C	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm
Total organic carbon (TOC)	1-3 ppb*	1-3 ppb*	3-10 ppb*
Bacteria	<0.001 CFU/ml°	<0.001 CFU/ml°	<0.001 CFU/ml°
Bacterial Endotoxin	<0.001 EU/ml	<0.001 EU/ml [‡]	<0.001 EU/ml [‡]
рН	Effectively neutral	Effectively neutral	Effectively neutral
Particles (filtration)	<0.01 μm	<0.05 μm	0.2 μm°
RNase	<1 pg/ml	<1 pg/ml	
DNase	<5 pg/ml	<5 pg/ml	
Purification pack capacity	Litres to 18.2	MΩ.cm = 94,100/(μS/cm + (2.3 x ppm CC	2))
* Dependant on feed water – recommended feed <50 ppb	TOC ° With LC134/145/197 POU filter/Biofilter ¹When connected to Halo, Advanced or flexible ¹ With LC197 Biofilter		
Source – originally from potable supply, then pretreated	Preferably RO produced by PURELAB Chorus 3 or filtered service deionization (SDI) or distilled. Note: mixed bed or twin bed deionized supplies should be cation limited at exhaustion		
Fouling index (max)	1 for all models. A 5-10 micro	n membrane prefilter is recommended fo	r 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		
Free Chlorine	0.05 ppm max		
тос	<50 ppb max (RO feed)		
Carbon dioxide	30 ppm (max recommended)		
Silica	2 ppm (max recommended)		
Particulates	Filtration down to 5-10 micron advisable to protect internal and/or point of use filters		
Temperature	1-35°C (Recommend 10-15°C)		
Flowrate (maximum requirement)	130 l/hr (34 USG)		
Drain requirements	Up to 2 I/min (0.5 USG)		
Feedwater pressure	0.7 bar (10 psi) maximum; 0.07 bar (1 psi) minimum		
* Fit LA652 Pressure Regulator where feedwater pressure e	cceeds specified limits		
Dimensions	Height 435mm, Width 375mm, Depth 340mm		
Weight	19 kg (42 lbs)	19 kg (42 lbs)	18 kg (40 lbs)

Life Science

Up to 2.0 I/min[†]

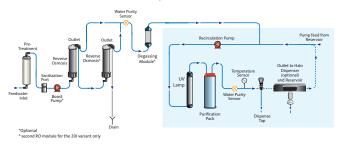
General Science

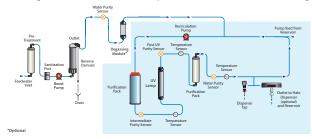
Up to 2.0 I/min[†]



Process Flow PURELAB Chorus 1 Complete

Process Flow Diagram PURELAB Chorus 1 Complete With Real-Time TOC Monitoring





Application	PURELAB Chorus Complete						
Nominal output at 15°C	10 l/hr	20 l/hr					
Dispense Flowrate	>1.5 l/min	>1.5 l/min					
Inorganics @25°C	18.2 MΩ.cm	18.2 MΩ.cm					
Total organic carbon (TOC)	<5 ppb	<5 ppb					
Bacteria	<0.001 CFU/ml°	<0.001 CFU/ml°					
Bacterial Endotoxin	<0.001 EU/ml ⁺	<0.001 EU/ml [‡]					
рН	Effectively neutral	Effectively neutral					
Particles (filtration)	0.2 μm [!]	0.2μm [!]					
RNase	<1 pg/ml	<1 pg/ml					
DNase	<5 pg/ml	<5 pg/ml					
Purification pack capacity	Litres to 18.2 MΩ.cm = 94,100/(μS/cm + (2.3 x ppm CO _.))						

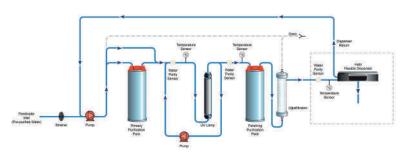
° With LC134/145/197 POU filter/Biofilter † With LC197 Biofilter † With LC134/145 POU filter

	Inorganics @25 C	>1MΩ.cm, typically >10MΩ.cm			
Reservoir Specification (Type 2)*	TOC	50ppb, typically <25ppb			
	Bacteria	100CFU/ml, typically <20CFU/ml			
*Typical values for reservoir water					
Source		Portable Mains Water Supply			
Fouling index (max)		<10			
Free Chlorine		0.5 ppm max			
Carbon dioxide		Ideally <20 ppm			
Silica		30 ppm (max recommended)			
Temperature		1-35°C (Recommend 10-15°C)			
Flowrate (maximum requirement)		130 l/hr (34 USG)			
Drain requirements		Up to 2 1/min (0.5 USG)			
Feedwater pressure		4.0 bar (60 psi) min; 6 bar (90 psi) max* With boost pump: flooded suction (min) to 2.0 bar (30 psi) max			
* Fit I AGE? Procesure Populator when	e feedwater pressure exceeds specified	limite			

* Fit LA652 Pressure Regulator where feedwater pressure exceeds specified limits							
Dimensions	Height 679mm, Width 376mm, Depth 353mm						
Weight (with boost pump)	17 kg (38 lbs)	18 kg (40 lbs)					
Weight	15 kg (33 lbs)	16 kg (36 lbs)					



Pharma Compliance Flow Diagram



Application	Pharma Compliance - VCLSM1
Resistivity	18.2 MΩ.cm
Dispenser flow-rate	up to 2 L/min
Total Organic Carbon (TOC)	1-3 ppb
Bacterial Endotoxin	<0.001 EU/ml
Bacterial Spec	<0.001 CFU/ml with a LC134 or LC145 or LC197 Point-of-use 0.2µm Micron filter fitted.
DNase	<5 pg/ml
RNase	<1 pg/ml
Particles	<0.01 μm
Recirculation Mode	During periods of non-use the unit will automatically operate in intermittent (10 minutes every 1 hours) re-circulation mode to maintain water purity with maximum efficiency.

Water Source	Pre-treated preferably RO, SDI or distilled.
Fouling Index (max)	1 for all models. A 5 – 10 micron pre-filter is recommend for all non RO feeds.
Service Deionization (SDI)	1MΩ.cm minimum at exhaustion.
Reverse Osmosis (RO)	Recommend <30 μS/cm
Free Chlorine (max)	0.05 ppm
TOC	0.05 ppm max
Carbon Dioxide	30 ppm max
Silica	2 ppm max
Particulates	Filtration down to 0.2 micron advisable.
Temperature	1 – 40°C (Recommended 10 – 15°C)

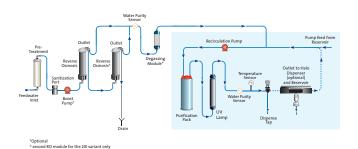
Maximum Inlet Pressure	0.7 bar (10 psi) Fit a LA652 Pressure Regulator where feedwater exceeds specified limits.
Minimum Inlet Pressure	0.07 bar (1 psi)
Flowrate	130 l/hr (34 USG)
Drain Requirements	Up to 2 l/min (0.5 USG) (Gravity fall with air gap) Max during service.

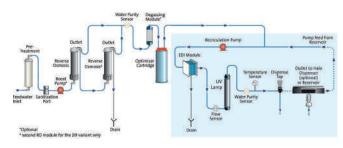
- Optimize your water purity at the point of use:
- Biofilter: Endotoxin removal (<0.001 EU/ml)
- Microfilter: Particulate removal (≥0.2 μm)



Process Flow PURELAB Chorus 2+ (RO/DI/UV)

Process Flow PURELAB Chorus 2+ (RO/DI/UV)





Application	PURELAB Chort	us 2+ (RO/DI/UV)	PURELAB Choru	ıs 2+ (RO/EDI/UV)		
Nominal output at 15°C	10 l/hr* 20 l/hr*		10 l/hr*	20 l/hr*		
Nominal daily output	240 l/day 480 l/day		220 l/day	220 l/day		
Inorganics @25°C	10- >1	5 MΩ.cm	10- >15 MΩ.cm			
Organics (MW>200 Dalton)	>99%	rejection	>99% rejection			
Total organic carbon (TOC)	<1	0 ppb	<10 ppb			
Bacteria	<0.001	. CFU/ml°	<0.001 CFU/ml°			
рН	Effective	ely neutral	Effectively neutral			
Particles (filtration)	0.2	2μm°	0.2µm∘			
Purification pack capacity	Litres to 15 MΩ.cm = 74,70	00/(μS/cm + (2.3 x ppm CO ₂))	Litres to 15 M Ω .cm = 74,700/(μ S/cm + (2.3 x ppm CO $_{2}$))			

 $^{^*}$ 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. $^\circ$ With LC134/145 POU filter

Source	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℃
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	4.0 bar (60 psi) min; 6 bar (90 psi) max* With boost pump: flooded suction (min) to 2.0 bar (30 psi) max	4.0 bar (60 psi) min; 6 bar (90 psi) max* With boost pump: flooded suction (min) to 2.0 bar (30 psi) max

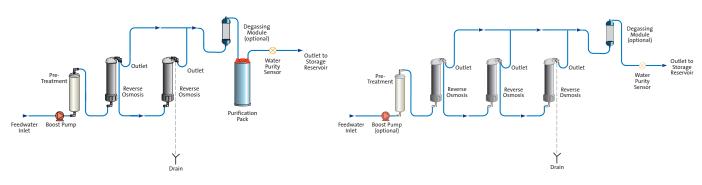
*Fit LA652 regulator where feedwater pressure exceeds specified limits

Dimensions	Height 679mm, Width	376mm, Depth 353mm	Height 679mm, Width 376mm, Depth 353mm			
Weight (with boost pump)	17 kg (37 lbs)	18 kg (40 lbs)	17 kg (37 lbs)	18 kg (40 lbs)		
Weight	15 kg (33 lbs)	16 kg (35 lbs)	15 kg (33 lbs)	16 kg (35 lbs)		



Process Flow PURELAB Chorus 2 (RO/DI)

Process Flow PURELAB Chorus 3 (RO)



Application	PURELAB Cho	orus 2 (RO/DI)	PUF	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	240 l/day 480 l/day 720 l/day				
Inorganics @25°C	1 to >10) MΩ.cm	>95% rejection					
Organics (MW>200 Dalton)	>99% r	ejection		>95% rejection				
Total organic carbon (TOC)	<30	ppb		<50 ppb				
Bacteria*	<5 CI	FU/ml		<50 CFU/ml				
рН	Effective	ly neutral	Effectively neutral					
Particles	>99% r	ejection	>99% rejection					
Purification pack capacity		= 103,200/(μS/cm ppm CO¸))		N/A				

 $Standard\ conditions\ are\ 4\ bar\ inlet\ pressure\ at\ 15^\circ C,\ fed\ with\ potable\ water\ and\ a\ clean\ pre-treatment\ cartridge.$ Refer to flow tables outside these conditions. * Bacterial specification is before the water goes into the reservoir

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℃				
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 375mm, Depth 340mm

Find your product



		(horus	1			Choru	s 2 & 3			fle	ex		Qu	est
	9.	Analytical Research	cience	o	Pharma Compliance	(\n/\r	(vu/							ţ	Zuest
	Life Science	Analytical	General Science	1 Complete	Pharma Co	2+ (RO/EDI/UV)	2+ (RO/DI/UV)	2 (RO/DI)	3 (RO)	flex 1	flex 2	flex 3	flex 3+	2	Non UV
Water Type															
Ultrapure Type I	✓	✓	✓	✓	✓					√ #	✓	✓	✓	✓	✓
Pure Type II				✓		✓	✓	✓		√*		✓	✓	✓	✓
RO Type III									✓	√*				✓	✓
Impurities to remove															
Nucleases	✓	✓	✓	✓	✓	✓	✓				√ ◊	✓	✓	✓	
Endotoxins/Pyrogens	✓	√ ◊	√ ◊	√ ◊	✓	√ ◊	√ ◊			√#		√ ◊	√ ◊	√◊	√ ◊
Inorganics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bacteria	√ ∆	√ ∆	√∆	√∆	√ ∆	√∆	√ ∆	√ ∆	√∆	✓△	√∆	√ ∆	√ ∆	√ ∆	√ ∆
Particulates	√∆	✓△	√∆	√∆	√∆	√∆	√∆	√ ∆	√ ∆	√ ∆	√∆	√ ∆	✓△	√∆	√ ∆
Features															
PureSure®	✓	✓	✓		✓										
Real time TOC monitoring	✓	✓		√6	✓						✓	✓	✓		
Potable tap water				✓		✓	✓	✓	✓			✓	✓	✓	✓
Wall mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Floor mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓						
Purity monitoring to POU	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
Halo Dispense compatible	✓	✓	✓	✓	✓	✓	✓								
Remote Dispense Compatible	✓	✓	✓	✓	✓	✓	✓							✓	✓
Auto Volume Dispense	à	√ [†]	√ [†]	√ [†]	✓	√ [†]	à			✓	✓	✓	✓	✓	✓
Variable flow rate dispense	à	à	√ †	à	✓	à	à			✓	✓	✓	✓		
Drop-by-drop control	à	à	√ †	à	✓	√ †	à			✓	✓	✓	✓		
Locked dispense	à	√ †	à	à	✓	à	à			✓	✓	✓	✓	✓	✓
USB connection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Full product validation*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

[#] With DI cartridge * No DI cartridge \diamond With LC197 POU filter Δ With LC134/145 POU filter

[†] When fitted with a Halo dispenser solution

^{**} Full product validation needs to be purchased separately. $\checkmark \spadesuit$ Only PC120COBPM1-TOC

Find your product

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		C	horus	1			Choru	ıs 2 & :	3		PUREL	AB flex	(Qu	iest
	υсе	Analytical Research	Science	ste	Pharma Compliance	(NU/Id	(\n\)								☐ Quest
	Life Science	Analytic	General Science	1 Complete	Pharma	2+ (RO/EDI/UV)	2+ (RO/DI/UV)	2 (RO/DI)	3 (RO)	flex 1	flex 2	flex 3	flex 3+	An An	Non UV
Ideal solution for Systems also have wider applicabi	lity. Spea	k to you	ır local E	LGA spe	cialist fo	r furthe	r inform	ation.							
Cell culture	✓			✓							✓	✓	✓	✓	✓
Liquid Chromatography (HPLC, UHPLC)	√	√		√							√	✓	√	✓	
Microbiological Analysis	✓	✓		✓							✓	✓	✓	✓	
Genetic (PCR, DNA/RNA sequencing, DNA, Nucleic acid)	√														
Gas Chromatography		✓		√							✓	✓	✓	✓	
Electrochemistry		✓	✓	✓		√	✓				✓	✓	✓	✓	
Immunochemistry	✓			✓							✓	✓	✓	✓	
Atomic Spectroscopy (Flame AA, GFAA, ICP-AE)		✓	✓	✓							✓	✓	✓	✓	√
Mass Spectrometry (ICP-MS, GC-MS, LC-MS)	√	✓		✓							✓	✓	✓	✓	
General lab water requirement (glassware washing, heating baths, autoclave filling)				✓				✓	✓	✓		✓	✓	✓	✓
Spectrophotometry (inc. UV, IR, near UV, nearIR)				✓		✓	✓				√	✓	✓	✓	
Feed to ultrapure water system						√	√	✓	✓		_	_			
Media/buffer preparation (inc pH solution)						✓	√	✓						√	√
General chemistry (inc Titrimetry)			✓	✓		✓	✓	✓	√	✓	✓	✓	✓	✓	√

Product Part Numbers

PURELAB Quest	Description			
Part Number	Description			
PQDIXXM1NSP	PURELAB Quest			
PQDIXXM1	PURELAB Quest with starter pack			
PQDIUVM1NSP	PURELAB Quest UV			
PQDIUVM1	PURELAB Quest UV with starter pack			



All units : User Manual (MANU41196), Certificate of Conformity, POWE38971-02, LA728 (Bypass Pack) All units: User Manual (MANU41196), Lettificate of Conformity, POWE38971-4
PURELAB Quest - 1-x LC217
PURELAB Quest (With Starter Pack) 1x LC217, 1x LC291, 1x LC292
PURELAB Quest UV - 1x LC217, 1x LC210
PURELAB Quest UV (With Starter Pack) 1x LC217, 1x LC292, 1x LC291, 1x LC210

PURELAB flex	Description					
Part Number	Description					
PF1-M3	PURELAB flex 1 (optional Purification Pack)					
PF2-M3	PURELAB flex 2 (Purification Pack + UV + TOC)					
PF3-M3	PURELAB flex 3					
PF3+-M3	PURELAB flex 3+					



Unit is supplied as standard with: All units: quick Reference Guide & user manual, certificate of conformity, bypass pack. Flex 2: 1 x LC210. Flex 3 & 3+: 1 x LC217, 1 x LC210, 1 x LC216

PURELAB Chorus 1	Description		
Part Number	Description		
PC1ANRXM2	PURELAB Chorus 1 Analytic Research Ultrapure System		
PC1LSCXM2	PURELAB Chorus 1 Life Science Ultrapure System		
PC1GSCXM2	PURELAB Chorus 1 General Science Ultrapure System		



Unit is supplied as standard with: Fitted/Included: appropriate consumables (including 2 x LC232 - see list below), MANU39998/MANU39997/MANU40001 Operator Manual, GUID39864 Light Guide, GUID40005 Quick Reference Guide, INST40012 Quick Start Guide, LA762 basic installation kit, LC233 x 2 bypass block.

PURELAB Chorus 1 Complete	Provided in				
Part Number	Description				
PC110COXXM1	PURELAB Chorus 1 Complete 10 L/hr System				
PC110COBPM1	PURELAB Chorus 1 Complete 10 L/hr System with Boost Pump				
PC120COXXM1	PURELAB Chorus 1 Complete 20 L/hr System				
PC120COBPM1	PURELAB Chorus 1 Complete 20 L/hr System with Boost Pump				
PC120COBPM1-TOC	PURELAB Chorus 1 Complete 20 L/hr System with Boost Pump and TOC Monitoring				



Unit is supplied as standard with: Fitted/Included: appropriate quantity LC240, 1 x LC241, 1 x LC275, 1 x LC272, 1 x LC210, MANU40932 Operator Manual (Non-TOC models) 1 x LC322, 1 x LC241, 1 x LC275, 1 x LC323, 1 x LC272, 1 x LC210, MANU41984 Operator Manual (PC120COBPM1-TOC) GUID39864 Light Guide, LA762 Basic installation Kit.

PURELAB Pharma Compliance Part Number	Description	Dispenser
VCLSDM1	PURELAB Pharma Compliance	1x Halo
VCLSDM1-D1	PURELAB Pharma Compliance with 1x Dispenser	1x Halo, 1x Dispenser
VCLSDM1-D2	PURELAB Pharma Compliance with 2x Dispenser Biofilter fitted	1x Halo, 2x Dispenser
VCLSDM1-D3	PURELAB Pharma Compliance with 3x Dispenser	1x Halo, 3x Dispenser



 $Unit is supplied as standard with: Fitted/Included: 2 \times LC232, 1 \times LC210, 1 \times LC151, POWE40855, MANU41381\ Operator\ Manual, VCL5DM1\ Validation\ Manual, LA835\ Installation\ Kitch Control of the Con$

PURELAB Chorus 2+ RO/EDI/UV	Description				
Part Number					
PC210EUXXM1	PURELAB Chorus 2+ RO/EDI/UV 10 l/hr System				
PC210EUBPM1	PURELAB Chorus 2+ RO/EDI/UV 10 l/hr System with Boost Pump				
PC220EUXXM1	PURELAB Chorus 2+ RO/EDI/UV 20 1/hr System				
PC220EUBPM1	PURELAB Chorus 2+ RO/EDI/UV 20 l/hr System with Boost Pump				



Unit is supplied as standard with: Fitted/Included: appropriate quantity LC240, $1 \times LC241$, $1 \times LC243$, $1 \times LC277$, $1 \times LC285$, $1 \times LC233$, MANU40932 Operator Manual, GUID39864 Light Guide, LA762 Basic installation Kit

PURELAB Chorus 2+ RO/DI/UV Part Number	Description
PC210DUXXM1	PURELAB Chorus 2+ RO/DI/UV 10 l/hr System
PC210DUBPM1	PURELAB Chorus 2+ RO/DI/UV 10 l/hr System with Boost Pump
PC220DUXXM1	PURELAB Chorus 2+ RO/DI/UV 20 1/hr System
PC220DUBPM1	PURELAB Chorus 2+ RO/DI/UV 20 l/hr System with Boost Pump



 $Unit is supplied as standard with: Fitted / Included: appropriate quantity LC240, 1 \times LC271, 1 \times LC272, 1 \times LC274, 1 \times LC285, MANU40932 \ Operator Manual, GUID39864 Light Guide, LA762 Basic insallation Kit.$

PURELAB Chorus 2 RO/DI	2.10				
Part Number	Description				
PC210DIXXM3	PURELAB Chorus 2 RO/DI 10 l/hr System				
PC210DIBPM3	PURELAB Chorus 2 RO/DI 10 l/hr System with Boost Pump				
PC220DIXXM3	PURELAB Chorus 2 RO/DI 20 I/hr System				
PC220DIBPM3	PURELAB Chorus 2 RO/DI 20 l/hr System with Boost Pump				



Unit is supplied as standard with: Fitted/Included: appropriate quantity LC240 RO, 1 x LC241, 1 x LC234, MANU40003, Operator Manual, GUID39864 Light Guide, GUID40005 Quick Reference Guide, INST40009 Quick Start Guide, LA762 basic installation kit, LC233 bypass block

Product Part Numbers

Description				
Description .				
PURELAB Chorus 3 RO 10 I/hr				
PURELAB Chorus 3 RO 10 l/hr with Boost Pump				
PURELAB Chorus 3 RO 20 l/hr				
PURELAB Chorus 3 RO 20 l/hr with Boost Pump				
PURELAB Chorus 3 RO 30 I/hr				
PURELAB Chorus 3 RO 30 l/hr with Boost Pump				



Unit is supplied as standard with: Fitted/Included: appropriate quantity LC240 RO, 1 x LC241, GUID39864 Light Guide

PURELAB Chorus Reservoirs	Description			
Part Number	Description			
LA757	15 Litre Reservoir			
LA758	30 Litre Reservoir			
LA759	60 Litre Reservoir			
LA760	100 Litre Reservoir			
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Each reservoir supplied with LA773 Installation Kit & LC216 Composite Vent Filte

PURELAB Dispenser Part Number	Description		
LA824	PURELAB Dispenser Installation Kit		
LA827	(Worktop) Bench Mounting Bracket Kit		
LC134	Point-Of-Use 0.2µm Filter (POU). Recommended Change: 3 months		
LC145	Point-Of-Use 0.2µm Filter (POU). Recommended Change: 3 months		
LC197	Point-Of-Use Bio Filter (POU). Recommended Change: 3 months		
POWE40855	Power Supply		



Unit is supplied as standard with: 1 x LA826 Installation kit & MANU41319 Operator manua PURFLAB Dispenser Installation kit & accessories

PURELAB Chorus Halo Dispensers	
Part Number	Description
LA754	Halo Dispenser
LA755	Advanced Halo Dispenser
LA756	Flexible Dispenser



Each supplied with GUID40007 or GUID40006 Quick Reference Guide, INST40011 or INST40013 Quick Start Guide, LA774 Installation Kit (plus for LA756: MANU40002 Operator manual)



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