PURELAB®
Innovation and Flexibility

Lab Water Purification Solutions for your Research Needs
ELGA. The LabWater Specialists

We are the LabWater Specialists. We have been working with scientists since 1937 to guarantee ultrapure and pure water for their experiments and lab work. We resource science and healthcare markets for a better world by bringing the world’s leading scientists a critical reagent.

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.

✓ 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.

✓ 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.

✓ British Engineered – 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 Awards

![A' Design Award Gold](image)
![GOOD DESIGN AWARD 2014](image)
![red dot design award](image)

At ELGA we are experienced in meeting the challenges that arise during the development, installation and servicing of single point-of-use purification systems as well as large projects involving consultation, consultants and clients.
A trusted brand delivering you choice

We understand how important it is for scientists to obtain a choice of water qualities that range from RO grade for simple routine washing and rinsing, through to ultrapure water for the most critical applications.

With this in mind, we have applied our expertise, gained since 1937 in water purification innovation to design the unrivalled PURELAB range. Our reliable water purification systems are constructed from the highest quality components to ensure optimal purity, while a rapid and easy sanitization program contributes towards an uninterrupted workflow. Built-in economical processes results in the lowest consumables costs with the highest water quality and precision.

At ELGA we do not speculate or work on assumptions about your water quality. On our first visit to your laboratory we will carry out a test, on site, that analyzes your feed water quality.

We understand that future needs change and so we have developed a unique and modular set of solutions that can grow as you and your lab grow. You do not need to feel restricted to one solution for the next 10 years.

<table>
<thead>
<tr>
<th><em>Type I</em></th>
<th>Type I</th>
<th>Type II</th>
<th>Type II</th>
<th>Type III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistivity</td>
<td>Resistivity</td>
<td>Resistivity</td>
<td>Resistivity</td>
<td>Conductivity</td>
</tr>
<tr>
<td>18.2 MΩ.cm</td>
<td>&gt;18 MΩ.cm</td>
<td>&gt;10 MΩ.cm</td>
<td>1-10 MΩ.cm</td>
<td>1-50 µS/cm</td>
</tr>
<tr>
<td>PURELAB Chorus 1</td>
<td>PURELAB Chorus 1 Complete</td>
<td>PURELAB Chorus 2* (RO/EDI/UV)</td>
<td>PURELAB Chorus 2* (RO/DI)</td>
<td>PURELAB Chorus 3</td>
</tr>
<tr>
<td>PURELAB flex 1, 2, 3 &amp; 4</td>
<td>PURELAB Chorus 2 &amp; 3</td>
<td>PURELAB flex 1</td>
<td>PURELAB flex 1, 3 &amp; 4</td>
<td></td>
</tr>
</tbody>
</table>

*PureSure Technology/In-line filtration/Variety of purification packs
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 $<0.1 – 2.9\text{nm}$ 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 Filter

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 – 10µm and combined with an activated carbon treatment, these filters act to protect subsequent RO systems from fouling and blockage.

### 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 and reject water contaminants that are less than 1nm diameter. 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.
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 $\text{H}^+$ and $\text{OH}^-$ 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 $18.2$ MΩ.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 product-water. 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 $>10$ MΩ.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 (30–3000nm) 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.

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 MΩ.cm (Type I+/I) and underpinned by the advanced PureSure® deionization system, the PURELAB Chorus 1 enables you to focus on attaining accurate results while ensuring an uninterrupted work flow.

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.

Integrated Filtration

Ultrafiltration or microfiltration filters out endotoxins, proteins, nuclease and particulates.

Full Spectrum UV Treatment

Data Capture

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

Fully Recirculating

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

Real-time TOC Monitoring

Provides complete confidence in organic purity.
## Specifications

<table>
<thead>
<tr>
<th>Application</th>
<th>Life Science</th>
<th>Analytical Research</th>
<th>General Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispense Flowrate</td>
<td>Up to 2.0 l/min¹</td>
<td>Up to 2.0 l/min¹</td>
<td>Up to 2.0 l/min¹</td>
</tr>
<tr>
<td>Inorganics @25°C</td>
<td>18.2 MΩ.cm</td>
<td>18.2 MΩ.cm</td>
<td>18.2 MΩ.cm</td>
</tr>
<tr>
<td>Total organic carbon (TOC)</td>
<td>1-3 ppb*</td>
<td>1-3 ppb*</td>
<td>3-10 ppb*</td>
</tr>
<tr>
<td>Bacteria</td>
<td>&lt;0.001 CFU/ml°</td>
<td>&lt;0.001 CFU/ml°</td>
<td>&lt;0.001 CFU/ml°</td>
</tr>
<tr>
<td>Bacterial Endotoxin</td>
<td>&lt;0.001 EU/ml</td>
<td>&lt;0.001 EU/ml¹</td>
<td>&lt;0.001 EU/ml¹</td>
</tr>
<tr>
<td>pH</td>
<td>Effectively neutral</td>
<td>Effectively neutral</td>
<td>Effectively neutral</td>
</tr>
<tr>
<td>Particles (filtration)</td>
<td>&lt;0.01 µm</td>
<td>&lt;0.05 µm</td>
<td>0.2 µm*</td>
</tr>
<tr>
<td>RNase</td>
<td>&lt;1 pg/ml</td>
<td>&lt;1 pg/ml</td>
<td></td>
</tr>
<tr>
<td>DNase</td>
<td>&lt;5 pg/ml</td>
<td>&lt;5 pg/ml</td>
<td></td>
</tr>
<tr>
<td>Purification pack capacity</td>
<td>Liters to 18.2 MΩ.cm = 94,100/(µS/cm + (2.3 x ppm CO₂))</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Dependant on feed water – recommended feed <50 ppb TOC  
° With LC134/145/197 POU filter/Biofilter  
¹When connected to Halo, Advanced or flexible  
²With 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 micron membrane prefilter is recommended for 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

**TOC**  
<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 l/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 exceeds specified limits

**Dimensions**  
Height 435mm, Width 375mm, Depth 340mm

**Weight**  
19 kg (42 lbs)  
19 kg (42 lbs)  
18 kg (40 lbs)
PURELAB Chorus 1 Complete

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

Key Features
- Tap-to-ultrapure
- Fully re-circulating
- Integrated filtration
- Multiple dispensing

Ideally suited for:
- Mass Spectrometry
- Molecular Biology
- Electrochemistry
- Atomic Spectroscopy
- Liquid Chromatography
- Gas Chromatography
- Immunochemistry
- General Laboratory
- Spectrophotometry

One complete solution for the laboratory

PURELAB Chorus 1 Complete provides a complete solution from potable tap water supply to ultrapure water, and is ideal for laboratories needing up to 480 liters of 18.2 MΩ.cm ultrapure water. With its easy to use ergonomic design, water can be measured and dispensed with confidence directly from the system or from a choice of additional Halo Dispensers.

Fully Recirculating
Recirculation of purified water through our modular reservoir to maintain consistent peak water purity at 18.2 MΩ.cm.

ELGA Biofilter (optional)
When fitted, PURELAB Chorus 1 Complete produces water which is free from biologically active impurities.

Single System Solution
Perfect single system solution for analytical and life science applications requiring 18.2 MΩ.cm.

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

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

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

Economical
Optional CO₂ removal from the purified water (post RO) increasing the life of downstream consumables.
Process Flow PURELAB Chorus 1 Complete

Specifications

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>PURELAB Chorus Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal output at 15°C</td>
<td>10 l/hr</td>
</tr>
<tr>
<td>Dispense Flowrate</td>
<td>&gt;1.5 l/min</td>
</tr>
<tr>
<td>Inorganics @25°C</td>
<td>18.2 MΩ.cm</td>
</tr>
<tr>
<td>Total organic carbon (TOC)</td>
<td>&lt;5 ppb</td>
</tr>
<tr>
<td>Bacteria</td>
<td>&lt;0.001 CFU/ml◊</td>
</tr>
<tr>
<td>Bacterial Endotoxin</td>
<td>&lt;0.001 EU/ml‡</td>
</tr>
<tr>
<td>pH</td>
<td>Effectively neutral</td>
</tr>
<tr>
<td>Particles (filtration)</td>
<td>0.2 µm!</td>
</tr>
<tr>
<td>RNase</td>
<td>&lt;1 pg/ml</td>
</tr>
<tr>
<td>DNase</td>
<td>&lt;5 pg/ml</td>
</tr>
<tr>
<td>Purification pack capacity</td>
<td>Liters to 18.2 MΩ.cm = 94,100/(µS/cm + (2.3 x ppm CO₂))</td>
</tr>
</tbody>
</table>

◊ With LC134/145/197 POU filter/Biofilter  ‡ With LC197 Biofilter  ! With LC134/145 POU filter

Source | Potable 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 l/min (0.5 USG)
Feedwater pressure | 4.0 bar (60 psi) min; 6 bar (90 psi) max

* Fit LA652 Pressure Regulator where feedwater pressure exceeds specified limits

With boost pump: flooded suction (min) to 2.0 bar (30 psi) max

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)
Type II+ Water
Liters per day:
Up to 216
>10 MΩ.cm

One complete solution for the laboratory

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 MΩ.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 Dispensers.

Key Features
- Tap to Type II
- Fully re-circulating
- Multiple dispensing

Ideally suited for:
- Electrochemistry
- Cell Culture
- Spectrophotometry
- Feed to Ultrapure Water
- Media / Buffer Preparation
- General Chemistry

Fully Recirculating EDI
ELGA’s patented fully recirculated EDI provides a constant supply of high purity that guarantees a minimum of 10 MΩ.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.

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

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

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.

*If fitted with Halo dispenser
### Specifications

**APPLICATION** | **PURELAB Chorus 2⁺ (RO/EDI/UV)**
--- | ---
Nominal output at 15°C | 10 l/hr* 20 l/hr*
Nominal daily output | 216 l/day 216 l/day
Inorganics @25°C | 10 to >15 MΩ.cm
Organics (MW>200 Dalton) | >99% rejection
Total organic carbon (TOC) | <10 ppb
Bacteria | <0.001 CFU/ml◊
pH | Effectively neutral
Particles (filtration) | 0.2µm

* Optional

◊ A second RO module for the 20I variant only

* 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.

<table>
<thead>
<tr>
<th>Source</th>
<th>Potable mains water supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fouling index (max)</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Conductivity</td>
<td>&lt;1400 µS/cm</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>0.5 ppm max</td>
</tr>
<tr>
<td>Heavy Metals (max)</td>
<td>0.05 ppm</td>
</tr>
<tr>
<td>Silica</td>
<td>30 ppm</td>
</tr>
<tr>
<td>Temperature</td>
<td>1-35°C</td>
</tr>
<tr>
<td>Flowrate (maximum requirement)</td>
<td>100 l/hr (27 USG)</td>
</tr>
<tr>
<td>Drain requirements</td>
<td>80 l/hr (21 USG)</td>
</tr>
<tr>
<td>Feedwater pressure</td>
<td>4.0 bar (60 psi) min; 6 bar (90 psi) max*</td>
</tr>
</tbody>
</table>

*With boost pump: flooded suction (min) to 2.0 bar (30 psi) max

*Fit LA652 Regulator where feedwater pressure exceeds specified limits

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height 679mm, Width 376mm, Depth 353mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (with boost pump)</td>
<td>21 kg (46 lbs) 22 kg (49 lbs)</td>
</tr>
<tr>
<td>Weight</td>
<td>18 kg (40 lbs) 19 kg (42 lbs)</td>
</tr>
</tbody>
</table>
Purelab Chorus 2+ (RO/DI/UV)

Type II* water

- Key Features
  - Tap-to-Type II
  - Fully re-circulating
  - Multiple dispensing

- Liters per day:
  - Up to 480
  - >10 MΩ.cm

- Ideally suited for:
  - Electrochemistry
  - Spectrophotometry
  - Feed to Ultrapure Water
  - Media / Buffer Preparation
  - General Chemistry
  - Cell Culture


One complete solution for the laboratory

Purelab Chorus 2+(RO/DI/UV) provides pure water (Type II*) from potable tap water supply for laboratories requiring up to 480 liters per day and is able to fully recirculate to achieve >10 MΩ.cm at all times. It 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 Dispensers.

Fully Recirculating

In addition to simple composite vent filtration, the Purelab Chorus 2+ is the only fully recirculating Type II* pure water system on the market, maintaining consistent peak water purity at >10 MΩ.cm.

Configuration

Ability to configure multiple systems to increase flow rate and save space through stackable solutions that can be wall mounted, on or *under the bench.

Reduced Maintenance Times

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

Data Capture

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

Economical

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

*If fitted with Halo dispenser
**Process Flow PURELAB Chorus 2+ (RO/DI/UV)**

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>PURELAB Chorus 2+ (RO/DI/UV)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPLICATION</strong></td>
<td></td>
</tr>
<tr>
<td>Nominal output at 15°C</td>
<td>10 l/hr*</td>
</tr>
<tr>
<td>Nominal daily output</td>
<td>240 l/day</td>
</tr>
<tr>
<td>Inorganics @25°C</td>
<td>1 to &gt;15 MΩ.cm</td>
</tr>
<tr>
<td>Organics (MW&gt;200 Dalton)</td>
<td>&gt;99% rejection</td>
</tr>
<tr>
<td>Total organic carbon (TOC)</td>
<td>&lt;10 ppb</td>
</tr>
<tr>
<td>Bacteria</td>
<td>&lt;0.001 CFU/ml◊</td>
</tr>
<tr>
<td>pH</td>
<td>Effectively neutral</td>
</tr>
<tr>
<td>Particles (filtration)</td>
<td>0.2µm◊</td>
</tr>
<tr>
<td>Purification pack capacity</td>
<td>Liters to 15 MΩ.cm = 74,700/(µS/cm + (2.3 x ppm CO₂))</td>
</tr>
</tbody>
</table>

*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. ◊ With LC134/145 POU filter*

<table>
<thead>
<tr>
<th>Source</th>
<th>Potable mains water supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fouling index (max)</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Conductivity</td>
<td>&lt;2000 µS/cm</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>0.5 ppm max</td>
</tr>
<tr>
<td>Heavy Metals (max)</td>
<td>0.05 ppm</td>
</tr>
<tr>
<td>Silica</td>
<td>30 ppm</td>
</tr>
<tr>
<td>Temperature</td>
<td>1-35°C</td>
</tr>
<tr>
<td>Flowrate (maximum requirement)</td>
<td>100 l/hr (27 USG)</td>
</tr>
<tr>
<td>Drain requirements</td>
<td>80 l/hr (21 USG)</td>
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<td>Feedwater pressure</td>
<td>4.0 bar (60 psi) min; 6 bar (90 psi) max*</td>
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<tr>
<td></td>
<td>With boost pump: flooded suction (min) to 2.0 bar (30 psi) max</td>
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</tbody>
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*Fit LA652 Regulator where feedwater pressure exceeds specified limits*

<table>
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<tr>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>Weight (with boost pump)</td>
<td>17 kg (37 lbs) 18 kg (40 lbs)</td>
</tr>
<tr>
<td>Weight</td>
<td>15 kg (33 lbs) 16kg (35 lbs)</td>
</tr>
</tbody>
</table>
Halo Dispense Solutions

The Halo Dispenser offers dispensing and monitoring solutions to customers enabling the ultimate flexibility when using PURELAB Chorus 1, Chorus 1 Complete & Chorus 2.

A choice of three dispensing solutions is available to suit different applications, budget and configuration. With Halo Dispenser you have the ultimate flexibility.

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

**Multiple Positioning**
Position the dispenser independent from the water purification system. Optimize your 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 system performance.

**Real-Time TOC Monitoring**
Water purity is monitored right up to the point of use for complete peace of mind with real-time TOC monitoring for critical applications.

* Only on PURELAB Chorus 1
PURELAB Chorus 2 (RO/DI)

Type II
Liters per day: Up to 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. It dispenses up to 480 liters of pure water per day from a potable water supply for general laboratory applications.

Deionization

The Reverse Osmosis feed 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 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 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.
PURELAB Chorus 3
(RO)

Type III water
Liters per day:
Up to 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. It can also be used as a feed to other ELGA water systems.

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.

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.

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.

Auto Rinse
Maintains purity of water during periods of low use.
**TREATED WATER SPECIFICATIONS**

**FEEDWATER REQUIREMENT**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>PURELAB Chorus 2 (RO/DI)</th>
<th>PURELAB Chorus 3 (RO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal output at 15°C</td>
<td>10 l/hr</td>
<td>20 l/hr</td>
</tr>
<tr>
<td>Nominal daily output</td>
<td>240 l/day</td>
<td>480 l/day</td>
</tr>
<tr>
<td>Inorganics @25°C</td>
<td>1 to &gt;10 MΩ.cm</td>
<td>&gt;95% rejection</td>
</tr>
<tr>
<td>Organics (MW&gt;200 Dalton)</td>
<td>&gt;99% rejection</td>
<td>&gt;95% rejection</td>
</tr>
<tr>
<td>Total organic carbon (TOC)</td>
<td>&lt;30 ppb</td>
<td>&lt;50 ppb</td>
</tr>
<tr>
<td>Bacteria*</td>
<td>&lt;5 CFU/ml</td>
<td>&lt;50 CFU/ml</td>
</tr>
<tr>
<td>pH</td>
<td>Effectively neutral</td>
<td>Effectively neutral</td>
</tr>
<tr>
<td>Particles</td>
<td>&gt;99% rejection</td>
<td>&gt;99% rejection</td>
</tr>
<tr>
<td>Purification pack capacity</td>
<td>Liters to 1MΩ.cm = 103,200/(µS/cm + (2.3 x ppm CO2))</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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. * 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°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)
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.

---

**Storage Reservoirs**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Dimensions (mm)</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 liters</td>
<td>470 (h) x 376 (w) x 340 (d)</td>
<td>6 l/min</td>
</tr>
<tr>
<td>30 liters</td>
<td>660 (h) x 376 (w) x 340 (d)</td>
<td>8 l/min</td>
</tr>
<tr>
<td>60 liters</td>
<td>570 (h) x 532 (w) x 522 (d)</td>
<td>10 l/min</td>
</tr>
<tr>
<td>100 liters</td>
<td>806 (h) x 532 (w) x 522 (d)</td>
<td>10 l/min</td>
</tr>
</tbody>
</table>
Type I, II & III dependent on use of DI pack
Liters per day: Dependent on feed water

Key Features
✓ Flexible dispensing
✓ Customise settings
✓ Fully re-circulating
✓ Integrated filtration

Ideally suited for:
• General Lab
• Type II Applications
• Dispensing with DI pack

Simplicity and Elegance.
The best dispenser for your distribution system
The PURELAB flex 1 is designed as a dispensing and monitoring system when connected to a reservoir or distribution loop. It also works as a simple deionization system.

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
Designed for the laboratory of today.

Reliable delivery of Type I water purity

The PURELAB flex is designed to deliver accuracy, flexibility and ease-of-use. The award winning system produces ultrapure type I (18.2 MΩ.cm) water from a pre-purified feed, which is ideal for analytical and life science applications. It allows focus on routine test work without concern about the water quality affecting test results.

Guaranteed Water Purity

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.

Easy To Maintain

Easy access to the consumables as well as quick easy automated sanitization to minimize downtime.

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.
PURELAB flex 1 & 2

### TREATED WATER SPECIFICATIONS

#### FEEDWATER REQUIREMENTS

**APPLICATION**

<table>
<thead>
<tr>
<th></th>
<th>PURELAB flex 1</th>
<th>PURELAB flex 1 (with purification pack)</th>
<th>PURELAB flex 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Daily volume</strong></td>
<td>&gt;10 liters</td>
<td>&gt;10 liters</td>
<td>&gt;10 liters</td>
</tr>
<tr>
<td><strong>Dispense Flowrate</strong></td>
<td>Up to 2.0 l/min</td>
<td>Up to 2.0 l/min</td>
<td>Up to 2.0 l/min</td>
</tr>
<tr>
<td><strong>Inorganics @25°C</strong></td>
<td>As per feedwater</td>
<td>18.2 MΩ.cm</td>
<td>18.2 MΩ.cm</td>
</tr>
<tr>
<td><strong>Total organic carbon (TOC)</strong></td>
<td>Dependent on feedwater</td>
<td>&lt;0.1 CFU/ml³</td>
<td>&lt;0.001 CFU/ml³</td>
</tr>
<tr>
<td><strong>Bacteria</strong></td>
<td>&lt;0.1 CFU/ml³</td>
<td>&lt;0.001 EU/ml²</td>
<td>&lt;0.001 EU/ml²</td>
</tr>
<tr>
<td><strong>Bacterial Endotoxin</strong></td>
<td>N/A</td>
<td>&lt;1 pg/ml</td>
<td>&lt;5 pg/ml</td>
</tr>
<tr>
<td><strong>RNase</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>DNase</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

² With C134/145/197 POU filter/Biofilter ³ With LC197 Biofilter ⁴ 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

**TOC**

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 exceeds specified limits

**Dimensions**

Height 900-1020mm, Width 236mm, Depth 374mm

**Weight**

10 kg (22 lbs) 10.5 kg (23.1 lbs) 11 kg (24.2 lbs)

**Installation**

Bench / wall
PURELAB flex 3
Tap-to-Ultrapure

<table>
<thead>
<tr>
<th>Type I water</th>
<th>Key Features</th>
<th>Ideally suited for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liters per day: &lt; 10</td>
<td>✓ Real-time TOC</td>
<td>• Mass Spectrometry</td>
</tr>
<tr>
<td>18.2 MΩ.cm</td>
<td>✓ Fully re-circulating</td>
<td>• Molecular Biology</td>
</tr>
<tr>
<td></td>
<td>✓ Integrated filtration</td>
<td>• Electrochemistry</td>
</tr>
<tr>
<td></td>
<td>✓ Adjustable dispensing</td>
<td>• Atomic Spectroscopy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Liquid Chromatography</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cell Culture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Gas Chromatography</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Immunochemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Spectrophotometry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Media / Buffer Prep</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• General Chemistry</td>
</tr>
</tbody>
</table>

**Power and flexibility.**

A small unit with big power capabilities

The PURELAB flex 3 is the ultimate system providing Type 1 (ultrapure water) from potable tap water in one single unit.

**Space Saving Design**

The compact unit can be placed on the bench or can be wall mounted and has an integrated 7 liter reservoir filled by a 10 l/hr RO membrane, ensuring that water is always available.

**Fully 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.

**Flexible Dispenser**

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

**Simplicity**

Simple to install, operate and with a quick semi-automated sanitization to minimize downtime.

**Data Capture**

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

An independent system

PURELAB flex 4 produces ultrapure (Type I) water from pre-purified water, with its manual-filling capability, it is able to operate independently from a fixed water source in temporary locations. It has an integrated 7 liter reservoir, ensuring that water is always available and is particularly suited for small volumes of water where TOC levels are critical and must remain stable.

Space Saving Design

The compact unit can be placed on the bench or can be wall mounted and has an integrated 7 liter reservoir, ensuring that water is always available.

Fully 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.

Portable System

Access on the top of the system gives the option to fill the reservoir with pre-purified water. This means that it can be moved at any time as the lab environment evolves.

Real-time TOC Monitoring

Provides complete confidence in organic purity and clear display at all times.

Flexible Dispenser

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

Simplicity

Simple to install, operate and with a quick semi-automated sanitization to minimize downtime.

Data Capture

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>PURELAB flex 3</th>
<th>PURELAB flex 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPLICATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily volume</td>
<td>&lt;10 liters</td>
<td>&lt;10 liters</td>
</tr>
<tr>
<td>Dispense Flowrate</td>
<td>Up to 2.0 l/min</td>
<td>Up to 2.0 l/min</td>
</tr>
<tr>
<td>Reverse osmosis make up flow rate at 15°C</td>
<td>10 l/hour</td>
<td>N/A</td>
</tr>
<tr>
<td>Inorganics @25°C</td>
<td>18.2 MΩ.cm</td>
<td>18.2 MΩ.cm</td>
</tr>
<tr>
<td>Total organic carbon (TOC)</td>
<td>&lt;5 ppb</td>
<td>&lt;5 ppb*</td>
</tr>
<tr>
<td>Bacteria</td>
<td>&lt;0.001 CFU/ml◊</td>
<td>&lt;0.001 CFU/ml◊</td>
</tr>
<tr>
<td>Bacterial Endotoxin</td>
<td>&lt;0.001 EU/ml‡</td>
<td>&lt;0.001 EU/ml‡</td>
</tr>
<tr>
<td>RNase</td>
<td>&lt;1 pg/ml</td>
<td>&lt;1 pg/ml</td>
</tr>
<tr>
<td>DNase</td>
<td>&lt;5 pg/ml</td>
<td>&lt;5 pg/ml</td>
</tr>
<tr>
<td>* Dependant on feed water  ◊ With C134/145/197 POU filter/Biofilter ‡ With LC197 Biofilter</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Potable tap water</td>
<td>Originally from potable supply, then pretreated. Preferably reverse osmosis (RO) or filtered service deionization (SDI) or distilled.</td>
</tr>
<tr>
<td><strong>Fouling index (max)</strong></td>
<td>&lt;10</td>
<td>&lt;1</td>
</tr>
<tr>
<td><strong>Free Chlorine</strong></td>
<td>&lt;0.5 ppm max</td>
<td>&lt;0.05 ppm max</td>
</tr>
<tr>
<td><strong>TOC</strong></td>
<td>&lt;2 ppm</td>
<td>&lt;50 ppb recommended</td>
</tr>
<tr>
<td><strong>Carbon dioxide</strong></td>
<td>&lt;30 ppm (recommended &lt;20 ppm)</td>
<td>&lt;2 ppm</td>
</tr>
<tr>
<td><strong>Silica (recommended max)</strong></td>
<td>&lt;30 ppm</td>
<td>&lt;2 ppm</td>
</tr>
<tr>
<td><strong>Particulates</strong></td>
<td>5-10µm</td>
<td>5-10µm</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>4-40°C (Recommend 10-15°C)</td>
<td>4-40°C (Recommend 10-15°C)</td>
</tr>
<tr>
<td><strong>Flowrate (maximum requirement)</strong></td>
<td>Up to 75 l/hr (20 USG)</td>
<td>Up to 75 l/hr (20 USG)</td>
</tr>
<tr>
<td><strong>Drain requirements</strong></td>
<td>&lt;90 l/hr (23 USG)</td>
<td>&lt;70 l/hr (18 USG)</td>
</tr>
<tr>
<td><strong>Feedwater pressure</strong></td>
<td>6 bar (90 psi) max; 2 bar (30 psi) min</td>
<td>6 bar (90 psi) max; 0.07 bar (1 psi) min</td>
</tr>
<tr>
<td>* Fit LA652 Pressure Regulator where feedwater pressure exceeds specified limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height 900-1020mm, Width 236mm, Depth 470mm</td>
<td>Height 900-1020mm, Width 236mm, Depth 470mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>23 kg (57.3 lbs)</td>
<td>23 kg (57.3 lbs)</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Bench / wall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PURELAB Chorus 1</td>
<td>PURELAB Chorus 2 &amp; 3</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td></td>
<td>Life Science</td>
<td>Analytical Research</td>
</tr>
<tr>
<td><strong>Water Type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrapure Type I</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Pure Type II</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>RO Type III</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Impurities to remove</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nucleases</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Endotoxins / Pyrogens</td>
<td>✓</td>
<td>✓ ◊</td>
</tr>
<tr>
<td>Inorganics</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Organics</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Bacteria</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Particulates</td>
<td>✓</td>
<td>✓ ∆</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PureSure®</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Real time TOC monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Potable tap water</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Wall mounting</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Floor mounting</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Purity monitoring to POU</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Halo Dispense compatible</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Auto Volume Dispense</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Variable flow rate dispense</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Drop-by-drop control</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Locked dispense</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>USB connection</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Full product validation</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*With DI cartridge " No DI cartridge ◊ With LC197 POU filter " With LC134/145 POU filter ~ 0.2mm † When fitted with a Halo dispenser solution
## Find your product

<table>
<thead>
<tr>
<th></th>
<th>PURELAB Chorus 1</th>
<th>PURELAB Chorus 2 &amp; 3</th>
<th>PURELAB flex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Life-Science</td>
<td>General Science</td>
<td>Complete</td>
</tr>
<tr>
<td>Ideal solution for</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systems also have wider applicability. Speak to your local ELGA specialist for further information.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell culture</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Liquid Chromatography (HPLC, UHPLC)</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Microbiological Analysis</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Genetic (PCR, DNA/RNA sequencing, DNA, Nucleic acid)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Chromatography</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Electrochemistry</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Immunochemistry</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atomic Spectroscopy (Flame AA, GFAA, ICP-AE)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mass Spectrometry (ICP-MS, GC-MS, LC-MS)</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>General lab water requirement (glassware washing, heating baths, autoclave filling)</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Spectrophotometry (inc. UV, IR, nearUV, nearIR)</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Feed to ultrapure water system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Media / buffer preparation (inc pH solution)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General chemistry (inc Titrimetry)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### PURELAB Chorus 1

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1ANXM2</td>
<td>PURELAB Chorus 1 Analytic Research Ultrapure System</td>
</tr>
<tr>
<td>PC1LSCXM2</td>
<td>PURELAB Chorus 1 Life Science Ultrapure System</td>
</tr>
<tr>
<td>PC1GSCXM2</td>
<td>PURELAB Chorus 1 General Science Ultrapure System</td>
</tr>
</tbody>
</table>


### PURELAB Chorus 1 Complete

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC10CXXXM1</td>
<td>PURELAB Chorus 1 Complete 10 l/hr System</td>
</tr>
<tr>
<td>PC10CBPXM1</td>
<td>PURELAB Chorus 1 Complete 10 l/hr System with Boost Pump</td>
</tr>
<tr>
<td>PC12CXXXM1</td>
<td>PURELAB Chorus 1 Complete 20 l/hr System</td>
</tr>
<tr>
<td>PC12CBPXM1</td>
<td>PURELAB Chorus 1 Complete 20 l/hr System with Boost Pump</td>
</tr>
</tbody>
</table>

**Unit is supplied as standard with:** Fitted / Included: Appropriate quantity LC240, 1 x LC241, 1 x LC243, 1 x LC277, 1 x LC285, 1 x LC238, MANU40932 Operator Manual, GUID39864 Light Guide, LA762 Basic installation Kit.

### PURELAB Chorus 2+ RO/EDI/UV

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC20EUXXM1</td>
<td>PURELAB Chorus 2+ RO/EDI/UV 20 l/hr System</td>
</tr>
<tr>
<td>PC20EBPXM1</td>
<td>PURELAB Chorus 2+ RO/EDI/UV 20 l/hr System with Boost Pump</td>
</tr>
</tbody>
</table>

**Unit is supplied as standard with:** Fitted / Included: Appropriate quantity LC240, 1 x LC241, 1 x LC243, 1 x LC277, 1 x LC285, 1 x LC238, MANU40932 Operator Manual, GUID39864 Light Guide, LA762 Basic installation Kit.

### PURELAB Chorus 2+ RO/DI/UV

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC20DIXXM3</td>
<td>PURELAB Chorus 2+ RO/DI 10 l/hr System</td>
</tr>
<tr>
<td>PC20DIBPXM3</td>
<td>PURELAB Chorus 2+ RO/DI 10 l/hr System with Boost Pump</td>
</tr>
</tbody>
</table>

**Unit is supplied as standard with:** Fitted / Included: Appropriate quantity LC240 RO, 1 x LC241, 1 x LC243, GUID39864 Light Guide, GUID40004 Quick Reference Guide, INST40008 Quick Start Guide, LA762 basic installation kit, LC233 bypass block.

### PURELAB Chorus 3

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>RO30XXM3</td>
<td>PURELAB Chorus 3 RO 10 l/hr</td>
</tr>
<tr>
<td>RO30BPM3</td>
<td>PURELAB Chorus 3 RO 10 l/hr with Boost Pump</td>
</tr>
<tr>
<td>RO32XXM3</td>
<td>PURELAB Chorus 3 RO 20 l/hr</td>
</tr>
<tr>
<td>RO32BPM3</td>
<td>PURELAB Chorus 3 RO 20 l/hr with Boost Pump</td>
</tr>
<tr>
<td>RO310XXM3</td>
<td>PURELAB Chorus 3 RO 30 l/hr</td>
</tr>
<tr>
<td>RO310BPM3</td>
<td>PURELAB Chorus 3 RO 30 l/hr with Boost Pump</td>
</tr>
</tbody>
</table>


### PURELAB Chorus Reservoirs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>LA754</td>
<td>Halo Dispenser</td>
</tr>
<tr>
<td>LA755</td>
<td>Advanced Halo Dispenser</td>
</tr>
<tr>
<td>LA56</td>
<td>Flexible Dispenser</td>
</tr>
</tbody>
</table>


### PURELAB flex

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF1XXXXM1</td>
<td>PURELAB flex 1 (optional Purification Pack)</td>
</tr>
<tr>
<td>PF2XXXXM1</td>
<td>PURELAB flex 2 (Purification Pack + UV + TOC)</td>
</tr>
<tr>
<td>PF3XXXXM1</td>
<td>PURELAB flex 3</td>
</tr>
<tr>
<td>PF4XXXXM1</td>
<td>PURELAB flex 4</td>
</tr>
<tr>
<td>PF5XXXXM1</td>
<td>PURELAB flex 5</td>
</tr>
<tr>
<td>PF6XXXXM1</td>
<td>PURELAB flex 6</td>
</tr>
</tbody>
</table>

**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 & 5: 3 x LC217, 1 x LC210, 1 x LC216, Flex 4 & 6: 1 x LC210, 1 x LC216.
The LabWater Specialists

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The ELGA team focuses exclusively on water and its purification. It continually contributes to the unique technical and scientific applications and expertise developed for over 80 years. We are experienced in meeting the challenges that arise during the development, installation and servicing of single point-of-use water purification systems as well as large projects involving consultation with architects, consultants and clients.

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The ELGA 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 throughout their lifetime and we make this information available to our customers and partners.

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Contact us:

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