

Uninterrupted Discovery

The Purelab® Range

The laboratory water purification solutions for your research needs.



The PURELAB[®] flex Range



flex 1



flex 2



flex 3

*ACT Ecolabel certified



flex 3+



*Improved Performance.
Less Environmental Impact.*

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 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 M Ω .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

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

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%*.

The flex 3 product carries the ACT Ecolabel certification, offering transparent environmental performance scores across manufacturing, packaging, and more.

*Compared to previous generation PURELAB Flex 3.

Data Capture

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



my green lab.
ACT Ecolabel



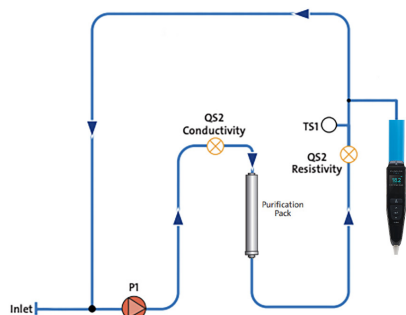
Independently audited and third-party verified across consistent and transparent environmental metrics, including an energy usage of 0.2 kWh/day, and assembled in a facility using 100% renewable electricity.

See specification on page 49

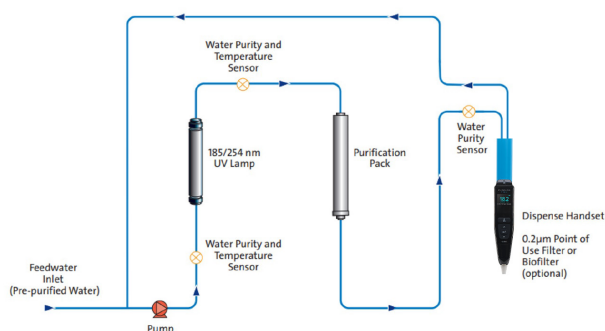
flex 1 & 2



Process Flow PURELAB flex 1



Process Flow PURELAB flex 2



TREATED WATER SPECIFICATIONS

Application	PURELAB Flex 1	PURELAB Flex 1 (with purification pack)	PURELAB flex 2
Dispense Flowrate	Up to 2.0 l/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 ₁
Bacteria	<0.1 CFU/ml ⁰	<0.1 CFU/ml ⁰	<0.001 CFU/ml ⁰¹
Bacterial Endotoxin	N/A	<0.001 EU/ml ¹	<0.001 EU/ml ¹
RNase	N/A	N/A	<1 pg/ml
DNase	N/A	N/A	<5 pg/ml

⁰ With C134/145/197 POU filter/Biofilter ¹ With LC197 Biofilter ¹ Dependent on feedwater

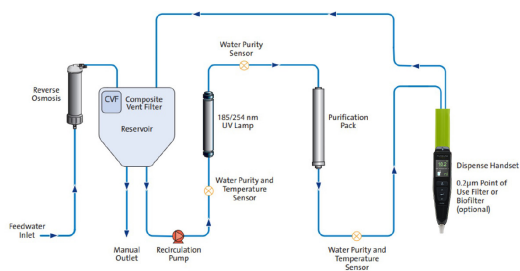
FEEDWATER REQUIREMENT

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		

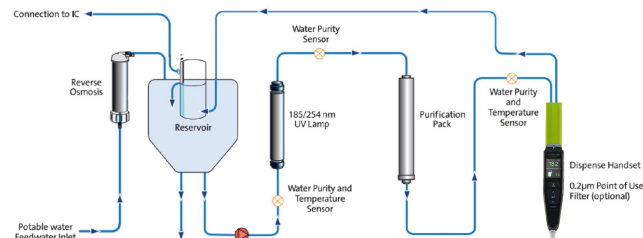
flex 3 & 3+



Process Flow PURELAB flex 3



Process Flow PURELAB flex 3+



TREATED WATER SPECIFICATIONS

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 l/hour
Inorganics @25°C	18.2 MΩ.cm
Total organic carbon (TOC)	<5 ppb
Bacteria	<0.001 CFU/ml ^o
Bacterial Endotoxin	<0.001 EU/ml ¹
RNase	<1 pg/ml
DNase	<5 pg/ml

* Dependant on feed water ^o With LC134/145/197 POU filter/Biofilter ¹ With LC197 Biofilter

Source	Potable tap water
Fouling index (max)	<10
Free Chlorine	< 0.05 ppm max
TOC	<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 l/hr (20 USG)
Drain requirements	<90 l/hr (23 USG)
Feedwater pressure*	6 bar (90 psi) max; 2 bar (30 psi) min

* 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

FEEDWATER REQUIREMENT

TREATED WATER SPECIFICATIONS

Application	PURELAB Flex 3+
Daily volume	<10 Litres
Delivery flow rate - maximum	Up to 2.0 l/min
Recirculation flow rate	1 l/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 (when fitted with POU filter)	<0.001 CFU/ml ^o
Endotoxin	<0.001 EU/ml ¹
DNase	<5 pg/ml
RNase	<1 pg/ml

* Dependant on feed water ^o With LC134,145/197 POU filter/biofilter ¹ With LC197 Biofilter

Source	Potable tap water
Conductivity	<2000 µS/cm ²
Hardness	<350 ppm as CaCO ₃
Free Chlorine	<0.05 ppm Cl ₂
Silica	<30 ppm SiO ₂
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 l/hr
Drain requirements (gravity fall with air gap)	>90L/hr

² Purification pack life may vary with feedwaters >1400 µS/cm

FEEDWATER REQUIREMENT

Find your product



	Chorus 1				Chorus 2 & 3				flex				Quest	
	Life Science	Analytical Research	1 Complete with TOC	Pharma Compliance	2+ (RO/EDI/UV)	2+ (RO/DI/UV)	2 (RO/DI)	3 (RO)	flex 1	flex 2	flex 3	flex 3+	Quest UV	Quest Non UV
Water Type														
Ultrapure Type I	✓	✓	✓	✓					✓ [#]	✓	✓	✓	✓	✓
Pure Type II			✓		✓	✓	✓		✓ [*]		✓	✓	✓	✓
RO Type III									✓ [*]				✓	✓
Impurities to remove														
Nucleases	✓	✓	✓	✓	✓	✓				✓ [◇]	✓	✓	✓	
Endotoxins/Pyrogens	✓	✓ [◇]	✓ [◇]	✓ [~]	✓ [◇]	✓ [◇]			✓ [#]		✓ [◇]	✓ [~]	✓ [~]	✓ [~]
Inorganics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bacteria	✓	✓	✓	✓	✓	✓	✓	✓	✓ ^Δ	✓	✓	✓	✓	✓ [~]
Particulates	✓	✓	✓	✓	✓	✓	✓	✓	✓ ^Δ	✓ ^Δ	✓ [~]	✓	✓	✓ [~]
Features														
PureSure®	✓	✓		✓										
Real time TOC monitoring	✓	✓	✓	✓						✓	✓	✓		
Potable tap water			✓		✓	✓	✓	✓			✓	✓	✓	✓
Wall mounting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Floor mounting	✓	✓	✓	✓	✓	✓	✓	✓						
Purity monitoring to POU	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
Halo Dispense compatible	✓	✓	✓	✓	✓	✓								
Remote Dispense Compatible	✓	✓	✓	✓	✓	✓							✓	✓
Auto Volume Dispense	✓ [†]	✓ [†]	✓ [†]	✓	✓ [†]	✓ [†]			✓	✓	✓	✓	✓	✓
Variable flow rate dispense	✓ [†]	✓ [†]	✓ [†]	✓	✓ [†]	✓ [†]			✓	✓	✓	✓		
Drop-by-drop control	✓ [†]	✓ [†]	✓ [†]	✓	✓ [†]	✓ [†]			✓	✓	✓	✓		
Locked dispense	✓ [†]	✓ [†]	✓ [†]	✓	✓ [†]	✓ [†]			✓	✓	✓	✓	✓	✓
USB connection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Full product validation*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Hg free	✓ ^{***}	✓ ^{***}												

With DI cartridge * No DI cartridge ◇ With LC197 POU filter Δ With LC134/145 POU filter ~ 0.2mm

† When fitted with a Halo dispenser solution

** Full product validation needs to be purchased separately. ✓

*** Dependent on model

Find your product



	Chorus 1				Chorus 2 & 3				PURELAB flex				Quest	
	Life Science	Analytical Research	1 Complete with TOC	Pharma Compliance	2+ (RO/EDI/UV)	2+ (RO/DI/UV)	2 (RO/DI)	3 (RO)	flex 1	flex 2	flex 3	flex 3+	Quest	
													UV	Non UV
Ideal solution for Systems also have wider applicability. Speak to your local ELGA specialist for further information.														
Cell culture	✓		✓							✓ ^Δ	✓ ^Δ	✓ [~]	✓ [~]	✓ [~]
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 Part Number	Description
PQDIXXM1	PURELAB Quest with starter pack
PQDIUVM1	PURELAB Quest UV with starter pack



PURELAB flex 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+



PURELAB Chorus 1 Part Number	Description
PC1ANRXM2	PURELAB Chorus 1 Analytical Research Ultrapure System
PC1ANRXM2-XE	PURELAB Chorus 1 Analytical Research Ultrapure System - Xenon UV
PC1LSCXM2	PURELAB Chorus 1 Life Science Ultrapure System
PC1LSCXM2-XE	PURELAB Chorus 1 Life Science Ultrapure System - Xenon UV



PURELAB Chorus 1 Complete Part Number	Description
PC120COBPM1-TOC	PURELAB Chorus 1 Complete with TOC (20L/hr with Boost Pump)



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	1x Halo, 2x Dispenser
VCLSDM1-D3	PURELAB Pharma Compliance with 3x Dispenser	1x Halo, 3x Dispenser



PURELAB Chorus 2+ RO/EDI/UV Part Number	Description
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
PC220EUBPM1	PURELAB Chorus 2+ RO/EDI/UV 20 l/hr System with Boost Pump



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
PC220DUBPM1	PURELAB Chorus 2+ RO/DI/UV 20 l/hr System with Boost Pump



PURELAB Chorus 2 RO/DI 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
PC220DIBPM3	PURELAB Chorus 2 RO/DI 20 l/hr System with Boost Pump



Product Part Numbers

PURELAB Chorus 3	
Part Number	Description
RO310XXM3	PURELAB Chorus 3 RO 10 l/hr
RO310BPM3	PURELAB Chorus 3 RO 10 l/hr with Boost Pump
RO320BPM3	PURELAB Chorus 3 RO 20 l/hr with Boost Pump
RO330BPM3	PURELAB Chorus 3 RO 30 l/hr with Boost Pump



PURELAB Chorus Reservoirs	
Part Number	Description
LA757	15 Litre Reservoir
LA758	30 Litre Reservoir
LA759	60 Litre Reservoir
LA760	100 Litre Reservoir



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



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





**Veolia
Labwater Solutions**

Global Operations Centre.

tel: +44 (0) 203 567 7300

fax: +44 (0) 203 567 7205

info@elgalabwater.com

www.elgalabwater.com