

PURELAB® Chorus 1 Xe

Technical Sales Document



PURELAB® Chorus 1 Unit

Chorus 1 Front with Dimensions



		Product Dimensions		Packaging Dimensions	
		Metric	Imperial	Metric	Imperial
Height		435mm	17.1 inches	70cm	27.6 inches
Width		375mm	14.8 inches	65cm	25.6 inches
Depth		340mm	13.4 inches	51cm	20.1 inches
Weight	PC1LSCXM2	17kg*	37.5 lb*	20kg	44.1lb
	PC1LSCXM2-XE	17kg*	37.5 lb*	20kg	44.1lb
	PC1ANRXM2	17kg*	37.5 lb*	20kg	44.1lb
	PC1ANRXM2-XE	17kg*	37.5 lb*	20kg	44.1lb

*Dry weight



Water Specification

	PURELAB Chorus 1 Life Science	PURELAB Chorus 1 Analytical Research
Resistivity (MΩ.cm)	18.2	18.2
TOC (ppbC)	1 - 3	1 - 3
Bacteria (CFU/ml)	< 0.001*	< 0.001*
Endotoxins (EU/ml)	< 0.001	< 0.001**
DNase (pg/ml)	< 5	< 5
RNase (pg/ml)	< 1	< 1
Flow rate (l/min)	2	2

Please look at the PURELAB Chorus 1 Performance Data Sheets for more specification

* With LC134/145/197 POU filter/Biofilter ** With LC197 Biofilter. Specifications dependent on feedwater.

Feedwater

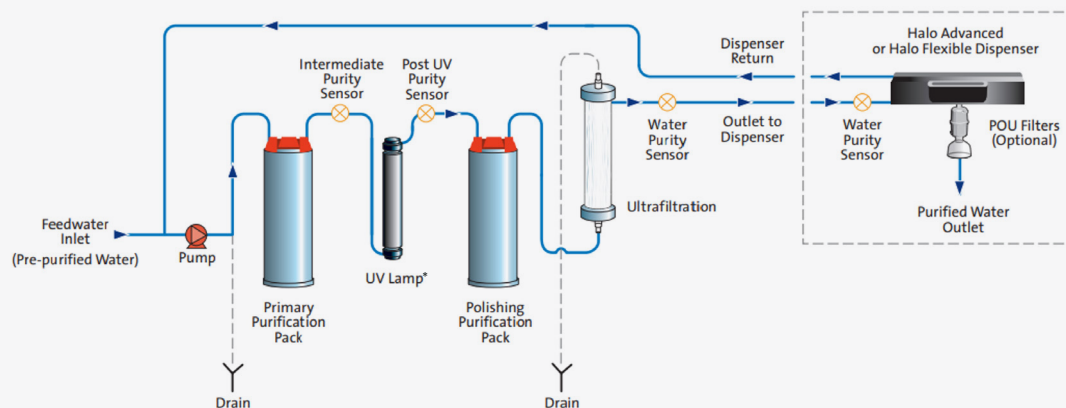
Source Quality	RO, DI or SDI
Fouling Index - Maximum	< 1
Conductivity (RO/SDI)	< 30 / < 1 µS/ cm
TOC/Organics (typical)	< 50 ppb
Free/total Chlorine - Maximum	0.05 ppm
Chloramine - Maximum	0.05 ppm
Silica-Maximum	2 ppm
Temperature	1 - 35°C
Flow Rate (max requirement @ 15°C)	130 L/h
Drain requirements	2 L/min
Maximum feed pressure	0.7 bar (10 psi)
Minimum feed pressure	0.07 bar (1psi)

Flow Diagrams

PURELAB Chorus 1 flow diagrams for both Life Science and Analytical Research use cases.

PURELAB® Chorus 1

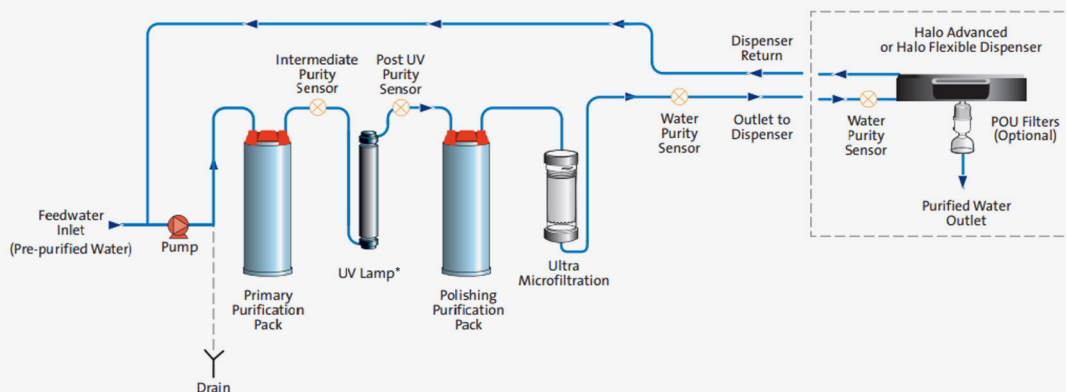
Life Science



*Optionally with Hg or Hg-free (Xe) UV technology.

PURELAB® Chorus 1

Analytical Research

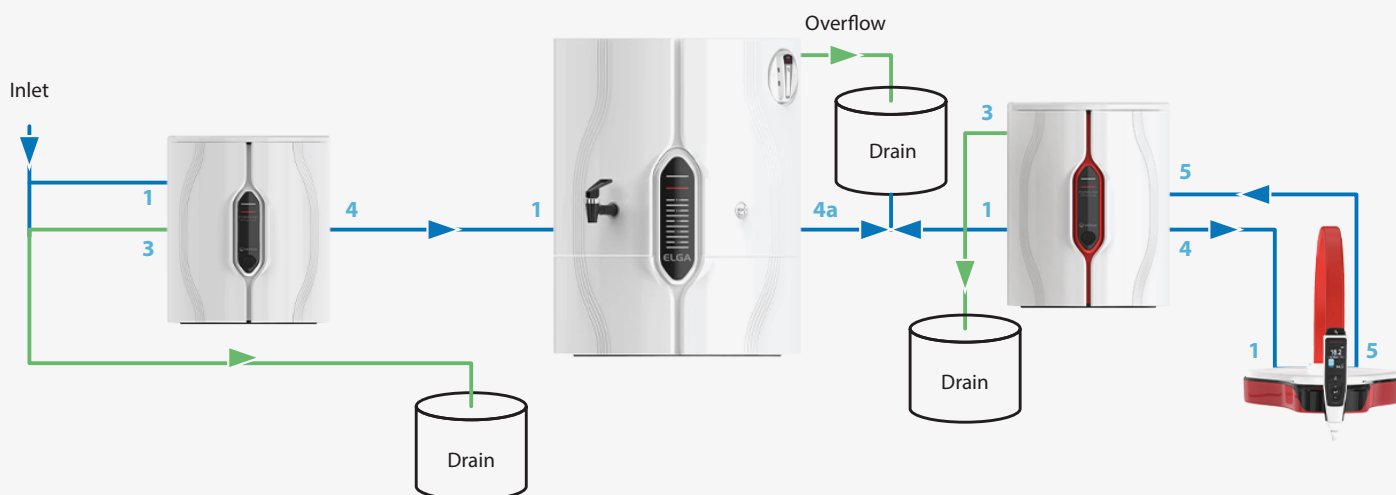


*Optionally with Hg or Hg-free (Xe) UV technology.

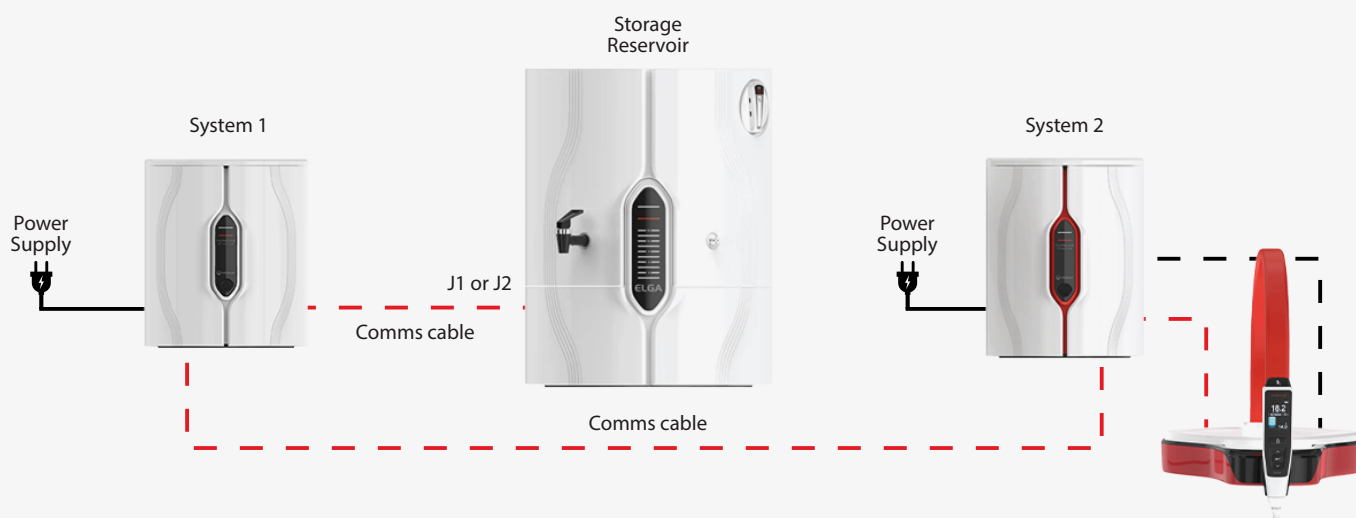
Example Standard Configuration:

PURELAB Chorus 1 Range with remote Halo Flexible Dispenser,
Connected to Chorus 3 (RO) or Chorus 2 (RO/DI)

Hydraulic / Water Connections



Electrical Connections



Further information regarding alternative configurations, communication and power connections, and required parts can be found in Part 10 - PURELAB Chorus 1 in PAF0076 - 13.

What's in the Box?



Standard (PC1ANRXM2, PC1LSCXM2):

- Installation Kit (LA762)
- Unit pre-installed with LC210, LC109/LC151* and LC233
- Purification Packs (2 x LC232)

*Dependent on model.

Hg-free (PC1ANRXM2-XE, PC1LSCXM2-XE):

- Installation Kit (LA762)
- Unit pre-installed with LC326, LC109/LC151* and LC233
- Purification Packs (2 x LC232)

*Dependent on model.

Accessories

Required:

PURELAB Remote Dispenser or Halo Dispenser

Power Supply

Optional:

Additional 3 Remote / Halo Dispensers

Optional:

POU filter

Foot switch*

Pressure Regulator

Wall Mounting Kit

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

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
- Profile dispense
- Locked dispense
- Hands free
- Hand-held dispensing

Halo Glow*

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

* Only with Halo dispensers

			
Halo Dispenser:	Halo Advanced Dispenser:	Halo Flexible Dispenser:	Halo Remote Dispenser:
Fixed	Fixed	Flexible	Flexible
- Variable flow rate - Drop-by-drop control - Locked dispense			
- Purity monitoring to point-of-use - Auto volume dispensing - Profile dispense			
- Flexible handset			

Consumable Options

PURELAB Chorus 1 - LC232 Purification Pack (RO Feed)

For when feedwater is General Grade RO (Type III) such as Purelab Chorus 3 or distribution loop. LC232 has media optimised (extra anion resin) giving higher capacity when CO₂ is present in the feedwater.

PURELAB Chorus 1 - LC244 Purification Pack (SDI Feed)

For when feedwater is SDI (Service Deionization). LC244 has a 0.2µm pre-filter fitted, and media optimised (with the greatest level of activated carbon) to protect against organic contamination.

PURELAB Chorus 1 - LC245 Purification Pack (Low Ionic)

For when feedwater is a filtered DI distribution loop or reservoir with recirculation maintaining a purity >1MΩ-cm. LC245 has a 0.2µm pre-filter fitted, and media optimised in the purification pack to give higher capacity for low CO₂ feed (<5ppm).

PURELAB Chorus 1 - LC246 Purification Pack (Low TOC)

For when feedwater is a filtered DI distribution loop or reservoir with recirculation maintaining a purity >1MΩ-cm. LC246 has media optimised (with activated carbon) to remove any organic material released by the resin.

PURELAB Chorus 1 - LC210 Hg UV Lamp

Dual wavelength 185 nm and 254 nm Hg bulb.

PURELAB Chorus 1 - LC326 Xe UV Lamp

172 nm Xe bulb.



Part Codes

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

Accessories

Part Number	Description
LA754	Halo Dispenser
LA755	Halo Advanced Dispenser
LA756	Halo Flexible Dispenser
LA824	PURELAB remote Dispenser
LA652	Pressure regulator
LC233	Bypass block
LA736	BMS Kit
LA795	Wall mount
LA811	Reservoir Adapter
LA732	Foot switch

Consumables

Part Number	Description	Typical Service Life*
LC232	Purification Pack (RO Feed)	6 months
LC244	Purification Pack (SDI Feed)	6 months
LC245	Purification Pack (Low Ionic)	6 months
LC246	Purification Pack (Low TOC)	6 months
LC210	Hg UV bulb	18 months
LC326	Xe UV bulb	5 years
LC109	Microfiltration	12 months
LC151	Ultrafiltration	12 months
LC197	POU Biofilter – Endotoxin Removal	3 months
LC145 (LC134)	POU 0.2µm Microfilter with (without) adaptor	3 months
LC236	Sanitization Pack	N/A

*Under typical usage conditions

Other Useful Documents



PURELAB® Range Brochure



Technology Note 42

Performance Data Sheets



Chorus 1 Life Science



Chorus 1 Analytical Research

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