evoqua
WATER TECHNOLOGIES

PURELAB® CHORUS SYSTEMS

SOLUTIONS FOR TYPE II PURE WATER AND TYPE III GENERAL GRADE WATER

CONFIGURE YOUR SOLUTION

STEP 1: CHOOSE YOUR SYSTEM

Typical Applications	Select the Impurities You Want to Remove	INTEGRATED PURIFICATION TECHNOLOGY: Pre-treatment (Carbon & Filtration)	Reverse Osmosis (RO Cartridge)	Ion-exchange (Purification Pack)	Your Daily Water Requirements	Your System and Part Number
• Stills replacement • Buffer preparation • pH solution preparation • Washing/rinsing • All stainless steel • Autoclaves • General chemistry • Spectrophotometry • Feed to Type I & II Polisher	• **Inorganics** (e.g. calcium, magnesium, sodium, bicarbonate, sulphate) • **Organics** (e.g. pesticides, herbicides, decayed plant & animal tissues) • **Particulates** (>99% removal of anything ≥0.2µm) • **Bacteria** (<5 CFU/ml)	Yes	Yes	Yes	Up to 480 l/day (127 USG/day) Equivalent to 20 l/hour	**PURELAB® Chorus 2 (RO/DI)** Part No. W2T826799* 
• Glassware rinsing, • Heating baths • Autoclave filling • Hydroponics / plant growth • Cabinets • Steam generators, • Stability chambers • Sterilizer feed • Feed to Type I & II Polishers	• **Inorganics** (e.g. calcium, magnesium, sodium, bicarbonate, sulphate) • **Organics** (e.g. pesticides, herbicides, decayed plant & animal tissues) • **Particulates** (>99% removal of anything ≥0.2µm) • **Bacteria** (<5 CFU/ml)	Yes	Yes	No	Up to 240 l/day (63 USG/day) Equivalent to 10 l/hour	**PURELAB Chorus 3 (RO)** Part No. W2T826805* 
					Up to 480 l/day (127 USG/day) Equivalent to 20 l/hour	Part No. RO320BPM1* 
Up to four x PURELAB Chorus 2 systems can be configured for a product flow rate of 80 l/hr Up to four x PURELAB Chorus 3 systems can be configured for a product flow rate of 120 l/hr *Fitted with integral potable feed water boost pump					Up to 720 l/day (190 USG/day) Equivalent to 30 l/hour	Part No. RO330BPM1* 

STEP 2: OPTIMIZE

STEP 3: CHOOSE YOUR WATER STORAGE OPTIONS

Optimize your Running Costs	FEATURES: Configured Remotely to PURELAB® Chorus	Configured on Top of PURELAB Chorus	Configured Underneath PURELAB Chorus	Wall mounting	Floor mounting	Dispense tap (1 supplied, 2nd tap optional)	15mm OD connection Max outlet flow 7 l/min (2 USG)	Working Volume and Part Number
Degassing Module Part No. LA775 CO_2 removal from the pre-purified water (post RO) increases the life of downstream consumables fitted to PURELAB Chorus 1 or 2 Recommended when the CO_2 present in the feedwater is ≥ the conductivity of the pre-purified water (post RO) Technology Note TN034	Yes	Yes	Yes	Yes Part No. W2T826838	Yes	Yes Part No. TAPS 39993	Yes	**15 liter (4 USG)** Part No. W2T826827 
High Recovery Kit Part No. LA765 Recommended in areas where water hardness <25ppm, feeding directly to your application. Technology Note TN035	Yes	Yes	Yes	Yes Part No. W2T826838	Yes	Yes Part No. TAPS 39993	Yes	**30 liter (8 USG)** Part No. W2T826803 
To download Technology Notes, please visit www.evoqua.com	Yes	No	Yes	60 liter Yes Part No. W2T826870 100 liter No	Yes	Yes Part No. TAPS 39993	Yes	**60 liter (16 USG)** Part No. W2T826828 **100 liter (26USG)** Part No. W2T832886 

STEP 4: CHOOSE THE CONFIGURATION THAT SUITS YOUR LABORATORY

Wall Mounted

PURELAB® Chorus 2 or 3

Configured next to storage reservoir

PURELAB Chorus 2 or 3

With 15 or 30 liter reservoir
configured on top
(floor, bench or wall mounted)

PURELAB Chorus 2 or 3

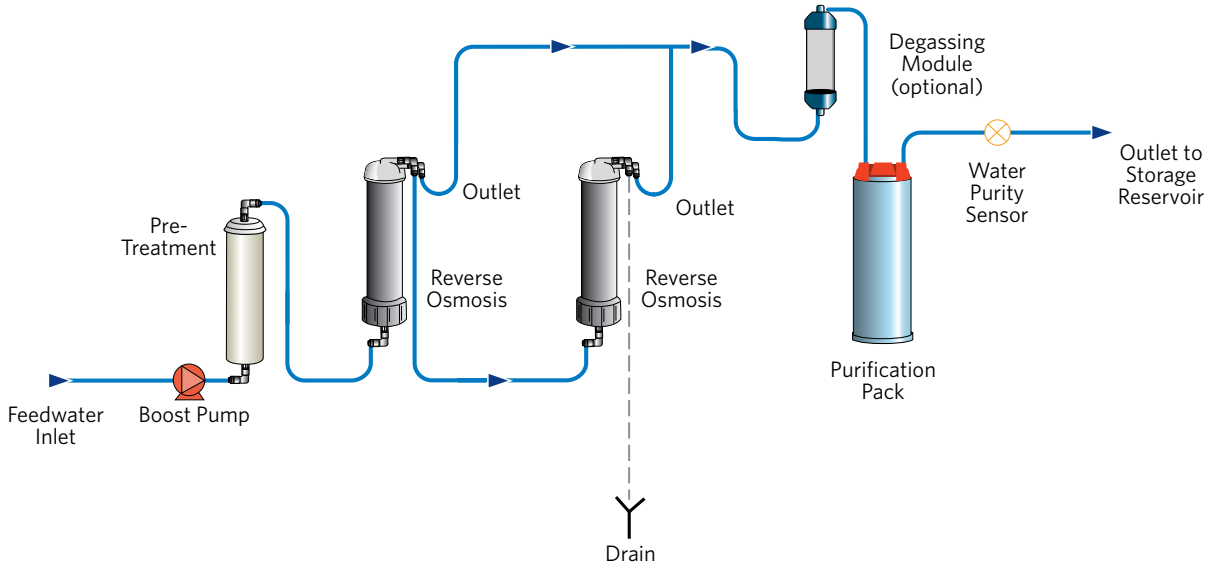
With 60 liter reservoir
configured underneath
(floor, bench or wall mounted)

2 x PURELAB Chorus 3

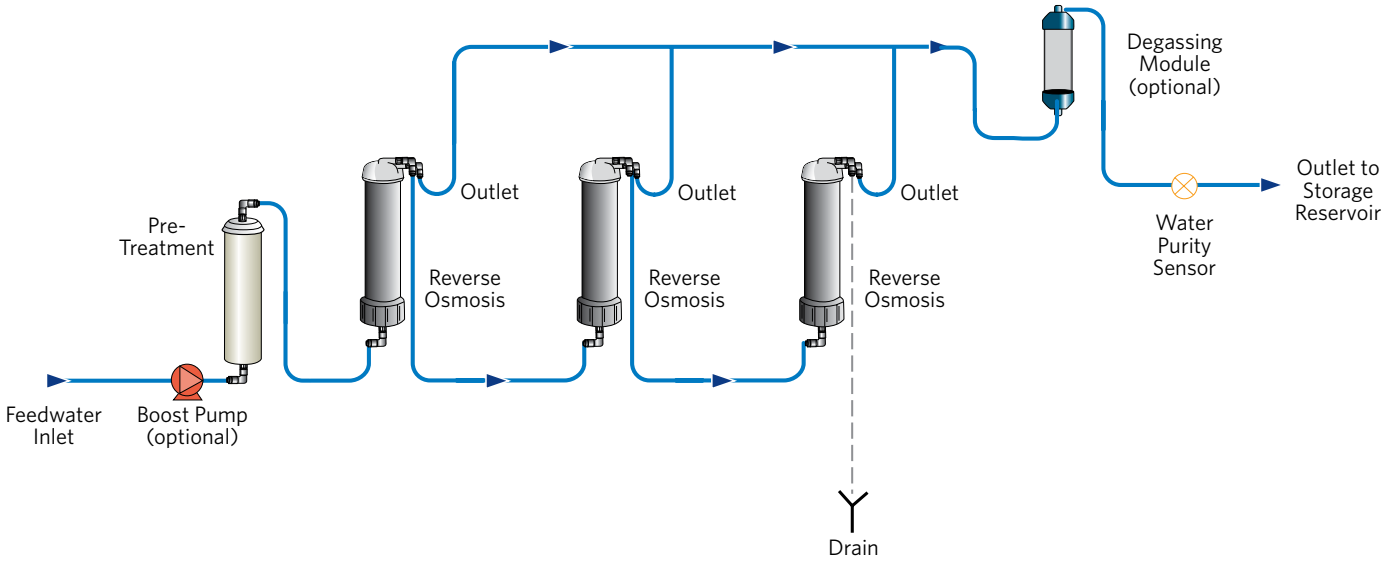
Configured together
(floor, bench or wall mounted)

WHAT'S INSIDE?

PURELAB® Chorus 2 (RO/DI) – Pure Water for General Laboratory Applications



PURELAB Chorus 3 (RO) – General Grade Water for Laboratory Applications



TREATED WATER SPECIFICATIONS

Model	PURELAB® Chorus 2 (RO/DI)	PURELAB Chorus 3 (RO)		
Nominal output (max)	20 l/hr	10 l/hr	20 l/hr	30 l/hr
Nominal daily output (max)	480 l/24 hour day [1]	240	480	720
		l/24 hour day [1]	l/24 hour day [1]	l/24 hour day [1]
Inorganics @ 25°C	1 to >10 MΩ-cm	>95% rejection		
Organics (MW>200 Dalton)	>99% rejection	>99% rejection		
Total organic carbon (TOC)	<30 ppb [2]	<50 ppb [2]		
Bacteria	<5 CFU/ml [2]	<5 CFU/ml [2]		
pH	Effectively neutral	Effectively neutral		
Particles	>99% rejection	>99% rejection		
Purification pack capacity	Liters to 1MΩ-cm = 90,000/(µS/cm + (2.3 x ppm CO^2)	–		

[1] Standard conditions are 4 bar (58 psi) inlet pressure at 15 degree C (59 deg. F), fed with potable water and a clean pre-treatment cartridge. Refer to flow tables outside these conditions. [2] Subject to correct operating and maintenance procedures.

DIMENSIONS AND WEIGHTS

Dimensions	Height minimum 435mm (17.1 "), Width 375mm (15"), Depth 340mm (13.5")			
Weight with internal boost pump	20kg (44lb)	17kg (37lb)	18kg (40lb)	19kg (42lb)

FEEDWATER REQUIREMENT

Model	PURELAB® Chorus 2 (RO/DI)	PURELAB Chorus 3 (RO)
Source – originally from potable supply, then pre-treated	Potable mains water supply	
Fouling index (max)	10	
Conductivity	<2000 µS/cm [3]	
Free Chlorine (max)	0.5 ppm	
Heavy Metals (max)	0.05 ppm	
Silica	30 ppm	
Temperature	1 - 35°C	
Flow rate (maximum requirement)	100 l/hr (27 USG)	100 l/hr (27 USG)
Drain requirements (gravity fall with air gap) Maximum during service	80 l/hr (21 USG)	80 l/hr (21 USG)
Feedwater pressure		
Maximum – with internal boost pump	2.0 bar (30 psi) [4]	
Minimum – with internal boost pump	0.5 bar (7.5 psi)	

[3] Deionization cartridge life may vary with feedwaters >1400 µS/cm. [4] Fit LA652 Regulator where feedwater pressure exceeds specified limits.

ELECTRICAL REQUIREMENTS

Mains Input	100 - 240V AC, 50 - 60Hz all models
System voltage	24V DC
Power consumption during peak demand	60VA
Noise level	<45 dBA

RESERVOIR DIMENSIONS

W2T826827 - 15ltr Storage Reservoir	Height 470mm, Width 376mm, Depth 340mm
W2T826803 - 30ltr Storage Reservoir	Height 660mm, Width 376mm, Depth 340mm
W2T826828 - 60ltr Storage Reservoir	Height 570mm, Width 532mm, Depth 522mm
W2T832886 - 100ltr Storage Reservoir	Height 806mm, Width 532mm, Depth 523mm

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