

CENTRA

CENTRALIZED WATER

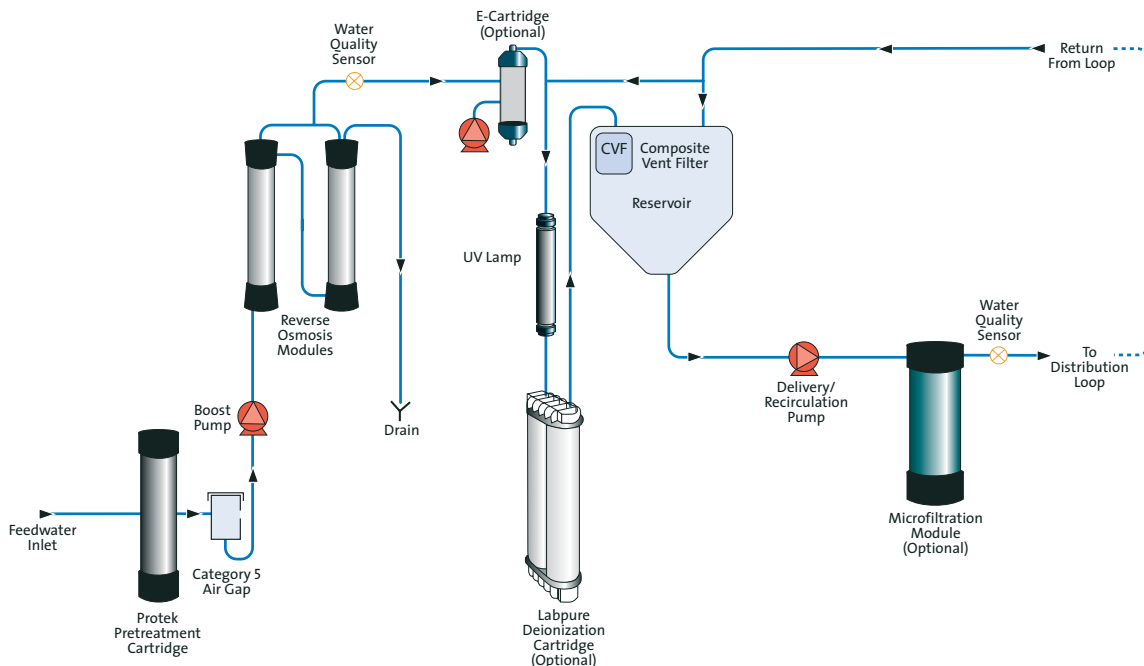


CENTRA[®] - R120

The CENTRA has revolutionised the way that pure water is produced, stored and distributed. Instead of a traditionally engineered central lab system, comprising of an untidy grouping of components and pipework, you can now have just one integrated system box. The CENTRA-R120 is a complete water purification, storage, control and distribution system delivering up to 120 liters per hour of water which has been purified using reverse osmosis, UV photo-oxidization, optional deionization and 0.2 µm filtration.

- The compact design provides flexible installation options for new buildings and refurbishments. The CENTRA's very small footprint means that it can be placed close to the work areas, avoiding the negative cost and design implications of unnecessarily long pipe work
- Reliable, continual supply of pure water using unique access controls, leak detection systems and full AV alarms with optional building management system (BMS) connectivity
- Optimized water purity through use of in-line UV oxidation, deionization and 0.2 µm filtration
- Fast and easy sanitization ensures that optimum purity is maintained throughout the life of the product

Process Flow CENTRA - R120



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Treated Water Specifications

Model	CENTRA-R 120
Make-up rate @15°C	120 l/hr
Delivery flowrate - maximum	10 l/min @ 22 psi (1-5 bar)
Inorganics (resistivity@ 25°C)	>10 MΩ-cm
Organics (TOC) - typical	<20 ppb ¹
Bacteria - typical	<1 CFU/1ml ¹
Particles	0.2 µm filter ¹

¹Specifications for CENTRA fitted with UV and optional deionization cartridge and microfilter.

Without the deionization cartridge the CENTRA will provide RO, permeate-grade III water with greater than 95% rejections of organics. TVC levels will typically be less than 5 CFU/ml and TOC less than 100 ppb. With the microfilter TVC will fall typically to less than 1 CFU/ml and there will be particle removal to 0.2 µm. Specifications are for a system fed with a suitable water supply and installed, operated and sanitized according to the operator manuals

Dimensions and weights

Dimensions	Height 820mm (32.8in), 834mm (33.4in) including castors, Width 794mm (31.8in), Depth 470mm (18.8in)
Supply weight	60kg
Operational weight	117kg
Installation	Floor/bench

Feedwater Requirement

Source	Tap water as detailed below
Contaminant	
Conductivity	2000 µS/cm*
Hardness	<250 ppm as CaCO ₃
Free chlorine	<4 ppm Cl ₂
Chloramine	<1 ppm as Cl ₂
Silica	<30 ppm SiO ₂
Fouling Index	<10 FI
Iron/manganese	<0.1 ppm Fe/Mn
Organics	<3 ppm TOC
Temperature	4 - 40°C (Recommended 15 - 25°C)
Flowrate (maximum requirement @15°C)	9 l/min
Drain requirements (gravity fall with air gap)	20 l/min
Feedwater pressure	6 bar (90 psi) maximum, 2 bar (30 psi) minimum

Failure to comply with the feedwater pretreatment recommendations will affect the life and performance of key components and may invalidate the warranty.

Feedwater requirements are specified for units fitted with a Protek L2 pretreatment cartridge.

If feedwater purity is variable or values are outside any of the above ranges, additional pretreatment is recommended to be installed in the feedwater supply to the unit. If in doubt seek advice from Technical Support at ELGA LabWater.

* Deionization cartridge life may vary with feedwaters >1400 µS/cm

Electrical Requirements

Mains input	115V ac, 60Hz
System control voltage (not including pumps and UV)	24V dc
Power consumption (peak demand)	650VA
Electrical protection rating	10 amps

ELGA LabWater

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LITR38761-02US