

CENTRA

CENTRALIZED WATER

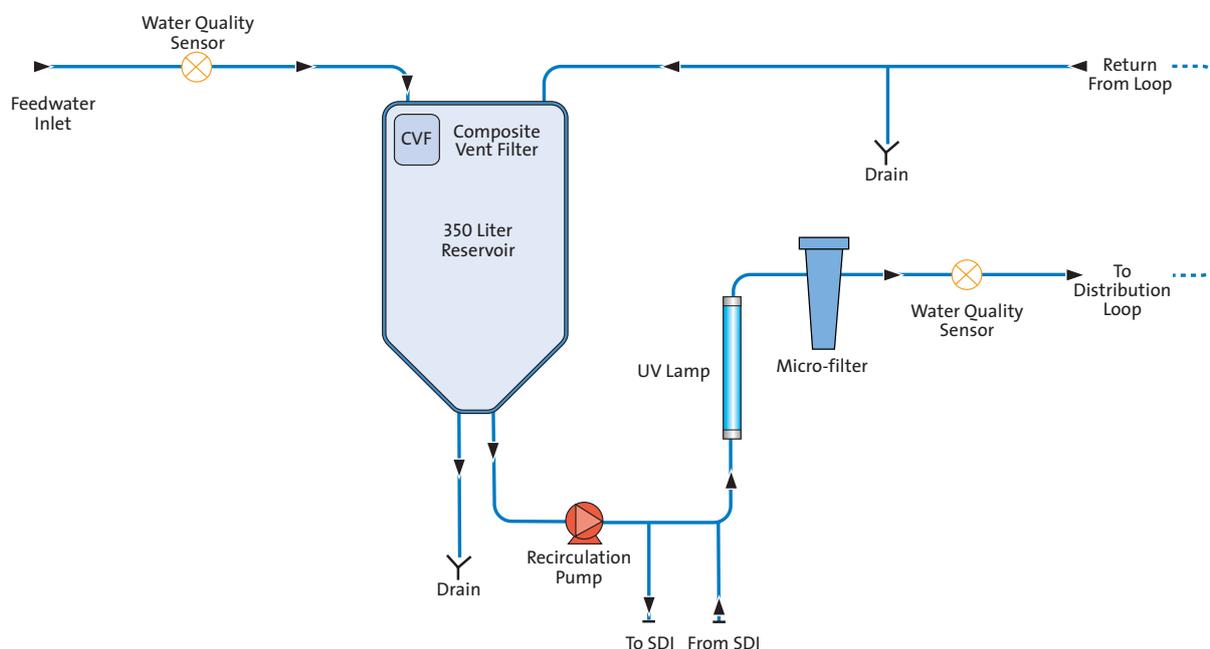


CENTRA[®]-RDS

The CENTRA has revolutionised the way that large volumes of pure water are produced, stored and distributed. Instead of a central lab system, comprising of an untidy grouping of components and pipework, you can now have just one integrated system box. The CENTRA-RDS is a storage and recirculating distribution system designed to work with other CENTRA or PURELAB systems or existing purification installations. In addition to storing and distributing pure water, the CENTRA-RDS maintains and improves water purity.

- The compact design provides more flexible installation options for new buildings and refurbishments. The CENTRA's small footprint means that it can be placed closer to the laboratory, avoiding the negative cost and design implications of long pipe work loops
- 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 inorganic water quality through use of in-line purification technologies. Recirculated water is UV treated, filtered and (if fitted) can be improved through deionization
- 350 l reservoir of purified water available at up to 30 l/min from a distribution loop. A wide range of water purities are possible from RO permeate up to 18.2 MΩ-cm Type I purity
- Low microbial counts achieved through vent filtration, spray-ball water distribution and smooth internal surface in the reservoir combined with UV oxidation and 0.2 µm filtration in the loop

Process Flow CENTRA-RDS



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Treated Water Specifications

| Model | Voltage/ Freq | RDS | RDS HFV/HFR |
|--|---------------|------------------------------|------------------------------|
| Flowrate (exit from unit) - l/min (USG/min) | 230/50 | 16 (4.2) | 30 (8) |
| | 230/50/60 | 50 | n/a |
| | | 60 | n/a |
| | 115/60 | 18 (4.8) | 38 (10) |
| Outlet pressure (exit from unit) - bar (psi) | | 3 (45) | 3 (45) |
| Inorganics (resistivity @ 25°C) | | Up to 18.2MΩ-cm ¹ | Up to 18.2MΩ-cm ¹ |
| Bacteria - typical | | <5 CFU/ml ² | <5 CFU/ml ² |
| Particles | | 0.2 µm filtration | 0.2 µm filtration |

¹ Ion-exchange cylinder (SDI) installed

² Dependent on feedwater quality and system being correctly installed and regularly sanitized.

Dimensions and weights

| | |
|--------------------|---|
| Dimensions | Height 1820mm (71.7in), Width 730mm (28.75in), Depth 890mm (35in), |
| Shipping weight | 180kg (396lb) |
| Operational weight | 530kg (1,168lb) |

Feedwater Requirements

| | |
|--|---|
| Source | Potable tap water, preferably reverse osmosis or de-ionized |
| Fouling Index (maximum) | 5 |
| Feedwater flow – l/min (maximum) | 20 |
| Feedwater pressure | 10 bar (150 psi) maximum, 0.1 bar (1.5 psi) minimum |
| Drain requirements l/min (gravity fall with air gap) | 20 |

Electrical Requirements

| | |
|--|--------------------------------|
| Mains input | 230V ac, 50Hz, 115V ac, 60Hz |
| System control voltage | 24V dc |
| Power consumption during recirculation | 1200VA |
| Electrical protection rating | 20 amps |
| Reservoir level connection for control of additional ELGA products | Jack Plug 3.5mm DIN plug 6 way |
| Noise level during recirculation | <65dBA |

ELGA LabWater

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