

MICRO REVERSE OSMOSIS

A complete water purification system for CSSD applications, with automatic thermal disinfection. Delivering consistent purified water that meets AS 5369:2023 Table 7.2 requirements.



RO WITH AUTOMATIC DISINFECTION FOR CSSD

FEATURES

- Reduce manual intervention and ensure hygiene with automatic out-of-hours thermal disinfection at over 80°C.
- Maintain high-quality water at all points of use via recirculation through a UV and endotoxin retention filter.
- Save space and simplify installation with a compact design that fits into areas as small as 690mm wide x 730mm deep x 1700mm high (Approx.).
- Tailor your system for durability and efficiency with distribution loops available in either stainless steel or PEX pipework.
- Meet peak demand effortlessly with the high-capacity 316 stainless steel tank that buffers water during usage surges and high-performance distribution pump
- Easily validate water quality with two hygienic sample valves, ensuring consistent monitoring of the purified water.
- Simplify operation and control through an intuitive PLC controller with a colour touch screen HMI for seamless system programming.
- Ensure full traceability and performance monitoring with downloadable operating data that provides a permanent record of system performance.



OPTIONS

Modbus/HLI
Remote Monitoring
Mimic Panel
Indicator Panel
Thermal Lockout of Equipment during thermal sanitisation

OPERATIONAL REQUIREMENTS

FEED WATER QUALITY

Conductivity ($\mu\text{S/cm}$)	<500
Total Dissolved Solids (TDS)	<300
Hardness as CaCO_3 (mg/l)	<10
Temperature ($^{\circ}\text{C}$)	<35
Fouling Index (SDI)	<5
Free Chlorine (mg/l)	<0.1 mg/l
Reactive Silica (mg/l)	<10mg/l
Pressure (kPa)	200-600kPa

PRODUCT WATER QUALITY

AS 5369:2023 (Table 7.2)	As per AS 5369:2023 (Table 7.2)* (*Not designed for applications requiring compliance with Table 7.4 i.e. Sterilisers)
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WEIGHT (KG)

Wet	~400
Dry	~250

DIMENSIONS (MM)

Width	720mm
Depth	800mm
Height	1750mm

UNIT SPECIFICATIONS

Distribution pump (l/min)	30 l/min
Permeate Rate at 15°C (l/h)	200
Storage tank volume (L)	50
Delivery Temperature ($^{\circ}\text{C}$)	Ambient or Hot
Max Ringmain Length (m)	<50
Maintenance Access	600 x 800mm
Noise Level (dB)	~60
Power Supply	415VAC-20amp-3PH
Ringmain Connection	1" Triclover
Inlet Connection	1/2"

Drainage Requirement	RO waste 1/2", Tank drain 1", Overflow 1" Drain material must be suitable to withstand RO discharge temperatures of $80-90^{\circ}\text{C}$
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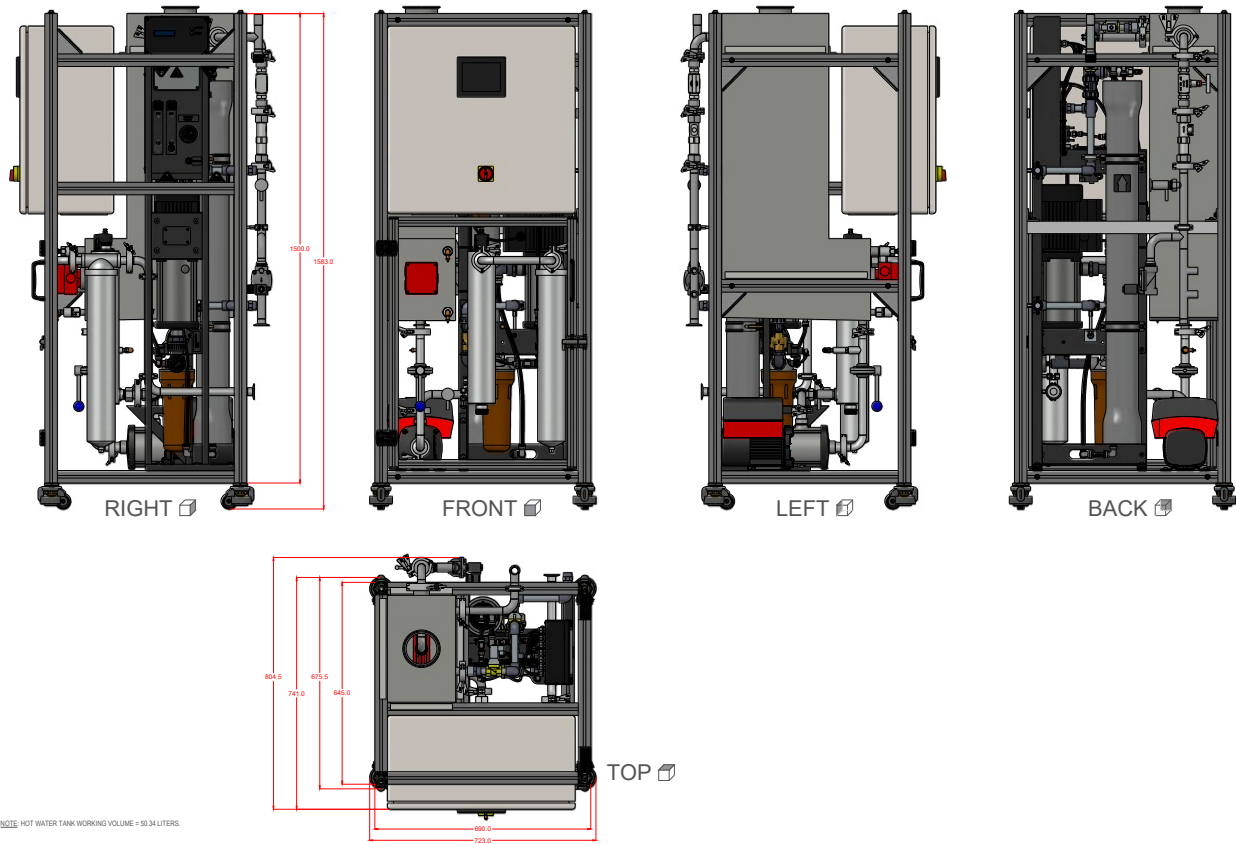
CONSUMABLES & ACCESSORIES

Part Number	Description	Typical Annual Requirement (M/A)w
HS-0.2-5-BSPS	0.2 micron 5" Vent Filter Cartridge	6 months
S410RL-HO	UV lamp & oring	Annually
QSO-410	UV Quartz Sleeve	Annually
PCB-051	10" 5um Carbon Block Cartridge	3 months
AB1NFZ3PH4	Endotoxin Retention Filter	6 months

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PLANS/DRAWINGS



Disclaimer. Southland Filtration reserves the right to, at any time change any details of design, specifications and performance figures of any published data.

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