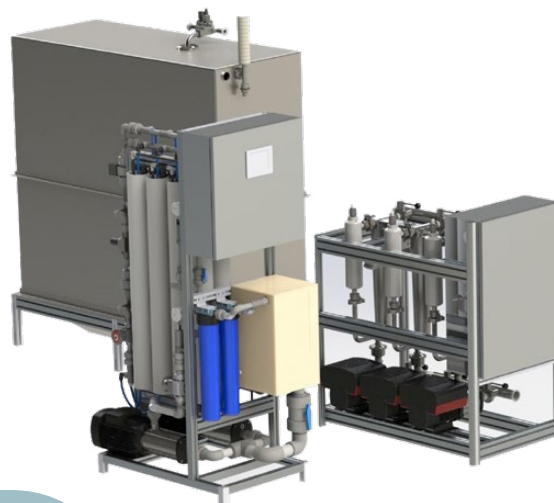


Duo Modular

ENDOTHERM DUO MODULAR

Duplex reverse osmosis water purification system for endoscopy and CSSD applications, incorporating an automatic thermal disinfection programme.



ENDOTHERM DUO MODULAR RO UNITS FOR ENDOSCOPY & CSSD

FEATURES

- Compliance assured – Meets CfPP01-06, EN ISO15883 and AS4187:2014 with programmable out-of-hours thermal disinfection.
- Simplified system – Integrated RO, tank and distribution pumps in one package.
- Versatile use – Feeds AERs, washer-disinfectors and sterilisers.
- Automated hygiene – Thermal disinfection >80°C performed automatically.
- Compact footprint – As small as 1400mm x 710mm x 1950mm (H).
- Consistent purity – Recirculates at user-set temperature via UV and endotoxin removal filter.
- Quiet operation – Suitable for washrooms or CSSDs, with optional panels.
- Durable and mobile – Duplex RO units on SS304 skid with wheels.
- Fast throughput – High dispense rates enable the quickest AER fill times.
- Validated quality – Hygienic sampling valve for verification.
- Peak demand ready – 316L stainless steel buffer tank ensures supply.
- Easy control – PLC with touchscreen HMI.
- Full traceability – Stores up to 3 years of data, downloadable via USB.
- Hygienic loops – Orbitally welded stainless steel or PEX distribution.

OPERATIONAL REQUIREMENTS

FEED WATER REQUIREMENTS

General	Potable water
Conductivity	< 1400 μ S/cm
Total Dissolved Solids (TDS)	<500ppm
Hardness	<10ppm CaCO ₃
Temperature	5 - 40°C
Fouling Index (SDI)	<10
Free Chlorine	<0.5ppm
Silica	<4ppm SiO ₂
Pressure	>2.5 bar

TREATED WATER QUALITY

Conductivity	<30 μ S/cm*
Bacteria	<1 CFU/100mL
Endotoxin	\leq 0.25 EU/mL

*Via single pass. <5 uS/cm can be achieved via the Twin Pass option

PRODUCT SPECIFICATION

Production Rate @ 15°C	600 L/hr - 2400L/hr
Delivery Flow Rate	120 L/m - 500L/m
RO Recovery Rate	up to 75%
Dimensions HxWxD (mm)	TBA
Shipping Weight (Kg)	TBA
Inlet Connection	1" BSP
Ringmain Connection	TBA
Electrical Supply	TBA

FLEXIBILITY

ENDOTHERM DUO MODULAR - MODULE 1, RO OUTPUT OPTIONS

Production Rate @ 15°C	600 l/h - Single Pass	700 l/h - Twin Pass	1,500 l/h - Single Pass	2,400 l/h - Single Pass
RO Recovery Rate	75%	75%	75%	75%

ENDOTHERM DUO MODULAR - MODULE 2, TANK OPTIONS

Nominal tank capacity	500 litres	1,000 litres	1,500 litres	2,000 litres
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ENDOTHERM DUO MODULAR - MODULE 3, RO DELIVERY PUMP OPTIONS

Delivery pump output	120 l/m	240 l/m	360 l/m	500 l/m
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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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 FILTRATION

PROCESS FLOW DIAGRAM

