

EndoTherm Mini

Compact Simplex RO System



Compact, reliable, cost effective reverse osmosis water purification solutions for decontamination equipment feed

The EndoTherm Mini is a small footprint, simplex system, with a single reverse osmosis (RO) stream that delivers purified water to HTM 01-06, HTM01-01 and EN ISO15883 compliant requirements.

EndoTherm Mini units can be programmed for thermal sanitisation to take place out of hours. A combination of reverse osmosis, ultra-violet disinfection, sub-micron filtration and constant recirculation all work together to maintain good water quality at a range of dispense rates making it suitable for individual or multiple pieces of decontamination equipment.

The full colour HMI (human machine interface) touch-screen monitor allows for secure PIN protected access levels, simple maintenance procedures and displays real-time graphical data. All models are pre-fabricated inside a small footprint cabinet, making them fast and easy to install, commission and validate. Various service contract options are available with HTM compliant water testing; as well as access to our remote digital monitoring programs.



Features and Benefits

- Ideal for single or multiple washers/autoclaves
- Steam heating option available
- Simplex high-efficiency RO system
- Prefabricated, skid mounted modular system means quick installation and less downtime
- Thermal sanitisation to >80°C automatically out of hours
- Water can recirculate at ambient or elevated temperatures to all points of use
- Designed to comply with HTM01-06, HTM01-01, ISO15883, EN285 and AS/NZ 4187 requirements
- Choice of high dispense rates for rapid filling and shorter cycles
- Distribution loops available in orbitally welded stainless steel or PEX pipework
- High capacity stainless steel tank to buffer demand to multiple washers
- Hygienic sample valve with easy access to validate and verify product water quality
- Future proofed with upgradable outputs
- PLC controller with full colour, touch screen HMI for easy system programming
- Removable USB memory stick for data logging system performance and sanitisations
- Remote monitoring options available
- Comprehensive after sales service and support backed up by national network of fully trained engineers

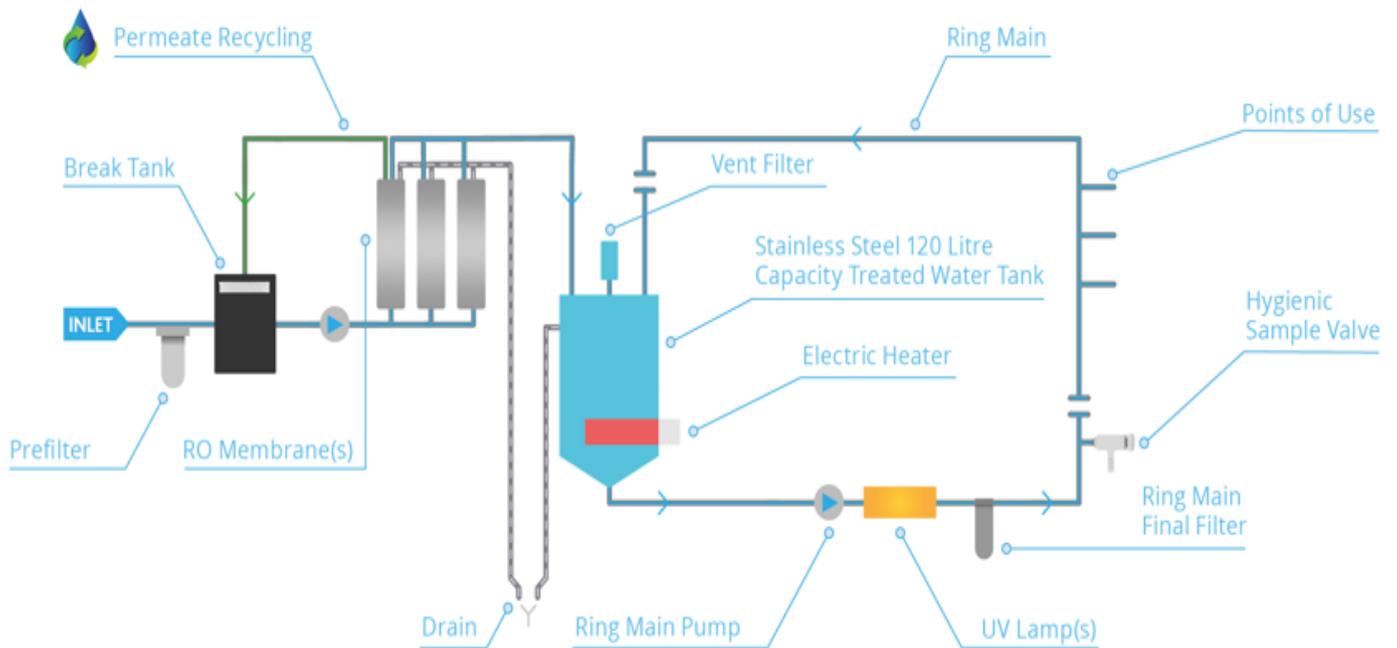
Technical Specification

Treated Water Specification - All models	
Conductivity	<30 $\mu\text{S}/\text{cm}$
Bacteria	<1 CFU/100ml
Endotoxin	<0.25 EU/ml
Particles	<0.2 μm

Feed Water Quality - All models	
Hardness (CaCO_3)	<50 mg/l
Free Chlorine (Cl_2)	<0.4 mg/l
Fouling Index (SDI)	<10
Iron/Manganese (Fe/Mn)	<0.05 mg/l
Temperature	<20°C
Feedwater Pressure	2.5-6.0 bar
Max Conductivity	<1400 $\mu\text{S}/\text{cm}$
Silica (SiO_2)	<30 mg/l



System Flow Diagram



Product Specification

EndoTherm Mini Model		ETM-150	ETM-300	ETM-500	ETM-900
Production Rate @ 15°C	l/hr	150	300	500	900
Max Dispense Rate	l/m	60			120
Max RO Recovery Rate	%	75			
Dimensions: Depth	mm	625			830
Dimensions: Width	mm	550			650
Dimensions: Height	mm	1980			
Shipping Weight	Kg	175		185	225
Inlet Connection	BSP	3/4"			
Drainage Connection	min 32mm	Upstand to drain			
Ringmain Connection	inches IDF	1"			
Electrical Supply	-	1ph, 240V, 32A			3ph, 415V, 32A
Max Power Consumption	kW	7.1			8
Noise Level during Recirculation	dB	< 50			