

ENVIROGEN

ENDOTHERM MINI COMPACT SIMPLEX RO SYSTEM DATA SHEET



Compact, reliable, cost effective simplex reverse osmosis water purification solutions for endoscopy and sterile services applications.

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, EN ISO15883, and AAMI ST108 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 & 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, EN ISO15883, EN285, AS/NZ 4187, and AAMI ST108 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
Iron/Manganese (Fe/Mn)	<0.05 mg/l
Feedwater Pressure	2.5-6.0 bar
Max Conductivity	<1400 $\mu\text{S}/\text{cm}$
Silica (SiO_2)	<30 mg/l

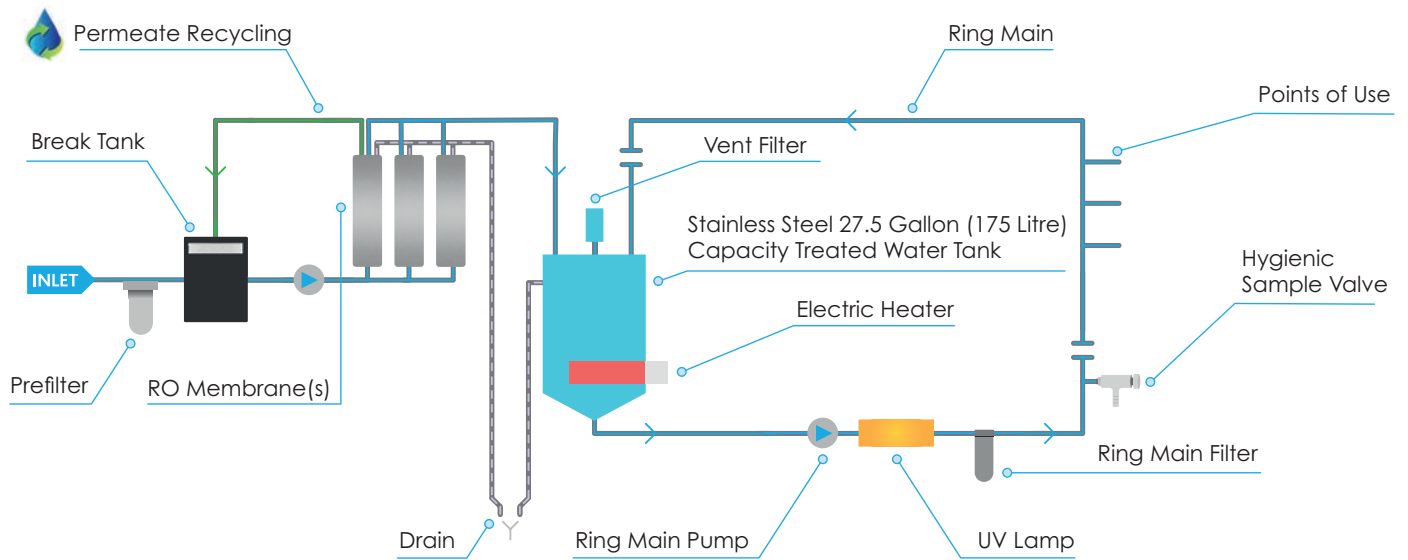


An EndoTherm Mini simplex RO System



Remote wall-mounted alarm indicator

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/pm	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	-	Minimum 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			

ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- Market-leading manufacturing and servicing capabilities



UK HEADQUARTERS

Envirogen Group
Unit 9, Wimsey Way, Alfreton Trading Estate
Alfreton, Derbyshire, DE55 4LS
T: +44 (0) 1773 441029
E: enquiries@envirogengroup.com

EUROPEAN HEADQUARTERS

Envirogen Technologies bv
Penningweg 71, 1507 DG Zaandam, The Netherlands
T: +31 75 204 7200
E: NLinfo@envirogengroup.com

NORTH AMERICAN HEADQUARTERS

Envirogen Technologies
2627 Chestnut Ridge Road, Suite 200
Kingwood, TX 7733
T: 713.979.9142
E: info@envirogen.com

We have a network of regional sales and service teams worldwide:

UK and Europe: UK, The Netherlands, Germany, France, Italy.

USA: Texas, Tennessee, New Jersey, California, Nevada.

For further details, visit our website or contact our main office locations above.

www.envirogengroup.com

Follow Envirogen Group on [LinkedIn](#) 