

ENVIROGEN

ENDOTHERM DUO XL COMPACT DUPLEX RO SYSTEM UK DATA SHEET



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

The EndoTherm Duo is a range of duplex reverse osmosis (RO) systems that are designed to meet the water quality standards of HTM01-06, HTM01-01, ISO15883, AS/NZ 4187, and AAMI ST108.

EndoTherm Duo units can be set to operate at ambient or elevated temperatures (user adjustable) with automatic thermal sanitisation taking place out of hours. All models can be electric or steam heated. 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 that can be matched to single or multiple decontamination equipment needs.

The full colour HMI (human machine interface) touch-screen monitor allows for secure access levels, simple maintenance procedures and displays real-time graphical data. Compact, pre-assembled and skid mounted, EndoTherm Duo units are fast and easy to install, commission and validate. Various service contract options are available as well as access to our remote digital monitoring programs.

FEATURES & BENEFITS

- Ideal for single or multiple washers/autoclaves
- Steam heating option available
- Duplex high-efficiency RO systems on the same module for maximum resilience
- 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, 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
- Upgradeable outputs up to 1200 lph to help future proof
- PLC controller with full colour, touch screen HMI for easy system programming
- Removable USB memory stick for data logging system performance and sanitisations
- Cylinder ion exchange option available
- Remote monitoring options available
- Comprehensive after sales service and support backed up by national network of fully trained engineers

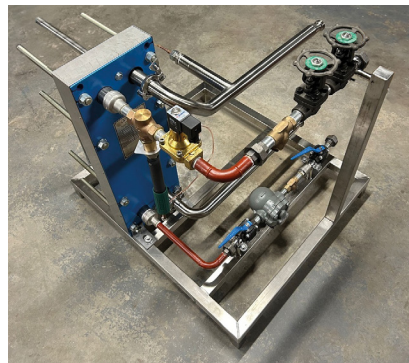
TECHNICAL SPECIFICATION

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 external steam plate heat exchanger (optional)

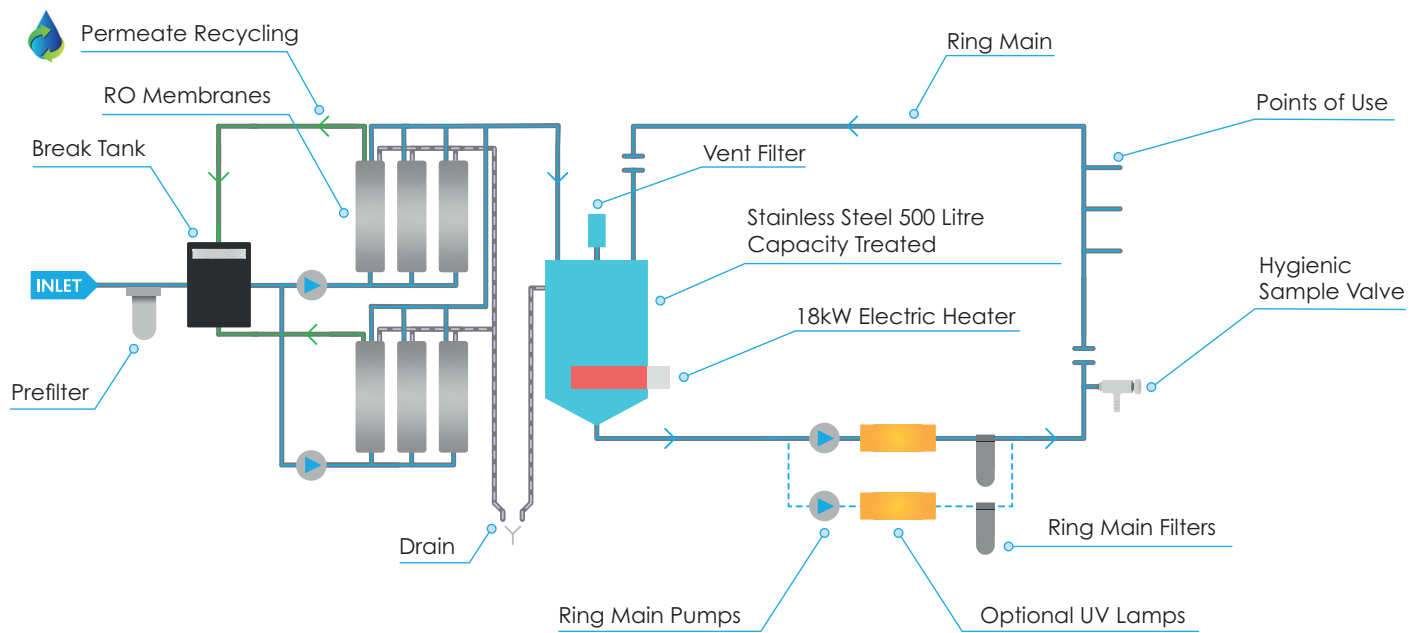


A duplex EndoTherm Duo XL RO system



Remote wall-mounted alarm indicator

SYSTEM FLOW DIAGRAM



UK EndoTherm DuoXL

PRODUCT SPECIFICATION

EndoTherm Duo XL Model		ETD-300XL	ETD-600XL	ETD-900XL
Production Rate @ 15°C	l/hr	300	600	900
Max Dispense Rate	l/pm	Up to 120		
Max RO Recovery Rate	%	75		
Dimensions: Depth	mm	810		
Dimensions: Width	mm	1750		
Dimensions: Height	mm	1865		
Shipping Weight	Kg	375	395	420
Inlet Connection	BSP	1"		
Drainage Connection	-	Minimum 32mm upstand to drain		
Ringmain Connection	inches IDF	1"		
Electrical Supply	-	3ph & N, 415VAC, 50Hz, 40A		
Max Power Consumption	kW	27		
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



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

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

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