

# EndoTherm RO



## HTM 2030 and EN ISO 15883 compliant purified water for disinfection with thermal sanitisation

Environmental Water Systems (UK) Ltd introduces the EndoTherm Reverse Osmosis system, developed from the popular and successful EndoPure range. EndoTherm systems will deliver ambient temperature purified water to HTM2030 and EN ISO 15883 requirements, and can be programmed for thermal sanitisation to take place outside work hours. Reverse osmosis, ultra violet light and 0.2 micron filtration work together in a recirculating system to achieve and maintain the required water quality. When sanitisation is initiated the tank and ringmain are automatically isolated while a heating element raises the water temperature. The entire thermal sanitisation process can be completed in as little as 3 hours and, should water be required urgently, can be aborted at any point.

### A complete water purification system, with thermal sanitisation, in a single cabinet

- Designed to comply with the principles of HTM 2030, C32 and the European standard EN ISO 15883
- Compact and easy to install
- Water recirculates at ambient temperature via the UV and 0.2 micron endotoxin filter to the points of use
- The 200 litre tank and distribution pipework are manufactured from 316L stainless steel
- Distribution loop in stainless steel or Pex A
- Thermal disinfection to above 80°C by a 12 kw immersion heater for 1 hour
- Disinfection is carried out automatically at night via the on board PLC
- Hygienic sample valve to validate and verify product water quality on outlet
- CE marked

[www.reverseosmosis.co.uk](http://www.reverseosmosis.co.uk)

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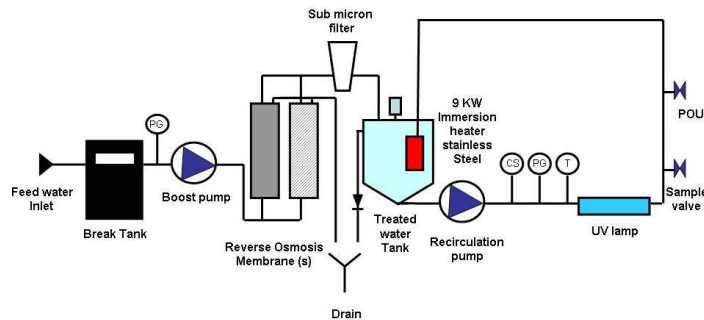


**Environmental Water Systems**  
Total Capability in Water Purification and Water Recovery



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## Flow diagram for EndoTherm RO system



## Technical specifications

Compact

Compact

EndoTherm RO1

EndoTherm RO2

### EndoTherm performance specifications – to comply with HTM2030

Conductivity	<30 $\mu\text{S/cm}$	<30 $\mu\text{S/cm}$
Bacteria	<10 cfu/100ml	<10 cfu/100ml
Endotoxin	<0.25 EU/ml	<0.25 EU/ml
Particles	<0.2 microns	<0.2 microns

### Product specification

Product production rate @ 15°C	>300 l/hr	>600 l/hr
Product delivery rate	Up to 60 l/min	Up to 60 l/min
Recover rate (max)	Up to 70%	Up to 70%
Dimensions: H x W x D	-----1800mm x 1000mm x 700mm-----	
Shipping weight (approx)	225 kgs	250 kgs
Inlet pipe dimensions	1"	1"
Outlet pipe dimensions	1"	1"
Drain from RO	1.5"	1.5"
RO pump motor	2.2 kW	2.2 kW
Delivery/recirculation pump	1.1 kW	1.1 kW
HMI Display modes	√	√

### EndoTherm feed water specifications

General	Potable water free from organics, colloids and suspended matter	
Total dissolved solids	<1000mg/l	<1000mg/l
Free Chlorine	<0.1ppm	<0.1ppm
Temperature	5-35°C	5-35°C
Pressure	3-6 bar	3-6 bar
Silt density index	<5 SDI units	<5 SDI units

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