

THERMAPURE

Reverse Osmosis Systems for Sterile Services and Endoscopy Reprocessing

The Thermapure range of compact heat sanitisable Reverse Osmosis (R.O.) systems provide a cost effective solution to meet the latest decontamination guidelines.

Thermapure units are designed to run continuously up to 80°C for Sterile Services and cold running with automatic heat disinfection for Endoscopy applications.

R.O. make up flow rates from 120 to 600 litres/hour.

Ringmain flow rates 120 litres/minute with option of higher flows.



Thermapure 300, 300DX & 600 System



Thermapure 120 & 200 System

Features & Benefits:

- Skid mounted, standardised systems enable quick installation and start-up.
- R.O. system flush on start-up ensures water is maintained to specification.
- Intuitive and simple to use 3.7" HMI colour touch screen displays service conditions, alarms and hours run in text format.
- Conductivity meter with alarm set points manages R.O. water quality.
- Flexible heat disinfection programme eliminates need for ringmain chemical sanitisation (cold water Endoscopy operation).
- Alarm/sanitisation history and timestamps enables diagnostic analysis.
- PLC control provides four volt free alarm contacts for BMS or remote alarm systems.

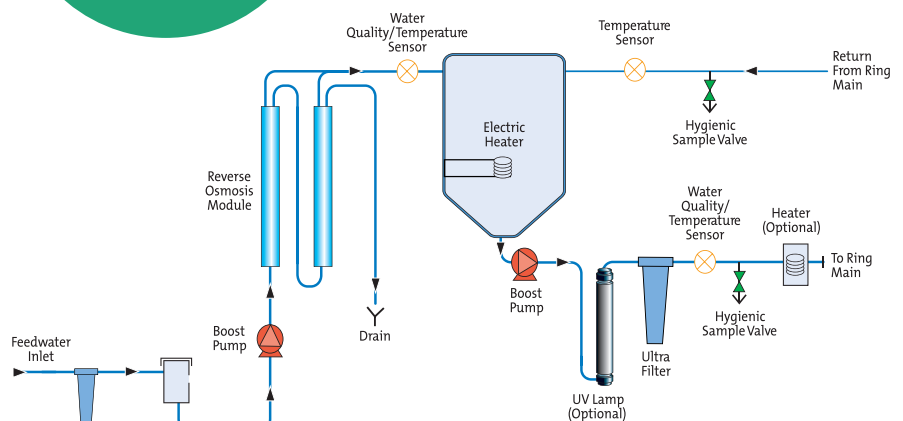
Options:

- Larger 8.4" HMI colour touch screen displays data trends for feed and return ringmain temperatures, R.O. makeup and ringmain quality.
- Remote monitoring panel with indicator lamps or HMI displays screens (3.7" or 8.4").
- Continuous level measurement in permeate tank.
- Larger 150 litre permeate storage tank for 300, 300DX & 600 systems. Standard system has a 100 litre tank.
- Single inline heater for hot water delivery.
- Feed water and ringmain return conductivity measurement.
- UV Steriliser for Endoscopy applications.
- External 310 litre tank provides additional storage and flow capability up to 120 litres/minute.

Service 24/7,
365 days a year,
4, 8, 24 hour,
support

Services:

- Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.



Note: No U.V Steriliser on Sterile Services systems.

System Performance

Model (standard range)		120	200	300	300 Duplex	600
Permeate @ 15°C	l/hr	120	200	300	300-600	600
Feed	l/hr	180	260	400	400-800	800
Waste	l/hr	60	60	100	100-200	200

Nominal flows @ 10°C. Flow rates are dependent on feed water quality & temperature; those quoted are based on 750 mg/l TDS & SDI <10.

System Dimensions & Weights

Model (standard range)		120	200	300	300 Duplex	600
Height	mm	840			2000	
Depth	mm	530			900	
Width	mm	1000			750	
Service Weight	kg	310	320	450	505	465

1000 mm service access is required around and above Thermapure installation.

Pipe Connections

Model (standard range)		120	200	300	300 Duplex	600
Inlet	Ins	½" BSPM			¾" BSPM	
RO Concentrate	Ins	¾" BSPM			¾" BSPM	
Gravity Drain	Ins	¾" BSPM			1" BSPM	
Pressure Drain	Ins	½" BSPM			¾" BSPM	
Ringmain Outlet	Ins	¾" BSPM/1" Tri Clamp			¾" BSPM/1" Tri Clamp	
Ringmain Return	Ins	¾" BSPM/1" Tri Clamp			¾" BSPM/1" Tri Clamp	

Treated Water Quality

Model (standard range)		120	200	300	300 Duplex	600
Conductivity @15°C	µS/cm	<30				
Bacteria	CFU/ml	<10				
Endotoxins	EU/ml	<0.25				

Feed Water Supply Quality

Pre-softened, potable water free from organic contamination, chlorine and suspended solids.

Pressure	bar g.	min 2.0			max 6.0	
Temperature	°C	min 5°			max 35°	

15°C recommended for optimal performance.

Electrical Supply & Noise Level

Model (standard range)		120	200	300	300 Duplex	600
Mains Input		380/415 V, 3 phase, neutral & earth.				
Maximum Load	Amps	10.1		15.3	18.0	16.1
Power Consumption	kW	5.30		8.65	9.05	9.04
Noise Level	dBA	61		67		

For higher flow rates or other processes, consult your local Veolia Water Technologies representative.

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