

Thermapure™

REVERSE OSMOSIS WATER
FOR STERILE SERVICES
DEPARTMENTS

ELGA PROCESS WATER



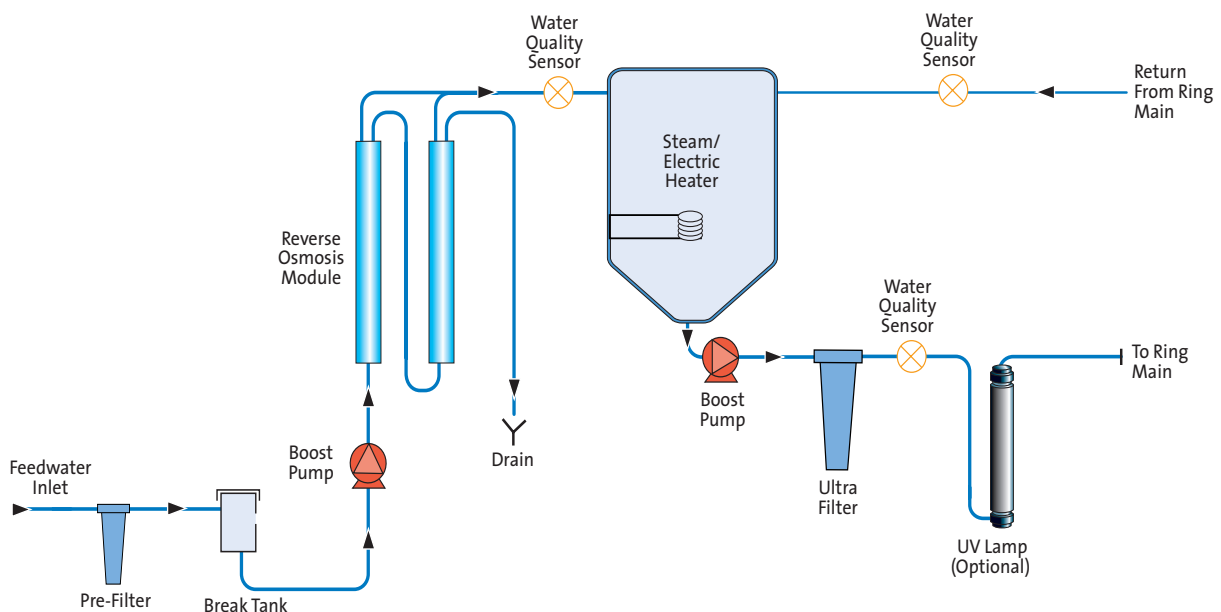
Thermapure™

The Thermapure™ range of compact, heat sanitisable RO systems provides cost effective water to meet the latest decontamination guidelines. The Thermapure™ incorporates the latest water purification technologies and a PLC for continuous monitoring of water quality parameters. The HMI (Human Machine Interface) touch screen monitor allows for secure access levels, simple maintenance procedures and displays real time graphical data. A fully automated heat disinfection programme eliminates the need for chemical sanitisation. Manufactured to ISO 9001, the Thermapure™ combines high quality engineering, sensors and components to ensure that product performance and reliability are never compromised.

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

Feature	Thermapure™ Plus	Thermapure™ 300 & 600
Feed Water	Operates on soft or hard water	Operates on soft water only
RO Make Up Rate	Flexible RO make up rate between 200 - 600 l/hr for future contingency	300 or 600 l/hr RO make up rate
Data Trending	Real time graphical display for data trending	
Water Quality Monitoring	Continuous monitoring of key water quality parameters	
Tank	100ltr 316L Stainless Steel tank**	
Housing	304L Stainless Steel Housing	

**Optional 150 ltr tank available



Treated Water Specification

Model (standard design)	Measurement	Thermapure Plus		Thermapure 300	Thermapure 600
Make Up Rate @30°C	l/hr	200 – 600		300	600
Delivery Flow Rate	l/min	30		30	30
Inorganics (conductivity @30°C)	µS/cm	<30		<30	<30
Concentrate	l/hr	Hard	Soft	100	200
		2067 - 2200	67 - 200		
Permeate Recovery Max	%	10 - 28	75	75	75
Permeate Recovery Max	CFU/100ml	<1		<1	<1
Endotoxin	EU/ml	<0.25		<0.25	<0.25

Dimensions & Weights

Model (standard design)	Measurement	Thermapure Plus	Thermapure 300	Thermapure 600
Shipping Weight (approx)	kg	435	390	423
Working Weight (approx)	kg	535	490	523
Recirculation Pump Motor Size	kW	0.55	0.55	0.55

Feed Water Requirements

			Thermapure Plus	Thermapure 300/600
Source			Tap Water as detailed below	
Conductivity			Potable water <1400 µs/cm	
Contaminant	Measure	Range	Pre-Treatment	
Calcium	Ca ppm as CaCO ₃	>10	Optional water softener	Water softener
		>300	Optional water softener	Water softener
		>350	Optional water softener	Water softener
Free Chlorine	Cl ₂ ppm	0.1 – 0.5	20 inch Carbon block (built in)	
		>0.5	Cylinder of Carbon sized to correctly obtain 0.1ppm	
Chloramine	Cl ₂ ppm	0.1 – 0.5	20 inch Carbon block (built in)	
		>0.5	Cylinder of Carbon sized to correctly obtain 0.1ppm	
Silica	SiO ₂ ppm	<30	None	
		>30	20 inch cartridge depth filter	
Fouling Index	FI	<10	None	
		10 – 20	20 inch cartridge depth filter	
		>20	Back-washable media filter sized for feed flow	
Iron/Manganese	Fe/Mn ppm	<0.05	None	
		>0.05	20 inch cartridge depth filter	
		>0.1	Back-washable Fe filter	
Organics	TOC ppm C	<2	None	
		2 – 3	20 inch Carbon block (built in)	
		>3	Cylinder of Carbon sized correctly for TOC demand	
Temperature	°C		4 – 35°C (recommended 15 – 35°C)	

Electrical Requirements

Model (standard design)	Measurement	Thermapure Plus	Thermapure 300	Thermapure 600
Mains Input		3 PH N & E 380 -420 VAC		
System Control voltage	kW	9.75	8.65	9.05
Power Consumption (peak demand)	Amps	17.4	15.3	16.1
Noise Level	dBa	67		