

# OSIRIS

## Reverse Osmosis Water for Sterile Services Departments

The Osiris product range has been designed to provide water for Sterile Services Departments to the latest decontamination guidelines. Integrated onboard monitoring, an automated heat disinfection program and reliable water purification technologies ensure that consistently compliant water is supplied for critical applications. As a bespoke manufactured product, the Osiris can be designed to meet the requirements of any Sterile Service Department within the Healthcare industry.

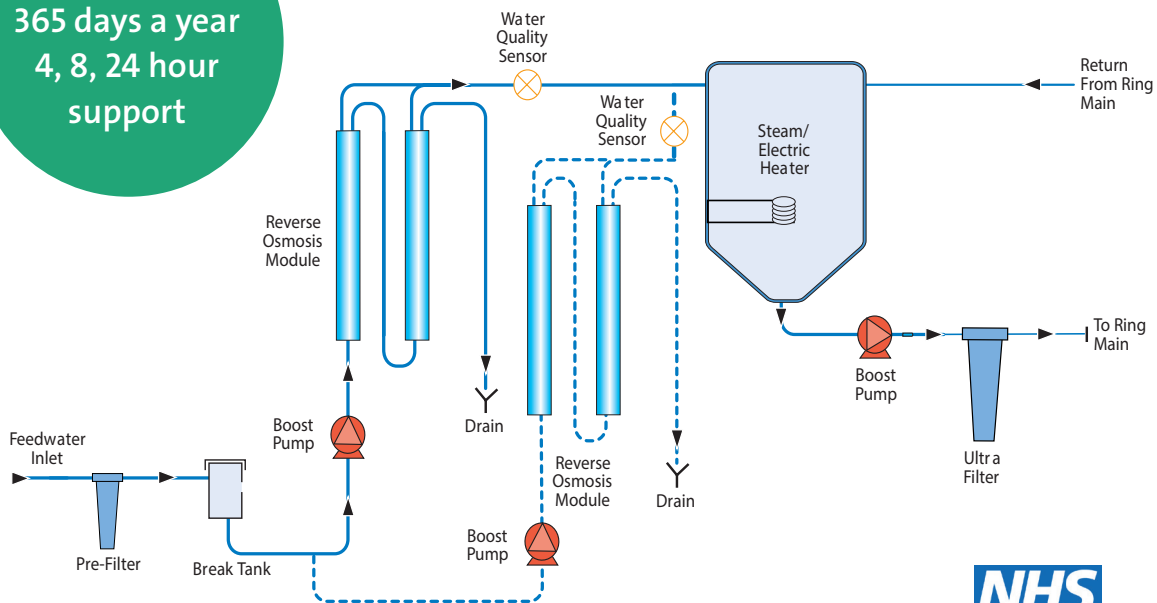
### Options include

- Simplex and Duplex design of key components
- Steam / electrical heating
- Manufacturing flexibility on size and design configurations
- HTM/CFPP/EN15883

### Key Features

- Skid mounted solution for ease of installation
- High efficiency reverse osmosis membranes
- Complete service and validation support
- Automated disinfection
- Programmable alarms to monitor water quality and system performance
- Carbon footprint and water sustainability assessments available

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



NHS Supply Chain

## Treated Water Specification\*

Model (standard design)		<b>300</b>	<b>600</b>
Make Up Rate @30°C	l/hr	300	600
Recovery Max	%	75	
Conductivity	µS/cm	<30	
Bacteria	CFU/100 ml	<10	
Endotoxin	EU/ml	<0.25	

\* Higher RO flow rate specifications up to 2400 l/hr as standard.

## Dimensions\*\*

Model (standard design)		<b>300</b>	<b>600</b>
Dimensions		Manufactured to customer specification	
Shipping Weight (approx)	kg	300	500
Working Weight (approx)	kg	600	1100
Recirculation Pump Motor Size	kW	0.55	0.75

\*\* Dimensions for duplex and higher RO make systems available from Veolia Water Technologies.

## Feed Water Requirements

General	Potable water <1400 µs/cm		
Contaminant	Measure	Range	Pre-Treatment
Calcium	Ca ppm as CaCO <sub>3</sub>	>10	Water softener
		>250	Water softener
		>350	Water softener
Free Chlorine	Cl <sub>2</sub> ppm	0.1 – 0.5	20 inch Carbon block (built in)
		>0.5	Cylinder of Carbon sized to correctly obtain 0.1ppm
Chloramine	Cl <sub>2</sub> ppm	0.1 – 0.5	20 inch Carbon block (built in)
		>0.5	Cylinder of Carbon sized to correctly obtain 0.1ppm
Silica	SiO <sub>2</sub> 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		4 – 35°C (recommended 15 – 35°C)	

## Electrical Requirements

Electric Heater Power (30°C Feed)	KW	18	30
Power – 380/415V; 3 Phase; 50Hz Electric Heater	Amps	30	50
Power – 380/415V; 3 Phase; 50Hz Steam Heater	Amps	5	8

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

### Veolia Water Technologies – Process Water

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