

AVIDITY

SCIENCE

ROS-HOT

HEATED RO WATER SYSTEMS
FOR STERILE SERVICES



Duplex High Output Heated ROS-HOT

RO Water Systems for Sterile Services

The ROS-HOT range of reverse osmosis (RO) systems combine the latest purification technologies to meet all parameters of HTM01-01 and EN15883 for rinse water when feeding washer disinfectors and clean steam generators.

Each ROS-HOT system has a bespoke design for your application to keep you compliant, ensure maximum uptime and ultimately deliver the best service for patients. Whether you require steam heating or electric, whether you are supplying one or more washers, whether or not you are making clean steam for your autoclaves we have it covered.

Flexibility when and where you need it

Our reverse osmosis systems are designed for your specific requirements – not a skid mounted “one size fits all” offering. We listen to you and create a bespoke system to meet your individual needs and budget. For example, we can upgrade pre-treatment, RO production, monitoring and controls, but leave storage and distribution in place if this doesn't require upgrading.

Centralisation of Decontamination Services

Where sterile services and endoscopy reprocessing are centralised in one department, we can design every system to fulfil all requirements, minimising waste and maximising space at the same time. A dual function HTM01-01 and HTM01-06 RO system will also save on servicing and consumable costs and provides system status information in one place.

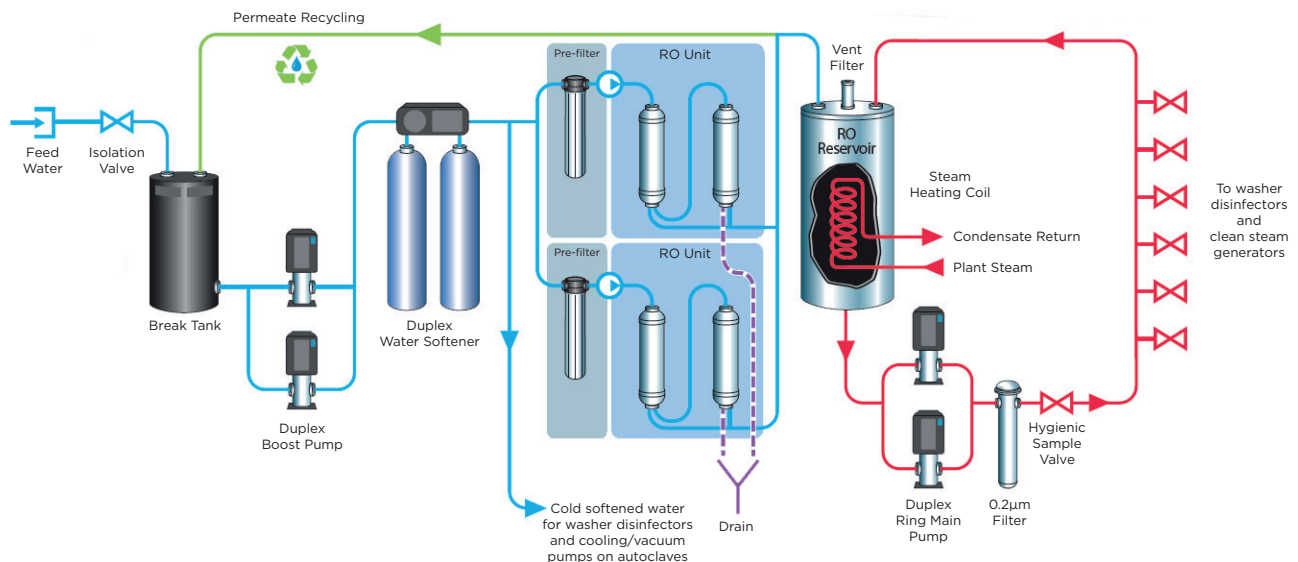
Monitoring

Comprehensive monitoring via a secure cloud-based server is available on new systems or as a retrofit to existing Avidity Science systems to keep track of system performance over time.



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Typical system schematic as a starting point for your bespoke system design



KEY FEATURES

- 300/600/900/1200 or +1500 litres per hour
- Duplex configuration for 100% contingency
- Type AB air break on feedwater
- Duplex water softener
- Stainless steel tank from 600 to 1500 litres
- Customise to your specific requirements
- 0.2µm filtration to suit flow rate
- Hygienic sample port to verify quality
- Alarms for critical parameters, BMS outputs
- Fast delivery rates for short cycle times
- Comprehensive parameter monitoring
- Steam or electric heating
- Operating temperature 65°C - 80°C
- Full design and project management
- Comprehensive aftersales support

OUTPUT WATER SPECIFICATION

	ROS-HOT 300/600D/900D	ROS-HOT 1500
Pure Water Production	300 /600/900l/hr @ 15°C	1500 l/hr @ 15°C
Loop Flow Rate	Up to 150 l/min @ 4.5 bar	Up to 150 l/min @ 4.5 bar
Inorganic	< 30µs/cm	< 30µs/cm
Bacteria	< 10 CFU/100ml	< 10 CFU/100ml
Endotoxin	< 0.25 EU/ml	< 0.25 EU/ml
Particles	< 0.2 micron	< 0.2 micron

FEEDWATER REQUIREMENTS

	ROS-HOT 300/600D/900D	ROS-HOT 1500
Hardness (mg/l as CaCO₃)	< 400	< 400
Total Chlorine (Cl mg/l)	< 0.1	< 0.1
Conductivity (µs/cm)	< 1000	< 1000
Temperature (recommended)	< 20°C	< 20°C
Drainage Flow	Up to 30 l/min	Up to 50 l/min

WEIGHTS AND DIMENSIONS

	ROS-HOT 300/600D/900D	ROS-HOT 1500
Height (Max)	2000mm	2200mm
Depth plant space required (approx)	3500mm	4000mm
Width plant space required (approx)	3500mm	4500mm



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Avidity Science Ltd

Unit D4 Drakes Park, Long Crendon Ind Est
Buckinghamshire, HP18 9BA, UK

+44 (0)1844 201142

UK.Info@AvidityScience.com
www.AvidityScience.com