



RIVAMED HSS
- XL

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Save Water, Save Life



**Heat Disinfection
System**

RIVAMED HSS/XL

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On-line Heat Disinfection System

HSS unit is a heat disinfection system designed to offer a comprehensive heat solution for the ring, dialysis machines, and connection hose without the need for a storage tank.

Its in-line boost heater employs a more efficient heating process than traditional methods. HSS is fully compatible with all RIVAMED reverse osmosis systems, and other brand reverse osmosis thanks to having its own control panel.

When integrated in series with the RIVAMED reverse osmosis system, it ensures a consistent and dependable process, delivering superior microbial results at reduced operational costs. Simultaneous thermal disinfection of dialysis machines and the ring is achievable.

Additionally, the system can handle approximately 150 liters of hot permeate per hour for integrated heat disinfection.



economical

protective

convenient

highest microbiological safety

compatibility with all RO systems

integrated heat disinfection of dialysis machines



Compliance with ISO Standards

RIVAMED HSS heat disinfection system simplifies adherence to ISO standards for dialysis water quality.

ISO 23500-1

Part 1: addresses guidance for the preparation and quality management of fluids for hemodialysis and related therapies

ISO 23500-2

Part 2: covers water treatment equipment for hemodialysis applications and related therapies

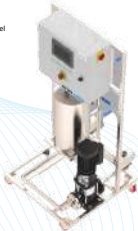
ISO 23500-3

Part 3: specifies minimum requirements for water for hemodialysis and related therapies

- Enhanced microbiological disinfection considering AO concept
- Utilization of a multicolor touchscreen interface
- Streamlined design for space efficiency
- Continuous monitoring of pressure and temperature
- Programmable shut on/off functionality
- Built-in self-test feature upon power-up
- Supervision and control via PLC/microprocessor control panel
- Firmware upgrade capability for ongoing improvements
- Automatic system restart following a power interruption
- Implementation of security parameters including overpressure, overtemperature, dry run protection, pump protection, and operation history logging
- AISI 316 stainless steel heater tank equipped with level switches and air relief valve
- AISI 316 stainless steel tubing and frame
- Designed to be dead leg-free, ensuring maximum hygiene levels
- Password protected user levels
- Visual LED indicator with acoustical signal
- Brake adjusting wheel for ease of transportation

Optional

- 500 lt heater tank
- Ultrafiltration (bacteria & endotoxin filter)
- Remote control










Technical Data 1/2

	PARAMETER	RIVAMED HSB	
Performance	Dimensions (L x W x H) (max.)	78 x 70 x 155 cm	
	Weight	Max. 150 kg	
Data	Ice permeate capacity	152 l/h	
	Integrated dialysis machines (dialysers)	3-4 per area (temporarily)	
	Maximum pressure	8 bar	
	Temperature (feed) (dialysate)	32-35 °C	
	Bacteria (CFU) and endotoxins (EU)	< 59%	
	Noise level	< 70 dB (A)	
	Water	Feed water (L-4004)	Direct PE-Ra connector 25 x 3.3 mm
	Connections	Dialysis water (feed and return) (L-4004)	Direct PE-Ra connector 25 x 3.3 mm
	Drain water (L-8004)	Haas nipple DN 25	
Electrical	Wired plug	CEE Socket	
Safety	Supply voltage	380-400 V AC 50/60 Hz	
	Energy consumption	Max. 18 kW	
	Degree of water protection	Splash proof (IPX4)	
	Applied parts classification	Type B	
	Type of protection against electric shock	Protection class I	
	Leakage currents	According to ANSI/IEEE IEC 60601-1	
	Operation mode	Continuous operation (standby)	
Ambient Conditions	Shipping/Storage	+1 to +45 °C	
	Operation	+1 to +35 °C	
	Air humidity	max. 90% relative humidity, non condensing	
	Installation altitude	< 2,000 m above sea level	

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<p>TP-S/VE</p>	<p>RO-S/VE</p>	<p>Basic-S/VE</p>	<p>RM 1000/2010</p>	<p>RM 100</p>	<p>RO Mini (H/S)</p>	<p>HSS</p>
<p>State-of-the-art double tank water treatment system with optional integrated heat exchanger</p> <p>130-5,000 l/h</p> <p>Suitable for manual bottled water treatment</p> <p>Remote control</p> <p>HCP capable</p> <p>AGI 130 stainless steel piping and lid</p> <p>See parallel mode</p> 	<p>State-of-the-art water treatment system with optional integrated heat exchanger</p> <p>130-5,000 l/h</p> <p>Suitable for manual water treatment</p> <p>Remote control</p> <p>AGI 130 stainless steel piping and lid</p> <p>See parallel mode</p> 	<p>Basic water treatment system with optional ring loop divert on</p> <p>150-5,000 l/h</p> <p>Suitable for manual water treatment</p> <p>Optional remote control</p> <p>AGI 130 stainless steel piping and lid</p> <p>See parallel mode</p> 	<p>Pre-performance water treatment system with optional ring loop divert</p> <p>201-5,000 l/h</p> <p>Suitable for manual water treatment</p> <p>PVC-U and/or AISI 316 stainless steel piping and lid</p> <p>See parallel mode</p> 	<p>Standard water treatment system including a reverse osmosis, heat exchanger and tandem</p> <p><142 l/h</p> <p>Suitable for manual operation and CWS</p> <p>PE, PU, PVC-U and AISI 316 stainless steel tubing and lid</p> 	<p>State-of-the-art portable water treatment system provides 10-gal/day green safe quality water while ensuring hygienic conditions in the entire fluid system providing additional security for high volume HCP</p> <p><140 l/h</p> <p>Suitable for CWS and home display</p> <p>Optional remote control</p> <p>Integrated heat exchanger on option</p> 	<p>Online heat application system for maximum hygiene and protection in display</p> <p>20 l/h hot water in addition for water distribution</p> <p>Suitable for all brand RO systems for display</p> <p>Optional remote control</p> <p>AGI 130 stainless steel piping and lid</p> <p>Ultrafiltration and SCOT heater tank option</p> 

Remarks

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