



RIVAMED RM 100
RO Mini
RO Mini (HS)

RIVAMED

Save Water, Save Life



**Portable Reverse
Osmosis**

RIVAMED PORTABLE



In situations where space and time are crucial, such as in homes or ICU, water treatment systems face unique challenges related to availability, reliability, and safety. RIVAMED Portable compact and low-noise reverse osmosis devices are specifically engineered to excel in environments where space is scarce and adaptable deployment is vital, prioritizing optimal performance.

Your Companion for Independence in Dialysis



- Small and quiet design
- Easy-to-use menu-based interface
- Hardware-assisted monitoring and documentation of operational data and disinfection processes
- Accurate and high-quality disinfection guided by procedures
- Automated rinsing and permeate recirculation minimize microbiological growth
- Efficient reverse osmosis solution suitable for small dialysis units and home dialysis
- Modular design facilitates customized investments
- Programmable start/stop/standby functions promote resource efficiency and prolong device lifespan



Compliance with ISO Standards

RIVAMED Portable dialysis water 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



Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices
MDR class: IIb, accessory to a medical device



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- Enhanced chemical and microbiological purity
- Streamlined design for space efficiency
- Semi-automated chemical and heat disinfection programs
- Integration of high-rejection polyamide membranes
- Incorporation of a permeate pressure-sustaining valve for precise system pressure control
- Continuous monitoring of conductivity, pressure, and temperature
- Programmable multiple independent shut on/off functionality
- Settable interval flush timer programs
- Built-in self-test feature upon power-up
- Supervision and control via microprocessor control panel
- Firmware upgrade capability for ongoing improvements
- Automatic system restart following a power interruption
- Implementation of security parameters including permeate overpressure, permeate conductivity, permeate overtemperature, dry run protection, pump protection, and operation history logging
- Buffer tank equipped with level switches for operational ease and pump protection
- Designed to be dead leg-free, ensuring maximum hygiene
- Password protected user levels
- Visual and audible alarm
- Brake adjusting wheel for ease of transportation
- Permeate and soft water sampling valves

Economical

Protective

Portable

Functional

Compact
Footprint

Optional

- Leakage detector
- Ultrafiltration (bacteria & endotoxin filter)
- Remote control
- Hardness analyzer



Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices
MDR class: IIb, accessory to a medical device



Technical Data 1/2



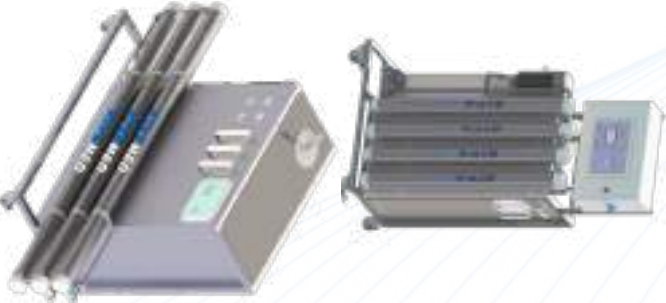



	PARAMETER	RM 100	RO Mini	RO Mini (HS)
Performance	Dimensions (L x W x H) (max.)	75 x 50 x 90 cm	45 x 35 x 70 cm	45 x 35 x 70 cm
Data	Weight	75 kg	35 kg	40 kg
	Dialysis water production capacity	< 140 lt/h		
	Point of use (dialysis machines)	2 pcs	1-2 pcs	1-2 pcs
	Dialysis water pressure	2-6 bar		
	Retention rate (dissolved salts)	> 99% NaCl (>96% avg.)		
	Bacteria (CFU) and endotoxins (EU)	> 99%		
	System recovery yield	< 75%	< 70%	< 70%
	Noise level	< 50 dB (A)		
	Heat Disinfection	X	X	✓
Water	Soft water feed	Hose stem DN 20		
Connections	Dialysis water feed and return	Quick coupling DN 6		
	Drain water	Hose stem DN 8		
Electrical	Mains plug	CEE 7 (Schuko F Type)		
Safety	Supply voltage	220-230 V AC 50/60 Hz		
	Energy consumption	Max. 373 W	Max. 250 W	Max. 1.5 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/AAMI IEC 60601-1		



Technical Data 2/2

PARAMETER		RM 100	RO Mini	RO Mini (HS)
Feed Water	Quality	Mains water		
	Hardness	< 450 ppm	< 270 ppm	< 270 ppm
		CaCO ₃	CaCO ₃	CaCO ₃
	SDI	< 3		
	Conductivity	< 2,000 µS/cm		
	Total dissolved solids (TDS)	< 1,200 mg/l		
	Iron	< 0.1 mg/l		
	Manganese	< 0.05 mg/l		
	Silicate	< 25 mg/l		
	Free chlorine	< 0.1 mg/l		
	Temperature range	5 - 35 °C		
	pH value	6.0 - 8.5		
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		
On-Site Requirements	Water supply	1.5-6 bars dynamic pressure, pressure reducing valve or pressure booster pump may be required		
	Drain < 50	<50 cm above device top edge		
Pre-Treatment	Cartridge filter	Standard	Optional	Optional
	Activated carbon filter	Standard	Optional	Optional
	Tandem water Softener	Standard	Optional	Optional
	Carrying cart	Not available	Optional	Optional



TP-S/XL	RO-S/XL	RM 1000/3000	RM 100	RO Mini (HS)	HSS
<p>State-of-the-art double-pass water treatment system with optional integrated heat disinfection</p> <p>350-5,000 lt/h</p> <p>Suitable for mains and borewell water treatment</p> <p>Remote control</p> <p>HDF capable</p> <p>AISI 316 stainless steel piping and skid</p> <p>Serie-parallel mode</p> 	<p>State-of-the-art water treatment system with optional integrated heat disinfection</p> <p>350-5,000 lt/h</p> <p>Suitable for mains water treatment</p> <p>Remote control</p> <p>AISI 316 stainless steel piping and skid</p> <p>Serie-parallel installation</p> 	<p>Price performance water treatment system with optional ring loop disinfection</p> <p>250-3,000 lt/h</p> <p>Suitable for mains water treatment</p> <p>PVC-U and AISI 316 stainless steel piping and skid</p> <p>Serie-parallel installation</p> 	<p>Stand-alone water treatment system including a reverse osmosis device, basic pre-filtration and tandem softener inside</p> <p><140 lt/h</p> <p>Suitable for small dialysis centers and ICUs</p> <p>PA, PU, PVC-U and AISI 316 stainless steel tubing and skid</p> 	<p>State-of-the-art portable water treatment system provides high-quality permeate quickly and reliably ensuring hygienic conditions in the entire fluid system providing additional security for high volume HDF</p> <p><140 lt/h</p> <p>Suitable for ICUs and home dialysis</p> <p>Optional remote control</p> <p>Integrated heat disinfection option</p> 	<p>Online heat disinfection system for maximum hygiene and protection in dialysis</p> <p>150 lt/h hot water extraction for integrated dialysis machines disinfection</p> <p>Suitable for all brand RO systems for dialysis</p> <p>Optional remote control</p> <p>AISI 316 stainless steel piping and skid</p> <p>Ultrafiltration and 500 lt heater tank options</p> 

Remarks

Save Water Save Life



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Riva Mühendislik Su Arıtma Sistemleri

HQ: Macun Mah. 198. Cad. No: 8/1 RİVAMED
PLAZA, Yenimahalle/Ankara-TÜRKİYE

Factory: Saray Mahallesi 58. Sk. No:18
Kahramankazan/Ankara-TÜRKİYE

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