



RIVAMED RM 100
RO Mini
RO Mini (HS)

RIVAMED

Save Water, Save Life



**Portable Reverse
Osmosis**

RIVAMED PORTABLE

RIVAMED

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



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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 1/2

PARAMETER		RM 100	RO Mini	RO Mini (H5)
Feed Water	Quality	Mains water		
	Hardness	< 450 ppm	< 270 ppm	< 270 ppm
		CaCO ₃	CaCO ₃	CaCO ₃
	SDF	< 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

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Remarks

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Riva Mühendislik Su Arıtma Sistemleri

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