

# DIALYSIS WATER TREATMENT

## Reverse Osmosis Water Purification System

## RENOSMO DSRO Series

### DSRO Series

### 2M / 4M / 6M

### Reverse Osmosis System 12 l/m & 18 l/m & 24 l/m

Our DSRO Series RO machines are designed for medical applications. DSRO systems are known for durable operation, high quality product water production, easy installation and straightforward control.

DSRO Series Reverse Osmosis System was designed to meet the unique requirements of the dialysis treatment. With proper maintenance it will produce water of AAMI standards, provided the raw water complies with normal standards for drinking water.



#### Standard Features

- Low-energy design reduces electrical requirements and operating costs
- Fiber Glass with Vinylester lining– Max.150psi Pre-Treatment Tank
- Digital Autotrol Controller: 24 Hours 7 Days Timer for auto backwash
- RO Membrane - Ultra low pressure type
- Guard filter - 1-micron 20"
- Bacterial Filter - 0.2 micron, 10"

#### Materials of Construction

- Welded Frame: Stainless Steel
- Membrane Elements: 4x40 TFC
- Membrane Housing: Stainless Steel
- Inlet Plumbing: PEX Tubing
- High Pressure Plumbing: 250psi
- Control Enclosure: IP 65 (IEC 529)

#### Pump and Motor

- RO Pump: Vertical Multi-Stage Pump SUS
- RAW Water Pump: Horizontal multi-stage centrifugal pump
- Motor: 240VAC 1-Phase / 415VAC 3-Phase
- Material: Fully SUS parts in hydraulic fluid path
- Manufacturing: Grundfos – Denmark

#### Operating Parameters

- Operating Pressure: 160 ~ 220 psi
- Maximum Water Recovery: 50-60%
- Minimum Inlet Pressure: 30 PSI (2 bar)

## Technical Data

DSRO Series RO Specifications			
Model	DSRO-2M	DSRO-4M	DSRO-6M
Part Number			
240VAC 50/60Hz	2220192M-240	2220194M-240	2220196M-240
415VAC 50/60Hz	2220192M-415	2220194M-415	2220196M-415
Membrane Elements			
Number	2	4	6
Recovery Rate	50-60%	50-60%	50-60%
Permeate Rate	10-12 LPM	16-18 LPM	22-24 LPM
Concentrate Rate	10-12 LPM	12-16 LPM	18-24 LPM
Pump and Motor	3.0 kW	3.0 kW	3.0 kW
Approximate Overall Dimensions (mm)			
Height	1900	1900	1900
Width	1700	1700	1700
Depth	800	800	800
Approximate Shipping Weight			
	180 kg	200 kg	220 kg

**\*Optional model upon request: DSRO-3M & DSRO-5M**

### Safety Features

1. Built-in ELCB and MCB for all mains circuits for maximum safety
2. Digital display LCD Tough Screen / Selector switch
3. Programmable Logic Controller (PLC) Interface (Optional)
4. Pre-low raw water tank level with audio-visual alarm
5. Manual select raw water pump
6. Automatic system shutdown during low raw water tank level with audio-visual alarm
7. Automatic system shutdown at low feed pressure
8. Digital conductivity meter.
9. With 7 Days Timer for auto start / stop of RO System
10. Schematic flow diagram display
11. Remote Alarm at nursing counter



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