

Reverse Osmosis Water Treatment Systems

MEMRO'

MEMRO Packaged Reverse Osmosis Systems can be used to provide good quality water drinking water, from brackish or Saline water with TDS < 1500 ppm. These compact units are ideal for treating water capacities from 3000 LPH up to 10 000 LPH.



Features

- Pre-Filtration with isolating valve and upstream/downstream pressure Gauges
- Inlet Solenoid Valve
- Adjustable low inlet pressure switch
- Multi stage Vertical Pump
- Valve to adjust the service pressure with pressure Gauge
- Fiberglass membrane housings
- Low energy and BW membranes
- Conductivity meter, Stainless steel concentrate and recirculation globe valve.
- Flush solenoid Valve
- Impulse turbine to measure Permeate flow, Concentrate and Recirculation Flow
- PVC connection valve for CIP
- PLC with colour touch screen 3 "1/2
- Electrical enclosure 400 V |+ GND

Model	MR3000	MR4000	MR5500	MR7500	MR10000
Permeate flowrate at 15 degrees (L/hr)	3000	4000	5500	7500	10000
Concentrate Flow (L/hr)	1000	1333	1833	2500	3333
Feed Flow (L/hr)	4000	5333	7333	10000	13333
Recovery	75%	75%	75%	75%	75%
Number of Membranes	2	3	4	6	8
Service Pressure (bar)	13	12	12	12	12
Permeate Counter Pressure (bar)	0,5	0,5	0,5	0,5	0,5
Power (KW)	5,5	5,5	5,5	7,5	11
Electrical Supply	3 X 400 V + GND				
Connection DN(mm) Feed/Permeate/Drain	40/25/15	40/32/15	40/32/20	50/40/25	50/50/25
Dimensions (mm)					
Length	3000	3000	3000	3000	3000
Depth	1000	1000	1000	1000	1000
Height	2100	2100	2100	2100	2100

Application Areas

Process Water Applications
Food and Beverage
Drinking Water
Electroplating
Pre-treatment for Mixed Bed
Boiler Feed Water
Pharmaceutical
petrochemical
Waste Water re-use
Agriculture
Pre-treatment for EDI
Dialysis feed water
Oil and Gas applications



Pre-Treatment Options Available

Resin filter – includes Resin, Riser and Strainers, digital valve, brine Tank and Grid with Brine valve

Sand Filter – with Auto backwash head and AFM or sand Media installed

Granular Carbon filter – with auto backwash head and Granular Carbon installed

Post Treatment Options

Post Treatment includes complete UV system and Spare UV Globe

Stainless steel recirculation system with UV light on Recirculation line for bacteria and endotoxin disinfection, with Stainless steel storage tank.

MemAqua Solutions are able to manufacture, supply and fit these Packaged plants as per our client's requirements and we tailor make systems for the following applications where specific treatment processes are required.

- Drinking water for Hotels, restaurants, hospitals and residences, where we can also treat high levels of Iron, fluoride or Nitrate using our specifically selective Ion Exchange Resins.
- High Purity water for the Dialysis Sector where we can supply direct feed into the Dialysis units or via a storage tank with UV circulation for bacteria control.
- Provide safe drinking water to under-privileged communities by treating river, surface or borehole water and providing storage facilities and distribution networks for supply accordingly.
- We also supply smaller RO units for under the counter and over the counter household and Office Supply.

To the best of our knowledge, the information provided in this brochure is accurate. MemAqua Solutions reserves the right to amend the information herein, without notice.

Please email us at jeremy.naidoo@memaqua.co.za or visit our webpage at www.memaqua.co.za for any updated versions accordingly