

# ML RO 1000

## TECHNICAL DATA

Reverse osmosis system for elimination (> 95 %) of salts and minerals from main water with a capacity of 6340 GPD.

The system is developed by ML System with focus on reliable and hygienically correct solutions. The system applies a membrane separation process whereby water molecules may pass through the membrane, while the majority of salts and minerals are retained.

The system is fitted on a frame with a separate reservoir tank and all components are assembled, tested, and ready to use.



ML RO 1000 is equipped with the following components:

### Standard:

- PLC control
- Separate pump provides 58 psi output pressure
- Reservoir tank closed with 0.2  $\mu\text{m}$  breathing filter
- Overflow protection
- Type approved water meter for produced permeate
- 5  $\mu\text{m}$  filtration of the tap water
- Pressure switch for protection of pump
- Operational hour meter
- Stopcock for RO water

### Options:

- Water softener
- Active carbon filter
- UV system for sterilization of water
- Conductivity meter/alarm
- Dosage unit for regulation hardness
- ML RO 1000 front view

### Benefits:

- Delivered on frame and with separate reservoir tank
- Fully assembled and tested
- All components exposed to water are made of corrosion resistant material
- The hoses are stainless steel braided or high-pressure hoses

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Specifications:	
Capacity*:	4.4 GPM at 59 °F
Permeate quality:	5 < EC < 30 µS/cm
Permeate/Concentrate ratio:	approx. 75 / 25 %
Reservoir tank:	132 gallons
Size, frame: (L x W x H)	56 x 28 x 63 inches
Size, reservoir tank: (L x W x H)	31.5 x 31.5 x 50 inches
Weight:	600 lb.
Sound pressure level:	< 80 dB
Supply voltage:	3x400 VAC+GND+N, 50Hz, 3.1KW, 16A or 3x230 VAC+GND+N, 50Hz, 3.2KW, 16A or 3x208 VAC+GND+N, 60Hz, 2.6KW, 20A
Dissolved salt removal:	> 95 %
Water connection, tap water:	3/4" RG
Water connection, RO-water:	3/4" RG
Water connection, drainage:	3/4" RG
Outgoing pressure, RO-water:	43 – 60 psi (3.0-4.2 bar)
* Capacity may vary depending on the quality of the tap water and decreases by approximately 3 % per decrease in °F of the temperature of the water.	

Pre-Conditions:	
Water supply:	Drinking Water Quality
	36 - 101 psi (2.5-7 bar) @ 6.1 GPM
Hardness:	Max. 1 gr/gal
Conductivity:	250-1000 µS/cm
Free chlorine:	Max. 0.05 mg/l
TDS:	Max. 625 mg/l
Silt index:	Max. 3
KMnO4:	Max. 10 mg/l
Fe:	Max. 0.2 mg/l
Mn:	Max. 0.05 mg/l
NTU:	Max. 1.0
Temperature:	Max. 59 °F