

# ML RO 100, ML RO 300

## TECHNICAL DATA

TD094GB-02	02-12-14	JLJ/KK
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Reverse osmosis system for elimination (> 95 %) of salts and minerals from main water with a capacity of 100 l/h and 275 l/h respectively.

The systems are developed by Condair A/S with focus on reliable and hygienically correct solutions. The plant uses a membrane separation process in which water molecules can pass through the membrane, while the majority of salts and minerals are retained.

The systems are fitted on frames with a separate reservoir tanks and all components are assembled, tested, and ready to use.



ML RO 300 front view

ML RO 100 and ML RO 300 are equipped with the following components:

### Standard:

- PLC control
- Separate pump provides 4 bars output pressure
- Reservoir tank closed with 0.2 µm breathing filter
- Overflow protection
- Type approved water meter for produced permeate
- 5 µm filtration of the tap water
- Pressure switch for protection of pump
- Operational hour meter
- Stop valve for RO water

### Options:

- Active carbon filter
- UV system for sterilization of water
- Conductivity meter/alarm
- Dosage unit for regulation hardness

### Benefits:

- Compact unit
- 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

Technical specification on page 2

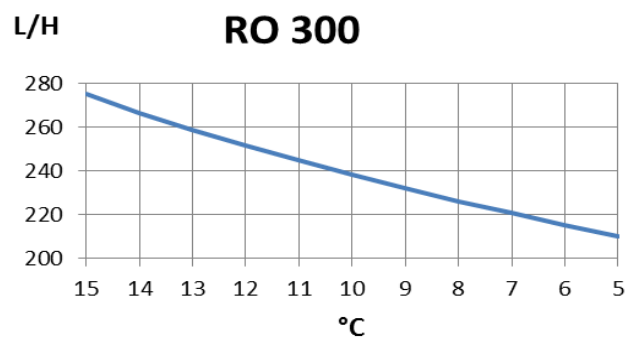
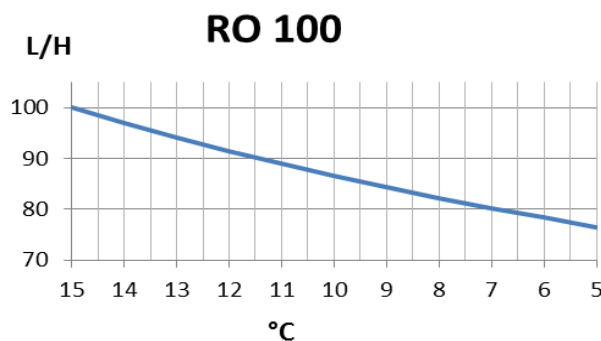
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Specifications:	ML RO 100:	ML RO 300:
Capacity*:	100 l/h at 15 °C	275 l/h at 15 °C
Permeate quality:	5 < EC < 30 µS/cm	5 < EC < 30 µS/cm
Permeate/concentrate ratio	approx. 50 / 50 %	approx. 50 / 50 %
Reservoir tank:	50 l	50 l
Size, frame:	(LxWxH) 860 x 700 x 1600 mm	(LxWxH) 860 x 700 x 1600 mm
Weight:	110 kg	115 kg
Sound pressure level:	< 75 dB	< 75 dB
Supply voltage:	3x400 VAC+GND+N, 50Hz, 1,6KW, 16A or 3x230 VAC+GND+N, 50Hz, 1,6KW, 16A or 3x208 VAC+GND+N, 60Hz, 1,4KW, 16A	3x400 VAC+GND+N, 50Hz, 2,1KW, 16A or 3x230 VAC+GND+N, 50Hz, 2,1KW, 16A or 3x208 VAC+GND+N, 60Hz, 1,8KW, 16A
Dissolved salt removal:	> 95 %	> 95 %
Water connection, tap water:	3/4" RG	3/4" RG
Water connection, RO-water:	3/4" RG	3/4" RG
Water connection, drainage:	3/4" RG	3/4" RG
Outgoing pressure, RO-water:	3.0-4.2 bar	3.0-4.2 bar

\* Capacity may vary depending on the quality of the tap water and decreases by approx. 3 % per decrease in °C of the temperature of the water.



Preconditions:	ML RO 100	ML RO 300
Water supply:	Drinking water quality, 2.5-7 bar @200 l/h	Drinking water quality, 2.5-7 bar @600 l/h
Hardness:	max. 20 °dH	max. 20 °dH
Conductivity:	250-1000 µS/cm	250-1000 µS/cm
Free chlorine:	max. 0.1 mg/l	max. 0.1 mg/l
TDS:	max. 625 mg/l	max. 625 mg/l
Silt index:	max. 3	max. 3
KMnO <sub>4</sub> :	max. 10 mg/l	max. 10 mg/l
Fe:	max. 0.2 mg/l	max. 0.2 mg/l
Mn:	max. 0.05 mg/l	max. 0.05 mg/l
NTU:	max. 1.0	max. 1.0
Temperature:	max. 15 °C	max. 15 °C