

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 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



ML RO 300 front view

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ML RO 100, ML RO 300

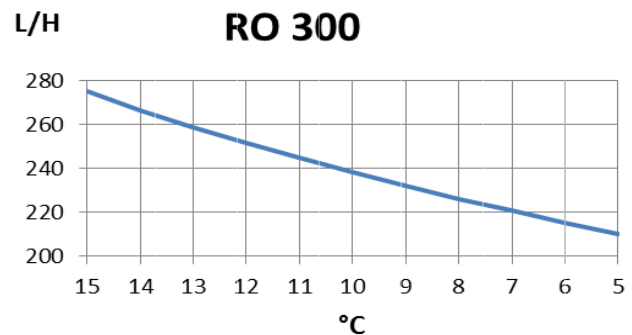
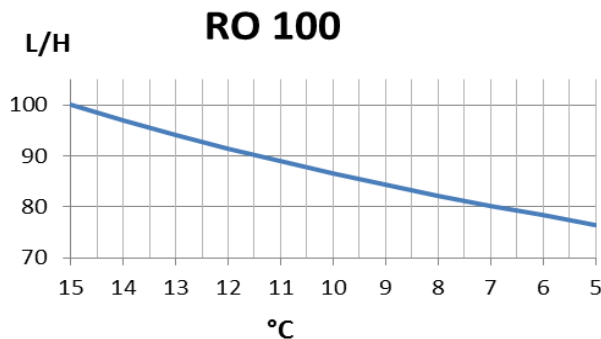
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Specifications:

	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 ₄ :	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