

MLP RO 300

TECHNICAL DATA

TD083GB-02	08-07-09	LR/LJA
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Combined high-pressure pump station and reverse osmosis system with a capacity of 265 l/h.

The combined system is developed by ML System with focus on reliable and hygienically corrects humidification solutions.

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



MLP RO 300 is equipped with the following components:

Standard:

- PLC control for up to 4 departments with Integrated start-up automatics
- Reservoir tank closed with 0.2 µm breathing filter
- Overflow protection
- Stainless high-pressure pump
- High-pressure gauge
- Type approved water meter for produced permeate
- 5 µm filtration
- UV system for sterilization of water
- Thermostat and pressure switch for protection of pump
- Operational hour meter
- Safety circuit for max hygostat

Options:

- Active carbon filter
- Supply to moistening water mixer
- Conductivity meter/alarm.

Benefits:

- Compact unit
Based on water hydraulics i.e. stainless and oil free
- no oil change.
- Delivered on frame easy to place.
- 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:

High-pressure pump:	Piston pump PAH 2 with 5 pistons
Working pressure:	30-70 bar (435-1015 PSI)
Capacity:	30-265 l/h at 50Hz + 20 % at 60Hz
Capacity, RO water*:	275 l/h at 15°C, TDS<625 mg/l
Permeate quality:	5 < EC < 30 µS/cm.
Permeate/Concentrate ratio:	approx. 50 / 50 %
Reservoir tank:	50 l
Size (LxWxH):	860 x 700 x 1600 mm
Weight:	130 kg
Sound pressure level:	< 75 dB
Power supply:	3 x 400 VAC+GND+N, 50Hz, 2,5KW, 16A or 3 x 230 VAC+GND+N, 50Hz, 2,6KW, 16A or 3 x 208 VAC+GND+N, 60Hz, 2,7KW, 16A
Dissolved salt removal:	> 95 %
Water connection, tap water:	3/4" RG
Water connection, RO-water:	3/4" RG

* 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:

Water supply:	Drinking Water Quality, 2.5-7 bar @550 l/h
Hardness:	max. 20 °dH
Conductivity:	250-1000 µS/cm
Free chlorine:	max. 0.1 mg/l
TDS:	max. 625 mg/l
Silt index:	max. 3.0
KMnO ₄ :	max. 10 mg/l
Fe:	max. 0.2 mg/l
Mn:	max. 0.05 mg/l
NTU:	max. 1.0
Temperature:	max. 15 °C