

ProMaqua® RO unit Type ecoPRO 900

For desalination of filtered and softened or chemically conditioned water with a max. salinity of 1.000 mg/l (to be free of Chlorine, colloidal Silica, parameters as Ba, Sr, Mn, Al, F, PO4 and COD to be within WHO standards, turbidity ≤ 0.5 NTU and SDI ≤ 3), consisting of:

- 1 compact frame made of PP
- 1 front table for control instruments made of PP
- 1 pre-filter made of PP incl. 5 μ m filter cartridge
- 1 set of glycerol filled pressure gauges, housing made of stainless steel
- 1 solenoid valve made of brass for raw water
- 1 pressure switch for raw water line, made of PVC
- 1 set of check valves, made of PVC
- 1 high pressure centrifugal pump mainly made of stainless steel
- 1 set (3pcs) of pressure vessels made of fibre glass
- 1 set (3pcs) of membrane modules made of composite membrane (PE, PS, PA*)
- 1 set of ball valves for regulation of recirculation and concentrate, made of stainless steel
- 1 set of flow meters for permeate and concentrate made of polyamide
- 1 set of sampling valves made of PVC
- 1 interconnecting piping made of PVC
- **(Option)** system for chemical cleaning, disinfecting or stand still conservation of modules and piping incl. pump made of stainless steel, tank made of Polypropylene, 3-way-valves made of PVC and emptying valve made of PVC, tank made of PE
- 1 Microprocessor control panel according to EN 60204, DIN VDE 0113 standard - protection class IP 54 incl. backlit graphical display with real text messages, digital conductivity meter incl. PT100 temperature sensor, adjustable limit values, operation meter, operation and malfunction real text messages and LEDs, main switch, menu for activation of automatic operation and cleaning or disinfecting, 1 potential-free contact for remote alarm, terminals for pre-treatment units as softener, dosing pumps, hardness control, as well as level control for permeate tank.
Unit wired, pre-assembled and ready for installation.

* PE = Polyester, PS = Polysulfon, PA= Polyamide ; PP= Polypropylene

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Technical Data:

Permeate flow rate at 15°C	approx. 0.9	(m ³ /h)
Operating pressure	approx. 12	(bar)
Recovery*	max. 75	(%)
Raw water consumption RO unit	approx. 1	(m ³ /h)
Required raw water pressure (min./max.)	3 / 6	(bar)
Rejection rate	90 – 95	(%)
Mains supply	400/50	(V/Hz)
Power installed	2.2	(kW)
Connections: raw water, permeate ,concentrate	20, 15, 15	(DN)
Dimensions: H x W x D	1650 x 700 x 720	(mm)

Attention:

ProMaqua RO units are produced according to EC (European Community) directives and shall be delivered incl. EC conformity declaration as well as CE (Certificate European) plate.

- * The max. recovery can only be adjusted in case of best raw water quality, fouling index ≤ 3.0 smooth operation, and according to the needed permeate quality.



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