

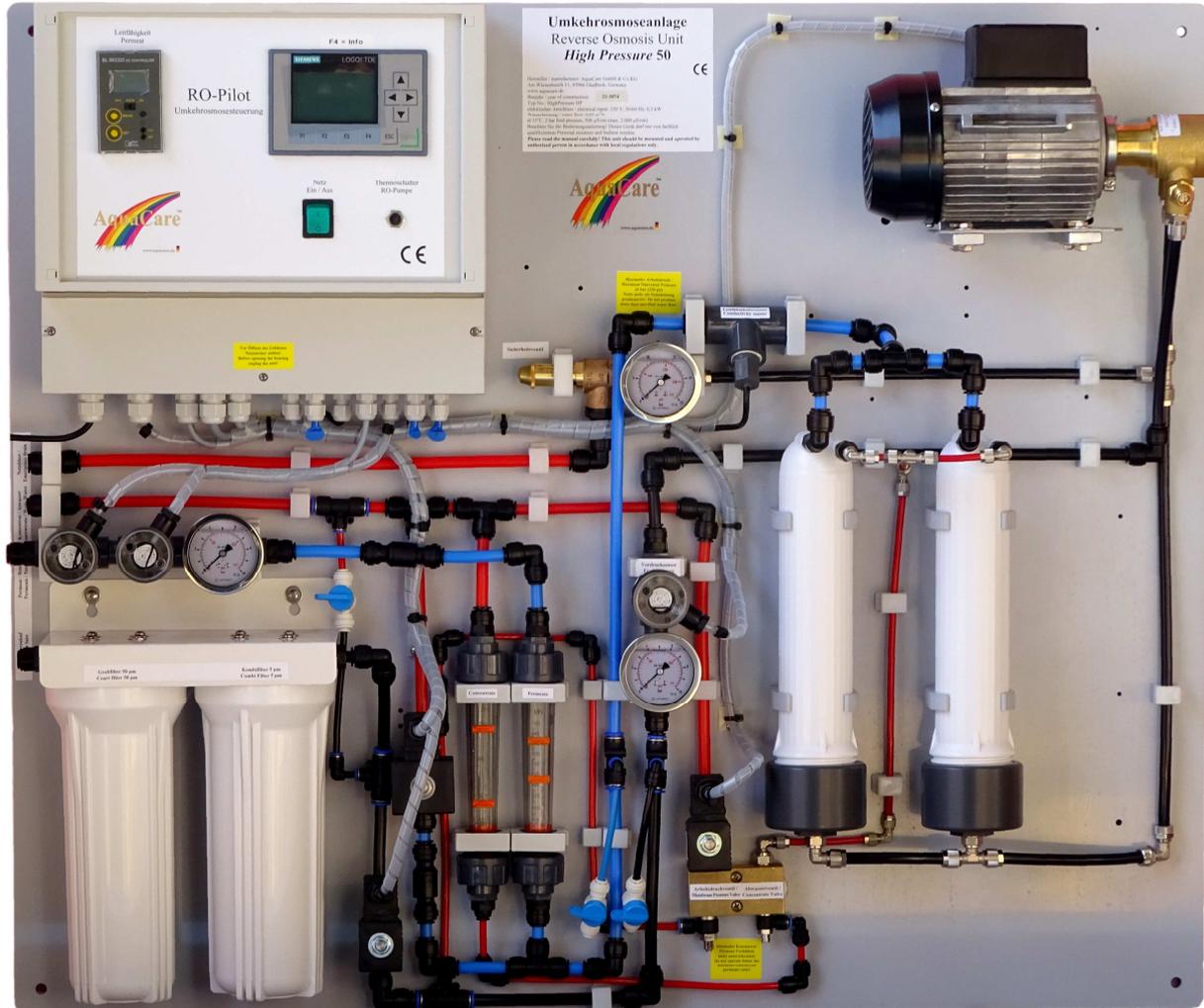
# Reverse Osmosis Systems

Type *High Pressure 25-225*



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reverse osmosis unit *High Pressure 50* with pressure vessel control and permeate reject valve  
(modifications possible)

## Wall mounted R.O. system consisting of:

All components mounted on a PVC-u plate for wall installation; 10" sediment 50 µm and 10" combi filter (activated carbon plus 5 µm sediment) with drain valve for maintenance; **pre pressure switch** (feed pressure) for protecting the pump against cavitations and running dry; inlet **solenoid** made of brass; **roto vane pump** made of brass; **high pressure tubing** made of PA (polyamide); **low pressure tubing** made of PVC-U and PE (polyethylene); **pressure vessels** made of PP (polypropylene); bacteria resistant low energy thin film composite **TFC membranes** made of polyamide and polysulfone; **flushing solenoid** made of brass; **flow meters** for permeate and concentrate (float system); glycerine filled **pressure gauges** for pre pressure, filter pressure, pump pressure, permeate pressure; **sample valves** for permeate, concentrate and feed; **conductivity cell** for measuring electrical conductivity (proportional to TDS); **reject flow** and **operation pressure** adjusted with needle valves made of brass; **check valve** for permeate outlet (if pressure tank is used); **Control unit "ROE1"** with microprocessor and two-line illuminated text display (DE, EN,

FR, IT, PL, RU), display of the current conductivity of permeate and temperature, flushing functions, pre-pressure control, operating hours counter, automatic tank filling (if level sensors or pressure tank control are installed), permeate drain valve; potential-free contact for collective fault.  
**Options:** stainless steel frame; hardness control monitor; mixing valve with hard water; conductivity meter for mixed water; permeate reject valve for better permeate quality at starting procedure; PLC; pressure tank with control; leakage sensor...

## Technical data of HP 25...225

Type	HP25	HP50	HP75	HP100	HP150	HP225
Order number	140-006	140-012	140-018	140-024	140-036	140-054
Capacity in litres per hour*	25	50	75	100	150	225
Capacity in m <sup>3</sup> per day*	0.6	1.2	1.8	2.4	3.6	5.4
Recovery**	75%					
Salt Rejection**	>97%					
Operation temperature	4...30°C					
Ambient temperature	4...40°C					
Feed pressure during operation	1...6 bar					
Operation pressure	< 16 bar					
Concentrate circulation	yes					
Number and size of modules	1 × 2012	2 × 2012	1 × 2812	2012+2812	2 × 2812	3 × 2812
Type of membrane	TFC made of polyamide (PA)					
Water connections	feed, permeate and concentrate PE 10mm (DN8)					
Power consumption	0.3 kW****			0.4 kW****		0.8 kW****
Electrical connection***	230 V, 50 Hz					
Dimensions	1000 × 850 × 200 mm					
Weight	30...40 kg					
Shipping weight	45...55 kg					

\* all data at 15°C, 2 bar inlet pressure and 500 ppm inlet water quality

Attention! Inlet water quality: iron < 0.1 mg/l, manganese < 0.05 mg/l, barium and strontium not detectable, chlorine < 0.1 mg/l if any activated carbon filter is mounted at inlet, maximum 2,000 µS/cm (1,300 ppm); SDI<sub>15min</sub> < 3.0. Data will vary with other feed water conditions.

\*\* depending on feed water quality and pre-treatment; \*\*\*other connections possible; \*\*\*\* at 75% system recovery.

## Some options



with stainless steel frame



without micro processor control



with pressure tank and its control



built-in a stainless steel cabinet



complete with softener, pressure tank, ultra pure water resin