

Booster pumps for R.O. systems



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Booster pumps for R.O. units up to about 160 liter per day (50 GPD)

Field of application

If the tap water pressure falls below 3 bar, a good performance of a reverse osmosis system is no longer possible. The water quality also degrades rapidly at low pressure. AquaCare's low-voltage booster pump increases the inlet pressure by approx. 4-6 bar, depending on the type and performance of the system. This pump has not been designed for professional use - therefore the pump cannot be operated continuously. An average service life of 10,000 hours is achieved. The pump is secured by a dry-running switch.

Technical data

Type	50G	200G	300G
Order number	Boost50	Boost200	Boost300
Maximum size of the reverse osmosis unit (nominal capacity)	160 l/d 8 l/d	360 l/d 15 l/d	660 l/d 30 l/d
Maximum operating pressure	8 bar		
Operating temperature	4...40°C		
Connectors	3/8" BSP female thread		
Pump dimensions L×W×D	195×100×85 mm	195×100×85 mm	195×100×85 mm
Dimensions transformer L×W×D	125×53×35 mm	160×100×75 mm	200×64×40 mm
Pump weight	1.9 kg	2.2 kg	2.2 kg
Weight transformer	0.2 kg	2 kg	0.4 kg
Electronic transformer type	Yes	No	Yes
Scope of delivery	Pump, transformer, pressure switch "low", fittings, Screws and plugs		
"Suitable" for the living room	Yes	No	No

Attention! Use only in closed, dry areas; after 6 hours of operating period at least 1/2 hour of break; avoid frequent switching on and off; not for continuous use suitably. If you want to use manometers, these must be filled with Glycerin, in order to absorb the manometer needle vibration.

Booster module for R.O. systems



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The AquaCare pressure module consists of an industrial rotary vane pump, glycerin filled pressure gauge, run dry protection, concentrate bypass and mounting material. All components are pre mounted on a white panel.

Field of Application

Since both the output of a reverse osmosis system and the quality of the pure water produced depend on the tap water pressure, a system without a pressure pump should not be used for tap water pressures below 3 bar.

The pressure booster module was developed in order to be able to operate systems with a higher nominal output even at low inlet pressure. Only industrial components that guarantee long service life were used. The module is absolutely endurance-proof.

The supplied pump protection with pressure switch ensures that the pump is stopped at an inlet pressure below 1 bar. With the achieved working pressure of 8 bar, the reverse osmosis units achieve twice the nominal output, e.g. an Excel 660 then delivers 1300 litres per day. A further advantage is that these plants can be operated with a waste water-pure water ratio of 1:1 with soft feed water. The concentrate recirculation system installed as standard thus saves water. We will be pleased to advise you on the application.

Technical data			
Booster module	DEM 300	DEM 600	DEM 900
Max. Nominal size of the reverse osmosis system*	700 l/d 30 l/h	1400 l/h 60 l/h	2200 l/d 90 l/h
Adjusted working pressure in bar**	8 bar		
Used pump	Rotary vane pump with brass housing (stainless steel possible)		
Concentrate recycling	Yes		
Pump dry running protection	Yes		
Electrical connection	230 V, 50 Hz, 245 W	230 V, 50 Hz, 370 W	230 V, 50 Hz, 750 W
Hose connections	10 mm		
Dimensions	41 × 41 × 20 cm	51 × 41 × 20 cm	51 × 41 × 20 cm
Weight	5 kg	11 kg	15 kg

* other sizes available, ** other pressures up to 16 bar available