

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)

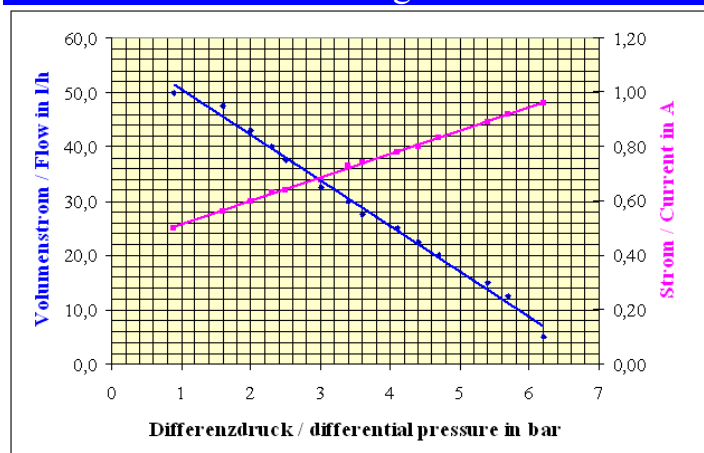
Field of application

If the tap water pressure falls below 3 bar, a good achievement of a reverse osmosis plant is no longer possible. Likewise the water quality worsens rapidly with low pressure. The low voltage booster pump of AquaCare increases the input pressure by approx. 6 bar (with 30 liters pro day units) up to approx. 3 bar (with 160 liters pro day units). This pump was not conceived for the professional range - therefore the pump may not be operated in continuous operation. The pump is made for an average life time of about 10,000 hours. Secure the pump against run dry operation. For the professional range AquaCare offers a pressure module that is for larger achievements and is appropriate for continuous operation.

Technical Data

Order number	119-121
Max. size of R.O. unit	160 l/h
Dimensions L×H×W	180×90×90 mm
Weight pump weight power supply unit	2.3 kg 0.8 kg
Connections	3/8" female thread
Operation temperature	4...40°C / 40...104°F
Operation pressure	1...8.5 bar / 15...120 psi
Maximum continuous running time	6 hours
Average life time	10,000 hours
Noise level	„suitable for living room“
Power supply	24 V DC
Power supply unit	230 V 50/60 Hz 20 VA

Flow Diagram



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

Water flow and quality of the produced water of a reverse osmosis unit depend on the water pressure. Below 2-3 bar (30-40 psi) it makes no sense to operate a R.O. system. To operate the units *Excel* or *Classic* without enough tap water pressure the AquaCare pressure module is developed. Only components with industrial standard are used to ensure a long life and 100% operation per day. The pressure module is protected against tap water pressure failure. The delivered run dry

protection is only to push into the mains and the pressure module must be connected and the R.O. units works with about 8 bar. So the R.O. unit produces double water flow with an excellent rejection, e.g. an *Excel* 160 produces 320 liter per day.

The AquaCare pressure module is suitable for all R.O. units with a flow up to 800 l/d. An additional advantage is the reached concentrate-permeate ratio of normally 1:1 (except with very hard water). The concentrate bypass makes this possible.

Technical Data		
Type of pressure module	300	1000
Order number	119-125	119-132
Max. size of R.O. unit*	800 l/d	2500 l/d
Adjusted operation pressure**	8 bar / 115 psi	
Built in pump	Roto vane pump with brass housing (stainless steel possible)	
Concentrate bypass	yes	
Run dry protection	yes	
Electrical connection	230 V, 50 Hz, 245 W	230 V, 50 Hz, 1100 W
Hose connections	6 mm	10 mm
Dimensions	41 × 41 × 20 cm	51 × 41 × 20 cm
Weight	5 kg	10 kg

* other sizes possible, ** other pressures up to 16 bar /230 psi possible