

Reverse Osmosis Units Type *Excel*



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All reverse osmosis units type *Excel* of AquaCare are equipped with a mounting plate, that contains all parts. A 10" combi filter (5 µm sediment filter and activated carbon) in a white housing (option: clear housing) eliminates all particles and oxidizing substances like chlorine and ozone. The reverse osmosis module is equipped with a low pressure high quality TFC membrane and a flushing valve to ensure best quality. Scope of delivery: 5 m PE pressure tube, tap water connector 3/4", wrench for filter and membrane housing, mounting material, detailed instruction manual.



reverse osmosis unit *Excel*
with clear housing and pressure gauge
(modifications possible)

The advantage of reverse osmosis

- Reverse osmosis is an efficient membrane filtration technique which reliably removes hardness and detrimental substances such as nitrate, silicic acid, pesticides and traces of pharmaceuticals from drinking water and effectively retains bacteria, viruses, algae, protozoa and radioactive particles.
- Easy to operate: no addition of chemicals – no electrical supply (standard types)

The advantage of an AquaCare reverse osmosis unit at a glance

- The units are equipped with an combi filter to remove chlorine and sediments to protect the reverse osmosis membrane.
- Only the best quality polyamide / polysulfone membranes (TFC) are used: rejection 95-98%*; 90 to 1000 liters of pure water per day*; realistic concentrate / pure water ratio of 3:1; special types with 1:1 (50% recovery)
- The built-in flushing system considerably increases the life of the membrane.
- All tube connections with reliable and efficient AquaCare push-fit connections; complete installation material for easy assembly
- *Excel* units can be supplied with a lot of equipment.
- Made in Germany.

Reverse Osmosis Units

Type *Excel* 1:1

Reverse Osmosis Units with 1:1 Technique

The *Excel* series 1:1 are reverse osmosis systems on a white mounting plate similar to the basic model of *Excel*. An additional low-voltage-pressure pump is mounted, which enables a concentrate recirculation. Therefore AquaCare is able to implement small systems with a concentrat-permeate-water ratio of 1:1 (50% recovery). A run-dry protection (at less than 1 bar) saves the booster pump against running-dry. The 1:1 systems is expandable with a reverse osmosis control (No. 600-005) and a conductivity measurement (610-010).



Reverse Osmosis Unit *Excel* 1:1 (modifications possible)

Technical Data of *Excel* and *Excel* 1:1

	<i>Excel</i> 90	<i>Excel</i> 240	<i>Excel</i> 660	<i>Excel</i> 180 1:1	<i>Excel</i> 360 1:1	<i>Excel</i> 1000 1:1
Order number	101-009	101-024	101-060	105-018	105-036	105-100
Daily flow in l/d*	90	240	660	180	360	1000
Extendable	yes		no	no		
Feed pressure	3...8 bar			1...6 bar		
Booster pump	no			yes		
Typical operation pres.	3...8 bar (see feed pressure)			approx. 8 bar		
Rejection	95-98%					
Pre-filtration	10" pre-filter with 5 µm sediment filter and activated carbon					
Life time pre-filters	ca. 6...12 Monate					
Membrane type	Low pressure spiral wound (TFC) membrane of polyamide-polysulfone					
Membrane size	1812-36	1812-100	2012-300	1812-50	2012-100	2812-300
Flushing system	manually (automatically on request)					
Water production	manually (automatically on request)					
Ratio concentrate-permeate, approx.	3:1 fixed			1:1 fixed		
Recovery, approx.	25%			50%		
max. feed hardness	20°dH			15°dH		
Weight	3.9 kg		4.8 kg	6.9 kg		
Maße: B×H×T	41 × 41 × 15 cm					
Electrical connection	-			230 V 50/60 Hz		
Electrical power	-			30 W		120 W

*permeate flow ±15% at 4 bar feed pressure, 15°C and 500 mg/l total dissolved solids (TDS)