

Reverse Osmosis Unit with pressure tank *Excel DT (P)*



AquaCare GmbH & Co. KG
Am Wiesenbusch 11 • D-45966 Gladbeck • Germany
☎ 0 20 43 - 37 57 58-0 • 📠 0 20 43 - 37 57 58-90
www.aquacare.de • info@aquacare.de.de



Excel DTP and Excel DT with pressure tank

Field of application

Drinking water production for domestic purpose and small restaurants;
Water production for humidification units: ultra sonic, high pressure nozzles, resistant steam units, gas steam units, centrifugal units, electrode steam units (only with mixing valve).

Advantages of the reverse osmosis unit “Excel DT (P)”

Complete drinking water unit for wall mounting

consisting of: 1 pre filter with block filter 5 µm (activated carbon plus sediment filtration); hydraulic valve; low voltage pump with pressure switch and transformer (only type *Excel DTP*), tubes made of polyethylene (PE); membrane pressure housing made of polypropylene (PP); bacteria safe TFC membrane made of polyamide and polysulfone; flow reducer; pressure tank (membrane system) 2 Gal (about 8 liters) with butyl membrane; post combi filter for eliminating odour; all parts (except tank) are mounted on a plastic mounting plate ready for operation.

Supplied with: feed water connector 3/4“ (1/2” available, too); 6 mm tubes; mounting material; instruction manual in German and English.

Required feed water quality:

A water presser of minimum 4 bar (1 bar for type “P”) is necessary to get best water quality. For *Excel DTP* you need additionally an electrical connection.
Iron and manganese: max. 0.1 mg/l; total hardness: max. 20°dH; strontium and barium: not detectable; electrical conductivity: max. 2,000 µS/cm; SDI blocking index: < 3.0.





Technical data

Type	Excel DT 120	Excel DTP 120	Excel DTP 240
Order number	120-010	120-011	120-012
Permeate flow at 0 bar permeate pressure	5 l/h; ca. 120 l/d*	8 l/h; ca. 200 l/d*	16 l/h; ca. 380 l/d*
Permeate flow at 2 bar permeate pressure	3 l/h; ca. 70 l/d*	5 l/h; ca. 120 l/d*	12 l/h; ca. 290 l/d*
Rejection	95...99%		
Recovery	20...25% (50% on request)		
Ratio concentrate (brine) : permeate (pure water)	3 : 1...4 : 1 (1 : 1 on request)		
Operation temperature	4...30°C		
Ambient temperature	4...40°C		
Feed pressure (during operation)	4.0...8.0 bar	1.0...4.0 bar	
Water connection	6 mm tube		
Connection type	¾" male BSP thread		
Electrical connection	none	230 V 50/60 Hz 22 VA	
Dimensions L × H × T	410 × 410 × 150 mm	580 × 410 × 150 mm	
Tank D × H	220 × 350 mm		
Tank volume	ca. 8 liters		
Tank membrane	butyl rubber		
Filter size	10" length, 2,5" diameter (international standard size)		
filter type	5 µm combi filter (block filter)		
Membrane size	1812 / 50 GPD		2012 / 100 GPD
Weight	ca. 7 kg	ca. 12 kg	
Life time of pre filters (depending on feed water quality)	ca. 6-12 months		
Life time of membrane (depending on feed water quality)	ca. 3-7 years		

**all data at 15°C, 4 bar feed pressure and 500 mg/l TDS*

Attention! Feed water quality: iron < 0,1 mg/l, manganese < 0,05 mg/l, barium and strontium not detectable, max. 2000 µS/cm conductivity (ca. 500 mg/lTDS), blocking index <3.

Custom made R.O. units by AquaCare

			
Small units without pressure pump for aquaristic	Professional small units with pressure pump: 400 to 1200 l/d	Medium units with micro controller: 0,2 to 1 m ³ /h	Large units with dosing systems: 2 to 250 m ³ /h