

# Reverse Osmosis Unit

## *Excel-Turbo 50 to 150\**



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modifications possible

### Field of application for type *Excel-Turbo*

If the water flow of the models *Excel* is not enough or the pre-pressure of the feed line is below 3 bar the model *Excel-Turbo* is the right choice. This unit is equipped with all necessary parts for a safe and long operation. The *Excel-Turbo* is suitable for continuous work.

### Equipment

- integrated booster pump (professional industry type) for high flow and good recovery – depending on feed water quality up to 75%
- booster pumps with run-dry protection and motor overload switch
- automatical filling of a pressure-less tank (Min-Max control)
- two glycerol filled pressure gauge for filter pressure and operation pressure
- concentrat recycling for high cross-flow and long life time
- water water and operation valve for precise adjustment
- two flow meters for permeate (pure water) and concentrate (waste water)
- compact design

<b>Technical data of model <i>Excel-Turbo</i></b>			
Model	Excel-Turbo 50	Excel-Turbo 100	Excel-Turbo 150
Order number	102-050	102-100	102-150
Flow* in litres / hour	50	100	150
Daily flow* in l/d	1200	2400	3600
Rejection*	95 - 99% depending on recovery (recovery depending on feed water quality)		
Operation temperature	5 to 35°C		
Pre-pressure	1...6 bar during operation		
Operation pressure	typically 8 bar		
Construction	Board unit (wall mounting)		
Type and materials of pump	Roto-vane pumpe, housing made of brass (stainless steel on request), water touched materials: brass / stainless steel and wasserberührte Teile aus Messing / Edelstahl und graphite		
Motor	One-phase motor, IP 44, 1425 min <sup>-1</sup> , self-ventilated, overload protected, suitable for continuous operation		
Waste water – pure water - ratio	3:1 to 1:1 (depending on feed water quality)		
Recovery	25 to 75% (depending on feed water quality)		
Type & material of module	Spiral wound module made of polyamide-polysulfone (TFC)		
Number of moduls	1	2	3
Size of modules	2812		
Pre-filtration	10" combifilter (activated carbon + sediment filter 5 µm)		
Water touched materials functions	Polyamide, Polyethylene, Polypropylene, NBR and pump materials Automatical filling of a press-less tank (Min-Max control) with detection of wrong conditions; run-dry protection		
Electrical connection	230 volts, 50-60 Hz (others on request)		
Connected load in kW	0.25	0.37	
Water connections	10 mm PE pressure hose (push fit fittings)		
Dimensions (L×W×D), mm	750 × 590 × 200		
Weight in kg	20	22	23

\* at 15°C, 2 bar pre-pressure and 500 ppm TDS; Data will vary with other feed water conditions.

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. The feed water should not contain bacteria with numbers more than recommended in drinking water ordinance.

Modifications possible