

Reverse Osmose

UO Budget 80 and 130



Undersink unit for desalination of softened drinking water according to German drinking water regulations (free chlorine not detectable).

With controller RO 524.

Drinking water can also be desalinated without pre-treatment. However, in this case the recovery rate is reduced. The decisive factor is the water analysis.



Geonwater BV Centaurusweg 148-02 TILBURG
T. +31 (0)13 533 44 69 E. geon@geonwater.nl

www.geonwater.nl

Series UO Budget



Unit design

Stainless steel plate used as installation panel.

Special inlet filter with 5 µm activated carbon filter element,

high pressure pump as peripheral impeller pump,

high performance spirally wound module with PA/PS composite membranes in stainless steel pressure vessel.

Inlet solenoid valve.

Pressure switch for pump feed pressure, pressure gauge for pump pressure

Flow restrictor for limitation of permeate and concentrate flow rate.

Solenoid valve for automatic concentrate-rinse.

Connecting cable (2 m) with shockproof plug.

Unit completely wired and pre-assembled and ready for installation. Electrical equipment in accordance with VDE 0100 part 600, VDE 0113 part 1.

RO 524 microprocessor control system for fully automated monitoring and control of the reverse osmosis unit with **two-digit alphanumeric display** of permeate conductivity*, forced stop and full tank, **malfunction signals:** low pressure, hard water and high conductivity*, automatic restart of operation after progressive rest period, **LEDs** for operation and disinfection, concentrate flushing each operating cycle, forced flushing after 24 h standby

Additional connections possible:

Inputs (low voltage) for level control with 1 or 2 float switches, hardness monitoring unit (the RO 524 controller includes control functions for the limitron hardness monitoring unit), shut-downs by external signal (forced stop, regeneration).

Outputs for softening unit (230 V / 50 Hz) and DDC (collective malfunction signal on floating change-over contact).

The units are designed for a maximum TDS of 1,000 mg/l, a water temperature of 15°C, a max. colloidal index of 3 and free permeate outlet. Under these conditions, the unit reaches design permeate flow. The permeate recovery depends on the raw water quality and the type of pre-treatment.

Technical Data UO Budget		UO Budget 80	UO Budget 130
Permeate flow rate	l/h	80	130
Min. salt rejection	%	95	95
Recovery	%	50	50
Operating pressure approx.	bar	10.1	10.1
Membrane element / number		4021/1	4021/1
Voltage	V/Hz	230/50	230/50
Motor power	kW	0.4	0.4
Height	mm	370	370
Width	mm	800	800
Depth	mm	370	370
Weight approx	ca. kg	31	31

Pre-fusing 16 A, Feed water connection R 3/4" AG, Permeate / concentrate connection DN 10, Conductivity range 1 – 99 µS/cm, Feed water pressure min./max. 3/6 bar, Feed water temperature min./max. 5/35 °C, Ambient temperature max. 40 °C, pH 3 – 11*

* option conductivity measurement permeate (item no. 381903)

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