

PUR1TE

FIRST FOR PURE WATER

ELITE^{COMBI} High Performance Reverse Osmosis Units



20 C - 350 C

ELITE^{COMBI} Reverse Osmosis Units 20 combi - 350 combi

UNIT DESIGN

Stainless steel base frame with plastic front panel to house the instruments and controls.

Prefilter, polypropylene with 20 µm filter cartridge and 2 pressure gauges.

Softener, compact design.

Special inlet filter, polypropylene with 5 µm filter cartridge and 2 pressure gauges.

High pressure pump, rotary-vane type.

High performance wound module(s), with PA/PS composite membranes in GRP pressure vessel(s) with PP inliner.

Valves and instruments including solenoid inlet valve, feedwater pressure switch, permeate and concentrate flow meter, vibration-resistant pressure gauges for pump and concentrate pressure, stainless steel valves for adjustment of permeate, concentrate and concentrate recirculation flow.

Microprocessor control system as described below, connecting cable (3 m).

Unit completely wired and pre-assembled and ready for installation.

Puritron 500 microprocessor control system for fully automated monitoring and control of the reverse osmosis unit with **two-digit alphanumeric display LCD** of permeate conductivity, forced stop and full tank.

Alarm signals: low pressure, hard water and high conductivity.

LEDs for operation and disinfection.

Input (low voltage) for level control with 1 or 2 float switches, hardness monitoring unit. The *Puritron 500* controller includes control functions for the hardness monitoring unit, shut-downs by external alarm signal (forced stop, regeneration).

During the regeneration cycle of the water softener, no permeate is produced. The softeners of the types 20 and 40 combi are timer-controlled, the types 80 through 350 combi are water meter controlled. The integral system makes piping of the individual components at site unnecessary.

20 combi

40 combi

80 combi

150 combi

350 combi

Technical Data

		20 combi	40 combi	80 combi	150 combi	350 combi
PERMEATE FLOW RATE	l/h	17	42	83	166	332
MIN. SALT REJECTION	%	97	97	97	97	97
MAX. RECOVERY	%	75	75	75	75	75
VOLTAGE	V/Hz	230/50	230/50	230/50	230/50	230/50
MOTOR POWER	kW	0.3	0.3	0.55	0.55	0.55
FEEDWATER CONNECTION	DN	20	20	20	20	20
PERMEATE/CONCENTRATE CONNECTION	DN	10/50	10/50	10/50	10/50	10/50
MIN./MAX. FEEDWATER PRESSURE	bar	3/6	3/6	3/6	3/6	3/6
MIN./MAX. FEEDWATER TEMPERATURE	°C	5/35	5/35	5/35	5/35	5/35
CAPACITY OF SOFTENER BASED ON 200PPM TOTAL HARDNESS AS CaCO ₃	m ³	5.4	5.4	10.7	10.7	10.7
SALT STORAGE	kg	75	75	60	60	60
HEIGHT	mm	1650	1650	1650	1650	1650
WIDTH	mm	730	730	730	730	730
DEPTH	mm	700	700	700	700	700
WEIGHT APPROX	kg	125	130	135	140	155

The units are designed for a maximum TDS of 1000 mg/l, sized on a water temperature of 10 °C and a maximum colloidal index of 3. Under these conditions, the units still reach design permeate flow after three years of operation. With new units the working pressure is about 15% lower. The permeate recovery depends on the raw water quality and the type of pretreatment.

Errors and omissions excluded. Purite reserves the right to change specification without notice.



INVESTOR IN PEOPLE

SS0004-01

Purite Limited, Bandet Way, Thame, Oxon OX9 3SJ, UK.

Tel: +44 (0)1844 217141 Fax: +44 (0)1844 218098 Email: mail@purite.com Web site: www.purite.com

