

ELITE^{PLUS} High Performance Reverse Osmosis Units



500 ND - 2500 ND

ELITE^{PLUS} Reverse Osmosis Units 500 ND - 2500 ND

UNIT DESIGN

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

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

High pressure pump, low-noise, multi-stage centrifugal type.

Low energy wound modules with energy saving PA/PS composite membranes in GRP pressure vessels with PP inliner.

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

Puritron 1000 microprocessor control system for fully automated monitoring and control of the reverse osmosis unit with LCD (16 characters per line).

Operating data: permeate conductivity (temperature corrected), permeate temperature, operating hours, feed water conductivity, percentage salt rejection.

Alarm signals: low pressure, hard water, motor overload, high conductivity pre-alarm, high conductivity fault, concentrate fault.

Status signals: permeate discard, permeate recycling, concentrate displacement, concentrate rinse, intermittent rinse during shut-down, shut-down by external signal (forced stop, regeneration).

LEDs for operation, alarms, regeneration, discard, disinfection, full tank and rinse.

Input (low voltage) for level control with 1 or 2 float switches, hardness monitoring unit. The *Puritron 1000* control system includes control functions for the hardness monitoring unit. Freely programmable universal input with LCD, additional conductivity measuring unit (e.g. for feedwater). Shut-downs by external signal (forced stop, regeneration).

Outputs for 2 solenoid valves for concentrate flushing, permeate discard and recycling, second high pressure pump, analogue signal (e.g. 4-20 mA) and DDC (freely programmable universal output with LCD, conductivity alarm contact and collective alarm signal, each on floating changeover contact).

500 ND 750 ND 1000 ND 1300 ND

Technical Data

		500 ND	750 ND	1000 ND	1300 ND
PERMEATE FLOW RATE	l/h	499	748	997	1247
MIN. SALT REJECTION	%	97	97	97	97
MAX. RECOVERY	%	75	75	75	75
VOLTAGE	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MOTOR POWER	kW	2.2	2.2	2.2	2.2
FEEDWATER CONNECTION	DN	20	20	20	20
PERMEATE/CONCENTRATE CONNECTIONS	DN	20	20	20	20
MIN./MAX. FEEDWATER PRESSURE	bar	2/6	2/6	2/6	2/6
MIN./MAX. FEEDWATER TEMPERATURE	°C	5/35	5/35	5/35	5/35
HEIGHT	mm	1650	1650	1650	1650
WIDTH	mm	660	660	660	660
DEPTH	mm	690	690	690	690
WEIGHT (APPROX.)	kg	135	150	180	195

1500 ND 1800 ND 2000 ND 2500 ND

Technical Data

		1500 ND	1800 ND	2000 ND	2500 ND
PERMEATE FLOW RATE	l/h	1496	1745	1995	2493
MIN. SALT REJECTION	%	97	97	97	97
MAX. RECOVERY	%	75	75	75	75
VOLTAGE	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MOTOR POWER	kW	3	3	3	3
FEEDWATER CONNECTION	DN	25	25	25	32
PERMEATE/CONCENTRATE CONNECTIONS	DN	20	20	25	25
MIN./MAX. FEEDWATER PRESSURE	bar	2/6	2/6	2/6	2/6
MIN./MAX. FEEDWATER TEMPERATURE	°C	5/35	5/35	5/35	5/35
HEIGHT	mm	1650	1650	1650	1650
WIDTH	mm	2500	2500	2500	3500
DEPTH	mm	750	750	750	750
WEIGHT (APPROX.)	kg	240	280	320	360

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. 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

SS0002-01