



Stand Units UO 600 - 1500 ND

Unit design

- Stainless steel main frame
- Inlet filter with 5 micron cartridge
- High pressure pump, multi-stage centrifugal type
- Low energy spiral-wound elements (TFC - PA)
- GRP Housing with in-liner

Valves and instrumentation

- Sampling valves for feedwater and permeate for each pressure vessel
- Inlet solenoid valve
- Pressure gauges for pressure drop on cartridge filter
- Feed water pressure switch
- Permeate, and concentrate flow meter
- Vibration resistant pressure gauge for pump, operating and concentrate pressure
- Stainless steel valve for adjustment of permeate, concentrate flow rate and concentrate recirculation
- Conductivity measurement temperature compensated

Options

- Hardness monitoring unit Limitron
- Permeate recirculation
- Concentrate flushing
- Connection set for manual cleaning unit
- Manual cleaning unit

RO 1000 Microprocessor

- Two line next display (16 characters per line)
- Language German / English / French / Italian
- Password protected programming of the operating sequences
- For regular process information :
 - ◆ Permeate conductivity (Temperature compensated)
 - ◆ Permeate temperature
 - ◆ Operating hours
- For malfunction signal:
 - ◆ Low pressure
 - ◆ Hard Water
 - ◆ Motor Overload
 - ◆ High conductivity pre-alarm / fault
 - ◆ Power supply malfunction
- For status signals
 - ◆ Permeate discard
 - ◆ Permeate recycling
 - ◆ Concentrate displacement
 - ◆ Concentrate rinse
 - ◆ Intermittent rinse during shutdown
 - ◆ Shut down by external signal (regeneration, forced stop)
- LEDs
 - ◆ operation
 - ◆ regeneration
 - ◆ disinfection
 - ◆ malfunction
 - ◆ discard
 - ◆ full tank
- Inputs (low voltage)
 - ◆ Level control with one or two float switches
 - ◆ Hardness monitoring units (Limitron)
 - ◆ Shutdown by external signal (forced stop, regeneration)
- Outputs
 - ◆ Softening unit (230V - 50 Hz)
 - ◆ 2 solenoid valves for concentrate rinse, permeate discard and recycling
 - ◆ DDC (Collective malfunction signal on floating changeover contact)



Specifications

Model		600ND	900ND	1200ND	1500ND
P/N		5110010646	5110010647	5110010648	5110010649
Options					
• Hardness monitoring unit Limitron		4804000640	4804000640	4804000640	4804000640
• Permeate recirculation PR 1500		5213010920	5213010920	5213010920	5213010920
• Concentrate flushing KSE 1500		5213020692	5213020692	5213020692	5213020692
• Connection set for manual cleaning unit		5213040700	5213040700	5213040700	5213040700
• Manual cleaning unit		5213030696	5213030696	5213030696	5213030696
Flow specifications*					
Permeate Flow	l/h	600	900	1200	1500
Min. Salt rejection	%	97	97	97	97
Recovery	%	75	75	75	75
Operating parameters					
Operating Pressure	bar	14	14	14	14
Membrane / Number		4040/2	4040/3	4040/4	4040/5
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
Max ambient temperature	°C	40	40	40	40
pH		3-11	3-11	3-11	3-11
Conductivity range (permeate)	µS.cm-1	2-200	2-200	2-200	2-200

*Systems are designed for a maximum TDS of 1000ppm, a temperature of 15°C and a maximum fouling index of 3. Under these conditions, the units still reach design permeate flow after 3 years. Permeate recovery depends on raw water quality and flow rate



No liability assumed for dimensions and weight given

Model		600ND	900ND	1200ND	1500ND
Installation and Utility Requirements					
Voltage / Frequency	V/Hz	3x400/50	3x400/50	3x400/50	3x400/50
Motor power	kW	1.5	1.5	2.2	2.2
Protection IP		IP54			
Connecting Cable		3 meter long with 16A-6 h CEE 3 pole plug			
Dimensions and weight					
Height (H)	cm	165	165	165	165
Width (W)	cm	66	66	66	66
Depth (D)	cm	69	69	69	69
Weight approx	kg	135	150	180	195