



## Stand Units UO 4300 12000 ND

### Unit design

- Stainless steel main frame
- Control cabinet with lockage main switch
- Electrical switchgear for control of high pressure pump.
- 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 / diaphragm valve
- Pressure gauges for pressure drop on cartridge filter
- Feed water pressure switch
- Permeate, concentrate and concentrate recirculation flow meter
- Vibration resistant pressure gauge for pump, operating and concentrate pressure
- Stainless steel valve for adjustment of permeate, concentrate and concentrate recirculation flow rate
- Permeate conductivity measurement temperature compensated

### Options

- Hardness monitoring unit Limitron
- Permeate recirculation
- Concentrate flushing
- Connection set for manual flushing
- 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 unit (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		4300ND	5400ND	7000ND	8000ND	9500ND	12000ND
P/N		5110010654	5110010655	5110010656	5110010657	5110010658	5110010659
<b>Options</b>							
• Hardness monitoring unit Limitron		4804000642	4804000642	4804000643	4804000643	4804000643	4804000644
• Permeate recirculation		5213010689	5213010689	5213010690	5213010690	5213010690	5213010691
• Concentrate flushing		5213020694	5213020694	5213020694	5213020694	5213020694	5213020695
• Connection set for manual cleaning unit		5213040702	5213040702	5213040703	5213040703	5213040703	5213040704
• Manual cleaning unit		5213030698	5213030698	5213030698	5213030698	5213030698	5213030699
<b>Flow specifications*</b>							
Permeate Flow	l/h	4300	5400	7000	8000	9500	12000
Min. Salt rejection	%	97	97	97	97	97	97
Recovery	%	75	75	75	75	75	75
<b>Operating parameters</b>							
Operating Pressure	bar	13.5	13	13.5	13	13.5	12.5
Membrane / Number		8040/3	8040/4	8040/5	8040/6	8040/7	8040/9
Min/Max Feedwater pressure	bar	2-6	2-6	2-6	2-6	2-6	2-6
Min/Max Feedwater temperature	°C	5-35	5-35	5-35	5-35	5-35	5-35
Max ambient temperature	°C	40	40	40	40	40	40
pH		3-11	3-11	3-11	3-11	3-11	3-11
Conductivity range (permeate)	µS.cm-1	2-200	2-200	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		4300ND	5400ND	7000ND	8000ND	9500ND	12000ND
<b>Installation and Utility Requirements</b>							
Compressed Air (oil free)	Bar	No	No	4-6	4-6	4-6	4-6
Voltage / Frequency	V/Hz	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50
Motor power	kW	5.5	5.5	7.5	11	11	11
Protection type		IP54					
Connecting Cable		3 meter long with 16A-6 h CEE 5 pole plug					
<b>Dimensions and weight</b>							
Height (H)	cm	190	190	190	190	190	190
Width (W)	cm	280	280	380	380	480	390
Depth (D)	cm	75	75	75	80	80	80
Weight approx	kg	450	500	600	700	800	900