



Stand Units UO 50 - 500 RS

Unit design

- Stainless Steel base frame with plastic front panel to house instruments and controls
- Inlet filter with 5 micron cartridge
- High pressure pump rotary vane type
- Spiral-wound elements (TFC - PA)
- GRP Housing with in-liner

Valves and instrumentation

- Feed water sampling valve
- Pressure gauges for pressure drop on cartridge filter
- Inlet solenoid valve
- Feed water pressure switch
- Vibration resistant pressure gauge for pump and concentrate pressure
- Permeate and concentrate flow meter
- Stainless steel valve for adjustment of permeate and concentrate flow rate

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 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		50RS	100RS	250RS	300RS	400RS	500RS
P/N		5110010857	5110010858	5110010859	5110010860	5110010861	5110010862
Options							
• Hardness monitoring unit Limitron		4804000640	4804000640	4804000640	4804000640	4804000640	4804000640
• Permeate recirculation PR 500		5213010920	5213010920	5213010920	5213010920	5213010920	5213010920
• Concentrate flushing KSE 500		5213020923	5213020923	5213020923	5213020923	5213020923	5213020923
• Connection set for manual cleaning		5213040924	5213040924	5213040924	5213040924	5213040924	5213040924
• Manual cleaning unit		5213030696	5213030696	5213030696	5213030696	5213030696	5213030696
Flow specifications*							
Permeate Flow	l/h	50	100	250	300	400	500
Min. Salt rejection	%	97	97	97	97	97	97
Recovery	%	75	75	75	75	75	75
Operating parameters							
Operating Pressure	bar	14	12	11	11	10	10
Membrane / Number		2540/1	2540/1	4040/1	4040/1	4040/2	4040/2
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	1-99	1-99	1-99	1-99	1-99	1-99

*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		50RS	100RS	250RS	300RS	400RS	500RS
Installation and Utility Requirements							
Permeate/concentrate connection	BSP	3/8	3/8	3/8	3/8	3/8	3/8
Voltage / Frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Motor power	kW	0.30	0.55	0.55	0.55	0.55	0.55
Protection type	IP	IP 54					
Connecting Cable		3 meter long with 16A-6 h CEE 3 pole plug					
Dimensions and weight							
Height (H)	cm	165	165	165	165	165	165
Width (W)	cm	55	55	55	55	55	55
Depth (D)	cm	69	69	69	69	69	69
Weight approx	kg	50	50	60	62	75	77