



## SPECTRUM RO Systems

SPECTRUM RO systems have been designed to meet the requirements of commercial and industrial operators. 5 systems are included in the range to meet RO water production levels of 150 to 1250 litres per hour.

Each system is computer controlled to offer versatility in use and features a number of auto-flush settings for when not in use. Systems come complete with gauges, flow meters, dual TDS meter and concentrate recirculation valves, to offer the operator all of the technical information required to monitor performance combined with the control desired.

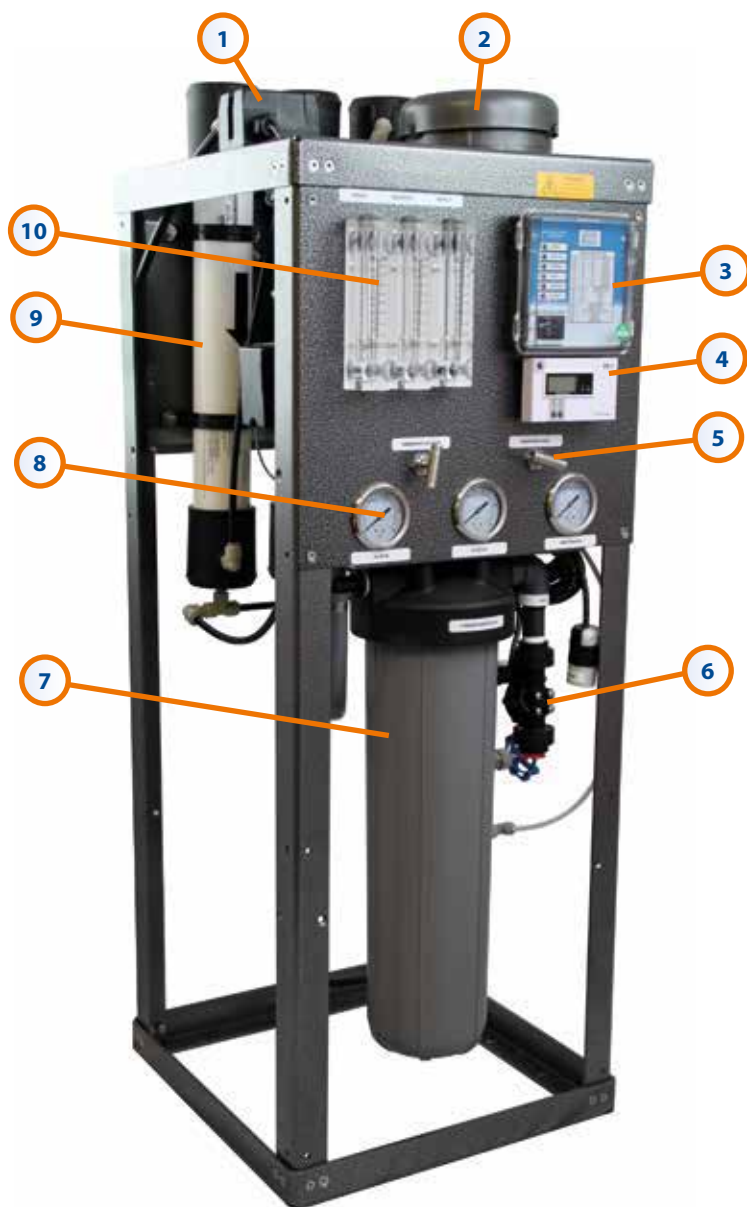
These fully assembled and 100% integrity tested units require minimal installation and commissioning time with simple operation and negligible ongoing maintenance other than replacing filter cartridges and RO membranes as and when required.

SPECTRUM RO systems incorporate high quality components throughout. The importance of durable and reliable pump systems, membrane housings, membranes, monitoring devices, fittings and pipework is understood and applied to each build to ensure ongoing reliability of each key component. Glycerine filled gauges, LCD TDS meter display, security locking device on the membrane housings, industrial powder coated aluminium frame, high and low pressure sensors to protect the pump operation, are all included in the design of a reliable system for producing consistently high levels of RO water.

Operating Requirement	System Design Feature
Optimum production rates	Computer controller allows for different operation modes
Use of space	Small footprint and ergonomic design
Maintenance access	Accessible from all sides
Simple installation	Off-the-shelf system
Commissioning	Full installation and maintenance instructions
Leak-free	100% integrity tested
Ease of operation and monitoring	Flow meter, gauges and meters placed together
Reliability of equipment	High/low pressure switches protect system durability
Durability and corrosion resistance	Quality components and industrial powder coated frame
Minimal energy costs	Feedback controls ensure minimal energy waste
Low operation costs	System monitoring optimises membrane life
Compliance	CE marked

### SRO Systems - Selection guide

Model	Production rate (lpm)	Production rate (lph)	Membrane information
SRO-SYS-2.6	2.6	150	3 x HF4-2521
SRO-SYS-5.2	5.2	300	1 x SRO-4040
SRO-SYS-10	10	600	2 x SRO-4040
SRO-SYS-16	16	950	3 x SRO-4040
SRO-SYS-21	21	1250	4 x SRO-4040



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|-----------------------------------|-------------------|
| 1 High pressure switch            | 6 Inlet solenoid  |
| 2 Pump                            | 7 Pre-filter      |
| 3 Computer controller             | 8 Pressure gauges |
| 4 TDS meter                       | 9 Membranes       |
| 5 Concentrate recirculation valve | 10 Flow meters    |



Commercial and industrial RO systems



#### Operating parameters

- 4 - 48°C
- Minimum Feed Pressure (bar) : 3.1
- Operating Pressure (bar) : 6.8 - 10.3
- Maximum Feed Flow Rate (lpm) : 52.9
- pH Range : cleaning : 2 - 12  
: operating : 5 - 11

#### Feed quality

- ppm : <2000
- SDI : <3
- Turbidity (NTU) : <1
- Free Chlorine (ppm) : <2
- Hardness (mg/l CaCO<sub>3</sub>) : <120

#### System specifications

- Membrane rejection (%) : 99
- Pump Type : Franklin Electric
- Voltage (V) : 220 AC
- Frequency (Hz) : 50
- RPM @ Hz : 2850
- L 457 x W 457 x H 1143 (mm)
- Feed Connection (") : 3/4

#### Technical information

Product Code	Description	Membrane	Port Size (")	Recovery (%)	Permeate Flow Avg (lpm)	Weight (kg)
SRO-SYS-2.6	SPECTRUM Premier RO system	HF4-2521	3/4	75	2.6	45
SRO-SYS-5.2	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/4	75	5.2	45
SRO-SYS-10	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/4	75	10	54
SRO-SYS-16	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/4	75	16	63
SRO-SYS-21	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/4	75	21	72