# **Reverse Osmosis Systems**

# SPECTRUM RO Systems

# With an innovative and robust design, the SPECTRUM range of reverse osmosis systems offers a modular system that is flexible for future growth and application requirements.

The SPECTRUM range of reverse osmosis systems are state of the art, versatile units, designed for purifying a wide variety of water sources ranging from mains tap water to borehole water supplies. With flow rates up to 30,000 litres (30m<sup>3</sup>) per day, this range is capable of producing large volumes of purified water with minimal energy consumption, low maintenance and operation costs.

# **SPECTRUM RO System - Front View**





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### **SPECTRUM RO System - Side View**



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## **SPECTRUM RO Systems**



#### SRO-SYS-2.6 (3 x HF4-2521)

Feed flow rate (lpm)	6.3 - 22.7
Minimum concentrate flow rate (lpm)	3.7
Maximum concentrate recycle (lpm)	3.7
Upgrade system to	-
Housing array	1:1:1
Production rate (lpm)	2.6

### SRO-SYS-5.2 (1 x SRO-4040)

Feed flow rate (lpm)	16.5 - 52.9		
Minimum concentrate flow rate (lpm)	11.3		
Maximum concentrate recycle (lpm)	18.9		
Upgrade system to	SRO-SYS-10		
Housing array	1		
Production rate (Ipm)	5.2		

### SRO-SYS-10 (2 x SRO-4040)

Feed flow rate (lpm)	21.3 - 52.9
Minimum concentrate flow rate (lpm)	11.3
Maximum concentrate recycle (lpm)	18.9
Upgrade system to	-
Housing array	1:1
Production rate (lpm)	10.4



### SRO-SYS-16 (3 x SRO-4040)

Feed flow rate (lpm)	27.3 - 52.9		
Minimum concentrate flow rate (lpm)	11.3		
Maximum concentrate recycle (lpm)	18.9		
Upgrade system to	SRO-SYS-21		
Housing array	1:1:1		
Production rate (Ipm)	16		



### SRO-SYS-21 (4 x SRO-4040)

Feed flow rate (lpm)	32.3 - 52.9
Minimum concentrate flow rate (Ipm)	11.3
Maximum concentrate recycle (lpm)	18.8
Upgrade system to	-
Housing array	1:1:1:1
Production rate (lpm)	21

The SPECTRUM SRO-SYS Systems test parameters: 1000 TDS filtered (5 micron) feed water, operating feed pressure 8.6 bar, with a water temperature of  $25^{\circ}$ C.



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

#### Feed quality

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

#### System specifications

- Membrane rejection (%) : 99
- Pump Type : Sta-Rite SS
- 4 Voltage (V) : 220 AC
- **Frequency (Hz) : 50**
- **RPM @ Hz : 2850**
- L 457 x W 457 x H 1143 (mm)
- Feed Connection (") : ¾



### **SPECTRUM C23 Computer Controller**

All of the new SPECTRUM RO systems feature a simple switch mechanism computer controller (C23) that enables a broad array of features to manually tailor system performance to meet application requirements.

The SPECTRUM SRO-SYS controller performs all the functions expected from a commercial and industrial system; including multiple programmable flush cycles which can be enabled and disabled to suit application and membrane maintenance, high/ low pressure switches, tank monitoring and system integration to external devices for complete control.

#### Tank full indication based on high pressure switch feedback or optional float switch



Ensures external equipment essential to the RO process (i.e. pre-filtration softener) can link up to protect the membranes from premature fouling

#### **Pricing and technical information**

Product Code	Description	Membrane	Port Size (")	Recovery (%)	Permeate Flow Avg (lpm)	Price Each (£)	Weight (kg)
SRO-SYS-2.6	SPECTRUM Premier RO system	HF4-2521	3/8	75	2.6	5,800.00	45
SRO-SYS-5.2	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/8	75	5.2	6,600.00	45
SRO-SYS-10	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/8	75	10	7,300.00	54
SRO-SYS-16	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/8	75	16	8,500.00	63
SRO-SYS-21	SPECTRUM Premier RO system	SRO-4040-2500-LE	3/8	75	21	10,000.00	72

**Reverse Osmosis Systems** 

 $\infty$ SPECTRUM<sup>™</sup> Simple programmable and P customisable RO controller

Pre-set controller delays built-in to