

SIRION™ Mega

Reverse Osmosis Systems

SIRION™ Mega reverse osmosis systems produce high purity water, removing up to 98% of dissolved inorganics and over 99% of large dissolved organics, colloids and particles.

Flow rates from 5 to 30 m³/hr.

Options

- Anti-scalant/sodium bisulfate dosing equipment
- Output to PLC via analogue signal for conductivity monitoring
- pH control
- Concentrate rinse valve

Features & Benefits

- Low energy membranes result in lower operating pressures; cost savings
- Frequency controlled variable speed pump can save up to 50% of the electrical power required by conventional systems
- 5µm pre-filtration included within the unit for membrane protection
- Programmable user interface; simple operation, monitoring and storage (14 days) of pressure, flow rate, conductivity and temperature values. (For PLC only).
- Modem & RS232 connections
- Dry run monitor; pump protection
- Treated water diverted at start-up; ensures water quality
- Timed recirculation rinse; reduces membrane fouling

Applications

- Boiler feed
- Industrial process water
- Cooling water
- Reuse / recycling
- Healthcare
- Biotechnologies
- Electronics
- Hospitals
- Chemical industry
- Primary metals

Related Services

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

Hydrex® Chemicals

Hydrex® 4000 water treatment chemicals from Veolia Water Technologies should be used for optimised plant operation.



System Performance

Model		110 x 2	110 x 3	110 x 4	210 x 4	211 x 4	211 x 5	320 x 5
Nominal Flows at 12°C*								
Permeate	m ³ /hr	5	7.5	10	15	20	25	30
Feed	m ³ /hr	6.3	9.4	12.5	18.8	25	31.3	37.5
Typical Salt Rejection	%	96-98	96-98	96-98	96-98	96-98	96-98	96-98
Pump Motor Size	kW	7.5	11	11	15	18.5	22	30

*Flow rates are dependent on feed water quality, those quoted are typical values based on 1000 ppm TDS & SDI <3.

System Dimension

Model		110 x 2	110 x 3	110 x 4	210 x 4	211 x 4	211 x 5	320 x 5
Height	mm	1750	1850	1850	1850	2150	2255	2280
Depth	mm	900	900	900	900	900	900	900
Width	mm	4100	4100	4900	4900	4900	5900	5900
Weight (dry)	kg	980	1100	1150	1200	1350	1700	1700

Pipe Connections

Model		110 x 2	110 x 3	110 x 4	210 x 4	211 x 4	211 x 5	320 x 5
Feed		DN 40	DN 40	DN 50	DN 50	DN 65	DN 65	DN 80
Permeate		DN 40	DN 40	DN 40	DN 50	DN 50	DN 65	DN 65
Concentrate		DN 40	DN 40	DN 40	DN 40	DN 40	DN 40	DN 50

Feed Water Supply Quality

Potable water free from organic contamination, chlorine and suspended matter. A softened water supply is normally required.

Supply Pressure	min. 2 bar	max. 6 bar
temperature	min. 2°C	max. 30°C

Electrical Supply

All models 380/415V, 3phase, 50 Hz standard

For higher flow rate applications consult your local Veolia Water Technologies company, contact details below.

Visit our website: www.veoliawatertechnologies.com/sirion/en/

In keeping with the progressive nature of the company, we reserve the right to amend details without notice.

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