

SIRION™ Mega Reverse Osmosis Systems

Veolia's SIRION™ Reverse Osmosis Systems produce high purity water, removing up to 97% of dissolved inorganics and over 99% of large dissolved organics, colloids and particles.

Flow rates from 40 to 600 GPM.

Applications

- · Boiler feed
- Industrial process water
- · Cooling water
- · Reuse/recycling
- · Utility water
- · Purified water
- · High purity water

Features & Benefits

- Low energy membranes result in lower operational costs
- Frequency controlled variable speed pumps save electricity vs conventional systems
- 5µ pre-filtration included for membrane protection
- Programmable user interface
- Dry run monitor; pump protection
- · Cleaned by stage design
- Ethernet IP communication
- Permeate sample valves on each membrane housing
- · Antiscalant injection point
- · Sodium bisulfite injection point
- Veolia Vision* cloud based integration and reporting

Options

- · Concentrate flush
- Concentrate recirculation
- Permeate divert
- Feed ORP measurement
- Interstage permeate back pressure
- Auxiliary flush (must include concentrate flush)
- CIP

Markets

- · Food & Beverage
- Chemical
- Healthcare
- Cosmetics & Personal Care
- Institutional
- · Primary Metals
- General Manufacturing

Related Services

Veolia's service and support teams offer preventative and corrective maintenance programs to ensure efficient, long term operation.

Hydrex[™] Chemicals

For efficient operation, Veolia recommends the use of Hydrex™ water treatment chemicals.



^{*} Veolia Vision is a cloud-based program that allows you to monitor your system performance, day or night, with secure, real-time data available over any internet or cellular connection.

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System Capacity

Mega RO Model #	1104M	2105M	3204M	3205M	6307M
Permeate* (GPM)	40	75	100	130	300
Feed (GPM)	54	100	134	174	400
Typical Salt Rejection (%)	99	99	99	99	99
Pump Motor Size (HP)	15	20	30	40	100

^{*} Flow rates are dependent on feed water quality and temperature. The above values are based on 1000 ppm TDS, 50°F & SDI <3.

System Dimensions

Mega RO Model #	1104M	2105M	3204M	3205M	6307M
Height (in)	102	103	103	103	102
Depth (in)	48	48	48	48	60
Width (in)	192	232	193	233	315
Feed Connection (in)	2	3	3	4	6
Permeate Connection (in)	1½	2	3	3	4

Feed Water Supply Quality

Supply Pressure	min. 20 psi	max. 40 psi	
Operating Temperature	min. 35°F	max. 110° F	

Materials of Construction

Pressure Vessels	FRP		
High/Low Pressure Pipework	304 Stainless Steel/PVC, Sch. 80		
Frame	Painted Carbon Steel		
Enclosure	NEMA 4 Painted Carbon Steel		

Utility Requirements

480V, 3 phase, 60Hz Motor Supply 120V, 1 phase, 60Hz, 10 Amp Control Supply 80 psig instrument air.

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