



SIGMA H-SS Series

Stainless steel construction

Reverse osmosis
or nanofiltration
system

Construction

- Frame: 304 SS
- Membrane housing: 304 SS
- High-pressure piping: 304 SS
- 304 SS electrical box. CSA certified

Basic features

- Programmable logic controller (PLC)
- 1 to 5 membranes 8" X 40"
- 2 adjustment valves: concentration & pressure
- 3 pressure gauges: before / after pre-filters and on the membranes pressure operation
- Automatic 304 SS solenoid inlet feed valve
- 2 flow meters: permeate & concentrate with sampling valves
- Low feed pressure protection
- High temperature protection
- Sediment pre-filters 20", 5 microns
- Low energy consumption
- Designed for cold water operation



Modular design.

Easy to add other pressure pumps or membranes.

PUMP

304 SS
Multistage centrifugal

MOTOR

240 VAC
1-phase, 60 Hz

Operating parameters

- Operating pressure: 150-500 psi
- Recovery nominal: 75%
- Customizable to your specific application with a recent provided raw water analysis

Options

- + Conductivity meter and temperature indicator
- + SS membranes washing tank (CIP) with valves kit
- + Raw water fast flush rinse cycle
- + Automatic permeate flush
- + Touch screen
- + Web access (VPN) for remote web control
- + 600 volts / 3 phases option
- + Flow meter with sampling valve on each membranes housing



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INDUSTRIAL REVERSE OSMOSIS

Made in Canada from top quality materials,
the SIGMA H-SS range will provide you
with several years of corrosion-free services.

Model	Membrane RO/NF	Maximum capacity GPM-US	gpdUS (25°C) GPD-US	Prefilter 5 microns	Pressure Pump	Recirculation Pump	Size (WxDxH)
SIGMA 1000 H-SS	1 x 8"	8	11 500	2 x 20"	1 x 5 hp	1 x 1,5 hp	65" x 32 ³ / ₄ " x 77"
SIGMA 2000 H-SS	2 x 8"	16	23 000	2 x 20"	1 x 5 hp	2 x 1,5 hp	65" x 32 ³ / ₄ " x 77"
SIGMA 3000 H-SS	3 x 8"	24	34 500	2 x 20"	1 x 5 hp	3 x 1,5 hp	65" x 32 ³ / ₄ " x 77"
SIGMA 4000 H-SS	4 x 8"	32	46 000	4 x 20"	2 x 5 hp	4 x 1,5 hp	65" x 32 ³ / ₄ " x 77"
SIGMA 5000 H-SS	5 x 8"	40	57 500	4 x 20"	2 x 5 hp	5 x 1,5 hp	65" x 32 ³ / ₄ " x 96"

Production flow of membranes is defined according to the manufacturer's specifications with a feed water quality of 2000 ppm, 77°F, 200 psi without any back pressure on the permeate.

* Higher feed water TDS can be treated
with an optional upgrade kit.
Contact us for more details.

FEED WATER GUIDELINES

Inlet pressure	30-65 psi
Temperature	33°F- 95°F
pH	3.0 - 10
TDS Maximum*	2500 ppm
Turbidity	< 1.0 NTU
SDI Maximum	< 5.0
Iron	< 0.1
Hardness	< 3 grains/gallons
H ₂ S	0
Manganese	< 0.05
Organic matter	0
Chlorine	0
Hydrocarbon	0

Excellent after-sales service!



MEMPROTEC

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