



# SIGMA D-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)
- 4 to 10 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



**SIGMA D-SS Series**  
Stainless steel construction

# INDUSTRIAL REVERSE OSMOSIS

Made in Canada from top quality materials,  
the SIGMA D-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	Size (WxDxH)
SIGMA 4000 D-SS	4 x 8"	32	46 000	3 x 20"	1 x 5 hp	109" x 36" x 76"
SIGMA 6000 D-SS	6 x 8"	48	69 000	3 x 20"	1 x 7,5 hp	109" x 36" x 76"
SIGMA 8000 D-SS	8 x 8"	67	92 000	6 x 20"	1 x 10 hp	109" x 36" x 76"
SIGMA 10 000 D-SS	10 x 8"	80	115 000	6 x 30"	1 x 10 hp	109" x 36" 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.

*Excellent after-sales service!*

## 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
H2S	0
Manganese	< 0.05
Organic matter	0
Chlorine	0
Hydrocarbon	0



**MEMPROTEC**

5133, de la Plaisance, Chesterville QC G0P 1J0  
819 382-2244

*memprotec.com*