



SIGMA DD-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)
- 12 to 20 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 pressure protection
- High temperature protection
- Sediment pre-filters 20", 5 microns
- Low feed energy consumption
- Designed for cold water operation



PUMP

304 SS
Multistage centrifugal

MOTOR

230-460 or 600 VAC
3-phase, 60 Hz



Modular design.

Easy to add other pressure pumps or membranes.

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
- + Flow meter with sampling valve on each membranes housing



SIGMA DD-SS Series
Stainless steel construction

INDUSTRIAL REVERSE OSMOSIS

Made in Canada from top quality materials,
the SIGMA DD-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 12 000 DD-SS	12 x 8"	48	138 000	1 x 7 x 20"	1 x 15 hp	112" x 53" x 75"
SIGMA 14 000 DD-SS	14 x 8"	112	161 000	2 x 7 x 20"	1 x 15 hp	112" x 53" x 75"
SIGMA 16 000 DD-SS	16 x 8"	128	184 000	2 x 7 x 20"	1 x 20 hp	112" x 53" x 75"
SIGMA 18 000 DD-SS	18 x 8"	144	207 000	2 x 7 x 30"	1 x 20 hp	112" x 53" x 75"
SIGMA 20 000 DD-SS	20 x 8"	160	230 000	2 x 7 x 30"	1 x 25 hp	112" x 53" 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