

Sapphire Water

Clear solutions to your water problems

Proudly manufactured in
Humboldt, Saskatchewan



RESIDENTIAL AND COMMERCIAL REVERSE OSMOSIS SYSTEMS

Ranging from **0.04 - 42 USgpm (50 - 50,400 gallons per day)**

Offering consumers the opportunity to have safe, treated water within the comfort of their own home or business.



Contact Us | (306) 986-4499 saphiresales@delco-water.com www.delco-water.com

📍 Calgary • Saskatoon • Humboldt • Winnipeg



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
1	0.59 - 0.88 USGPM	30 - 170 psi	50-80%	Inches: 60 28 24 Mm: 1524 711 610	175 lbs (79 kgs)

STANDARD OFFERINGS

On-Skid Mechanical Equipment:

- o Low Energy High Recovery Reverse Osmosis Membranes
- o Membrane Diameter: 4 in
- o Frame: Carbon steel
- o Permeate and Concentrate Tubing and Hose
- o Concentrate Recirculation
- o Pre-Filter Housing and Cartridges
- o Stainless Steel Membrane Vessels
- o Stainless Steel Valving, Tubing and Fittings
- o On-Skid Booster Pump
- o Raw and Permeate Pressure Switches
- o Concentrate, Permeate, and Recycle Flow Gauges
- o Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- o Microprocessor Controller
- o 240V, Single Phase Power
- *Electrical connections provided by others*

Chemical Equipment:

- o Anti-Scalant Dosing Pump and Integrated Tank
- *Shipped loose*

Installation Requirements:

- o **Feed Pressure Supply Range:** 20-40 psi
- o **Inlet Connection:** 3/4" NPT
- o **Permeate:** 3/4" NPT
- o **Concentrate:** 3/4" NPT
- o **Inlet Piping:** PVC
- o **Electrical Connections** (240V, 20Amp, Single Phase)

- Permeate Flush
- Re-pressurization System
- Granular Activated Carbon (GAC)
- 3 Phase Power
- pH Adjustment Chemical System
- Disinfectant Chemical System
- Corrosion Inhibitor Chemical System
- Custom Membranes

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



**Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Anti-scalant chemical injection required.*

ADDITIONAL ENHANCEMENTS

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
- Spare Set of Membranes
- Spare Cartridges
- System Set Points*
- On-Site Commissioning and Training
- CSA Certification



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
2	1.18 - 1.77 USGPM	30 - 170 psi	50-80%	Inches: 60 28 24 Mm: 1524 711 610	200 lbs (91 kgs)

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



* Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Antiscalant chemical injection required.

ADDITIONAL ENHANCEMENTS

- Permeate Flush
- Re-pressurization System
- Granular Activated Carbon (GAC)
- 3 Phase Power
- pH Adjustment Chemical System
- Disinfectant Chemical System
- Corrosion Inhibitor Chemical System
- Custom Membranes

On-Skid Mechanical Equipment:

- Low Energy High Recovery Reverse Osmosis Membranes
- Membrane Diameter: 4 in
- Frame: Carbon steel
- Permeate and Concentrate Tubing and Hose
- Concentrate Recirculation
- Pre-Filter Housing and Cartridges
- Stainless Steel Membrane Vessels
- Stainless Steel Valving, Tubing and Fittings
- On-Skid Booster Pump
- Raw and Permeate Pressure Switches
- Concentrate, Permeate, and Recycle Flow Gauges
- Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- Microprocessor Controller
- 240V, Single Phase Power
- * Electrical connections provided by others*

Chemical Equipment:

- Anti-Scalant Dosing Pump and Integrated Tank
- * Shipped loose*

Installation Requirements:

- **Feed Pressure Supply Range:** 20-40 psi
- **Inlet Connection:** 3/4" NPT
- **Permeate:** 3/4" NPT
- **Concentrate:** 3/4" NPT
- **Inlet Piping:** PVC
- **Electrical Connections** (240V, 20Amp, Single Phase)

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
- Spare Set of Membranes
- Spare Cartridges
- System Set Points*
- On-Site Commissioning and Training
- CSA Certification



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
3	1.77 - 2.65 USGPM	30 - 170 psi	50-80%	Inches: 60 28 24 Mm: 1524 711 610	225 lbs (102 kgs)

STANDARD OFFERINGS

On-Skid Mechanical Equipment:

- o Low Energy High Recovery Reverse Osmosis Membranes
- o Membrane Diameter: 4 in
- o Frame: Carbon steel
- o Permeate and Concentrate Tubing and Hose
- o Concentrate Recirculation
- o Pre-Filter Housing and Cartridges
- o Stainless Steel Membrane Vessels
- o Stainless Steel Valving, Tubing and Fittings
- o On-Skid Booster Pump
- o Raw and Permeate Pressure Switches
- o Concentrate, Permeate, and Recycle Flow Gauges
- o Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- o Microprocessor Controller
- o 240V, Single Phase Power
- *Electrical connections provided by others*

Chemical Equipment:

- o Anti-Scalant Dosing Pump and Integrated Tank
- *Shipped loose*

Installation Requirements:

- o **Feed Pressure Supply Range:** 20-40 psi
- o **Inlet Connection:** 3/4" NPT
- o **Permeate:** 3/4" NPT
- o **Concentrate:** 3/4" NPT
- o **Inlet Piping:** PVC
- o **Electrical Connections** (240V, 20Amp, Single Phase)

- Permeate Flush
- Re-pressurization System
- Granular Activated Carbon (GAC)
- 3 Phase Power
- pH Adjustment Chemical System
- Disinfectant Chemical System
- Corrosion Inhibitor Chemical System
- Custom Membranes

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



** Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Anti-scalant chemical injection required.*

ADDITIONAL ENHANCEMENTS

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
- Spare Set of Membranes
- Spare Cartridges
- System Set Points*
- On-Site Commissioning and Training
- CSA Certification



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
4	2.35 - 3.55 USGPM	30 - 170 psi	50-80%	Inches: 60 28 29 Mm: 1524 711 744	250 lbs (113 kgs)

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



*Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Anti-scalant chemical injection required.

ADDITIONAL ENHANCEMENTS

- Permeate Flush
- Re-pressurization System
- Granular Activated Carbon (GAC)
- 3 Phase Power
- pH Adjustment Chemical System
- Disinfectant Chemical System
- Corrosion Inhibitor Chemical System
- Custom Membranes

STANDARD OFFERINGS

On-Skid Mechanical Equipment:

- Low Energy High Recovery Reverse Osmosis Membranes
- Membrane Diameter: 4 in
- Frame: Carbon steel
- Permeate and Concentrate Tubing and Hose
- Concentrate Recirculation
- Pre-Filter Housing and Cartridges
- Stainless Steel Membrane Vessels
- Stainless Steel Valving, Tubing and Fittings
- On-Skid Booster Pump
- Raw and Permeate Pressure Switches
- Concentrate, Permeate, and Recycle Flow Gauges
- Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- Microprocessor Controller
- 240V, Single Phase Power
- * Electrical connections provided by others*

Chemical Equipment:

- Anti-Scalant Dosing Pump and Integrated Tank
- * Shipped loose*

Installation Requirements:

- **Feed Pressure Supply Range:** 20-40 psi
- **Inlet Connection:** 3/4" NPT
- **Permeate:** 3/4" NPT
- **Concentrate:** 3/4" NPT
- **Inlet Piping:** PVC
- **Electrical Connections** (240V, 20Amp, Single Phase)

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
- Spare Set of Membranes
- Spare Cartridges
- System Set Points*
- On-Site Commissioning and Training
- CSA Certification



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
5	2.95 - 4.44 USGPM	30 - 170 psi	50-80%	Inches: 60 28 29 Mm: 1524 711 744	275 lbs (125 kgs)

STANDARD OFFERINGS

On-Skid Mechanical Equipment:

- o Low Energy High Recovery Reverse Osmosis Membranes
- o Membrane Diameter: 4 in
- o Frame: Carbon steel
- o Permeate and Concentrate Tubing and Hose
- o Concentrate Recirculation
- o Pre-Filter Housing and Cartridges
- o Stainless Steel Membrane Vessels
- o Stainless Steel Valving, Tubing and Fittings
- o On-Skid Booster Pump
- o Raw and Permeate Pressure Switches
- o Concentrate, Permeate, and Recycle Flow Gauges
- o Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- o Microprocessor Controller
- o 240V, Single Phase Power
- *Electrical connections provided by others*

Chemical Equipment:

- o Anti-Scalant Dosing Pump and Integrated Tank
- *Shipped loose*

Installation Requirements:

- o **Feed Pressure Supply Range:** 20-40 psi
- o **Inlet Connection:** 3/4" NPT
- o **Permeate:** 3/4" NPT
- o **Concentrate:** 3/4" NPT
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- Disinfectant Chemical System
- Corrosion Inhibitor Chemical System
- Custom Membranes

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



** Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Anti-scalant chemical injection required.*

ADDITIONAL ENHANCEMENTS

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
- Spare Set of Membranes
- Spare Cartridges
- System Set Points*
- On-Site Commissioning and Training
- CSA Certification



Membrane Quantity	Permeate Flow Range	Min/Max Operating Pressure	Recovery	Dimensions Height Width Depth	Shipping Weight
6	3.55 - 5.30 USGPM	30 - 170 psi	50-80%	Inches: 60 28 29 Mm: 1524 711 744	300 lbs (136 kgs)

Water Quality Recommendations

TDS Maximum: 3000 mg/L
Chloride Maximum: 500 mg/L



**Expected operating pressures and flow set points can be shared if lab water quality is provided. Predicted system flow rate is based on membrane manufacturer specifications and nominal conditions. Membrane production varies with water quality, operating pressure, temperature, pH, and recovery. Anti-scalant chemical injection required.*

ADDITIONAL ENHANCEMENTS

- Permeate Flush
- Re-pressurization System
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- On-Skid Booster Pump
- Raw and Permeate Pressure Switches
- Concentrate, Permeate, and Recycle Flow Gauges
- Concentrate, Permeate, and Recycle Pressure Gauges

On-Skid Electrical Equipment:

- Microprocessor Controller
- 240V, Single Phase Power
- * Electrical connections provided by others*

Chemical Equipment:

- Anti-Scalant Dosing Pump and Integrated Tank
- * Shipped loose*

Installation Requirements:

- **Feed Pressure Supply Range:** 20-40 psi
- **Inlet Connection:** 3/4" NPT
- **Permeate:** 3/4" NPT
- **Concentrate:** 3/4" NPT
- **Inlet Piping:** PVC
- **Electrical Connections** (240V, 20Amp, Single Phase)

- Fiberglass Membrane Housing
- Permeate TDS and Conductivity
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