

# REVERSE OSMOSIS MACHINES

## RO4 SERIES (2,200 to 13,200 gpd)

Our RO4 machines are designed for durable operation, high quality product water production, easy installation and straightforward control.

### APPLICATIONS

Process ingredient water • Rinse water • Safe drinking water • Food ingredient water • Boiler feedwater • Ion exchange pre-treatment



### OPERATING PARAMETERS

- Operating Pressure: 100-110 psi 6.9-7.6 bar
- Maximum Recovery: 75%
- Nominal Rejection: 95-98%
- Design Temperature: 77 °F (25 °C)
- Minimum Inlet Pressure: 30 psi (2 bar)
- Operating Temperature: 55-85° F (13-30 °C)

### MATERIALS OF CONSTRUCTION

- Welded Frame: Painted carbon steel
- Membrane Elements: Desal® AK4040T1305
- Membrane Housing: Osmo® Stainless Steel
- Inlet Plumbing: Sch. 80 PVC
- High Pressure Plumbing: Reinforced rubber hose
- Permeate/Concentrate Tubing: Polyethylene, NSF approved
- Control Enclosure: NEMA 1
- Motor Starters: NEMA 4X
- Cartridge Filter: Hytrex® , 5 micron, 20 inch

### PUMP AND MOTOR

- Pump  
Tonkaflo®, multi-stage, centrifugal pump  
SS Shell/Housing  
Noryl\* internals  
SS inlet/discharge castings
- Motor  
3-Phase, TEFC, 208-230/460 VAC

### DELUXE FEATURES DLX

#### (IN ADDITION TO ECN FEATURES)

- Autoflush system
- Low inlet pressure switch
- Digital conductivity meter
- Alarms: Low Inlet Pressure, Motor Starter overload

\*Noryl is a registered trademark of General Electric Company

## CAT710.2

### STANDARD ECONOMY FEATURES (ECN)

- Low energy design reduces electrical requirements and operating costs
- 5-micron pre-filter
- Automatic inlet shut-off valve
- Permeate and Concentrate flow meters
- Remote machine on/off capability
- Thermal Motor Protection
- Pre-filter, post-filter, primary, and final pressure gauges
- Flow control center including concentrate and recycle valves

## REVERSE OSMOSIS (RO4)

APPLICATION TABLE							
ITEM	UNIT						
Model No.		RO4-2200	RO4-4400	RO4-6600	RO4-8800	RO4-11000	RO4-13200
Part No.	STD	932477	932481	932485	932489	932493	932497
Part No.	DLX	932478	932482	932486	932490	932494	932498
Recovery Range		50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate	gpm	1.5	3	4.5	6	7.5	9
Concentrate Rate	gpm	1.5-5	3-1	4.5-1.5	6-2	7.5-2.5	9-3
Pump/ Motor	hp	1.5 SS1809X	1.5 SS1809X	1.5 SS1809X	1.5 SS1809X	2 SS1812X	2 SS1812X
Number of Membrane Elements		1	2	3	4	5	6
Array		1	1-1	1-1-1	1-1-1-1	2-1-1-1	2-2-1-1
Inlet	inch	3/4	3/4	3/4	3/4	3/4	3/4
Permeate	inch	1/2	1/2	1/2	3/4	3/4	3/4
Concentrate	inch	1/2	1/2	1/2	3/4	3/4	3/4
Height	inch	50	50	55	55	60	60
Width	inch	30	30	30	30	30	30
Depth	inch	20	20	20	26	26	26
Shipping Weight	lbs	170	185	215	235	325	345

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