

# N – SERIES REVERSE OSMOSIS SYSTEMS

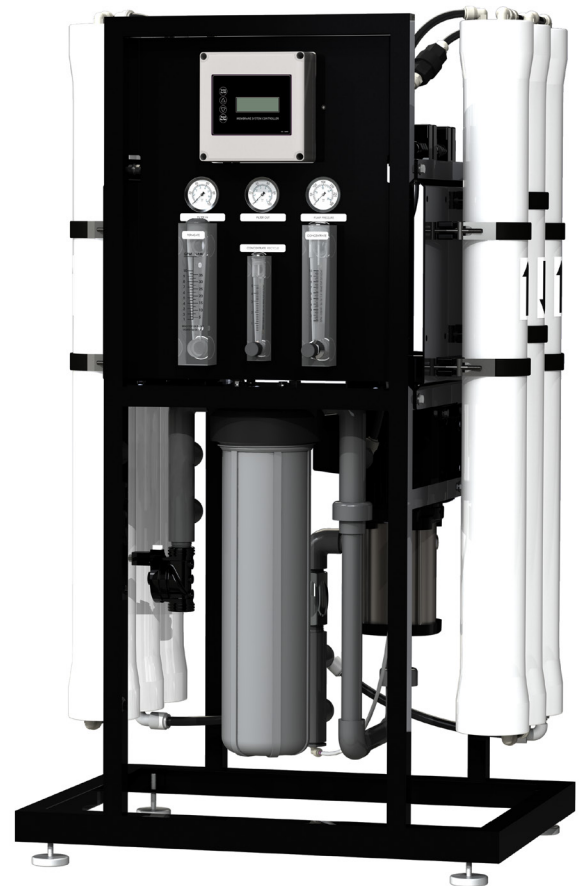
**AXEON N – Series Reverse Osmosis Systems** are designed as a competitive solution for capacities ranging from 2,000 – 16,000 gallons per day. Ideal for water purification applications for private residences, restaurants, cafes, car washes, hydroponics, misting and more.

## BENEFITS

- Ready for Immediate Delivery
- Compact Design
- Instrumentation Easily Accessible
- Pre-Plumbed, Wired and Assembled
- Easy Maintenance and Servicing
- Low Operation and Maintenance Costs
- Individually Tested
- 1-Year Limited Warranty
- Made in the U.S.A.

## FEATURES

- AX – 8000 Computer Controller
  - LCD Backlit Display
  - Pre-Treat Lockout
  - Feed Flush
  - TDS & Temperature Monitoring
  - Low Pressure Monitoring and Alarm
  - Manual Flush
  - Tank Level Input
- Permeate Flow Meter
- Concentrate Flow Meter with Integrated Stainless Steel Needle Valve
- Concentrate Recycle Flow Meter with Integrated Stainless Steel Needle Valve
- Pre and Post Filter 0 – 100 psi Panel Mounted Glycerin Filled Gauges
- Pump Discharge 0 – 300 psi Panel Mounted Glycerin Filled Gauges
- AXEON HE – Series Membrane Elements – 100 psi



**N – 12000**  
Reverse Osmosis System

- AXEON FRP – Series Membrane Housings
- Pentair® Big Grey Filter Housings
- AXEON SDF – Series 4.5" x 20" Diameter 5 – Micron Sediment Pre-Filter
- Grundfos® Multi-Stage Stainless Steel Booster Pump
- Chemical Injection Port and Electrical Connection
- Normally Closed Composite Feed Solenoid Valve
- Stainless Steel Throttle Valve
- Feed Low Pressure Switch
- High Pressure Tank Switch
- Parker®/Seatech® Push/Pull Quick Connect Fittings
- Black Powder Coated Aluminum Frame
- Optional Front Cover
- Optional Permeate Flush Kit

# SPECIFICATIONS

MODELS	N – 2000	N – 4000	N – 6000	N – 8000	N – 12000	N – 16000
<b>DESIGN</b>						
Configuration	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass
Feedwater TDS max ppm	2,000	2,000	2,000	2,000	2,000	2,000
Standard Recovery %†	32	48	58	65	58	65
<b>FLOW RATES</b>						
Permeate Flow Rate (gpd / lpd)†	2,000 / 7,570	4,000 / 15,141	6,000 / 22,712	8,000 / 30,283	12,000 / 45,425	16,000 / 60,566
Permeate Flow Rate (gpm / lpm)†	1.39 / 5.26	2.78 / 10.52	4.16 / 15.75	5.56 / 21.05	8.33 / 31.53	11.11 / 42.06
Minimum Concentrate Flow Rate (gpm / lpm)	3.00 / 11.36	3.00 / 11.36	3.00 / 11.36	3.00 / 11.36	6.00 / 22.72	6.00 / 22.72
Concentrate Recycle Flow Rate (gpm / lpm)	Up to 2.00 / 7.57	Up to 5.00 / 18.93	Up to 5.00 / 18.93	Up to 5.00 / 18.93	Up to 5.00 / 18.93	Up to 5.00 / 18.93
<b>CONNECTIONS</b>						
Feed (inch)	1 FNPT	1 FNPT	1 FNPT	1 FNPT	1 FNPT	1 FNPT
Permeate (inch)	1/2 QC	1/2 QC	1 FNPT	1 FNPT	1 FNPT	1 FNPT
Concentrate (inch)	1/2 QC	1/2 QC	1 FNPT	1 FNPT	1 FNPT	1 FNPT
<b>MEMBRANES</b>						
Membrane(s) Per Vessel	1	1	1	1	1	1
Membrane Quantity	1	2	3	4	6	8
Membrane Size	4040	4040	4040	4040	4040	4040
Nominal TDS Rejection %	98.50	98.50	98.50	98.50	98.50	98.50
<b>VESSELS</b>						
Vessel Array	1	1:1	1:1:1	1:1:1:1	2:2:2	2:2:2:2
Vessel Quantity	1	2	3	4	6	8
<b>PUMPS</b>						
Pump Type	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage
Motor HP	1.5	1.5	2	2	2	2
RPM at 60 Hz	3480	3480	3480	3480	3480	3480
<b>SYSTEM ELECTRICAL</b>						
Standard Voltage + Amp Draw	220V, 60HZ, 1PH, 8.5A	220V, 60HZ, 1PH, 8.5A	220V, 60HZ, 1PH, 11.0A	220V, 60HZ, 1PH, 11.0A	220V, 60HZ, 1PH, 11.0A	220V, 60HZ, 1PH, 11.0A
<b>SYSTEM DIMENSIONS</b>						
Approximate Dimensions†† L x W x H (in / cm)	25 x 16 x 55 / 63.5 x 40.6 x 140	25 x 16 x 55 / 63.5 x 40.6 x 140	21 x 24 x 55 / 53.3 x 61.0 x 140	21 x 24 x 55 / 53.3 x 61.0 x 140	21 x 24 x 55 / 53.3 x 61.0 x 140	21 x 24 x 55 / 53.3 x 61.0 x 140
Approximate Weight††† (lbs / kg)	120 / 55	130 / 59	180 / 82	210 / 95	240 / 109	270 / 123

† Product flow and standard recovery rates are based on feedwater conditions as stated above. Do not exceed the recommended permeate flow.

†† Does not include operating space requirements.

††† Does not include membrane(s).

**Test Parameters:** 550 TDS Filtered (5 - Micron), Dechlorinated, Municipal Feedwater, 65 psi / 4.50 bar Feed Pressure, 100 psi / 6.9 bar Operating Pressure, 77°F / 25°C, Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation.

**To Obtain the System's Maximum Recovery** please contact your local dealer in order to provide details on the specific application and feed water composition. Maximum recovery of the system varies depending on feed water composition.

## OPERATING LIMITS\*

Design Temperature, °F	77	Maximum Turbidity, NTU	1
Maximum Feed Temperature, °F	85	Maximum SDI Rating	<3
Minimum Feed Temperature, °F	40†††	Maximum Free Chlorine, ppm	0
Maximum Ambient Temperature, °F	120	Maximum TDS, ppm	2,000††††
Minimum Ambient Temperature, °F	40	Maximum Hardness, gpg	0
Maximum Feed Pressure, PSI	85	Maximum pH (continuous)	10
Minimum Feed Pressure, PSI	45	Maximum pH (continuous)	4
Maximum Operating Pressure, PSI	200	Minimum pH (cleaning 30 minutes)	12
Operating Range, PSI	150 – 200††††	Minimum pH (cleaning 30 minutes)	2

††† Low temperatures and feedwater quality, such as high TDS levels will significantly affect the systems production capabilities and performance. Computer projections must be run for individual applications which do not meet or exceed minimum and maximum operating limits for such conditions.

†††† System Operating Pressure is based on 60 psi feed pressure, minimum concentrate flow as stated and an average of 2000 gpd flow per membrane at 77°F.

\*If any of the feed water parameters are not within the limits given, consult your local dealer or distributor for assistance.

800-320-4074

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