



N-SERIES COMMERCIAL REVERSE OSMOSIS SYSTEMS



OUR WATERMARK OF DISTINCTION

Discover the pinnacle of water purification technology with AXEON reverse osmosis systems. Engineered for excellence, our RO systems offer unmatched performance and reliability, ensuring clean and filtered pure water for every application. Whether you're a homeowner, a business owner, or an industrial professional, AXEON has the perfect solution to meet your specific needs.

Begin to experience the power of our reverse osmosis systems, equipped with cutting-edge membrane technology that effectively removes impurities and contaminants. Enjoy the peace of mind that comes with knowing your water is safe and free from harmful substances. Our systems are designed with efficiency in mind, saving you time and money by optimizing water usage and minimizing waste water production.

Trust in AXEON's expertise and select our reverse osmosis systems to elevate your water purification experience. From residential households to commercial establishments and industrial facilities, our RO systems deliver uncompromising performance. Join the countless satisfied customers who have made AXEON their trusted partner for superior water quality.



OUR REVOLUTIONARY WATER PURIFICATION TECHNOLOGY

Experience the revolution in water purification with our state-of-the-art reverse osmosis membrane technology. Our cutting-edge RO systems utilize the power of advanced membrane filtration and cross-link layering to enable pure water faster, with lower chances of fouling and high energy efficiency.

Whether it's for residential, commercial, or industrial applications, reverse osmosis technology offers a multitude of benefits and can enhance the quality of your commercial and industrial processes with water that meets the highest purity standards. With our reverse osmosis membrane technology, you can trust that your water is pure, safe, and ready for any application.

FEATURES

- 2,000 - 16,000 gallons per day (gpd) of clean, filtered pure water
- +98% reduction of total dissolved solids (TDS), contaminants and other impurities
- Compact and corrosion-resistant design and materials
- Select pre-treatment equipment and accessories
- Built-in user-friendly RO controller
- Engineered and made in the U.S.A.
- 1-year warranty

APPLICATIONS

- Manufacturing
- Horticulture
- Buildings
- Cleaning
- Healthcare
- HVAC/Plumbing
- Food and Beverage
- Residences



INTRODUCING N-SERIES HEAVY-DUTY COMMERCIAL RO SYSTEMS



AXEON N-Series commercial reverse osmosis systems deliver on performance, quality and effectiveness when managing production flow rates with a budget. These RO systems come equipped with many standard features, including:

RO Controller

Our advanced RO controller delivers all the standard operational requirements. Its easy-to-read LED screen and alarms make it ideal for improved notifications and monitoring.



- Permeate TDS monitoring and alarm
- Low-pressure monitoring and alarm
- RO controller system monitoring
- LCD backlit display with keypad
- Run-time monitor and pre-treatment lock out
- Low-pressure switch with auto restart
- High-pressure switch for pressurized tanks
- Optional permeate flush for extended membrane life
- Optional wiring for tank level control input for float switch
- Chemical injection port and electrical connection

Standard Features and Instrumentation

- AXEON XE1-4040 extra low energy and high rejection membranes
- AXEON 300 psi rated fiberglass membrane housings for increased durability
- AXEON SDF-Series 4.5" x 20" diameter 5-micron sediment pre-filter
- AXEON flow meters and pressure gauges
- AXEON 6063 aluminum black powder-coated frame for corrosion resistance
- AXEON protective front panel white ABS cover (*optional*)
- Grundfos® CM1-7 and CM3-8 energy-efficient stainless-steel centrifugal pumps
- Pentair® Big Grey filter housings
- Parker®/Seatech® Quick Connect fittings
- Normally closed composite feed solenoid valve with manual bypass



MODULAR DESIGN PROVIDES EASY, HASSLE-FREE INSTALLATION AND MAINTENANCE

Turn-Key Skids—City and Well Water Applications

For over 35 years, AXEON has engineered and manufactured turn-key solutions for its customers. We know what it takes to be competitive in your business and we are here to help and support you every step of the way.

That is why we are proud to introduce our N-Series turn-key skids, which allow you to select your N-Series system, pre-treatment equipment/accessories and have the factory assemble, pre-plumb, wire and test them prior to arriving at your installation location. This gives you the reassurance that they have been properly assembled/tested and provides you with hassle-free installation and ongoing maintenance.



Dechlorination—Chlorine Removal

RO membranes cannot tolerate levels of chlorine or chloramines. Therefore, AXEON recommends its automatic backwashing and self-maintaining granulated activated carbon (GAC or GACC) filters, which are highly effective in removing these chemicals.

Chemical Injection + Antiscaling—Scale Prevention

Chemical injection systems are an easier way to treat water hardness or lime scale by injecting a pre-determined amount of antiscalant into the feedwater that is entering the reverse osmosis system. This eliminates the hassle associated with refilling salt softeners and doesn't have restrictions within areas for use. Chemical injection systems can also be used to inject other chemicals for pre-treatment and disinfection purposes.



Repressurization—Water Delivery

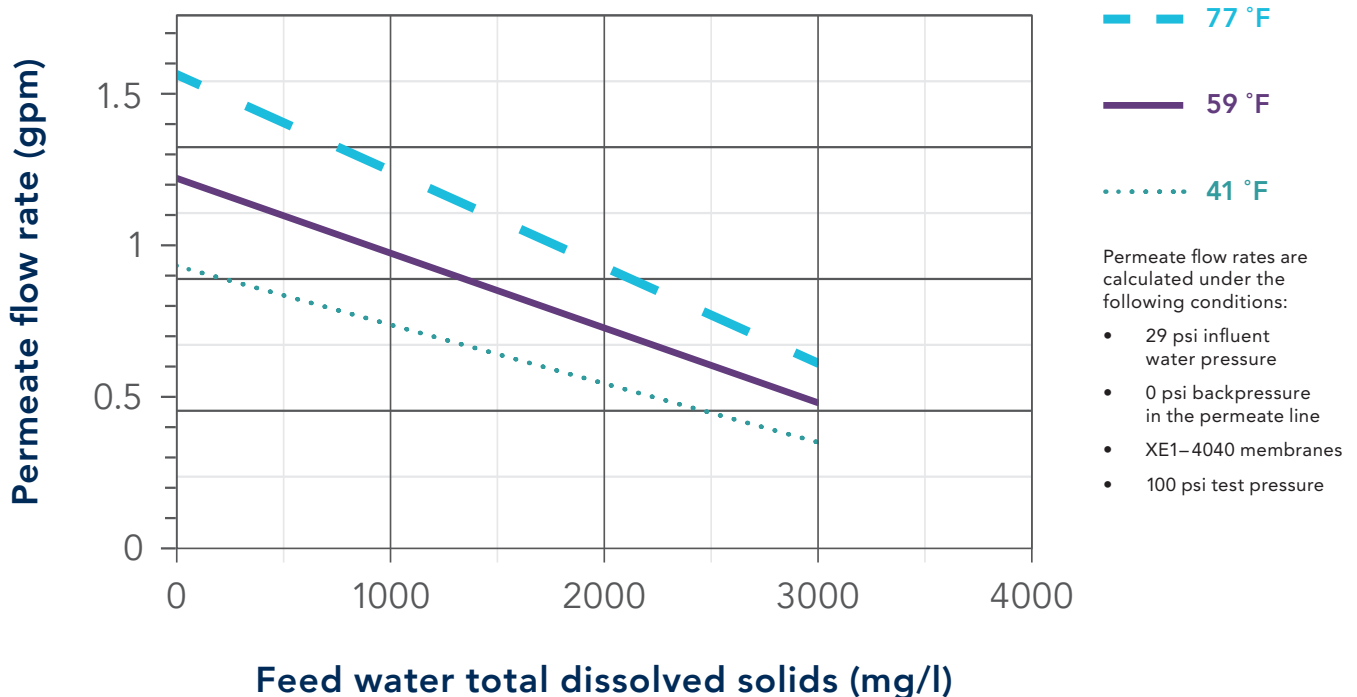
A demand or delivery pump draws water from an atmospheric /non-pressurized storage tank or low-pressure city supply, repressurizes it, and sends the water to a desired location on demand. It can also boost low water pressure.



RO System Benefits

- Proven and smart engineering
- Modular and compact design
- Easily accessible instrumentation
- Pre-plumbed, wired and assembled
- Hassle-free maintenance and servicing
- Low operation and maintenance costs
- Individually tested and quality controlled
- 1-year ironclad manufacturer's warranty
- In stock—ready for immediate delivery
- Manufactured in the U.S.A.

AXEON N-SERIES RO SYSTEMS



SPECIFICATIONS

MODELS	N-2000	N-4000	N-6000	N-8000	N-12000	N-16000
Design						
Configuration	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass
Feedwater TDS max (ppm) ^A	2,000	2,000	2,000	2,000	2,000	2,000
Standard Recovery %	32	48	58	65	58	65
Flow Rates^B						
Permeate Flow (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 (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 (gpm / lpm)	3 / 11.36	3 / 11.36	3 / 11.36	3 / 11.36	6 / 22.72	6 / 22.72
Concentrate Recycle Flow (gpm / lpm)	Up to 2 / 7.57	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93
Connections						
Feed (in)	1 FNPT	1 FNPT	1 FNPT	1 FNPT	1 FNPT	1 FNPT
Permeate (in)	1/2 QC	1/2 QC	1 FNPT	1 FNPT	1 FNPT	1 FNPT
Concentrate (in)	1/2 QC	1/2 QC	1 FNPT	1 FNPT	1 FNPT	1 FNPT
Membranes						
Membrane 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
Vessels						
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
Pumps						
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
System Electrical						
Standard Voltage + Amp Draw ^C	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
System Dimensions						
Approximate Dimensions ^D L x W x H (in/cm)	25 x 16 x 55 / 63.50 x 40.60 x 140	25 x 16 x 55 / 63.50 x 40.60 x 140	32 x 24 x 55 / 81.30 x 61 x 140	32 x 24 x 55 / 81.30 x 61 x 140	32 x 24 x 55 / 81.30 x 61 x 140	32 x 24 x 55 / 81.30 x 61 x 140
Approximate Weight (lbs/kg)	120 / 55	130 / 59	180 / 82	210 / 95	240 / 109	270 / 123

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.

A. Low temperatures and feedwater quality, such as high TDS levels, will significantly affect the system's 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.

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

C. Varies with motor manufacturer.

D. Does not include operating space requirements.



Unbeatable performance backed by more than three decades of AXEON's experience in the water filtration industry. Look for our Watermark of Distinction. **Call (800) 320-4074 or visit us at [AXEONwater.com](https://www.axeonwater.com) to learn more.**