

PWS-SERIES PACKAGED WATER SYSTEMS

**PWS-Series
Packaged Water Systems**
(RO System Not Included)



AXEON® PWS-Series Packaged Water Systems are water purification pre-treatment solutions for **AXEON R1-Series Reverse Osmosis Systems**. These plug-and-play skids come pre-assembled, pre-wired and pre-plumbed, making installation turnkey. **AXEON PWS-Series Packaged Water Systems** are an ideal solution for applications such as horticulture, car washes, water stores, water jet cutting, manufacturing, and other industrial applications.

AXEON features a total of four (4) skids that match up to our nine (9) different models of reverse osmosis systems featured below:

Model	RO Flow Rates		System Dimensions (in / cm)			Part	Pre-Treatment			Post-Treatment	Approx. Shipping Weight (lb / kg)
	GPD	m ³ /day	Length	Width	Height		Zeolite (in)	GACC (in)	Chemical Injection (GPD)	Ultraviolet (GPM)	
R1-1140	1,800	6.8	29 / 73.6	96 / 244	81 / 206	211837	12 x 52	12 x 52	4	12	920 / 420
R1-2140	3,600	13.6	29 / 73.6	96 / 244	81 / 206	211838	16 x 53	16 x 53	15	12	1,275 / 580
R1-3140	5,400	18.9	29 / 73.6	96 / 244	81 / 206	211838	16 x 53	16 x 53	15	12	1,375 / 625
R1-4140	7,200	24.6	34 / 86	96 / 244	81 / 206	211839	16 x 65	16 x 65	15	30	1,500 / 680
R1-5140	9,000	30.2	34 / 86	96 / 244	81 / 206	211839	16 x 65	16 x 65	15	30	1,550 / 703
R1-6140	10,800	35.9	34 / 86	96 / 244	81 / 206	211839	16 x 65	16 x 65	15	30	1,650 / 748
R1-8140	14,400	54.5	34 / 86	120 / 304	81 / 206	211840	18 x 65	18 x 65	15	30	1,700 / 771
R1-10140	18,000	68	34 / 86	120 / 304	81 / 206	211840	18 x 65	18 x 65	15	30	1,895 / 860
R1-12140	21,600	81.8	34 / 86	120 / 304	81 / 206	211840	18 x 65	18 x 65	15	30	1,945 / 882

Part Number	Item Description
211837	SYSTEM, SKID, W/PRETREATMENT, 1252 ZEOLITE, 1252 GACC, 4GPD CHEM INJ, 12 GPM UV, AXEON
211838	SYSTEM, SKID, W/PRETREATMENT, 1653 ZEOLITE, 1653 GACC, 15GPD CHEM INJ, 12 GPM UV, AXEON
211839	SYSTEM, SKID, W/PRETREATMENT, 1665 ZEOLITE, 1665 GACC, 15GPD CHEM INJ, 30 GPM UV, AXEON
211840	SYSTEM, SKID, W/PRETREATMENT, 1865 ZEOLITE, 1865 GACC, 15GPD CHEM INJ, 30 GPM UV, AXEON

AXEON PWS-Series feature a proven and reliable design with many top brand-name components and accessories. All AXEON water systems are rigorously tested and qualified prior to shipment for trouble-free operation. With over 30 years of experience in manufacturing membrane systems and products, we strive to design systems for long-term performance and minimization of membrane fouling.



PWS-Series
Packaged Water Systems
(RO System Not Included)

OPERATING LIMITS^A

Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Free Chlorine (ppm)	< 3
Minimum Feed Temperature (°F / °C)	40 / 4	Maximum TDS (ppm)	2,000
Maximum Ambient Temperature (°F / °C)	120 / 49	Maximum Hardness (gpg)	300
Minimum Ambient Temperature (°F / °C)	40 / 4	Maximum pH (continuous)	11
Maximum Feed Pressure (psi / bar)	85 / 6	Minimum pH (continuous)	2
Minimum Feed Pressure (psi / bar)	45 / 3	Maximum pH (cleaning 30 minutes)	13
Maximum Pressure (psi / bar)	85 / 5.8	Minimum pH (cleaning 30 minutes)	1
Maximum Feed Silt Density Index (SDI)	< 5	Maximum Turbidity NTU	1

A. System pressure is variable due to water conditions. Permeate flow will increase at a higher temperature and will decrease at a lower temperature.



1 Frame/Skid

Heavy-duty reinforced aluminum with epoxy powder coating for corrosion resistance; caster wheels for ease of movement.

2 Integrated Instrumentation

Allows for easier monitoring of the system's pressures and performance.

3 Zeolite Filter

Automatic backwashing zeolite system for the reduction of sediments down to 5 microns.

4 Granulated Activated Catalytic Carbon (GACC) Filter

Automatic backwashing carbon system for the effective reduction of chlorine, VOCs, THM and other contaminants.

5 Chemical Injection System

Automatic dosing of antiscalant for maximum membrane protection from calcium, magnesium carbonate (hardness), iron, manganese and silica (SiO_2).

6 Ultraviolet (UV) System *(not pictured above)*

Automatic ultraviolet disinfection system for the reduction of bacteria and viruses.

7 Electrical

Integrated power outlets and all wiring to code for one electrical connection for 220 volts.

8 Plumbing

Aligned piping and conveniently located utility connections for the feed, permeate and concentrate water inlets/outlets.