

## FLEXEON AT-1000S REVERSE OSMOSIS SYSTEM

Date: **May 14, 2016 3:36 am**

<https://depoth2o.com/listing/flexeon-1000s-reverse-osmosis-system/>



## FLEXEON AT-1000S REVERSE OSMOSIS SYSTEM

FLEXEON AT-Series Reverse Osmosis (RO) Systems are designed and manufactured for commercial and light industrial applications. These systems have been engineered for capacities ranging from 500 – 1,000 gallons per day and for municipal and well water supplies. FLEXEON AT-Series RO Systems come pre-assembled, fully tested, preserved and sanitized and only require simple utility connections once on site. Systems come ready for immediate on-line service, minimal set up and with little adjustment required.

FLEXEON AT-Series Reverse Osmosis Systems are designed for overall high performance, high recovery rates, minimal energy consumption and offer great savings with low maintenance and operation costs. These systems feature a space saving expandable design, exceptional pre-filtration, quality components and allow for many options and upgrades to suit most applications.

### Benefits

- Fully Equipped and Customizable
- Expandable and Lightweight Design
- Compact Space Saving Design
- Components Easily Accessible Benefits AT-Series Reverse Osmosis Systems
- Pre-Plumbed, Wired and Assembled

- Factory Tested and Preserved
- Low Operation Costs
- Low Maintenance Costs
- Easy Maintenance and Servicing
- CE Compliant
- 1-Year Limited Warranty
- Made in the U.S.A.

### **Models AT-1000S**

### **STANDARD (S)**

Frame White Powder Coated Aluminum Frame

✓

### **Controls**

Manual On and Off Control Switch

✓

Minitrol Computer Controller

Minitrol IF Computer Controller

Pre-Treatment Lockout

Tank Level Input

LED Controller Display

Feed Solenoid Valve

✓

Concentrate Recycle Valve

Feed Low Pressure Switch 15-30 psi

✓

### **Instrumentation**

AXEON® Permeate Flow Meter

✓

AXEON® Concentrate Flow Meter

✓

Concentrate Recycle Flow Meter

AXEON® 316 Stainless Steel Concentrate Valve

✓

AXEON® 0-100 psi Pre-Filter In Pressure Gauge

✓

AXEON® 0-100 psi Pre-Filter Out Pressure Gauge ✓

AXEON® 0-300 psi Pump Pressure Gauge ✓

HM Digital™ PS-100 Permeate TDS Controller

HM Digital™ PS-202 Dual Permeate and Feed TDS Controller

## Features

Feed Flush

AXEON® 5 Micron Sediment Pre-Filter ✓

AXEON® 10 Micron Carbon Block Pre-Filter ✓

AXEON® by Pentek® Single O-Ring Filter Housings ✓

AXEON® HF1 Low Energy RO Membranes ✓

AXEON® HF4 Extra Low Energy RO Membranes

AXEON® PVC Membrane Housings ✓

Fluid-O-Tech™ Brass Rotary Vane High Pressure Pump ✓

Fluid-O-Tech™ Stainless Steel Rotary Vane Pump

ODP High Efficiency Carbonator Motor ✓

*Note: All 50Hz systems come standard with AXEON HF4 Extra Low Energy RO Membranes.*

## Specifications

### Design

Configuration	Single Pass
Feed Water Source ***	TDS <2000 ppm
Standard Recovery Rate†	41%
Recovery with Concentrate Recycle	Up to 75%

### Rejection and Flow Rates

Nominal Salt Rejection %	98.5
--------------------------	------

Permeate Flow* gpm (lpm)	0.69 (2.61)
Minimum Feed Flow gpm (lpm)	1.69 (6.40)
Maximum Feed Flow gpm (lpm)	4.00 (15.14)
Minimum Concentrate Flow gpm (lpm)	1.00 (3.78)

### Connections

Feed inch	1 FNPT
Permeate inch	3/8 Tube
Concentrate inch	3/8 Tube

### Membranes

Membrane(s) Per Vessel	1
Membrane Quantity	3
Membrane Size	2521

### Vessels

Vessel Array	1:1:1
Vessel Quantity	3

### Pumps

Pump Type	Rotary Vane 601 Brass or 611 SS
Motor HP	1/2
RPM @ 60 (50 Hz)	1725 (1465)

### Electrical

Standard Voltage	110V, 60Hz, 1 PH, 8.2A
Voltage Options	220V, 60Hz, 1 PH, 3.9A
	220V, 50Hz, 1 PH, 4.1A

### Systems Dimensions \*\*

L x W x H inch (cm)	14 x 20 x 27 (36 x 51 x 69)
---------------------	-----------------------------

Weight lb. (kg)

70 (31.75)

***\* Product Flow rates and recovery are based on equipment test parameters. \*\* Does not include operating space requirements. \*\*\* Treatment ability of the RO system is dependent on feed water quality. Performance projections must be run for each installation.***

### Operating Limits

Maximum Feed Temperature °F (°C)	85 (29.00)
Maximum Free Chlorine ppm	0
Minimum Feed Temperature °F (°C)	40 (4.44)
Maximum TDS ppm	<2000
Maximum Ambient Temperature °F (°C)	120 (48.89)
Maximum Hardness gpg††	0
Minimum Ambient Temperature °F (°C)	40 (4.44)
Maximum pH (Continuous)	11
Maximum Feed Pressure psi (bar)	85 (5.86)
Minimum pH (Continuous)	5
Minimum Feed Pressure psi (bar)	45 (3.10)
Maximum pH (Cleaning 30 Min.)	12
Maximum Operating Pressure psi (bar)	150 (10.34)
Minimum pH (Cleaning 30 Min.)	2
Maximum SDI Rating SDI	<3
Maximum Turbidity NTU	1

***Test Parameters: 550 TDS Filtered (5 Micron), De-Chlorinated, Municipal Feed Water, 65 psi (4.50 bar) Feed Pressure, 150 psi (10.34 bar) Operating Pressure, 77 Degrees F (25 Degrees C), Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation. † Low temperatures and high feed water TDS levels will significantly affect systems production capabilities. Computer projections should be run for individual applications. †† Scale prevention measures must be taken to prolong membrane life.***



[All Products](#), [R O Commercial](#), [Reverse Osmosis](#)

[Print](#)