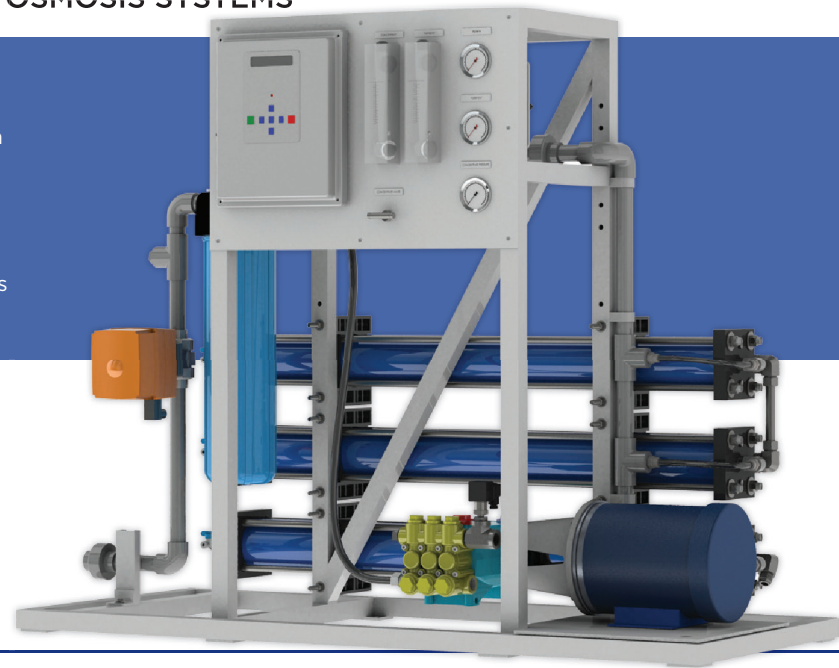


ACT3-SERIES

COMMERCIAL SEAWATER REVERSE OSMOSIS SYSTEMS

ACT3-Series systems are designed and manufactured for seawater applications requiring capacities of 3,000-7,000 gallons per day. Premium components equipped include a 316 plunger-type pump for high performance and corrosion resistance, a high grade corrosion resistant aluminum frame, a programmable computer controller with many built-in features, and fiberglass membrane housings for durability.

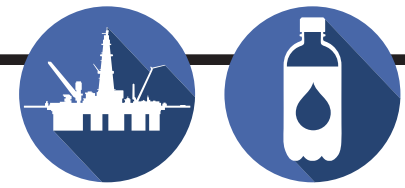


STANDARD FEATURES

- S150 Computer Controller
- LCD Backlit Display
- Pre-Treatment Lockout
- Tank Level Input
- Low Pressure Monitoring and Alarm
- Dual TDS Monitoring
- Hour Meter
- Feed Flush
- High Rejection Seawater Membranes
- Fiberglass Membrane Housings
- 5 Micron Sediment Pre-Filter
- Pentair® Single O-Ring Cartridge Housing
- Permeate and Concentrate Flow Meters
- 0-100 psi 316-SS Glycerin-Filled Pre-Filter

STANDARD FEATURES (CONT)

- SS Feed Low Pressure Switch
- SS Pump High Pressure Switch
- Pressure Relief Valve
- High Pressure Hose
- Pulsation Dampener
- CAT® 316L High Pressure Pump
- TEFC Motor with Thermal Motor Protection
- Powder Coated Aluminum Frame
- High Pressure 316 Stainless Steel Tubing and Fittings
- High Pressure Hose with Reusable SS Fittings
- 0-100 psi Pre-Filter Out Pressure Gauge
- 0-1500 psi Concentrate Pressure Gauge
- 316 Stainless Steel Needle Valve



MODELS	ACT3-3000	ACT3-5000	ACT3-7000
DESIGN			
System Capacity ¹ gpd (m ³ /day)	3,000 (11.36)	5,000 (18.93)	7,000 (26.50)
Configuration ¹	Single Pass		
Feed Water Source ³ (ppm)	36,000		
Standard Recovery ²	27%	33%	46%
REJECTION AND FLOW RATES			
Nominal TDS Rejection	99.4%		
Permeate Flow ¹ gpm (Lpm)	2.78 (10.50)	3.47 (13.10)	4.80 (18.20)
CONNECTIONS			
Feed (in)	1		
Permeate (in)	1		
Concentrate (in)	1		
Chemical Feed Port (in)	0.5		
MEMBRANES			
Membranes Per Vessel	1		
Membrane Quantity	4	5	6
Membrane Size	4040		
VESSELS			
Vessel Array	1:1:1	1:1:1:1	1:1:1:1:1
Vessel Quantity	4	5	6
PUMPS			
Pump Type	CAT Pump - 7CP6111		
Motor HP	7.5		
ELECTRICAL			
Standard Voltage ⁵	230V 3PH 60Hz		
SYSTEM DIMENSIONS			
L x W x H (in/mm)	60 x 26 x 48 (1524 x 660 x 1219)		
Weight (lb/kg)	300 (136.1)	340 (154.2)	600 (272.2)
OPERATING LIMITS			
Design Temperature (°F/°C)	77 (25)	Maximum Turbidity (NTU)*	1
Maximum Feed Temperature (°F/°C)	85 (29)	Maximum Free Chlorine (ppm)	0
Minimum Feed Temperature (°F/°C)	40 (4.4)	Maximum Hardness (gpg)**	0
Maximum Ambient Temperature (°F/°C)	120 (48.9)	Maximum pH (Continuous)	11
Minimum Ambient Temperature (°F/°C)	40 (4.4)	Minimum pH (Continuous)	5
Maximum Feed Pressure (psi/bar)	60 (4.13)	Maximum pH (Cleaning 30 Min.)	12
Minimum Feed Pressure (psi/bar)	15 (1.03)	Minimum pH (Cleaning 30 Min.)	2
Maximum Piping Pressure (psi/bar)	950 (65.5)	Maximum Turbidity (NTU)**	1
Maximum SDI Rating (SDI)	<3		

¹Product flow and recovery rates are based on feedwater conditions of 32000 ppm TDS at 65°F. Treatment ability of the RO system is dependent on feed water quality. Higher TDS and/or lower temperatures will reduce product flow. An Aqua-Chem Applications Engineer can rate the units for these other feed water conditions. ²Appropriate filtration must be installed in order to prevent premature membrane fouling. ³Scale prevention measures must be taken to prolong membrane life.