



60 Hz

E8 Series Reverse Osmosis Machine 57,000 to 288,000 gallons per day

When you mention reverse osmosis (RO), Osmonics is the first name to come to mind. Our E-series RO machines are designed for durable operation, high quality product water production, easy installation and straightforward control.

Applications include (but not limited to):

- Process ingredient water
- Safe drinking water
- Boiler feedwater
- Ion exchange pre-treatment

Standard Economy Features

- z Energy saving 400 ft² (37.2 m²) membrane elements
- z SS high-pressure piping
- z 5-micron pre-filter and SS housing
- z Automatic inlet shut-off valve
- z PLC control
- z Lakewood Instruments™ 2450 controller
 - z Digital permeate and concentrate flow meters
 - z Digital conductivity meter
 - z Modem Monitoring
- z ALARMS: Low inlet pressure, starter overload trip, high temperature [105°F (41°C)], high permeate conductivity
- z Remote machine on/off capability
- z Autoflush system
- z Pre-filter, post-filter, primary, and final pressure gauges

Operating Parameters

- z Operating Pressure:.....200-250 psig
- z Maximum Recovery:75%
- z Nominal Rejection:95-98%
- z Operating Temperature:.....55-85° F
- z Minimum Inlet Pressure:....30 psig
- z Design Temperature:.....77°F

Materials of Construction

- z Frame:.....Epoxy coated carbon steel
- z Membrane Elements:Desal AG8040F-400
- z Membrane Housing:.....Stainless Steel
- z Low Pressure Pipe:Sch. 80, PVC
- z High Pressure Pipe:Stainless Steel
- z Control Enclosure:NEMA 12
- z Motor Starters.....NEMA 4

Pump and Motor

- z Pump
 - Tonkaflo®, multi-stage, centrifugal pump
 - SS Shell/Housing
 - Noryl* internals
 - SS inlet/discharge castings
- z Motor
 - 3-phase, TEFC, 460 VAC

Deluxe (DLX) Features - In addition to ECN Features

- z Digital pH controller system
- z Chemical dosing system
- z Permeate purge
- z Permeate purge disable capabilities
- z ALARMS: High permeate pressure, high/low pH
- z Clean-In-Place pump plumbed, wired and mounted; remote tank

* Noryl is a trademark of General Electric Company.

E8 Specifications

60 Hz

Model		E8-57K	E8-72K	E8-86K	E8-108K	E8-144K	E8-180K	E8-216K	E8-288K
Part Number	ECN	1202846	1202848	1202850	1202833	1202835	1202839	1202848	1202844
	DLX	1202284	1202285	1202286	1202287	1202288	1202289	1202290	1202291
Recovery Range		66-75%	66-75%	66-75%	66-75%	66-75%	66-75%	66-75%	66-75%
Permeate Rate	gpm	40	50	60	75	100	125	150	200
	(m ³ /h)	(9)	(11)	(14)	(17)	(23)	(28)	(34)	(45)
Concentrate Rate	gpm	21-13	26-17	30-20	39-25	52-33	64-42	77-50	103-67
	(m ³ /h)	(5-3)	(6-4)	(7-5)	(9-6)	(12-8)	(15-10)	(18-11)	(23-15)
Pump and Motors									
RO Pumps		SS8510KA	SS8512KB	SS8512KB	SS12508KC	SS12512KE	SS24007KE	SS24008KE	AS39408KE
RO Motor	HP (KW)	15 (11.2)	20 (15)	20 (15)	25 (18.7)	40(29.8)	50 (37.3)	50 (37.3)	60 (44.7)
CIP Pump	(DLX Only)	SS5504G	SS5504G	SS5504G	SS8504G	SS8504G	SS12503D	SS12503D	SS12503D
CIP Motor	HP (KW)	5 (3.7)	5 (3.7)	5 (3.7)	7.5 (5.6)	7.5 (5.6)	10 (7.5)	10 (7.5)	10 (7.5)
Membrane Elements and Filters									
Number of Elements		8	10	12	15	20	25	30	36
Array		1-1-1	2-1-1	2-1-1	3-2	3-2	3-2	3-2	4-2
Number of Pre-filters		5	5	5	5	10	10	10	15
Piping									
Inlet	Inch (cm)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)	3.0 (7.6)	3.0 (7.6)	3.0 (7.6)	3.0 (7.6)
Permeate	Inch (cm)	1.5 (3.8)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)	3.0 (7.6)	3.0 (7.6)	3.0 (7.6)
Concentrate	Inch (cm)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)
Approximate Overall Dimensions									
Height	Inch (cm)	72 (138)	72 (138)	72 (138)	72 (138)	72 (138)	72 (138)	72 (138)	72 (138)
Width	Inch (cm)	139 (353)	139 (353)	139 (353)	139 (353)	179 (455)	219 (556)	260 (660)	260 (660)
Depth	ECN Inch (cm)	40 (102)	40 (102)	40 (102)	40 (102)	40 (102)	40 (102)	40 (102)	40 (102)
	DLX Inch (cm)	81 (206)	81 (206)	81 (206)	81 (206)	91 (231)	91 (231)	91 (231)	91 (231)
Approximate Weight									
ECN	lbs	2600	3000	3100	3400	3500	3900	4000	4300
	(kg)	(1200)	(1300)	(1400)	(1500)	(1600)	(1700)	(1800)	(2000)
DLX	lbs	3000	3400	3600	3800	4000	4400	4500	5000
	(kg)	(1400)	(1600)	(1600)	(1700)	(1800)	(2000)	(2000)	(2300)

For More Information:

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