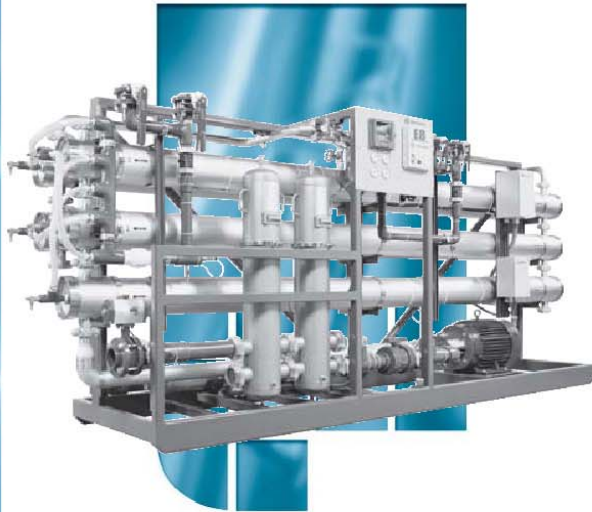


E8 Series

60 Hz Reverse Osmosis Machine
57,000 to 144,000 gallons per day



Our E-series RO machines are designed for durable operation, high quality product water production, easy installation, and straightforward control.

Applications

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

Standard Economy Features (ECN)

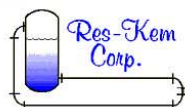
- > Energy saving 400 ft² (37.3 m²) membrane elements
- > SS high-pressure piping
- > One-micron ROsave.Z™s prefilter and SS housing
- > Automatic inlet shut-off valve
- > PLC control
- > Lakewood Instruments™ 2450 controller
 - Digital permeate and concentrate flow meters
 - Digital conductivity meter
 - Modem monitoring
- > ALARMS: low inlet pressure, starter overload trip, high temperature [105°F (41°C)], high permeate conductivity
- > Remote machine on/off capability
- > Autoflush system
- > Pre-filter, post-filter, primary, and final pressure gauges

Deluxe (DLX) Features - in addition to ECN features

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

Pump and Motor

- > Pump — Tonkaflo™ multi-stage, centrifugal pump, SS Shell/Housing, Noryl™ internals, SS inlet/discharge castings
- > Motor — 3-phase, TEFC, 460 VAC



Operating Parameters

- > Operating Pressure: 200-300 psig (14-20 bar)
- > Maximum Recovery — 75%
- > Nominal Rejection — 95–98%
- > Operating Temperature — 55–85 °F (13–29 °C)
- > Minimum Inlet Pressure — 30 psig (2 bar)
- > Design Temperature — 77 °F (25 °C)

Materials of Construction

- > Frame — Epoxy coated carbon steel
- > Membrane Elements: — Desal® AG8040F-400
- > Membrane Housing — Stainless Steel
- > Inlet Plumbing — Sch. 80 PVC
- > High Pressure Pipe — Stainless Steel
- > Control Enclosure — NEMA 12
- > Motor Starters — NEMA 4

E8 Specifications - 60 Hz

Model		E8-57K	E8-86K	E8-108K	E8-144K
Part Number	ECN	1202846	1202850	1202833	1202835
	DLX	1202284	1202286	1202287	1202288
Recovery Range		66–75%	66–75%	66–75%	66–75%
Permeate Rate	gpm	40	60	75	100
	(m ³ /h)	(9)	(14)	(17)	(23)
Concentrate Rate	gpm	21–13	30–20	39–25	52–33
	(m ³ /h)	(5–3)	(7–5)	(9–6)	(12–8)
Pump and Motor					
RO Pump		SS8510KA	SS8512KB	SS12508KC	SS12512KE
RO Motor	HP (KW)	15 (11.2)	20 (15)	25 (18.7)	40 (29.8)
CIP Pump	(DLX Only)	SS5504G	SS5504G	SS8504G	SS8504G
CIP Motor	HP (KW)	5 (3.7)	5 (3.7)	7.5 (5.6)	7.5 (5.6)
Membrane Elements and Filters					
Number of Elements		8	12	15	20
Array		1-1-1	2-1-1	3-2	3-2
Number of Pre-filters		5	5	5	10
Piping					
Inlet	inch (cm)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)	3.0 (7.6)
Permeate	inch (cm)	1.5 (3.8)	2.0 (5.1)	2.0 (5.1)	2.0 (5.1)
Concentrate	inch (cm)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)
Approximate Overall Dimensions					
Height	inch (cm)	72 (183)	72 (183)	72 (183)	72 (183)
Width	inch (cm)	139 (353)	139 (353)	139 (353)	179 (455)
Depth	ECN inch (cm)	40 (102)	40 (102)	40 (102)	40 (102)
	DLX inch (cm)	81 (206)	81 (206)	81 (206)	91 (231)
Approximate Shipping Weight					
	ECN lbs	2600	3100	3400	3500
	(kg)	(1200)	(1400)	(1500)	(1600)
	DLX lbs	3000	3600	3800	4000
	(kg)	(1400)	(1600)	(1700)	(1800)

