

E8 Series 60 Hz

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

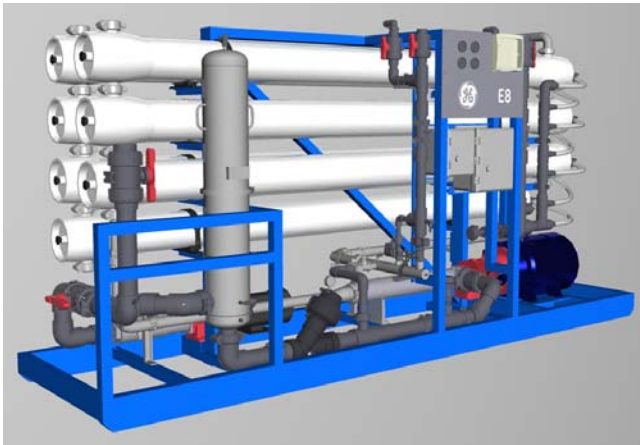


Figure 1: E8 Series 60 Hz

When you mention reverse osmosis (RO), GE Water & Process Technologies is the first name to come to mind. Our E-series RO machines (Figure 1) are designed for durable operation, high quality product water production, easy installation and straightforward control.

General Properties

Typical Applications

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

Standard Economy Features

- Energy saving 400 ft² (37.2 m²) membrane elements
- SS high-pressure piping
- 1-micron pre-filter and SS housing
- Automatic inlet shut-off valve

- Accutrak RO microprocessor controller
 - Permeate and concentrate paddlewheel flow sensors
 - Permeate conductivity sensor
 - Permeate tank level monitoring
 - SD card for collection of operating data
 - ALARMS: Low inlet pressure, high concentrate pressure, high temperature, high permeate conductivity, motor fault, and fill-time exceeded
 - Remote machine on/off capability
- Feed water flush on shut down
- Panel-mounted pre-filter, post-filter, primary, and final pressure gauges

Deluxe (DLX) Features – in addition to ECN features

- Inlet pH sensor
- Chemical dosing pump for antiscalant dosing or pH adjustment
- Clean-In-Place pump plumbed, wired and mounted; remote tank
- ALARMS: Same as above plus high/low inlet pH, high permeate pressure

Table 1: Operating Parameters

Operating Pressure	200-250 psig (13.8-17.2 bar)
Maximum Recovery	75%
Nominal Rejection	95-98%
Operating Temperature	55-85 °F (13-30 °C)
Minimum Inlet Pressure	30 psig (2 bar)
Design Temperature	77 °F (25 °C)



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Table 2: Materials of Construction

Frame	Painted Carbon Steel
Membrane Elements	Desal AG8040F-400
Membrane Housing	FRP
Low Pressure Pipe	Schedule 80 PVC
High Pressure Pipe	Stainless Steel
Motor Starters	NEMA 4

Table 3: Pump and Motor

Pump Manufacturer	Tonkaflo
Pump Type	Multi-stage, centrifugal
Materials	SS shell/housing, Noryl* internals
Castings	SS inlet/discharge
Motor	3-phase, TEFC, 460 VAC

Table 4: E8 Specifications - 60 Hz

Model	E8-57K	E8-86K	E8-108K	E8-144K
ECN	1202846	1202850	1202833	1202835
DLX	1202284	1202286	1202287	1202288
Flow Specifications				
Recovery Range:	66-75%	66-75%	66-75%	66-75%
Permeate Rate: gpm (m ³ /h)	40 (9)	60 (14)	75 (17)	100 (23)
Concentrate Rate: gpm (m ³ /h)	21-13 (5-3)	30-20 (7-5)	39-25 (9-6)	52-33 (12-8)
Pump and Motor				
RO Pump Model	SS8510KA	SS8512KB	SS12508KC	SS24006KE
RO Motor: HP (KW)	15 (11.2)	20 (15)	25 (18.7)	40 (29.8)
CIP Pump Model: (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				
Membrane Quantity	8	12	15	21
Array	1-1-1	2-1-1	3-2	3-2-2
Pre-Filter Quantity	7, RO.Zs 01-40-XK	7, RO.Zs 01-40-XK	7, RO.Zs 01-40-XK	7, RO.Zs 01-40-XK
Connections				
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)
Dimensions & Weights				
Height: inch (cm)	76(193)	76(193)	76(193)	76(193)
Width: inch (cm)	153(388)	153(388)	153(388)	153(388)
Depth: inch (cm) ECN	42(107)	42(107)	42(107)	42(107)
Depth: inch (cm) DLX	91(231)	91(231)	91(231)	103(262)
Shipping Weight Estimate: lb (kg)	ECN	2600(1200)	3000(1360)	3400(1500)
Shipping Weight Estimate: lb (kg)	DLX	2800(1300)	3300(1500)	3700(1700)
Shipping Weight Estimate: lb (kg)				4200(1900)

