

# 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), SUEZ 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 ft<sup>2</sup> (37.2 m<sup>2</sup>) membrane elements
- SS high-pressure piping
- 1-micron pre-filter and SS housing
- Automatic inlet shut-off valve
- Burkert 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 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	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	
<b>flow specifications</b>					
Recovery Range:	66-75%	66-75%	66-75%	66-75%	
Permeate Rate: gpm (m <sup>3</sup> /h)	40 (9)	60 (14)	75 (17)	100 (23)	
Concentrate Rate: gpm (m <sup>3</sup> /h)	21-13 (5-3)	30-20 (7-5)	39-25 (9-6)	52-33 (12-8)	
<b>pump and motor</b>					
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)	
<b>membrane elements and filters</b>					
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	
<b>connections</b>					
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)	
<b>dimensions &amp; weights</b>					
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)	3800 (1750)
Shipping Weight Estimate: lb (kg)	DLX	2800 (1300)	3300 (1500)	3700 (1700)	4200 (1900)

