

E4H Series 60 Hz

Reverse Osmosis Machine 15,200 to 43,200 gallons per day



Figure 1: E4H 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

- 5-micron pre-filter and housing, 20 Inch (50.80 cm)
- Automatic inlet shutoff valve
- Motor thermal protection
- Pre/Post-filter and primary/final pressure gauges

- Lakewood Instruments* 2450 controller
 - Digital permeate and concentrate flow meters
 - Digital conductivity meter
 - Modem monitoring
- ALARMS: Low inlet pressure, high amp draw, high permeate conductivity
- Autoflush system
- Remote machine on/off capability

Deluxe (DLX) Features – In addition to ECN Features

- Upgraded PLC control package
- Digital pH probe system
- Chemical dosing pump for pH adjustment
- Clean in Place (CIP) system, 5HP (3.7 KW)
- ALARMS: High-low pH

Table 1: Operating Parameters

Operating Pressure	220 psig (15 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 AG4040
Membrane Housing	Stainless Steel
Low Pressure Pipe	Schedule 80 PVC
High Pressure Pipe	Stainless Steel
Control Enclosure	NEMA 12
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: E4H Specifications - 60 Hz

Model	E4H-16K	E4H-21K	E4H-27K	E4H-38K	E4H-43K	
ECN	1163776	1163782	1163788	1163794	1163797	
DLX	1200055	1200061	1200067	1200073	1200076	
Flow Specifications						
Recovery Range:	75%	75%	75%	75%	75%	
Permeate Rate: gpm (m ³ /h)	11.2 (2.56)	15 (3.4)	18.8 (4.3)	26.2 (5.9)	30 (6.8)	
Concentrate Rate: gpm (m ³ /h)	3.4 (0.9)	5.0 (1.1)	6.3 (1.4)	8.8 (2.0)	10.0 (2.3)	
Pump and Motor						
RO Pump Model	SS2823G	SS2823G	SS2828D	SS5512KA	SS5512KA	
RO Motor: HP (KW)	7.5 (5.6)	7.5 (5.6)	10 (7.4)	15 (11.2)	15 (11.2)	
CIP Pump Model: (DLX only)	SS2805AZ	SS2805AZ	SS2805AZ	SS5503G	SS5503G	
CIP Motor: HP (KW)	2 (1.5)	2 (1.5)	2 (1.5)	5 (3.7)	5 (3.7)	
Membrane Elements and Filters						
Membrane Quantity	9	12	15	21	24	
Array	2-1	2-2	3-2	4-3	5-3	
Pre-Filter Quantity	2	2	2	2	2	
Connections						
Inlet: inch (cm)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	1.5 (3.8)	
Permeate: inch (cm)	1 (2.5)	1 (2.5)	1 (2.5)	1 (2.5)	1 (2.5)	
Concentrate: inch (cm)	1 (2.5)	1 (2.5)	1 (2.5)	1 (2.5)	1 (2.5)	
Dimensions & Weights						
Height: inch (cm)	61 (154)	61 (154)	61 (154)	61 (154)	61 (154)	
Width: inch (cm)	132 (335)	132 (335)	132 (335)	132 (335)	132 (335)	
Depth: inch (cm)	34 (86)	34 (86)	34 (86)	34 (86)	34 (86)	
Shipping Weight Estimate: lb (kg)	ECN	700 (300)	1300 (600)	1500 (700)	1700 (800)	2000 (900)
Shipping Weight Estimate: lb (kg)	DLX	1200 (500)	1800 (800)	2000 (900)	2200 (1000)	2500 (1100)

NOTE: Models shown are 460 VAC. Also available in 208 and 230 VAC. Contact factory for more information.