



# E4 Series 60 Hz

Reverse Osmosis Machine 2,200 to 13,200 gallons per day



Figure 1: E4 Series

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
- Rinse water
- Food ingredient water

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

### Standard Economy Features (ECN)

- 1-micron pre-filter
- Automatic inlet shut-off valve
- Permeate and Concentrate flow meters
- Remote machine on/off capability
- Thermal Motor Protection
- Pre-filter, post-filter, primary, and final pressure gauges
- Flow control center including concentrate and recycle valves

### Deluxe (DLX) Features – in addition to ECN features

- Autoflush system
- Low inlet pressure switch
- Digital conductivity meter with programmable relay
- Alarms: Low Inlet Pressure, Motor Starter overload

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 AG4040T1305
Membrane Housing	Stainless Steel
Inlet Plumbing	Schedule 80 PVC
High Pressure Plumbing	Reinforced rubber hose
Permeate/Concentrate Tubing	Polyethylene, NSF approved
Control Enclosure	NEMA 1
Motor Starters	NEMA 4X
Cartridge Filter	RO,Save, 1 micron, 20-inch

**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, 208-230/460 VAC

**Table 4: E4 Specifications - 60 Hz**

Model	E4-2200	E4-4400	E4-6600	E4-8800	E4-11000	E4-13200
ECN	1234779	1234813	1234817	1234821	1234825	1234829
DLX	1234780	1234814	1234818	1234822	1234826	1234830
Flow Specifications						
Recovery Range:	50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate: gpm (m <sup>3</sup> /h)	1.5 (0.3)	3 (0.7)	4.5 (1.0)	6 (1.4)	7.5 (1.7)	9 (2.1)
Concentrate Rate: gpm (m <sup>3</sup> /h)	1.5-0.5 (0.3-0.1)	3.0-1.0 (0.7-0.2)	4.5-1.5 (1-0.3)	6.0-2.0 (1.4-0.5)	7.5-2.5 (1.7-0.6)	9.0-3.0 (2.1-0.7)
Pump and Motor						
Pump Model	SS1816X	SS1816X	SS1816X	SS1816X	SS1823X	SS1823X
Motor: HP (KW)	3 (2.2)	3 (2.2)	3 (2.2)	3 (2.2)	5 (3.7)	5 (3.7)
Membrane Elements						
Quantity	1	2	3	4	5	6
Array	1	1-1	1-1-1	1-1-1-1	2-1-1-1	2-2-1-1
Connections						
Inlet: inch (cm)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
Permeate: inch (cm)	0.5 (1.3)	0.5 (1.3)	0.5 (1.3)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
Concentrate: inch (cm)	0.5 (1.3)	0.5 (1.3)	0.5 (1.3)	0.75 (1.9)	0.75 (1.9)	0.75 (1.9)
Dimensions & Weights						
Height: inch (cm)	63 (160)	65 (165)	65 (165)	65 (165)	65 (165)	65 (165)
Width: inch (cm)	27 (68)	27 (68)	27 (68)	27 (68)	27 (68)	27 (68)
Depth: inch (cm)	23 (58)	23 (58)	23 (58)	28 (71)	28 (71)	28 (71)
Shipping Weight Estimate: lb (kg)	170 (77)	185 (83)	215 (98)	235 (107)	325 (147)	345 (156)

From Toilet to Tap, Filtronics has the solution. Call us today or email your water quality information to us at [info@filtronics.com](mailto:info@filtronics.com).

