

EZ4 Kit, 50 Hz

Reverse Osmosis Machine 0.3 to 2.0 cubic meters per hour



Figure 1: EZ-4 Kit

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 straight-forward control.

General Properties

Typical Applications (but not limited to)

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

Standard Economy Features

- 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
- Alarms: Low Inlet Pressure, Motor Starter overload

Pump and Motor

- Pump¹
 - Multi-stage, centrifugal pump
 - SS Shell/Housing
 - Thermoplastic internals
 - SS inlet/discharge castings

¹Tonkaflo* pumps used on models 5400-10,800

- Motor: 1-phase, TEFC, 110.220VAC



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Table 1: Operating Parameters

Operating Pressure	6.9-7.6 bar (100-110 psig)
Maximum Recovery	75%
Nominal Rejection	95-98%
Operating Temperature	13°C-30°C
Minimum Inlet Pressure	2 bar
Design Temperature	25°C

Table 2: Materials of Construction

Frame	Painted carbon steel
Membrane Elements	Desal AK4040TM
Membrane Housing	Stainless Steel
Low Pressure Plumbing	Sch. 80 PVC, Nylon Hose
High Pressure Plumbing	Reinforced Rubber
Control Enclosure	NEMA 1
Motor Starters	NEMA 4X

Table 3: EZ4 Specifications – 50 Hz

Model		E4-2200	E4-4400	E4-6600	E4-8800	E4-11000	E4-13200
Part Number	ECN	1230879	1230883	1230887	1230891	1230895	1230899
	DLX	1230880	1230884	1230888	1230892	1230896	1230900
Recovery Range		50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate	gpm	1.5	3.0	4.5	6.0	7.5	9.0
	(m ³ /hr)	(0.3)	(0.7)	(1.0)	(1.4)	(1.7)	(2.0)
Concentrate Rate	gpm	1.5-0.5	3.0-1.0	4.5-1.5	6.0-2.0	7.5-2.5	9.0-3.0
	(m ³ /hr)	(0.3-0.1)	(0.7-0.2)	(1.0-0.3)	(1.4-0.5)	(1.7-0.6)	(2.0-0.7)
Pump and Motor							
RO Motor		SS1816X	SS1816X	SS1816X	SS1816X	SS2812G	SS2812G
	HP (KW)	2 (1.5)	2 (1.5)	2 (1.5)	2 (1.5)	3 (2.2)	3 (2.2)
Membrane Elements							
Number of elements		1	2	3	4	5	6
Array		1	1-1	2-1	1-1-1-1	2-1-1-1	2-2-1-1
Piping							
Inlet	inch (cm)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)
Permeate	inch (cm)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)
Concentrate	inch (cm)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)	.75 (1.9)
Approximate Overall Dimensions							
Height	inch (cm)	50 (127)	50 (127)	55 (139)	55 (139)	60 (152)	60 (152)
Width	inch (cm)	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)
Depth	inch (cm)	20 (51)	20 (51)	20 (51)	26 (66)	26 (66)	26 (66)
Approximate Shipping Weight							
	lbs	170	185	215	235	325	345
	(kg)	(77)	(83)	(98)	(107)	(147)	(156)

