

# E2 Series 50 Hz

Reverse Osmosis Machine 0.06-0.33 cubic meters per hour



Figure 1: E2 Series

## Description and Use

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
- Spot free rinse water
- Ion exchange pre-treatment
- R & D lab use

### Standard Economy Features

- 5-micron pre-filter
- Automatic inlet shut-off valve
- Remote machine on/off capability
- Operating pressure gauge
- Flow control center including concentrate and recycle valves

### Deluxe (DLX) Features – In addition to ECN Features

- Low inlet pressure switch
- Conductivity meter
- Stainless steel pump
- Permeate and concentrate flow meters

Table 1: Operating Parameters

Operating Pressure	14-15 bar
Maximum Recovery	50%
Nominal Rejection	95-98%
Operating Temperature	13-30 °C
Minimum Inlet Pressure	2 bar
Design Temperature	25 °C



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**Table 2: Materials of Construction**

Frame	Painted Carbon Steel
Membrane Elements	Desal AG2521TF or AG2540TF
Membrane Housing	Stainless Steel
Tubing	Polyethylene

**Table 3: Pump and Motor**

Pump Type	Rotary vane
Motor	1-phase, ODP, 220 VAC

**Table 4: E2 Specifications - 50 Hz**

Model	E2-0375	E2-0620	E2-1125	E2-1400	E2-2100
ECN	1226253	1226256	1226263	1226266	1226271
DLX	1226254	1226257	1226264	1226267	1226272
CE DLX	1226255	1226258	1226256	1226268	1226273
Flow Specifications					
Recovery Range:	33-50%	33-50%	33-50%	33-50%	33-50%
Permeate Rate: m <sup>3</sup> /h (gpm)	0.07 (0.3)	0.11 (0.5)	0.20 (0.9)	0.27 (1.2)	0.40 (1.8)
Concentrate Rate: m <sup>3</sup> /h (gpm)	0.07-0.04 (0.3-0.2)	0.11-0.07 (0.5-0.3)	0.2-0.13 (0.9-0.6)	0.27-0.18 (1.2-0.8)	0.40-0.27 (1.8-1.2)
Pump and Motor					
Pump	Procon Series 2 or 3			Procon Series 4 or 5	
Motor: KW (HP)	0.37 (0.5)	0.37 (0.5)	0.56 (0.75)	0.56 (0.75)	0.56 (0.75)
Membrane Elements					
Quantity	1	2	3	2	3
Array	1	1-1	1-1-1	1-1	1-1-1
Element Model	AG2521TF	AG2521TF	AG2521TF	AG2540TF	AG2540TF
Connections					
Inlet, Permeate, & Concentrate: cm (inch)	0.95 (0.38)	0.95 (0.38)	0.95 (0.38)	0.95 (0.38)	0.95 (0.38)
Dimensions & Weights					
Height: cm (inch)	76 (30)	76 (30)	76 (30)	130 (51)	130 (51)
Width: cm (inch)	46 (18)	46 (18)	46 (18)	46 (18)	46 (18)
Depth: cm (inch)	38 (15)	38 (15)	38 (15)	38 (15)	38 (15)
Shipping Weight Estimate: kg (lb)	20 (50)	25 (55)	30 (60)	35 (75)	40 (85)

**Note:** CE Marked units are available in DLX configuration only