

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

### standard economy features (ECN)

- 5-micron pre-filter
- Automatic inlet shut-off valve
- Remote machine on/off capability
- Operating pressure gauge
- Brass pump
- 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 AG2521TM or AG2540TM
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
<b>flow specifications</b>					
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)	0.18 (0.78)	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)	0.18-0.12 (0.78-0.5)	0.27-0.18 (1.2-0.8)	0.40-0.27 (1.8-1.2)
<b>pump and motor</b>					
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)
<b>membrane elements</b>					
Quantity	1	2	3	2	3
Array	1	1-1	1-1-1	1-1	1-1-1
Element Model	AG2521TM	AG2521TM	AG2521TM	AG2540TM	AG2540TM
<b>connections</b>					
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)
<b>dimensions &amp; weights</b>					
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)