

# E4 series 50 Hz

reverse osmosis machine 0.3 to 2.1 cubic meters per hour



**figure 1: E4 Series – shown with optional stainless-steel membrane element housings**

When you mention reverse osmosis (RO), SUEZ is the first name to come to mind. Our E-series RO machines (figure 1) for are designed 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**

<b>Operating Pressure</b>	15 bar (220 psig)
<b>Maximum Recovery</b>	75%
<b>Nominal Rejection</b>	95-98%
<b>Operating Temperature</b>	13-30 °C (55-85 °F)
<b>Minimum Inlet Pressure</b>	2 bar (30 psig)
<b>Design Temperature</b>	25 °C (77 °F)

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**Table 2: materials of construction**

<b>Frame</b>	Painted Carbon Steel
<b>Membrane Elements</b>	AG4040TM
<b>Membrane Housing</b>	FRP Standard, SS Optional
<b>Inlet Plumbing</b>	Schedule 80 PVC
<b>High Pressure Plumbing</b>	Reinforced rubber hose
<b>Permeate/Concentrate Tubing</b>	Polyethylene, NSF approved
<b>Control Enclosure</b>	NEMA 1
<b>Motor Starters</b>	NEMA 4X
<b>Cartridge Filter</b>	RO,Save, 1 micron, 20-inch

**Table 3: pump and motor**

<b>Pump Manufacturer</b>	Tonkaflo
<b>Pump Type</b>	Multi-stage, centrifugal
<b>Materials</b>	SS shell/housing, Noryl* internals
<b>Castings</b>	SS inlet/discharge
<b>Motor</b>	3-phase, TEFC, 190/380 VAC

**Table 4: E4 specifications - 50 Hz**

model	E4-2200	E4-4400	E4-6600	E4-8800	E4-11000	E4-13200
ECN	3161577	3161573	3161569	3161565	3161561	3161557
DLX	3161578	3161574	3161570	3161566	3161562	3161558
<b>flow specifications</b>						
Recovery Range:	50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate: m <sup>3</sup> /h (gpm)	0.3 (1.5)	0.7 (3.0)	1.0 (4.5)	1.4 (6)	1.7 (7.5)	2.1 (9)
Concentrate Rate: m <sup>3</sup> /h (gpm)	0.3-0.1 (1.5-0.5)	0.7-0.2 (3.0-1.0)	1-0.3 (4.5-1.5)	1.4-0.5 (6.0-2.0)	1.7-0.6 (7.5-2.5)	2.1-0.7 (9.0-3.0)
<b>pump and motor</b>						
Pump Model	SS1823XB	SS1823XB	SS1823XB	SS1823XB	SS1832XB	SS1832XB
Motor: KW (HP)	2.2 (3.0)	2.2 (3.0)	2.2 (3.0)	2.2 (3.0)	3.7 (5)	3.7 (5)
<b>membrane elements</b>						
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
<b>connections</b>						
Inlet: cm (inch)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)
Permeate: cm (inch)	1.3 (0.5)	1.3 (0.5)	1.3 (0.5)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)
Concentrate: cm (inch)	1.3 (0.5)	1.3 (0.5)	1.3 (0.5)	1.9 (0.75)	1.9 (0.75)	1.9 (0.75)
<b>dimensions &amp; weights</b>						
Height: cm (inch)	127 (50)	127 (50)	139 (55)	139 (55)	152 (60)	152 (60)
Width: cm (inch)	76 (30)	76 (30)	76 (30)	76 (30)	76 (30)	76 (30)
Depth: cm (inch)	51 (20)	51 (20)	51 (20)	66 (26)	66 (26)	66 (26)
Shipping Weight Estimate: kg (lb)	77 (170)	83 (185)	98 (215)	107 (235)	147 (325)	156 (345)

See product configurator for more details:

[Suezwatertechnologies.com](https://www.suezwatertechnologies.com) → resources → RO Configurator

