

E-Series L*

large Reverse Osmosis machine, 3 to 23 m³/hrs.

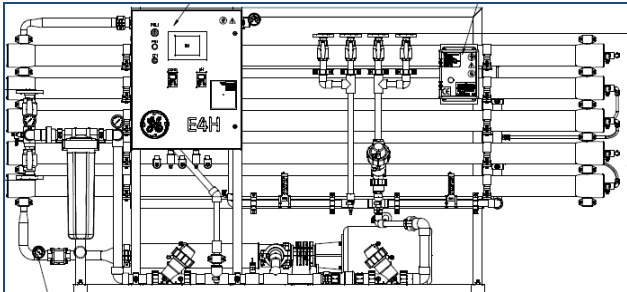


Figure 1: E4H-CE-L, 3 to 7 cubic meters per hour

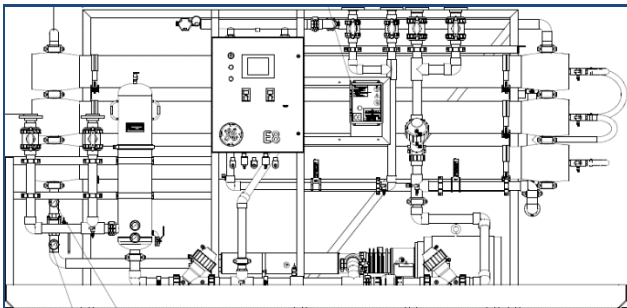


Figure 2: E8-CE-L, 9 to 23 cubic meters per hour

SUEZ's E-series RO machines (Figures 1 and 2) are designed for durable operation, high quality product water production, easy installation and straightforward control.

E-Series-CE-L machines are designed in 2 versions of operating temperatures: 25°C and 13°C (CW).

typical applications

- Boiler feed water
- Ion exchange pre-treatment
- Process ingredient water

features

- Low Energy High Rejection membrane elements
- Micron rated pre-filter
- Automatic inlet shut-off valve
- Permeate purge on shut down (can be disabled)
- Emergency stop and motor thermal protection

instrumentation and controls

- PLC based control system
- Two-source power connection for Motor starter and for Control Panel
- Permeate and concentrate flow meters
- Digital permeate conductivity meter
- Digital pH meter
- ALARMS: Low inlet pressure, motor starter overload, high temperature (38°C), high permeate conductivity, High permeate pressure, high pH
- Remote machine on/off capability
- Pre-filter, post-filter, pump discharge, primary, and final pressure gauges

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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Table 1: Operating Parameters

Operating Pressure	8-16 bars
Operating Pressure (CW)	15-22 bars
Maximum Recovery	75%
Nominal Rejection	98% - 99.5%
Typical operating Temperature	10-30°C
Minimum Inlet Pressure	2 bars
Design Temperature**	25°C
Design Temperature** (CW)	13°C
Design Salinity	2,000ppm NaCl

**Varying the operating temperature will affect machine productivity

Table 2: Materials of Construction

Frame	Painted Carbon Steel
Membrane Elements	AK90 or AK400
Membrane Housing	fiberglass reinforced plastic (FRP)
Low Pressure Pipe	Schedule 80 PVC
High Pressure Pipe	Schedule 10 316Stainless Steel
Control Enclosure	IEC 66
Motor Starters	IEC 66

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, 400 VAC, 50 Hz

Table 4 : E-Series-CE-L Specifications 50 Hz

Model	E4H-CE-3 L	E4H-CE-5 L	E4H-CE-7 L	E8-CE-9 L	E8-CE-14 L	E8-CE-23 L
	E4H-CE-3 L CW	E4H-CE-5 L CW	E4H-CE-7 L CW	E8-CE-9 L CW	E8-CE-14 L CW	E8-CE-23 L CW
Part Number	1232267 / 3061828	1232268 / 3061829	1232269 / 3061840	1232259 / 3061841	1232260 / 3061842	1232261 / 3061843
Flow Specifications						
Recovery Range:	50-75%	50-75%	50-75%	66-75%	66-75%	66-75%
Permeate Rate: m ³ /h	3	5	7	9	14	23
Concentrate Rate: m ³ /h	3-1	5-2	7-3	5-3	7-5	12-8
Membrane Elements and Filters						
Membrane Quantity (Array)	9 (2-1)	15 (3-2)	24 (5-3)	8 (1-1-1)	12 (2-1-1)	20 (3-2)
Membrane Type	AK-90	AK-90	AK-90	AK-400	AK-400	AK-400
Pre-Filter Quantity	2	2	2	7	7	7
Pre-Filter Model	LD05-20	LD05-20	LD05-20	RO.Zs 01-20- XK	RO.Zs 01-30- XK	RO.Zs 01-40- XK
Connections						
Inlet: mm	DN 40	DN 40	DN 40	DN 50	DN 50	DN 80
Permeate: mm	DN 25	DN 25	DN 25	DN 50	DN 50	DN 50
Concentrate: mm	DN 25	DN 25	DN 25	DN 40	DN 40	DN 40
Dimensions & Weights						
Height: mm (inch)	1702 (67)	1702 (67)	1702 (67)	1981 (78)	1981 (78)	1981 (78)
Width: mm (inch)	3378 (133)	3378 (133)	3378 (133)	4064 (160)	4064 (160)	5030 (198)
Depth: mm (inch)	914 (36)	914 (36)	914 (36)	1168 (46)	1168 (46)	1168 (46)
Shipping Weight Estimate: kg (lb)	550 (1200)	816 (1800)	907 (2000)	907 (2000)	1000 (2200)	1800 (4100)

Table 5: E-Series-CE-L Pump and motor specifications

Model	E4H-CE-3 L	E4H-CE-5 L	E4H-CE-7 L	E8-CE-9 L	E8-CE-14 L	E8-CE-23 L
RO Pump Model	SS2823G-50	SS5512D-50	SS8512D-50	SS8512D-50	SS12509KZC- 50	SS24007KZC- 50
RO Motor: KW (HP)	3.7 (5)	7.4 (10)	11.2 (15)	11.2 (15)	15 (20)	22.4 (30)
Model	E4H-CE-3 L CW	E4H-CE-5 L CW	E4H-CE-7 L CW	E8-CE-9 L CW	E8-CE-14 L CW	E8-CE-23 L CW
RO Pump Model	SS2834D-50	SS5516KZB-50	SS5518KZB-50	SS8520KZC-50	SS12512KZC- 50	SS24009KZC- 50
RO Motor: KW (HP)	5.6 (7.5)	11.2 (15)	11.2 (15)	15 (20)	18.6 (25)	29.8 (40)

optional features *(Consult price list for more information)*

- Clean In Place (CIP) System