



Our E-series RO machines are designed for durable operation, high quality product water production, easy installation and straightforward control.

Applications include (but not limited to):

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

■ Standard Economy Features

- 5-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

60 Hz

E4 Series Reverse Osmosis Machine 1,800 to 10,800 gallons per day

■ Operating Parameters

- Operating Pressure:.....200-220 psig
- Maximum Recovery:75%
- Nominal Rejection:95-98%
- Operating Temperature:.....55-85° F
- Minimum Inlet Pressure:.....30 psig
- Design Temperature:.....77°F

■ Materials of Construction

- Frame:.....Painted carbon steel
- Membrane Elements:Desal AG4040TF
- 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

■ Pump and Motor

- Pump
 - Multi-stage, centrifugal pump
 - SS Shell/Housing
 - Thermoplastic internals
 - SS inlet/discharge castings
 - Tonkaflo® pumps used on models 5400-10,800
- Motor
 - 1-phase, TEFC, 110/220 VAC (Models 1800-3600)
 - 3-phase, TEFC, 208-230/460 VAC (Models 5400-10,800)

■ Deluxe (DLX) Features - In addition to ECN Features

- Autoflush system
- Low inlet pressure switch
- Conductivity meter
- Alarms: Low Inlet Pressure, Motor Starter overload

E4 Specifications

60 Hz

Model		E4-1800	E4-3600	E4-5400	E4-7200	E4-9000	E4-10800
Part Number	ECN	1160862 [#]	1160866 [#]	1160921 [†]	1160927 [†]	1160933 [†]	1160939 [†]
	DLX	1160864 [#]	1160868 [#]	1160924 [†]	1160930 [†]	1160938 [†]	1160942 [†]
Recovery Range		50-75%	50-75%	50-75%	50-75%	50-75%	50-75%
Permeate Rate	gpm	1.3	2.5	3.8	5.0	6.3	7.5
	(m ³ /h)	(0.3)	(0.6)	(0.8)	(1.1)	(1.4)	(1.7)
Concentrate Rate	gpm	1.3-0.4	2.5-0.8	3.8-1.3	5.0-1.7	6.3-2.1	7.5-2.5
	(m ³ /h)	(0.3-0.1)	(0.6-0.2)	(0.8-0.3)	(1.1-0.4)	(1.4-0.5)	(1.7-0.6)
Pump and Motors							
RO Pumps		← Multi-stage centrifugal →		← Tonkaflo →			
	RO Motor	HP (KW)	1.5 (1.1)	1.5 (1.1)	3 (2.2)	3 (2.2)	5 (3.7)
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 Weight							
	lbs	170	185	215	235	325	345
	(kg)	(77)	(83)	(98)	(107)	(147)	(156)
<p>[#] Motor Voltage of models shown is 220VAC. Also available in 115VAC. Contact factory for more information. [†] Motor Voltage of models shown is 980VAC. Also available in 208, and 460VAC. Contact factory for more information.</p>							



Water Treatment Equipment & Components
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