



Reverse Osmosis Systems

The EWA Range of Reverse Osmosis Systems utilise filtration technology by means of High Pressure Pumping, High Pressure Brackish water membrane elements, Automatic operation via a Float Switch and 5 micron and 1 micron sediment filtration.

The heart of Reverse Osmosis (RO) system is a semi-permeable membrane that will allow small molecules to pass through, such as water (H₂O) and reject larger molecules such as Sodium Chloride (NaCl). The product water permeates through the membrane under pressure and the rejected salts are flushed away off the membrane surface.

Reverse Osmosis Systems Range

SPECIFICATIONS - EWA-RO-9000 - 18.6LPM @75% Recovery

Performance	at 25°C, 2000ppm TDS
Permeate Rate	1025LPH Nominal at a recommended operating flux of 23lmh 1337LPH Maximin at a maximum operating flux of 30lmh
Recycle Rate	50 to 75% Depending on Water Feed Quality & Water Temperature
Operating Pressure	900kPa – 1200kPa (130 – 170psi)
Inlet Water Pressure	280kPa minimum – 500kPa maximum
Typical Ion Rejection	95% to 98%
Membrane	(6) X 4.0" x 40" TFM
Membrane Housing	(6) X 4.0" X 40" 300psi Fiberglass Housing End Entry
Membrane Model	Hydranautics: CPA5-LD-4040
Array	2-2-1-1 (1 element per housing)
High Pressure Piping	Pressure PVC Pipe
Pump	Multi-Stage Centrifugal 304 SS Pump Model CDLF2-22 (316 SS Optional)
Motor	3.0KW, 380/415 VAC/50Hz Three Phase
Electrical Panel	Australian IP65 Basic Cabinet with Mains
Frame	Stainless Steel - Painted
Approximate weight	150kg
Dimensions	175cm H x 150cm W x 110cm D
Connections	1 1/2" PVC SW Inlet, 3/4" F.I. Permeate, 3/4" F.I. Concentrate
Pre-treatment Filter	PVC Housings 30" x 5 Round Cluster: Bolted Top Flange



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SPECIFICATIONS - EWA-RO-6000 - 12.4LPM @75% Recovery

Performance	at 25°C, 2000ppm TDS
Permeate Rate	684LPH Nominal at a recommended operating flux of 23lmh 891LPH Maximin at a maximum operating flux of 30lmh
Recycle Rate	50 to 75% Depending on Water Feed Quality & Water Temperature
Operating Pressure	900kPa – 1200KPa (130 – 170psi)
Inlet Water Pressure	280kPa minimum – 500kPa maximum
Typical Ion Rejection	95% to 98%
Membrane	(4) X 4.0" x 40" TFM
Membrane Housing	(4) X 4.0" X 40" 300psi Fiberglass Housing End Entry
Membrane Model	Hydranautics: CPA5-LD-4040
Array	2-1-1 (1 element per housing)
High Pressure Piping	Pressure PVC Pipe
Pump	Multi-Stage Centrifugal 304 SS Pump Model CDLF2-22 (316 SS Optional)
Motor	2.2KW, 380/415 VAC/50Hz Three Phase
Electrical Panel	Australian IP65 Basic Cabinet with Mains
Frame	Stainless Steel - Painted
Approximate weight	150kg
Dimensions	150cm H x 150cm W x 80cm D
Connections	1 1/2 " PVC SW Inlet, 3/4" F.I. Permeate, 3/4" F.I. Concentrate
Pre-treatment Filter	PVC Housings 20" x 5 Round Cluster: Bolted Top Flange

SPECIFICATIONS - EWA-RO-3000 - 6.6LPM @75% Recovery

Performance	at 25°C, 2000ppm TDS, 2000ppm TDS
Permeate Rate	342 – 496 LPM
Concentrate rate	255Lph, at 65% Recovery
Feed Rate	728Lph, at 65% Recovery
Operating Pressure	900 – 1200KPa
Typical Ion Rejection	95% to 98%
Membrane	(2)4.0" x 40" TFM
Membrane Housing	Fiberglass Housing end entry
Array	1-1 (1 element per housing)
High Pressure Piping	PVC pressure Pipe
Pump	Nan Fang, Multi-Stage Centrifugal Stainless Steel Pump
Motor	1.5KW, 240VAC/50Hz (Optional Three Phase)
Frame	Painted Carbon Steel
Approximate weight	100kg
Dimensions	200cm H x 60cm W x 60cm D
Connections	3/4" Inlet, 1/2" Permeate, 1/2" Concentrate

SPECIFICATIONS - EWA-RO-1500 - 3.3LPM @75% Recovery

Performance	at 25°C, 2000ppm TDS
Permeate Rate	237LPH at 35% Recovery
Recycle Rate	474LPH at 35% Recovery
Operating Pressure	700kPa – 1100kPa (100 – 160psi)
Typical Ion Rejection	95% to 98%
Membrane	(1) X 4.0" x 40" TFM
Membrane Housing	(1) 304SS, End Entry
Array	1 (1 element per housing)
High Pressure Piping	Pressure PVC Pipe
Pump	Nan Fang, Multi-Stage Centrifugal Stainless Steel Pump
Motor	1.5KW, 220 VAC/50Hz (Optional Three Phase)
Frame	Stainless Steel - Painted
Approximate weight	75kg
Dimensions	150cm H x 65cm W x 65cm D
Connections	3/4" Inlet, 1/2" Permeate, 1/2" Concentrate