

SERIES OMEGA-8A

INDUSTRIAL REVERSE OSMOSIS 18 - 108 GPM

Omega-8A Reverse Osmosis systems are the solution for the increasing demand of high quality water with applications in the food and beverage, pharmaceutical, agriculture, municipal, power, mining and microelectronic industries.

Key Features:

- Engineering design, prevents water hammer issues.
- High efficiency 8x40" Toray TMG20D membranes offer 99.7% of salt rejection, one of the highest in the market.
- Non-stop production. We installed extra valves at the inlet and outlet of every vessel to avoid maintenance shutdowns.
- Enveloping steel frame for extra protection.
- Permeate flowmeters per vessel. It eases flux regulation and fouling issues detection.
- Concentrate recirculation to achieve optimal operation.

Opciones:

- Stainless steel frame
- Stainless steel high-pressure piping.
- High production membranes with 440 ft of filtration area.
- High rejection Toray TM720D membranes with 99.8% of salt rejection.
- 316 Stainless steel multistage pump.
- Electronic flow and pressure meters.
- In-line water quality monitoring devices: Conductivity, TDS, pH, ORP and Resistivity.
- Controller for automatic operation with actuated feed valve, flushing, level switches, low pressure protection and chemical dosing.



- Control options: Industrial button station, Microprocessor PICROS5 and PLC.
- Private cover label.
- LCD 2x16 screen or Touchscreen display.
- Full pre-treatment.
- Antiscalant dosing.
- Membrane cleaning system (CIP).
- Storage tanks.
- · Feed pumps.







Big Industries

Nominal salt rejection

Energy savings

Standard Benefits:

- All of our models are designed under Toray design guidelines using Toray DS2 software.
- Enveloping industrial coated carbon steel frame.
- High efficiency 8x40" Toray TMG20D membranes with 99.7% of salt rejection.
- Protec 300 psi fiberglass reinforced plastic membrane vessels.
- 304 Stainless steel multistage pump with TEFC motor 220/440V-3ø.
- Polypropylene bag housing with 1 micron filter bag.
- Flowmeters in permeate, recirculation and concentrate lines.
- Piping in PVC Sch. 80 and Sch. 40.
- Sample valves in main lines and per vessel.
- Production regulation per product line.
- Systems are factory tested.

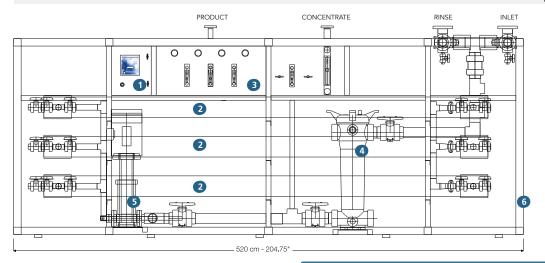
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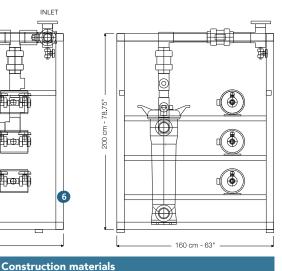


Product Capacity Specifications											
Membrane Quantity	Product Flow Rate			Vessel	Power	Filter	Connection (FNPT)			Dimensions	Shipping weight
	GPM	m³/day	Quantity	Arrange	(HP)	Housing	Feed	Product	Reject	cm	(kg)
3 *	13.5	75	1	1	5	3 - 4.5x20"	1.5"	1"	1"	520x160x200	995
4	18	100	1	1	5	3 - 4.5x20"	1.5"	1"	1 "	520x160x200	1,010
6*	27	150	2	2	7.5	7x16"	2"	2"	1.5"	520x160x200	1,516
8	36	200	2	2	7.5	7x16"	2"	2"	1.5"	520x160x200	1,341
9 *	40.5	220	3	3	10	7x32"	3"	2"	2"	520x160x200	1,685
12	54	300	3	3	10	7x32"	3"	2"	2"	520x160x200	2,095
16	72	400	4	2:2	15	7x32"	3"	2.5"	2"	520x250x200	2,291
20	90	500	5	3:2	15	7x32"	4"	3"	2"	520x250x200	2,637
24	108	600	6	3:3	20	7x32"	4"	3"	2.5"	520x250x200	3,047

Under a standard design with TMG20D membranes at 3 years of operation with a recovery of 60-70% using well water properly pretreated with 1,500 ppm of total dissolved solids at 25°C. * Integral upgrade with one membrane empty space per housing.

Automatic features							
Features	Plain	Standard	Plus	Basic PLC	Premium PLC		
Controller	Industrial button station	PICROS 3, Controller	PICROS 5, Controller	PLC	PLC		
Inputs / Outputs	0/1	3/3	5/5	5/6	14/6		
Actuated Valves	-	Yes (2)	Yes (3)	Yes (3)	Yes (3)		
Flushing	-	Yes	Yes	Yes	Yes		
Sound alarm	-	Yes	Yes	Yes	Yes		
Level Switch	-	Yes (2)	Yes (3)	Yes (Digital)	Yes (Digital)		
Low pressure switch	-	Yes	Yes	Yes	Yes		
Display	-	2x16	2x16	7" (Touch)	7" (Touch)		
Private cover label	-	Yes	Yes	Yes	Yes		
Electronic flow meter	-	-	_	Optional	Yes (3)		





0	PICROS Controller
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4 Pre-Filter

2 Membrane housing

5 High pressure pump

2 Membrane

6 Carbon steel frame

Frame Carbon steel

Membrane Housing FRP, Protec

Piping PVC schedule 80 / 40

Filter Housing Polypropylene

3 Instruments panel

Productos Polo, S.A. de C.V.

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