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SERIES OMEGA-4A

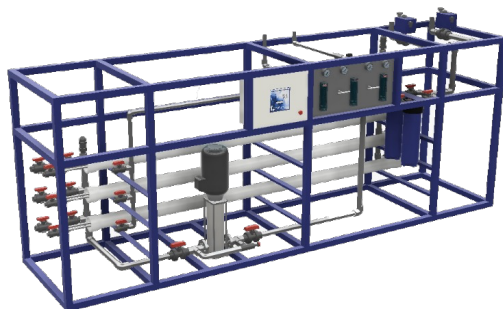
INDUSTRIAL REVERSE OSMOSIS 6.6 - 19.8 GPM

Omega-4A 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 4x40" Today TMG10D membranes offer 99.7% of salt rejection, amongst 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.
- Flowmeters in permeate, recirculation and concentrate lines.
- Concentrate recalculations to achieve optimal operation.



Available Options:

- Stainless steel frame
- Stainless steel high-pressure piping.
- High rejection Toray TM10D membranes with 99.8% of salt rejection.
- 316 Stainless steel multistage pump.
- Flow and pressure electronic sensor.
- 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.
- Personalized Private cover label.
- LCD 2x16 screen or Touchscreen display.
- Full pre-treatment.
- Antiscalant dosing.
- Clean in place (CIP).
- Storage tanks.
- Feed pumps.



Large 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 4x40" Toray TMG10D membranes with 99.7% of salt rejection.
- Portaros 300 psi fiberglass reinforced plastic membrane vessels.
- 304 Stainless steel multistage pump with TEFC motor 220/440V-3ø.
- 5 micron polypropylene bag pre-filter
- Flowmeters in permeate, recirculation and concentrate lines.
- Piping in PVC Sch. 40.
- Sample valves in main lines and per vessel.
- Systems are factory tested.

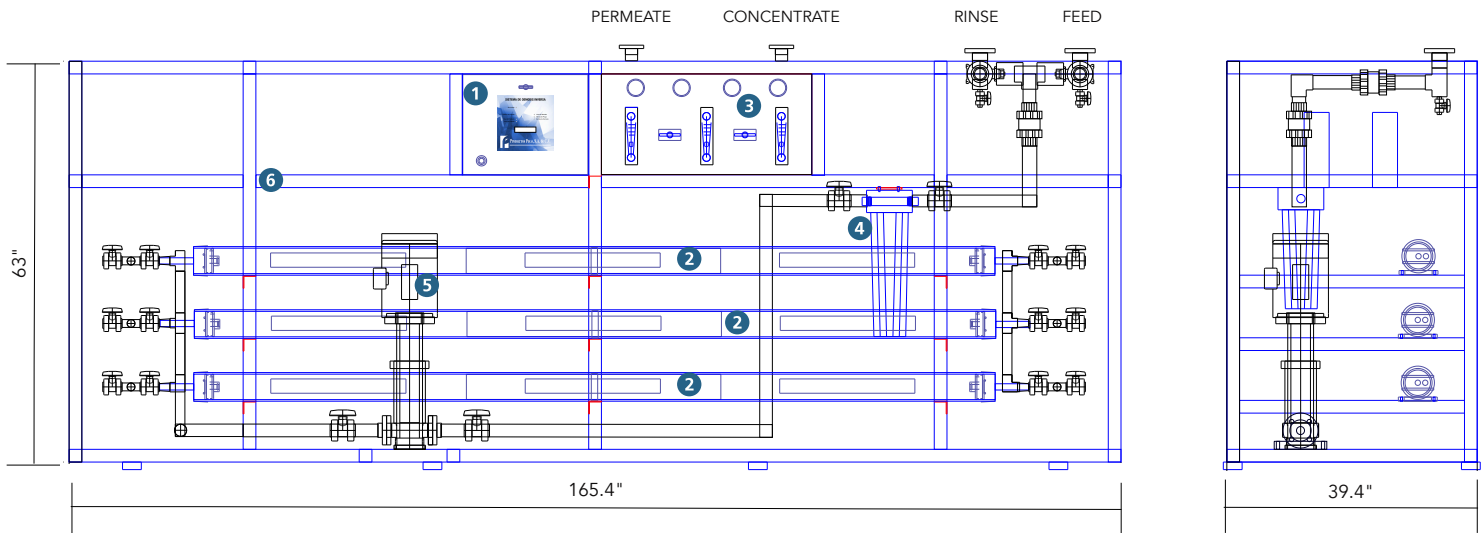
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Product Capacity Specifications												
Membranes Quantity	Permeate Flow Rate		Vessels Quantity	Vessels arrange	Power (HP)	Filter housing	Connection (FNPT)			Dimensions (cm) Length x Width x Height	Shipping weight (kg)	
	GPM	m ³ /day					Feed	Permeate	Concentrate			
6	6.6	36	2	2:0	4	1 - 4.5x20"	1"	1"	1"	420x100x160	549	
9	9.9	54	3	3:0	4	2 - 4.5x20"	1"	1"	1"	420x100x160	615	
12	13.2	72	4	2:2	5	2 - 4.5x20"	1.5"	1"	1"	420x100x160	686	
15	16.5	90	5	3:2	7.5	3 - 4.5x20"	1.5"	1"	1.25"	420x100x160	821	
18	19.8	108	6	3:3	7.5	3 - 4.5x20"	1.5"	1"	1.25"	420x100x160	904	

* Under a standard design with TMG20D membranes at the third operating year recovering 60-70% of properly pre-treated well water with 1,500 ppm of total dissolved solids at 25°C (77 °F).

Controller capacity			
Features	Manual	Standar	Plus
Controller	Industrial button station	Control PICROS 3	Control PICROS 5
Inputs / Outputs	0/1	3/3	5/5
Automatic valves	-	Yes (2)	Yes (3)
Flushing	-	Yes	Yes
Sound alarm	-	Yes	Yes
Level switch	-	Yes (2)	Yes (3)
Low-pressure switch	-	Yes	Yes
Display	-	2x16	2x16
Personalized cover label	-	Yes	Yes



- 1 Personalized cover label
- 1 PICROS controller
- 2 Membrane housing
- 2 Membrane
- 3 Instruments panel
- 4 Bag Pre-filter
- 5 High-pressure pump
- 6 Carbon steel frame

Materiales de construcción	
Frame	Carbon steel
Membrane housing	FRP, PORTAROS
Piping	PVC schedule 40
Bag Filter housing	Polyporpylene