

Alfa commercial reverse osmosis systems are the solution for the demand of potable and demineralized water with applications in the food and beverage, pharmaceutical, agriculture, manufacturing and microelectronics industries.

Key features

- Engineering design, prevents water hammer issues.
- High efficiency 4x40" Toray TMG10D membranes reject up to 99.7% of feedwater salt, one of the highest in the market.
- Easy handling. These systems include valves at the inlet and outlet of every housing making it ideal for periodical cleanings and sample test.
- Integrate recirculation to improve operation.



Upgrading options

- Stainless steel frame.
- Stainless steel housing.
- High rejection Toray TM710D membranes with 99.8% of salt rejection.
- Controller for automatic operation with actuated feed valve, flushing, level switches, low pressure protection and chemical dosing.
- Customizable automatic control cover.
- 2x16 LCD display.
- 316 SS Pump
- Electronic flow and pressure sensor
- In-line water quality monitoring devices: Conductivity, TDS, pH, ORP and Resistivity.
- Chemical dosing pump
- Different levels of automation: Basic, Manual with industrial button station, PICROS 3 and PICROS 5 controller. Scale inhibitor dispenser.



Dissolved salts removal



Big Industries



Water purifiers



Energy savings

Standard benefits

- All of our models are designed under Toray design guidelines using Toray DS2 software.
- Industrial coated carbon steel frame.
- 4" Ultra low pressure Toray TMG10D with 87 ft² of filtration area and 99.7% of salt rejection.
- Portaros 4" FRP membrane vessels.
- Multistage pump with ODP motor 120/220V-1ø
- Polypropylene 5 micron pre-filter cartridge.
- Flowmeters in permeate, recirculation and concentrate lines.
- Piping in PVC Sch. 40
- All of our systems are factory tested.

Powered by:



TORAY

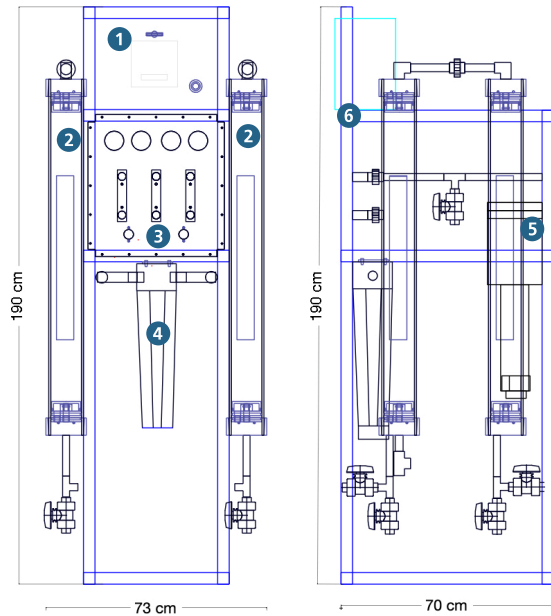
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Product Capacity Specifications										
Model	Product Flow Rate		Membrane Quantity	Vessel Staging	Pump Power (HP) 115/220v-1ø	Customer Connection Specifications (FNPT)			Dimensions (cm) Length x Width x Height	Shipping Weight (kg)
	GPD	m ³ /day				Feed	Product	Reject		
Alfa-01	1,700	6	1	1	1	1/2"	1/2"	1/2"	73x70x190	106
Alfa-02	3,400	12	2	1:1	1	1/2"	1/2"	1/2"	73x70x190	131
Alfa-03	5,100	18	3	1:1:1	1.5	3/4"	1/2"	1/2"	73x70x190	159
Alfa-04	6,800	24	4	1:1:1:1	1.5	3/4"	1/2"	1/2"	73x70x190	185

*Under standard design based on RO membranes. At 3 years operating at 65-70% recovery on a properly pre-treated feed water of 1,500 ppm of well water, 23°C and 125 psi.

Automatic features				
Model features	Plain	Standard	Automatic	Automatic plus
Controls	Manual	Industrial boton station	Microprocessor P.I.C.R.O.S. 3	Microprocessor P.I.C.R.O.S. 5
Inputs / Outputs	-	0/1	3/3	5/5
Automatic valves	-	1	2	3
Auto-flush	-	-	Yes	Yes
Sound alarm	-	-	Yes	Yes
Tank level	-	-	2	3
Low pressure switch	-	-	Yes	Yes
LCD screen	-	-	2x16	2x16
Private label cover	-	-	Yes	Yes

- 1 P.I.C.R.O.S. Controller
- 2 Membrane housing
- 2 Membrane
- 3 Instruments panel
- 4 Pre-Filter
- 5 High pressure pump
- 6 Carbon steel frame



Construction materials	
Frame	Industrial coated carbon steel frame (available colors red and blue).
Membrane elements	Toray TMG10D Ultralow pressure 4" membranes.
Membrane housing	Fiberglass, Reinforced plastic (FPR) PORTAROS
Pipe	PVC schedule 40
Cartridge filter	Polypropylene

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