



PRODUCTOS POLO, S.A. de C.V.

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S E R I E S  
B E T A 4 S

COMMERCIAL  
REVERSE OSMOSIS  
1,600 TO 8,000 GPD

**BETA-4S reverse osmosis series produces high quality water thanks to its design for low energy consumption. It has applications in the food and beverage, pharmaceutical, agriculture, and manufacturing industries. Its compact design makes it ideal for foreign shipments.**

## Main Features

- Enveloping frame in 304 stainless steel.
- Multistage pump and flow-control valves in stainless steel.
- Engineering design, prevents water hammer issues.
- High efficiency 4x40" Toray TMG10D membranes offer 99.7% of salt rejection, one of the highest in the market.
- Sample valves in main lines and per membrane housing for water quality monitoring.
- Concentrate recirculation to achieve optimal operation.
- Compact design: Length 110 cm x Height 170 cm x Width 40 cm



## Upgrading Options

- Controller for automatic operation with solenoid feed valve, flushing, level switches, low pressure protection and chemical dosing.
- Control options: Industrial button station & PICROS Microprocessor.
- Feed pumps.
- Electronic flow meters.
- In-line water quality monitoring devices: Conductivity, TDS, pH, ORP and Resistivity.
- Private label cover
- Piping in Sch. 80
- Storage tanks
- Stainless steel membrane housings



99.7% Dissolved salts rejection



Big industries



Energy savings

## Standard Benefits

- Enveloping 304 Stainless steel frame.
- High efficiency 4x40" Toray TMG10D membranes with 99.7% of salt rejection.
- 300 psi fiberglass reinforced membrane vessels.
- Stainless steel multistage pump with TEFC motor.
- Polypropylene pre-filter with 5 micron cartridge.
- Flowmeters in permeate, concentrate and recirculation lines.
- Piping in PVC Sch. 40
- Sample valves in main lines and per vessel.
- Systems are factory tested.
- All of our models are designed under Toray design guidelines and using Toray DS2 Software.

Powered by:

**TORAY**  
**HAYWARD PORTAROS**

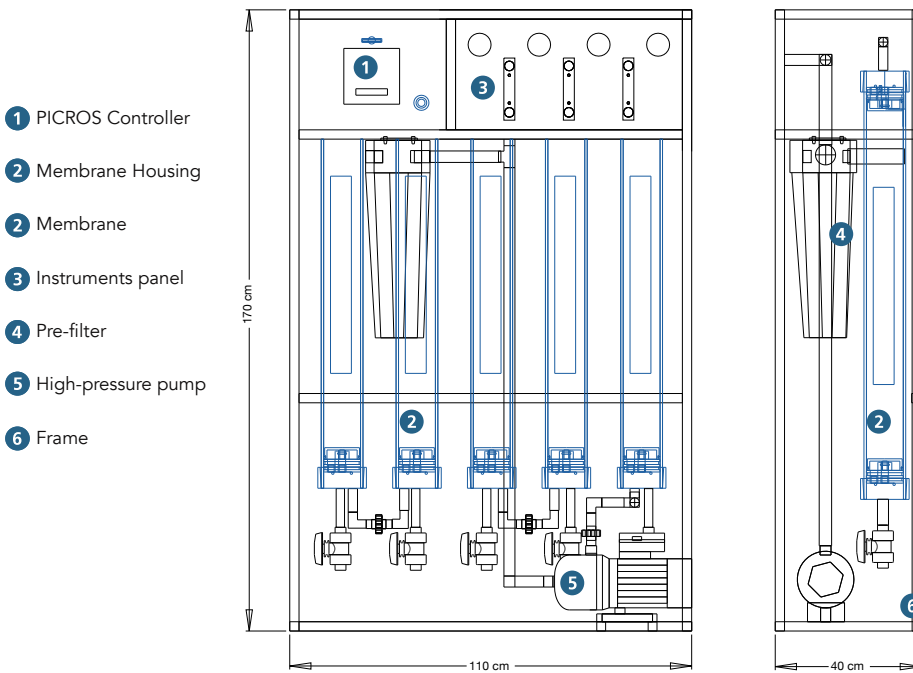
### Product Specifications

Model	Product Flow		Membrane Quantity	Arrange	Power (HP)	Pipe Connection (FNPT)			Dimensions cm Length x Width x Height	Shipping weight kgs
	GPD	m <sup>3</sup> /day				Feed	Product	Reject		
Beta-01	1,600	6	1	1	1.2	1/2"	1/2"	1/2"	110 x 40 x 170	108
Beta-02	3,200	12	2	1:1	1.2	3/4"	1/2"	1/2"	110 x 40 x 170	133
Beta-03	4,800	18	3	1:1:1	1.2	3/4"	1/2"	1/2"	110 x 40 x 170	159
Beta-04	6,400	24	4	1:1:1:1	1.2	3/4"	1/2"	1/2"	110 x 40 x 170	185
Beta-05	8,000	30	5	1:1:1:1:1	1.2	1"	3/4"	3/4"	110 x 40 x 170	210

Under a standard design with TMG10D membranes at 3 years of operation with a recovery of 60-65% using properly pretreated well water with 1,500 ppm of total dissolved solids at 25 °C and 30-50 psi in the feed.

### Automatic features

Model/Description	Plain	Standard	Automatic	Plus
Control	Manual	Button Station	PICROS 3, controller	PICROS 5, controller
Inputs / Outputs	-	Industrial Button Station	3/3	5/5
Solenoid valves	-	0/1	Yes (2)	Yes (3)
Flushing	-	-	Yes	Yes
Sound alarm	-	-	Yes	Yes
Level Switch	-	-	Yes	Yes
Low pressure switch	-	-	Yes (2)	Yes (3)
Display	-	-	2x16	2x16
Private cover label	-	-	Yes	Yes



### Construction materials

Frame	304 Stainless steel
Membrane housing	FRP, PORTAROS
Piping	PVC schedule 40
Filter Housing	Polypropylene