



### ROTEK RB 1500-6000 Reverse Osmosis Systems

- ★ Designed for Brackish Water Desalination
- ★ Adjustable Auto Permeate Flush Time
- ★ Stainless Steel 316 Multistage Pump
- ★ Capable for Feed TDS up to 10,000 ppm
- ★ High Flow Low-Energy Membranes
- ★ Low Maintenance
- ★ Compact Space Saving Design

ROTEK Reverse Osmosis Systems feature an excellent pre-treatment design with high quality components to offer high performance. ROTEK systems are designed for high recovery rates and minimum energy consumption. Experience greater savings with lower maintenance and operation costs when you install a ROTEK Reverse Osmosis System.



ROTEK compact light industrial reverse osmosis system is a durable piece of equipment which, with proper care and maintenance will last for many years. RB series systems are part of a family of reverse osmosis units designed for operation with brackish feedwaters having TDS values below 10,000ppm. Models are available with permeate outputs of between 250 and 1,000 litres/hr as shown in the specifications.

## Specifications

| Model                             | RB1500                  | RB3000                  | RB4500                  | RB6000                   |
|-----------------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Feed Water TDS                    | <10,000ppm              | <10,000ppm              | <10,000ppm              | <10,000ppm               |
| Recovery Rate*                    | 18-50%                  | 25-50%                  | 25-50%                  | 25-50%                   |
| Vessel Size                       | FRP4040 x 1             | FRP4040 x 2             | FRP4040 x 3             | FRP4040 x 4              |
| Permeate Flow Rate<br>(lpm@ppm)** | 4.1@8,000<br>3.1@10,000 | 8.3/7,000<br>5.7/10,000 | 12/6,000<br>7.6/10,000  | 16.6/5,000<br>9.2/10,000 |
| Feed Connection                   | 3/4" FNPT               | 3/4" FNPT               | 3/4" FNPT               | 3/4" FNPT                |
| Permeate Connection               | 1/2"                    | 1/2"                    | 1/2"                    | 1/2"                     |
| Concentrate Connection            | 1/2"                    | 1/2"                    | 1/2"                    | 1/2"                     |
| Flush Connection                  | 1/2"                    | 1/2"                    | 1/2"                    | 1/2"                     |
| Pump type & Motor HP              | SS316<br>Multistage 3HP | SS316<br>Multistage 3HP | SS316<br>Multistage 3HP | SS316<br>Multistage 3HP  |
| Gross Dimension (cm)              | 69X63X147               | 69X63X147               | 69X63X147               | 69X63X147                |
| Gross Weight (kg)                 | 45                      | 88                      | 94                      | 100                      |

\* Minimum recovery rate is calculated based on no concentrate recirculation, it is possible to increase the overall recovery rate by increasing the concentrate circulation flow.

\*\* Permeate flow rate can vary depending on the type of membrane, raw water quality, and recovery rate.