

# RO 2500

## Controls and Instrumentation

- Fully assembled panel with built-in PLC and HMI.
- Data-logging of incoming water temperature, inlet pressure, permeate pressure, trans-membrane pressure, permeate conductivity and permeate, concentrate and concentrate recovery flows allowing high level of performance monitoring and analysis.
- Downloading of trend data to USB memory stick or BUS to facilitate report writing and performance analysis.
- Clean-In-Place (CIP) preparation including integral automated control of remote CIP module.
- Automatic plant shut off with low inlet water pressure.



## Construction

- Flow monitoring on concentrate, concentrate recovery and permeate.
- Automatic divert to drain on poor permeate quality.
- Compact footprint with high flow rate capability.
- Fully skid mounted assembly with all interconnecting pipe work and wiring for fast and simple installation.
- Built with high quality components including Grundfos pump and stainless steel frame.
- Low energy membranes.

## Systems Operation

- Quality flush on start-up to ensure high quality of water to service and to minimise water volume associated with flushing.
- Adjustable timed flush during periods of low usage to maintain membrane quality.
- Integral antiscalent dosing facility, reducing the need for additional plumbing and controls on site.
- Clean-In-Place (CIP) preparation including integral automated control of remote CIP module.
- Automatic plant shut off with low inlet water pressure.

## Technical Specification



Due to plant often being located in seldom visited areas, direct SMS messaging can ensure that notification of an alarm condition occurs immediately. During normal working hours this allows quick response by the duty engineer, reducing possible down time.

If the alarm occurs outside normal working hours, the two way facility allows the engineer to remotely adjust operational parameters, potentially allowing the plant to remain operational until an engineer is able to visit the site.

## Technical Specification

| Technical Data                  | RO-2510       | RO-2520       | RO-2530       | RO-2540       |
|---------------------------------|---------------|---------------|---------------|---------------|
| Capacity, litres/hour*          | 3100          | 4300          | 5100          | 6200          |
| Water Utility, Maximum %        | 75            | 75            | 75            | 75            |
| Salt reduction, %               | >98           | >98           | >98           | >98           |
| Typical water quality, µS/cm*   | <30           | <30           | <30           | <30           |
| Power connection, V/Hz          | 3x400/50      | 3x400/50      | 3x400/50      | 3x400/50      |
| Installed power, kW             | 5.5           | 5.5           | 7.5           | 7.5           |
| Intake, Ø"                      | 1 ½           | 1 ½           | 1 ½           | 1 ½           |
| Outlet, Ø"                      | 1 ¼           | 1 ¼           | 1 ¼           | 1 ¼           |
| Drain, Ø"                       | 1             | 1             | 1             | 1             |
| Inlet connection height, mm     | 785           | 785           | 785           | 785           |
| Outlet connection height, mm    | 1510          | 1510          | 1510          | 1510          |
| Discharge connection height, mm | 1375          | 1375          | 1375          | 1375          |
| Maximum water temperature, °C   | 25            | 25            | 25            | 25            |
| Inlet pressure, min/max, bar    | 3/7           | 3/7           | 3/7           | 3/7           |
| Dimensions, W x D x H, mm       | 1300x780x1630 | 1300x780x1630 | 1300x780x1630 | 1300x780x1630 |

\*Depends on the feedwater quality. The stated data is nominal and based on a potable feed water supply with a maximum total dissolved solids level of 500 mg/l, a minimum temperature of 10°C and a 3 bar inlet pressure.



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