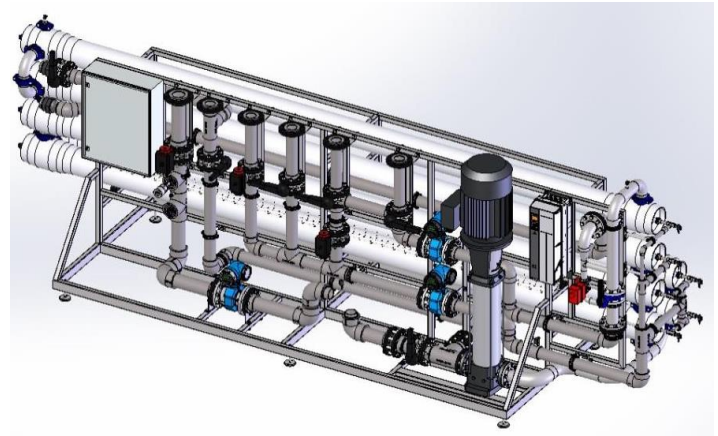


# RO 2900

## Features

- RobotFlow - is an automatic and self-regulating control which maintains optimum performance of membrane recovery
- Frequency-controlled HP pump ensures energy savings & stable operation
- Siemens PLC & large HMI graphic touch panel
- High quality instrumentation (Endress & Hauser option available)
- Auto-flush (time & start-up), ensuring improved water quality and improved membrane life
- High efficiency membranes and optimum array configuration for maximum Permeate output
- Concentrate Recovery option available
- Heated Clean-In-Place unit and Antiscalant dosing options also available



## Reliable and Energy Efficient

The 2900 series RO's supply high quality permeate for boilers, cooling towers, closed/open cooling water/ climate control systems and other process water requirements for industrial applications, where a low conductivity ( $< 20 \mu\text{S/cm}$ ) is required.

Components are selected with a focus on the latest technology, efficiency and quality. This ensures a reliable and efficient system.

Considering the system's high capacity, the design is compact, maintenance-friendly and provides easy access to components, as well as simple installation, even in confined spaces.

## Adaption to Individual Requirements

The system layout provides maximum flexibility with several additional options for those applications requiring minimal maintenance as well as flexible & reliable operation.

Options include a comprehensive operational data logging facility and enhanced instrumentation, allowing configuration of the system to a user's individual needs & requirements

## Intuitive and user-friendly

PLC control unit with LCD touch screen and graphic display provides easy viewing of important measurements and detailed status information for service and operations personnel

## Features and Options

### Features:

- High efficiency membranes and optimum array configuration for maximum Permeate output
- Frequency-controlled HP pump ensures energy savings & stable operation
- Automatic and self-regulating control ensures optimum Recovery
- Auto-flush (time & start-up), ensuring improved water quality and long membrane life
- PLC unit provides information via the LCD touch screen with graphic display
- Alarms for plant protection & historical alarm log for system diagnosis
- Robust system construction, mounted on a stainless steel skid
- Energy-efficient plant design

### Options:

- Concentrate recovery system – maximum water efficiency increases the utilisation of the raw water up to 80-85 %
- Heated Clean-In-Place unit - effective cleaning of the membranes
- Antiscalant dosing to prevent scaling of Reverse Osmosis membranes
- Remote control via web/GPRS & alarms via mail/SMS. Trend curves remotely accessible
- Alternative High pressure pump
- Alternative instrument package

## Technical Specification

	2930	2940	2950	2960	2970	2980	2990	2995
Capacity *, m <sup>3</sup> /h	30	40	50	60	70	80	90	100
Power consumption, kWh/m <sup>3</sup>	0.65 - 1	0.59 - 1	0.55 - 1	0.69 - 1	0.61 - 1	0.62 - 1	0.59 - 1	0.66 - 1
Motor Power consumption, kW	30	37	37	55	55	55	75	75
Recovery rate, %	75							
Salt reduction, %	>98							
Feed water pressure, min/max bar,	3/7							
Operation pressure, bar	14 - 15							
Design Temperature °C	10							
Inlet (flange), DN	100	100	100	100	150	150	150	150
Outlet (flange), DN	80	80	100	100	100	100	100	100
Drain (flange), DN	65							
Width, mm	5900	5900	6900	6900	6900	6900	6900	6900
Depth, mm	1300	1550	1500	1500	1500	1575	1575	1575
Height, mm	2100	2150	2150	2200	2550	2550	2775	2775
Weight (dry), approx.	980	980	1080	1190	1350	1550	1680	1800

\*\* For water quality of: 10°C, 3 bar, TDS ≤ 500 mg/l ± 15%, SDI ≤ 3.0, oxidants ≤ 0.05 mg/l.

\*\* Based on a water quality of TDS ≤ 500 mg/l, with softening as a pre-treatment or by using antiscalant.



**UK Office:**

Envirogen Water Technologies  
Unit 14a,  
Bromyard Road Trading Estate  
Bromyard Road Ledbury,  
Herefordshire, HR8 1NS  
Tel: +44 (0) 1531 636328  
E: info@envirogenwater.com  
www.envirogenwater.com



**Italian Office:**

Fluxa Filtri S.p.A  
Viale De GASPERI,88/B  
20017  
Mazzo di Rho  
Milano  
Tel: +39 (0)2 93959.1  
E: info@fluxafiltri.com  
www.fluxafiltri.com



**USA Office:**

Envirogen Technologies Inc  
PO Box 5419  
Kingwood, TX 7735-5419  
Tel: +1 877.312.8950  
E: info@envirogen.com  
www.envirogen.com



**DERWENT**  
WATER SYSTEMS

