

## Protegra OF 3000

### Reverse osmosis system



#### Pure water up to 3000 l/h

The Protegra OF 3000 is the largest and most powerful reverse osmosis system in our Protegra series, mounted on an aluminum frame (OF: open frame). With a product water capacity of 3000 l/h at 15°C, this system is particularly suitable for demanding industrial applications.

Three 8" high-performance membrane modules in a GRP pressure pipe ensure continuous pure water production, driven by a stainless-steel high-pressure pump.

Three flow measurement turbines determine the volume flows of the pure water and the concentrate. The values from the conductivity measuring points throughout the entire production process can be read at any time on the control panel of the integrated control system.

Optionally, a Modbus TCP gateway can be connected to enable continuous data communication to a building management center (BMS) or a computer.

This system is also available as a 4000 l/h version on request.

#### Benefits

- High-performance system
- Central water distribution system
- Continuous pure water production
- Frame design, accessible from all sides
- Connection to Modbus TCP gateway possible

#### Typical applications

- Demanding industrial applications
- General chemistry

## Specifications

|                               | Protegra OF 3000  |
|-------------------------------|-------------------|
| Flow rate (l/h)               | 3000              |
| Salt retention rate (%)       | > 98              |
| Recovery rate max. (%)        | 80                |
| Germ count reduction (%)      | > 99              |
| Operating pressure max. (bar) | 14                |
| Number of RO modules          | 3                 |
| Power supply (V/Hz)           | 3 x 400/50 - 60   |
| Power consumption (kW/h)      | 5.6               |
| Dimensions, H x W x D (mm)    | 1900 x 3860 x 960 |
| Weight (kg)                   | 345               |
| Catalog number                | W3T198160         |

## Consumables

| Catalog number | Description                |
|----------------|----------------------------|
| W2T526545      | Fine filter cartridge 5 µm |

## Accessories

| Catalog number | Description                                        |
|----------------|----------------------------------------------------|
| W3T428768      | Modbus TCP Gateway (LAB)                           |
| W3T262426      | Degassing unit from 120 l/h on up to max. 5000 l/h |
| W3T199867      | VM 300, Dual softener                              |

## Feed water requirements

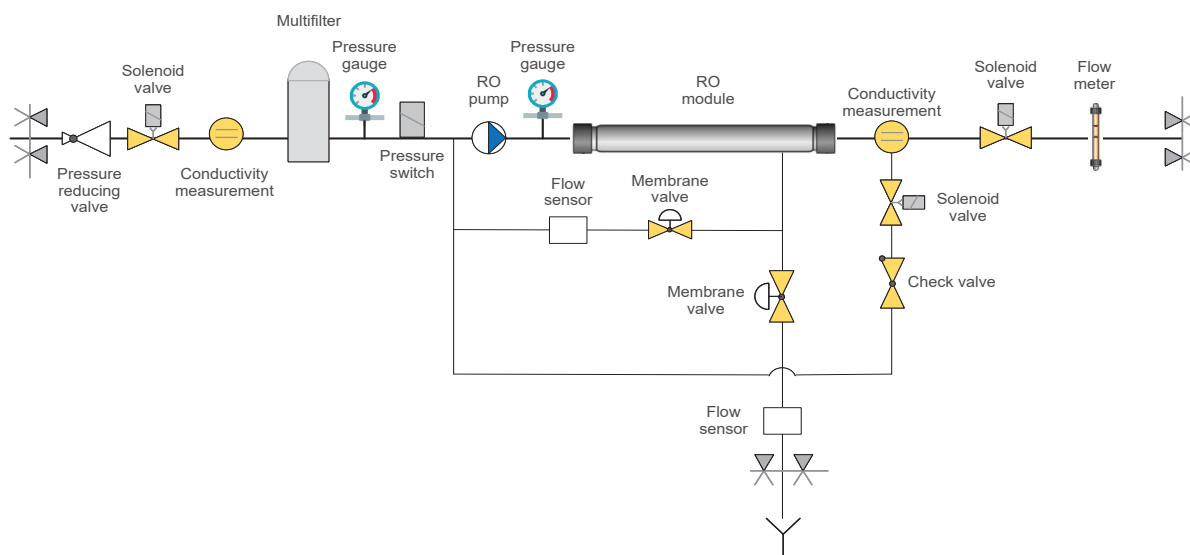
|                         |         |
|-------------------------|---------|
| Pressure (bar)          | 2.5 - 6 |
| Flow rate (m³/h)        | 5.00    |
| Conductivity (µS/cm)    | < 2000  |
| Free chlorine (mg/l)    | < 0.1   |
| CO <sub>2</sub> (mg/l)  | < 20    |
| Silt density index, SDI | < 3     |
| Langelier index         | < 0     |
| Silica (mg/l)           | < 15    |
| Iron (mg/l)             | < 0.1   |
| Manganese (mg/l)        | < 0.05  |
| pH value                | 3 - 9   |
| Temperature (°C)        | 5 - 35  |

## Testkits

| Catalog number | Description            |
|----------------|------------------------|
| W2T870161      | Testkit Carbon dioxide |
| W2T870160      | Testkit Silica         |

## Tank

| Catalog number | Description                  |
|----------------|------------------------------|
| W3T199834      | 3000 l, 2230 x 850 x 2200 mm |



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