

UniRo 4000 - 20000

Reverse osmosis



This Guldager UniRo series is aimed at large scale industry. At those who place high demands to the plant and to the water quality.

The reverse osmosis unit uses the latest membrane technology to remove up to 97 % of dissolved inorganics and over 99 % of total organisms, colloids and particles. Reverse Osmosis also provides excellent removal of microbial species.

The capacity is 4000 - 20000 l/h in the standard series. UniRo is available in various sizes and covers the need from the small laboratory to large desalination plants for sea water.

Guldager's UniRo standard series is available in single pass but Guldager also delivers multi pass Reverse Osmosis upon request.

Application

Autoclaves
Plants for drinking water
Evaporization
Gardening
Boiler water
Humidification
Washing plants

Breweries
District heating
Food industry
Hotels
Laboratories
Process plants



1. Pipes of stainless steel, easy to disassemble.

2. Glass blasted stainless steel frame with adjustable feet.

3. Simple and well-arranged design with stainless steel manometers.

UniRo type	4000	5500	8000	10000	12000	17000	20000
Capacity							
Permeate, l/h	4000	5500	8000	10000	12000	17000	20000
Recovery max, %	80	80	80	80	80	80	80
Salt rejection, %	98	98	98	98	98	98	98
Water quality, µS/cm	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Electricity							
Electricity connection, V/Hz	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/P50
Power, kW	4	7,5	7,5	7,5	7,5	7,5	15
Power consumption, kW/h	0,9	1	0,6	0,67	0,6	0,6	0,6
Connections							
Inlet	2"	2"	2"	2"	2"	2"	2"
Outlet	1"	1"	1"	5/4"	5/4"	5/4"	1,5"
Drain	1"	1"	1"	5/4"	5/4"	5/4"	1,5"
Dimensions							
Height, mm	1480	1480	1480	1480	1480	1515	1710
Width, mm	2600	2600	2610	3610	3640	3640	3610
Depth, mm	940	940	940	940	1300	1300	1300

Capacity indicated at 10 °C and TDS 500 ppm.

Output depending on actual water quality and temperature.

Standard equipment

- 8" spiral wound TFC membranes
- FRP membrane housing
- Glass blasted stainless steel frame
- Grundfos stainless multistage centrifugal pump
- Stainless pre filter, 5 micron
- PLC based control panel
- Antiscaling incl. Grundfos dosing pump
- Alarm at low pressure
- Stainless manometers
- Conductivity meter, permeate
- Permeate & concentrate flow meter

Accessories

- Conductivity meter, feed water
- CIP
- Feed water/permeate mixture
- Special designed units
- Level switch meter for permeate tank
- pH control of feed water
- Water meter
- Chemical dosing unit
- Filter media
- UV sterilizing
- Softening unit
- Iron filter

Guldager Service

Our service concept consists of standard and flexible solutions customized for specific needs.

- Surveillance, fast and skilled assistance.
- Advanced equipment and metering procedures.

Call us on +45 48 13 44 00.