

BO-RO6

Reverse Osmosis Unit

BO-RO6 by BOGA makes it possible for the first time to produce small amounts of purified water cheaply. Its design is made for fully automatic and especially hygienic operation.

Applications

Pressure
Air conditioning
Laboratory
Chemistry
Pharmaceutics
Medicine
Biology
Galvanisation
Cosmetics
Electronics

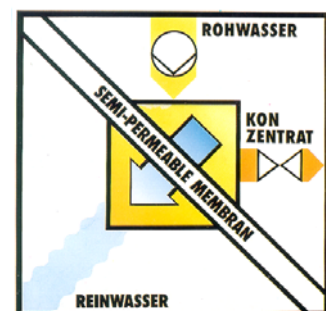


state-of-the-art technology - extremely economical

TECHNOLOGICAL DESCRIPTION

Natural water is never clean, but full of different substances and particles, especially solved salts. But many production processes, e.g. air humidification, require demineralised water.

This water quality is achieved by the reverse osmosis procedure. Simply said, reverse osmosis can be regarded as filtration. Water containing salt is pressed through a semi-pervious membrane which retains the salts. But also dirt and other particles, causative organisms, larger molecules and even ions can be retained by the membrane and returned as a concentrate to the sewage water.

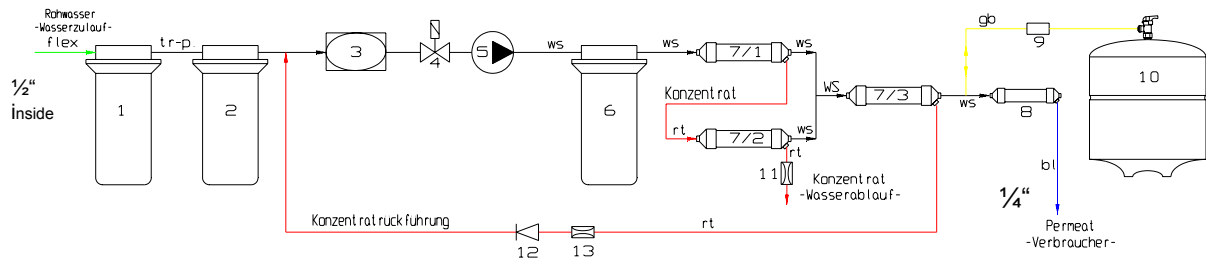


DEVICE DESCRIPTION

BO-RO6 produces purified water (permeat) of the highest quality without any chemical substances. It can be used for all applications requiring demineralised water, e.g. air conditioning, humidification, in optical and food industry, in the hotel/restaurant sector, in laboratories or in the graphic design industry.

BO-RO6 consists of pre-filtering, pressure increase system, the activated carbon filter, the 3 RO-membranes, the UV reactor, the permeat saving tank and the control elements.

DESIGN



- | | | |
|---------------------------------|--------------------|--|
| 1) pre-filter 20µm | 2) pre-filter 5 µm | 3) manometric switch |
| 4) magnetic valve 230V AC | 5) booster pump | 6) activated carbon/phosphate filter |
| 7) RO membranes (7/1, 7/2, 7/3) | 8) UV reactor | 9) manometric switch membrane storage tank |
| 10) membrane storage tank | 11) flow control | 12) backflow stop |
| 13) flow control | | |

TECHNICAL SPECIFICATIONS

Permeat output	l/h	6
Permeat quality	µS/cm	< 20
TDS max. untreated water	ppm	1000
TDS reduction	%	> 99
Temperature of untreated water	°C	2 – 38
Untreated water conditions	hardness	max. 10° dH
	iron	max. 0.05 ppm
	manganese	max. 0.01 ppm
Untreated water pressure	bar	2 – 6
Membrane storage tank volume	l	12
Tank diameter	mm	ø 280
Voltage supply	V	230V 50 Hz
Electrical input	W	43
Ambient temperature	°C	2 - 40
Filter - pre-filter	20µ	BO-KF320
Pre-filter	5µ	BO-KF305
Activated carbon + phosphate		BO-KF101CS
UV reactor		BO-UV-RO

MAINTENANCE

Regular maintenance of the BO-RO6 reverse osmosis system is the proviso for smooth and mainly hygienic operation.

Maintenance refers to the exchange of non-repairable items of the BO-RO6. It can be done in 2 cycles. Each maintenance cycle includes different services. So we offer 2 different maintenance packages.

Cycle	name	item no.	content
every 12 months from start-up	maintenance package 1	50 011 05	UV light unit water filter cartridges 5/20µ activated carbon/phosphate cartridge
every 24 months from start-up	maintenance package 2	50 011 06	RO membranes UV light unit water filter cartridges 5/20µ activated carbon/phosphate cartridge

ITEM NO. / ACCESSORIES

80 00 06 BO-RO6 reverse osmosis system

Subject to technical modifications / date of issue 05.2005