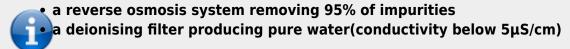
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Introduction

The water purifiers proposed by DIASYS are a combination of 2 elements:



The reverse osmosis membrane has the advantage to prolong the lifetime of the deionising filter.

The water purifiers designed by Diasys are especially built for providing deionised water to clinical chemistry and immunology analysers.

catalog

- Water purifiers
- UV sterilizer
- Auto-filling water level sensor
- Conductivity meters

recommended conditions

A reverse osmosis system works well with water at ambiant temperature. The tap water should not be too hot (above 35°C) or too cold (below 10°C). Outside these bounds, the membrane might be damaged irreversibly. The optimum production of water is obtained at 25°C.

In order to activate the reverse osmosis process, the tap water pressure in the membrane must be strong enough, above 2.5 BAR (ideal pressure is generally around 4.5 BAR) but can vary depending of the membrane. When the tap water pressure is too low or vary, a booster pump is required. It is recommended to rince the membrane every month using the following process:

- disconnect the restrictor
- leave water flowing during 20 minutes
- reconnect the restrictor

This manual process is similar to the flush function available on the system equipped with an electronic controller, which allows to rince the membrane easily just by pressing a button.

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Troubleshooting

| PROBLEM | CONDITION | POTENTIAL CAUSES | SUGGESTED ACTION |
|--|---|--|--|
| Water purifier OFF | Power light OFF | No power supply | - Verify the power supply wires - Switch power ON |
| | | Power supply fuse is broken | Check and replace the fuse |
| No production of purified water | - Power light ON - indicator PUMP is off - indicator SOURCE is ON | The inlet tap water supply is closed or has insufficient pressure | Improve water supply |
| | | Water inlet tubing folded or obstructed | Check that the inlet pipe is not damaged. |
| | - Power light ON - all control light indicators OFF | Fuse in the controller box broken | Replace fuse |
| reduced flow of purified water | - Power light ON - indicator PUMP light ON - Pump running continuously | Pre-treatment clogged | Replace the pre-treatment filters before the RO membrane |
| | | Weak flow of inlet water | Increase the flow of the inlet water |
| | | Reverse osmosis membrane clogged | Change the membrane |
| | Pump leakage | Pump damaged | Replace the pump |
| | | Flow restrictor blocked | Replace flow restrictor |
| | Power light ONindicator PUMPlight ONPump always OFF | Pump fuse burned | Replace the pump fuse |
| Starts and stops continuously | Light indicators FULL and PUMP alternate | Defective high-pressure sensor or check valve | Change pressure sensor and check valve |
| Lack of pressure on water output | - Power light ON | Watertank hand valve closed | Turn ON the watertank hand valve |
| | | Requested pure water volume above the capacity of the water purifier | Wait the watertank is filled again |
| | | Lack of pressure in the pressurised watertank | Re-adjust the air-pressure of the water tank |
| purified water conductivity too high | | Resin saturated | Replace resin cartridge or bottle |
| Drain flowing continuously | - POWER light ON - FULL indicator ON - Pump indicator OFF | Inlet solenoid valve defective | Replace the inlet solenoid valve |
| | Power light ONPump indicatorONAuto-Flush not activated | Flush solenoid valve defective | Replace the flush solenoid valve |

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| Conductivity meter | Batteries out of order | Replace the batteries |
|--------------------|------------------------|-----------------------|
| display OFF | | · |

Q & A

- What are the different qualities of water?
- What's the difference between RO and DI water purification?
- Why carbon to filter water?
- Why a booster pump?
- How to disconnect autofilling? (OMINI autofilling version only)
- How to replace an old controller without white wire by a new one?
- Why indicator lamps of the controller are off?
- When to replace the reverse osmosis membrane?
- Is the UV sterilizer to be connected before or after the water purifier?

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