



R.O. Water Treatment with Dosing unit and digital controller

- High-quality membranes
- Accurate Dosing of fluids
- Dosing guard
- Water safe guard
- Water Saver
- Plug and Play
- Programmable controller
- Time based schedules
- Hygrostat control

Demineralised Water

The use of demineralised water is recommended with Contronics humidifiers for the following reasons:

- Any minerals, salts and bacteria that enter the humidifier will cause the water reservoir to become polluted. The integrated flushing program will delay this process but will not prevent it entirely. Depending on the quality of the added water, the water reservoir will eventually become blocked. As a result, the energy of the transducers will no longer be effective, and they will wear out more quickly.
- The minerals and salts (calcium) present in city water will end up in the area to be humidified and could cause annoying deposits of dust.
- Any bacteria present in city water (Legionella) could multiply easily in the relatively warm water in the humidifier and could thereby constitute a health hazard.

The integrated Water Safe Guard (WSG) measures the quality of the demineralised water and switches off the connected humidifier(s) long before a safety hazard can occur.

The Water Saver (WS) option is standard on this system. It uses a permeate pump to increase the efficiency of the reversed osmosis system and therefore saves water (less waste water).

Dosing

The system can be used to dose fluids like ECAS or natural sanitizers in the demineralised water. The dosing can be set between 0.5 and 5%. It will dose the correct percentage independent of the water demand. It is equipped with a Solution Guard (SG). This device continuously monitors the percentage of the dosing. When the solution differs from the set percentage it activates an alarm. When correctly set it gives a warning when the dosing fluid vessel is empty.

Controller

The integrated DZR-45 is used as main controller for the system. With the build-in programmable timer blocks it's possible to select between demineralised water and solution at any time of the day. It also controls the output of the connected humidifier(s) based on a fixed capacity or relative humidity.

The LP-SYS-001 is suitable for maximum 1x HU-245.

Specifications LP-SYS-001

Reversed Osmosis

<i>Maximum production in kg/day at 25 °C</i>	920
<i>Maximum production in kg/day at 10 °C</i>	550
<i>Retention of salts and minerals (%)</i>	98
<i>Output compared to supplied water (%)</i>	33
<i>Minimum pressure (bar)</i>	1

Dosing

<i>Adjustable dosing ratio (%)</i>	0.5 - 5
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Controller

<i>Number of clock programs</i>	10
<i>Alarm output</i>	1

System

<i>Contents of buffer tank (kg)</i>	10
<i>Maximum temperature (°C)</i>	40
<i>Power consumption (W)</i>	255
<i>Dimensions (LxWxH) (cm)</i>	75x49x62

Accessories

HS-91	Measures the relative humidity and temperature. The results are transferred to the DZR-45 controller which calculates the needed humidifier capacity.
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