



### High quality, sustainable humidification system

- Stainless steel
- Energy efficient
- Optimal hygiene
- Flushing programme
- Built-in ozone generator
- High capacity per transducer
- Low noise
- Proportionally accurate regulation
- Built-in drainpump
- System is plug and play

## Introduction

The humidity in a supermarket is extremely low in the winter when the heaters are working and in the summer with the air conditioning on. This causes fresh products on show to lose quality quickly because they part with moisture into the dry ambient air. With a humidification system from Contronics you have the perfect solution for keeping your products fresh long-term.

## How it works

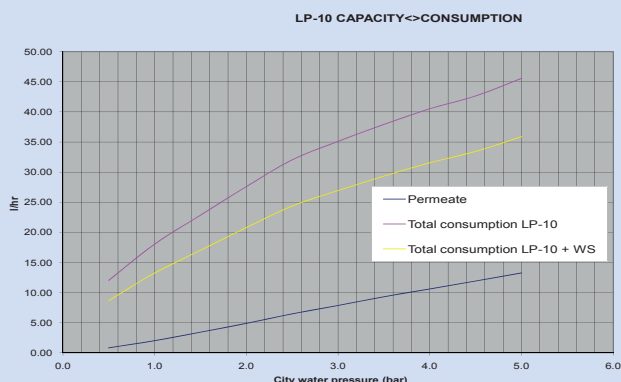
Purified water is atomized by means of high frequency waves (ultrasonic). This spray of very small droplets is spread like a blanket over the products. The water droplets evaporate by removing the energy from the ambient air and forming a cool moist layer just above the product. The temperature is lowered by approx. 4-5 degrees and the relative humidity will increase to approx. 95%. The fresh product will no longer lose moisture and is also cooled at the same time. Your vegetables and fruit will not become wet.

## Hygiene

The mains water used is purified first so that maximum hygiene is guaranteed. A so-called reverse osmosis filter is used for this purpose. It removes all the bacteria, viruses, calcium and minerals that can normally be found in mains water. The system is automatically rinsed through every hour. The humidification process stops then for a short while. The bacteria that get into the system with the air are dealt with in a built-in ozone generator that works at night. Ozone (O<sub>3</sub>) is a molecule with 3 oxygen atoms. It is a strong oxidant that will kill all the bacteria entering. In a short time it reverts to normal oxygen without leaving a residue. Annual maintenance guarantees problem-free, hygienic use.

## Parts of the system

Water treatment (LP-10), humidification (HU-XXX), ozone generator (OG) and drainage system (POMPUNIT) are combined in the HU-SYS-CXXX system in a stainless steel frame for ease of installation.



## Specifications HU-SYS-CXXX

<i>Transducer frequency</i>	1,7 MHz
<i>Maximum capacity</i>	0-4,0 kg/hour (adjustable)
<i>Life-time transducers</i>	10.000-20.000 hour
<i>Water particle size</i>	1-3 micron
<i>Diameter outlet flange</i>	1 x 80 mm
<i>Diameter suction flange</i>	80 mm
<i>Airflow</i>	adjustable (0 – 60 m <sup>3</sup> 0 Pa)
<i>Outlet pipe length</i>	6 meter
<i>Water pressure</i>	1 – 6 bar
<i>Water connection</i>	3/8" external
<i>Flushing frequency</i>	1 x per hour (adjustable)
<i>Water discharge</i>	3/8" external
<i>Content of water tank</i>	1100 cm <sup>3</sup>
<i>Mains voltage</i>	230V ± 10% 50/60 Hz
<i>Power consumption</i>	350W
<i>Ambient temperature</i>	0 °C till 35 °C
<i>Water temperature</i>	5 °C till 25 °C
<i>Dimensions (LxWxH)</i>	770 x 490 x 460 mm
<i>Housing</i>	Stainless steel 316L
<i>Weight</i>	41 kg

## OG

<i>Capacity ozone</i>	0-20 mg.hour (adjustable)
<i>Controlling ozone</i>	Via timer with day programming

## LP-10

<i>Retention of salts and minerals (%)</i>	98
<i>Buffer tank (L)</i>	2
<i>Inlet pressure (bar)</i>	0.45

## Drain unit

<i>Pump height</i>	10 meter
<i>Max. length of drain</i>	30 meter

## Options

LP-10WS	Reduces the drain water with 30%. (see graph on the left side)
LP-10WSG	Guards continuous the quality of the water.
LP-10WSWSG	Combines both options above
LP-10BP	When Water pressure < 3 bar
HTR-10	Remote control