

Ultrasonic Humidifier HU-45-CA



High quality, sustainable humidification

- Closed Air circuit for CA application
- Energy efficient
- Optimal hygiene
- Flushing program
- High capacity per transducer
- Built-in hygrostat or 0 - 10 Volt
- Proportionally accurate regulation
- Built-in heating element

High quality

The HU series humidifiers have been specially designed for humidifying fresh products. Everything has been done to guarantee hygiene.

- The humidifiers are made of chemically polished RVS 316L. This ensures that bacteria cannot accumulate in the material and it is easy to keep clean.
- An automatic flushing programme ensures that the humidifier is flushed every hour and filled with fresh water.
- When the humidifier is turned off, the internal reservoir is automatically emptied. No water is left behind.
- Contronics supplies corresponding economical filter systems based on reverse osmosis. The filters remove bacteria, calcium build-up and nutrients from the water.
- On the air side, an ozone generator is used to kill airborne bacteria. During a period of 2 hours during the night, ozone is injected into the humidifier and the connected system. Ozone effectively kills bacteria also in the smallest corners. Ozone (O₃) is an unstable gas. It will quickly change into regular oxygen (O₂) without leaving any residue.

Sustainable

Sustainability is very important to Contronics.

- Positive energy balance in cooling situations. The energy required by the humidifier is amply compensated by the energy saving of the cooling equipment. This is because an HU-45 produces 2.0 KW per hour in cooling energy (adiabatic effect).
- On a yearly basis a HU-45 ensures that 6 tonnes CO₂ is saved.
- The humidifier helps improve the food chain. Less fresh food is thrown out. The waste flows are reduced by 50%.
- Fresh and hygienic stored products contribute to a healthier life.

A prize-winning development

Contronics humidifiers are the only ones of their type which have been specially developed for fresh products. This innovation and its successful launch on the world market has been awarded the prestigious Eureka Lynx Award.

The HU-45-CA has a closed air circuit for CA applications. It can be used in below freezing conditions till - 5 °C. The HU-45-CA can be used in cold storages up to 750m³.

Specifications HU-45-CA

<i>Transducer frequency</i>	1,7 MHz
<i>Maximum capacity</i>	0-3,0 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>	50 mm
<i>Diameter suction flange</i>	50 mm
<i>Airflow</i>	adjustable (0 – 60 m ³ 0 Pa)
<i>Outlet pipe length</i>	6 meter
<i>Water pressure</i>	1 – 6 bar
<i>Water connection</i>	¾" external
<i>Maximum water hardness</i>	8° German hardness (demineralised water is strongly recommended)
<i>Flushing frequency</i>	1 x per hour (adjustable)
<i>Water discharge</i>	½" external
<i>Content of water tank</i>	650 cm ³
<i>Mains voltage</i>	230V ± 10% 50/60 Hz
<i>Power consumption</i>	250W
<i>Ambient temperature</i>	- 5 °C till 35 °C
<i>Water temperature</i>	5 °C till 15 °C
<i>Ambient temperature compared to supply air temperature</i>	Non condensing
<i>Dimensions (LxWxH)</i>	500 x 302 x 500 mm
<i>Housing humidifier enclosure</i>	RVS 316L lacquered steel
<i>Weight</i>	29,5 kg

Accessories

LP-10, LP-10BP	Reverse osmosis filter system
HS-91	Humidity sensor with plug (included)
DZR-45	Hygrostat with digital read-out (included)
HK-01	Connection cable (2m)

