

# Ultrasonic Humidifier HU-45

## PRODUCT INFORMATION



## High quality, sustainable humidification

- Stainless steel
- Energy efficient
- Optimal hygiene
- Flushing programme
- Built-in ozone generator (optional)
- High capacity per transducer
- Low noise
- Built-in hygostat
- Proportionally accurate regulation
- External power supply 0-10 Volt

## 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 (O<sub>3</sub>) is an unstable gas. It will quickly change into regular oxygen (O<sub>2</sub>) 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 CO<sub>2</sub> 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 is particularly useful in fruit and vegetable displays measuring 3 meters in length and in cold stores up to 750 m<sup>3</sup>.

## Specifications HU-45

<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>	4 x 40 mm or 1 x 80 mm with adapter
<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>	¾" external
<i>Maximale 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 <sup>3</sup>
<i>Mains voltage</i>	230V ± 10% 50/60 Hz
<i>Power consumption</i>	250W
<i>Ambient temperature</i>	0 °C till 35 °C
<i>Water temperature</i>	5 °C till 25 °C
<i>Ambient temperature compared to supply air temperature</i>	Non condensing
<i>Dimensions (LxWxH)</i>	325 x 265 x 215 mm
<i>Housing</i>	Stainless steel 316L
<i>Weight</i>	11,5 kg

## Available versions

HU-45	standard 4 outlets of 40 mm
HU-45OG	idem with buildt-in ozone generator
HU-45-2X40	2 outlets of 40 mm
HU-45OG-2X40	idem with buildt-in ozone generator
HU-45-1X80	1 outlet of 80 mm
HU-45OG-1X80	idem with buildt-in ozone generator

## HU-45OG (with buildt-in ozone generator)

Capacity ozone	20 mg / hour
Controlling ozone	Via timer with day programming

## Accessories

LP-10, LP-10BP	Reverse osmosis filter system
HS-91P	Humidity sensor with plug
DZR-45	External hygrostat with digital read-out
HTR-10	Room hygrostat with buildt-in humidity sensor and remote control
HS-91	Humidity sensor
HK-01	Connection cable external control 0 - 10 Volt (2m)
HK-10	Extension cable for HTR-10 and HS-91P (10 meter)
HK-20	Extension cable for HTR-10 and HS-91P (20 meter)