

Specification

Steam Injection Humidifiers types SIH 20 and SIH 40

For short absorption distance humidification with condensate-free saturated steam.
For connection to existing steam networks. Compact, light-weight design which can be individually configured. Manufactured in Germany.

In 2 versions:

SIHxx - VA: All stainless steel, strainer, separator and condensate ball float drain trap in one compact unit

SIHxx - CI: Also made of stainless steel except for steam control valve, condensate ball float drain trap and screwed connections

Standard features include:

- Strainer with micro filter to protect valves from foreign particles from the steam network
- Stainless steel low-weight separator for optimum separation of steam and condensate. Using the centrifugal principle for highest efficiency and longest life, 100% maintenance free
- Quick-action condensate ball float drain trap for continuous draining of large condensate quantities
- Bus-compatible actuator with linear lift
- Tight-sealing steam control valve, tested according to (DIN EN 1349), IEC 60534-4, metal-to-metal sealing class IV or metallically ground for even higher requirements class IV S1
Leakage class IV = completely tight sealing down to 0.0001%
Leakage class IV S1 = completely tight sealing down to 0,000005%
- Characteristic curve for optimum steam control. This characteristic curve allows particularly fine control at the lower levels and fast adaptation to high moisture requirement in the upper control ranges
- Stainless steel steam lances for rapid distribution of saturated steam. Silent steam exit nozzles take the steam from the driest area of the steam lance for short absorption distances. Small footprint required with no air-flow heating thanks to the internal pre-heat system. Rapid start-up regulation using pre-heated lances. Separate system meaning non-return valve is necessary. Vibration-damped holder and floating mount system.
- Light-weight and easily serviceable stainless steel thermostatic capsule condensate drain. This system prevents condensate back-pressure in the heating pipes and can be installed in various ways

- Start-up protection feature to prevent condensates in air conditioning duct during system start-up

Optional:

- Pressure gauge R ½ ", stainless steel, range 0 - 6 bar (0 – 50 psi)
- MultiLance system available for especially short absorption distances
- Shut-off valve, manual
- Mounting 90°
- Control signal 4-20 mA
- Flange connection for connection to the on-site steam network
- Conversion from grey cast iron to stainless steel components is possible

Technical data:

Humidity increase from g/kg
 to g/kg
 at g/kg

Duct air temperature (at humidifier) °C

Duct air-flow m³/h

Steam pressure: barg

Steam output kg/ h

Steam lance(s) suitable for:

Duct width: mm

Duct height: mm

Selected steam lance length: mm

Absorption distance to normal obstacle: mm

Humidifier: SIH

fitted with steam control valve:

Valve Type:

CVS:

Make:

and with electrical / pneumatic actuator

Type:

Make: