



HUMIDIFICATION  
THE HIGH-PRESSURE NOZZLE SYSTEM.  
COOLING AND HUMIDIFYING  
WITHOUT AEROSOLS.

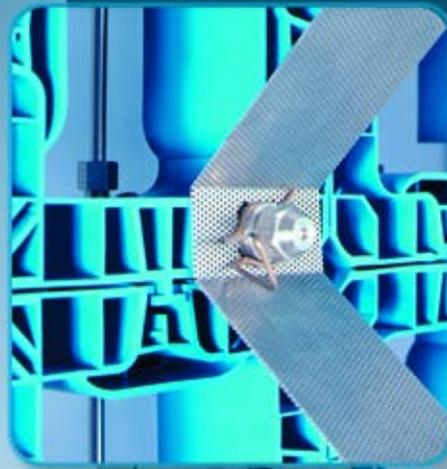
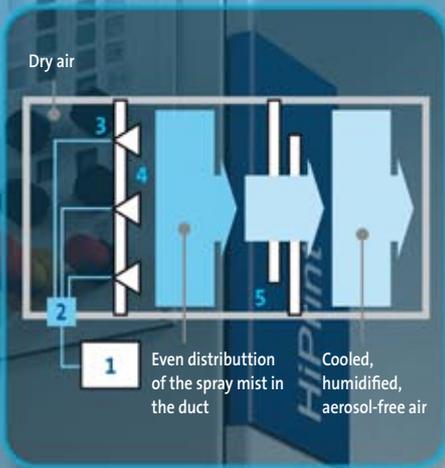


CONDAIR FAST FOG



# Condair Fast Fog

HUMIDIFICATION



An intelligent principle

Patented “fog maker“

Humid air – without droplets

- 1 | High-pressure pump station with PLC control
- 2 | Supply line to nozzle circuits
- 3 | Modular nozzle system
- 4 | Atomizer nozzles with fog expander
- 5 | Separator unit

The humidification section is installed in the air duct. Outside of the duct, the high-pressure pump is installed and pumps de-mineralized water at a pressure of 80 bar to the ceramic nozzles. The greatest part of the humidification water evaporates on the way from the nozzle to the mist eliminator system. Cooled, humidified air reaches the air supply duct.

The patented expansion elements supplement the ceramic nozzles and generate a very fine spray mist. This enables an extremely rapid transformation of water mist into a gaseous state. The advantage: The evaporation distance is extremely short, maximum use of spraying water is made and only small amounts of water have to be drained.

Again, a patented system is used: The bypass design of the droplet separator allows air passage at nearly full pressure. The droplet separator with anti-bacterial coating ensures that no droplets penetrate from the humidification section into the supply air system.



### Why Condair Fast Fog?



#### **Even.**

The spray mist spreads evenly thanks to the intelligent arrangement of the nozzles. This ensures optimum cooling and humidifying.

#### **Accurate.**

The high-pressure pump and seven control stages allow humidity regulation with an accuracy of  $\pm 5\%$ .



#### **Aerosol-free.**

The humidified air is free of aerosols. This ensures healthy humidification even for sensitive applications.

### Key benefits

#### **Short evaporation distance**

The faster the humidification water is absorbed, the more efficient the system. The evaporation distance of the Condair Fast Fog is very short, only 0.8 – 1.3 meters. Thus the unit works very efficiently and produces only small amounts of purging water.

#### **Safe and hygienic**

The droplet separator with anti-bacterial coating closes the humidification chamber. Thus aerosol-free air enters the duct – with minimum pressure loss and high humidification performance.

#### **Accurate high pressure**

Constant conditions are vital in a production process. The humidification performance of the Condair Fast Fog can be regulated with an accuracy of  $\pm 5\%$ . This is achieved by the high-pressure pump and the distribution via three nozzle circuits.



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## Technical data

Length humidification section in m	max. 1.5
Humidification output in l/h	20...450
Power supply pump in VAC/3, 50..60 Hz	400
Working pressure pump in bar	80
Power consumption pump in kW	0.9...2.0
Water supply pressure in bar	3 bar $\pm$ 0.5
Temperature water supply in °C	max. 35
Water conductivity osmosis in uS/cm	3...15
Control signals	0 - 10 VDC, 0 - 20 mA, (4 - 20 mA)
Control accuracy typ. r.F.	$\pm$ 5%
Required filter prior to humidifier	min. F6 (EU6)
Admissible air speed in m/s	0.5...4.0

Solutions for Indoor Climate

HEATING  
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