



HygroMatik DDS

The new generation of steam injection humidifiers





Humidification for best conditions

HygroMATIK

for industry, manufacturing processes, public buildings and offices.

The new generation

The new HygroMatik DDS, the only system offering four components in one compact unit. High performance separator, strainer, condensate drain and start-up safety feature – all in high grade stainless steel, compact, light and energy efficient.

The DDS can be configured individually. The standard flanged connections, compact dimensions and light weight ensure easy installation – even where available space is at a premium.

The HygroMatik DDS humidifies with condensate-free saturated steam and offers the shortest absorption distances.



The new DDS. Go green!

- The only 4 in 1 system
- Most compact dimensions and least weight
- Best energy efficiency
- Easy installation
- Flexible modular construction
- Customer-specific solutions

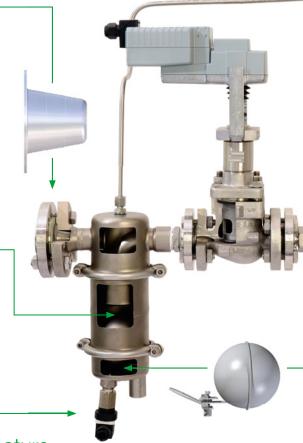
Exchangeable strainer

The high-quality stainless steel strainer protects the actuator and the condensate drain from foreign particles from the steam network.

The internal fine-mesh strainer can be exchanged when necessary.

High performance separator —

The stainless steel separator separates steam from condensate using a spiral shaped guidance system. The low weight and compact closed-system makes the HygroMatik DDS easy to install and energy efficient.



Reliable start-up safety feature

The start-up safety feature switches on humidification only after a specified temperature has been reached. This effectively prevents condensate carryover from the steam network into the air conditioning ducting.









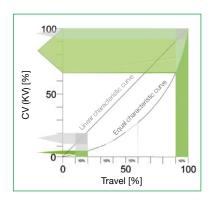
Flexible

All DDS components are light, simple to install and can be individually configured. It will fit anywhere.

Optimum regulation

The bus compatible actuator ensures optimum control. The special metalto-metal or soft sealing HygroMatik actuator-valve controls the steam flow via valve-lift with percentual characteristic curve. This means:

- Especially fine control in lower ranges
- Rapid reaction for high humidification requirements in higher ranges



Stainless steel steam lances

They have low weight and are easily installed. Low-noise steam nozzles take steam from the driest areas of the steam lance.

The nozzles are positioned against the air-flow direction which ensures fast distribution and short absorption distances.



The internal, closed-system steam lance heating system

It is located at the lowest point on the steam lances so that any possible condensate can be vaporized immediately. The light and maintenance-friendly thermal condensate drain discharges condensate out of the heating system. The heating system is supplied directly from the separator or, alternatively, from a separate steam supply.

- Space-saving through internal heating system
- Rapid regulation during start-up through pre-heated steam lances
- No air-flow heating

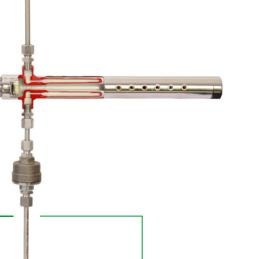
High performance condensate drain

The robust, tight-sealing, ball-float condensate drain discharges condensate. Due to the fast-reaction operating principle and high capacity it can handle large amounts of condensate which are discharged away, for instance when starting the system. The closed-system approach prevents steam loss.

Our service for you

- Technical hotline: +49 4193 895-293 or hotline@hygromatik.com
- Manuals and information material at www.hygromatik.com





DDS installation schematic Steam lance heating pipes - Actuator Double-nipple reduction piece 0 0 0 0 0 90° angle Pipe T-piece Double-nipple reduction piece Lance heating system 0 0 0 0 0 0 0 screw fitting Separator Pipe Steam T-piece Double-nipple reduction piece 0 0 Adjustment valve 0 0 0 0 0 0 0 Steam lance Lance heating system screw fitting 0 0 Thermal capsule condensate drain Start-up safety feature Condensate

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