

# HygroMatik LPS

Maintenance free pump operation – up to 5 years / 25,000 operating hours

## Humidifies and Cools

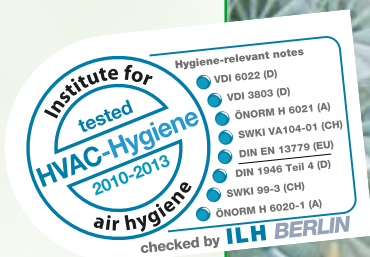
The HygroMatik low pressure system (LPS) is the new solution for adiabatic humidification and exhaust air cooling in air conditioning units. The LPS low pressure system is ideal for quick and easy retro-fitting into air conditioning systems with short humidification distances. Optimised efficiency is guaranteed with the HygroMatik Vortex generator module. It humidifies and cools environmentally consciously and is hygienically certified. Its water lubricated pump provides maintenance free operation up to 5 years.



- Adiabatic
- Energy efficient
- Environment friendly
- Safe operation
- Hygienic
- Certified\*
- Excellent price/ performance ratio

\* ILH certification

- High cooling and humidification performance
- Maximum hygiene – no biocides, no chemical additives needed
- Space-saving construction and silent operation – wall mounted high quality steel case
- Easy installation – ideal for retro-fitting
- Excellent price/performance ratio
- Robust and reliable operation
- Minimum operational and service costs



**HYGROMATIK**<sup>®</sup>  
WE HUMIDIFY THE AIR

The space-saving and low-noise LPS was developed specifically for the humidification and exhaust air cooling in air ducts. Environmentally conscious, hygienically certified and low maintenance, the LPS provides a good alternative to existing systems. The straightforward setup provides easy and timesaving commissioning for the installer.

W: 600 mm  
H: 700 mm  
D: 238 mm



## Environmental Awareness

Humidification with demineralized water effectively prevents scaling and guarantees low maintenance requirements.

The new HygroMatik LPS combines low power consumption and minimum maintenance requirements with a total absence of chemical or biological disinfectants. The pump is water lubricated, the system operates oil free – clean and save. The costly continuous checking and topping up of antiseptic agents is eliminated. The LPS system means fast amortization and long life through the use of robust, high quality components.

### LPS technical data

Nominal power rating	[kW]	0.37
Humidification capacity	[l/h]	4 - approx. 110
Amps	[A]	2.7
Volts	[V/ph/Hz]	230/1/50
Control signals*	[V]	0-10
	[mA]	4-20
Vortex module dimensions [WxH]	[mm]	150x150
Nozzle number		1-30
Humidification path, min.	[m]	0.9
Installation length, min.	[m]	1.5
Flow velocity	[m/s]	0.9-2.8
Pressure drop in duct droplet separator per step		30 Pa at 2.0 m/s air speed

\*For humidification - other control signal levels on request. Technical amendments excepted.

Your HygroMatik team will be pleased to answer any queries.

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