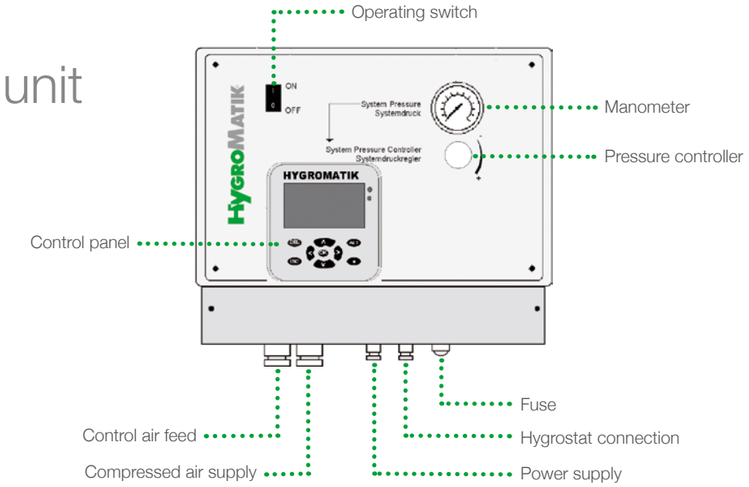
Control unit CU-1



Technical Data Atomising System Vacuum Nozzles

Type	Vacuum Nozzle VN	Control Unit CU-1	Pilot Valve PV	Vacuum Valve Hy-W
Atomising Output [l/h]	max. 8	–	–	–
Water				
Water Supply [mm]	6 x 4	–	–	6 x 4
Water Drain [mm]	–	–	–	10 x 8
Air				
Control Air [mm]	–	6 x 4	6 x 4	6 x 4
Compressed Air [mm]	6 x 4	–	10 x 8	–
Electricity				
Electrical Power [W]	–	25	–	–
Electrical Supply [V/Hz]	–	230/50	–	–
Dimensions				
Height [mm]	35	250	88	124
Width [mm]	50	296	155	84
Depth [mm]	86	107	120	85

Subject to technical amendments without notice.

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100%

01/2019

HygroMatik®
WE HUMIDIFY THE AIR

Atomising System VN

Compressed air nozzle system
for room humidification

- Humidification output 8 l/h per vacuum nozzle
- Low energy consumption
- Additional free cooling effect
- Stainless steel nozzles

HygroMatik MORE THAN 45 YEARS HUMIDIFICATION

Humidification for best conditions.

The tried and trusted principle

The HygroMatik vacuum nozzle atomising system atomises tap water with cleaned and dehumidified compressed air according to the injector principle. The compressed air flows through the nozzle. This generates a negative pressure which draws water into the nozzle. The water is then atomised into finest droplets, called aerosols.

The aerosols are generated in a closed system, i. e. at no point can standing water have contact with the air.

The system humidifies adiabatically, i. e. it provides a cooling effect for the ambient air.

Humidification for health and quality.

Correct humidity levels are essential for product quality and health. Dry air affects human well-being and has an adverse effect on growth and health in animal husbandry or greenhouses.

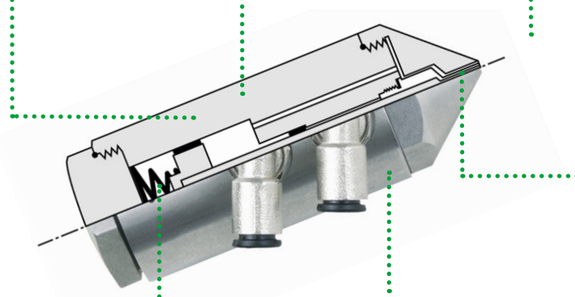
Exactly defined humidity levels are also fundamental in today‘s highly sophisticated production process environments.

The HygroMatik vacuum nozzle atomising system VN is installed in storage or production rooms and automatically supplies hygienic and energy-efficient air humidification.

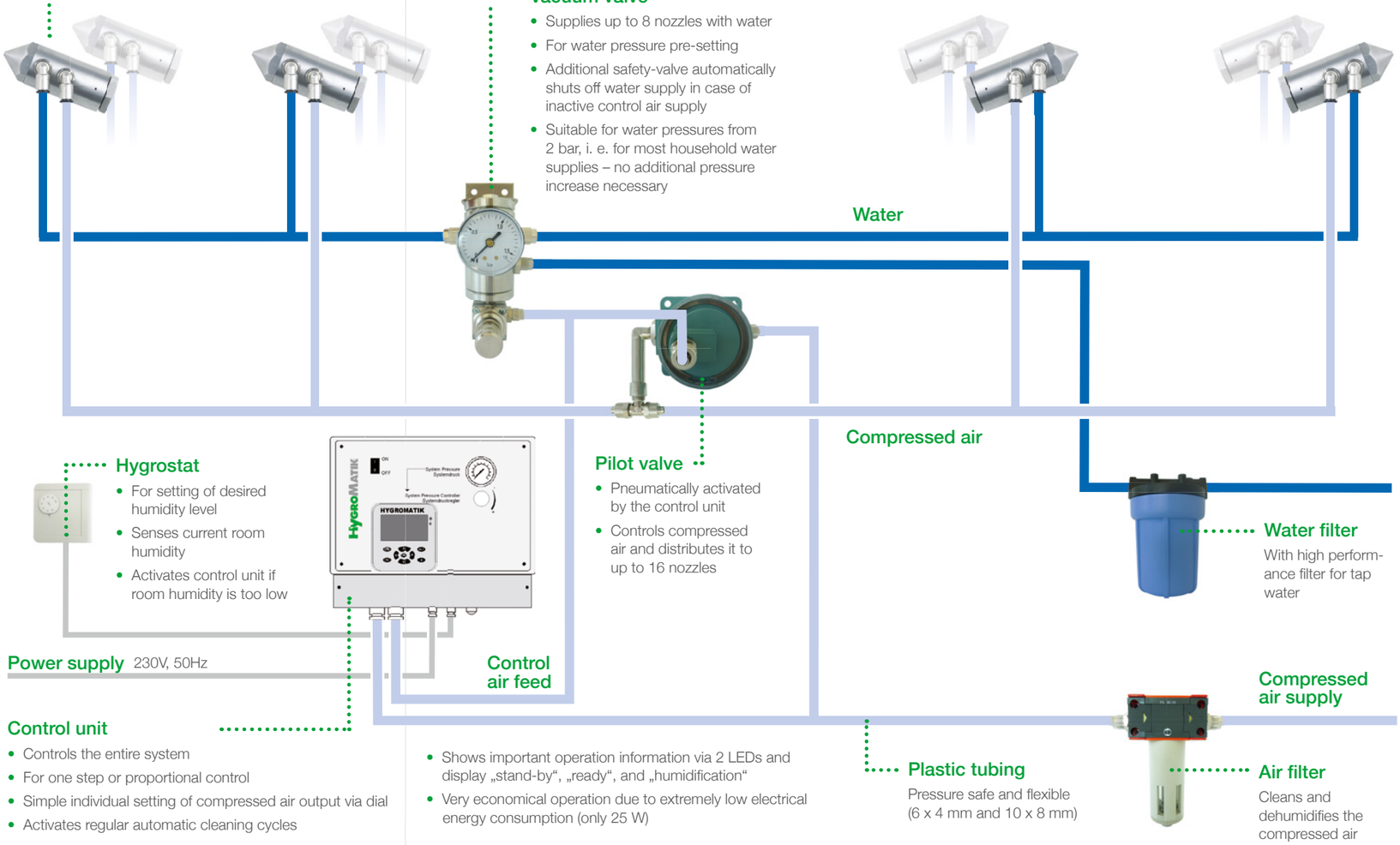
Recommended humidity values:

Printing and paper storage	50 - 80 % r.H.
Electronic production processes	45 - 55 % r.H.
Veneer storage	50 - 60 % r.H.
Greenhouses	70 - 90 % r.H.
Woodworking and storage	55 - 65 % r.H.
Cool rooms	70 - 80 % r.H.
Spray booths	60 - 80 % r.H.
Leather production and storage	50 - 70 % r.H.
Tobacco processing and storage	70 - 80 % r.H.
Textiles (e.g. wood or cotton)	65 - 75 % r.H.

Atomising nozzle type VN



- High quality stainless steel nozzle. Atomises water into finest aerosols
- Special nozzle design guarantees high atomisation output and low compressed air consumption
- Water and air mix outside the nozzle (injector principle). This ensures hygienic atomisation
- Stainless steel cleaning needle keeps water outlet free from scaling. This saves maintenance and constantly provides a fine droplet spectrum
- Service friendly form
- Powerful spring activates cleaning needle, this saves the additional connection of clean air system



Vacuum valve
- Supplies up to 8 nozzles with water
- For water pressure pre-setting
- Additional safety-valve automatically shuts off water supply in case of inactive control air supply
- Suitable for water pressures from 2 bar, i. e. for most household water supplies – no additional pressure increase necessary

Hygrostat
- For setting of desired humidity level
- Senses current room humidity
- Activates control unit if room humidity is too low

Pilot valve
- Pneumatically activated by the control unit
- Controls compressed air and distributes it to up to 16 nozzles

Water filter
With high performance filter for tap water

Control unit
- Controls the entire system
- For one step or proportional control
- Simple individual setting of compressed air output via dial
- Activates regular automatic cleaning cycles
- Shows important operation information via 2 LEDs and display „stand-by“, „ready“, and „humidification“
- Very economical operation due to extremely low electrical energy consumption (only 25 W)

Plastic tubing
Pressure safe and flexible (6 x 4 mm and 10 x 8 mm)

Air filter
Cleans and dehumidifies the compressed air