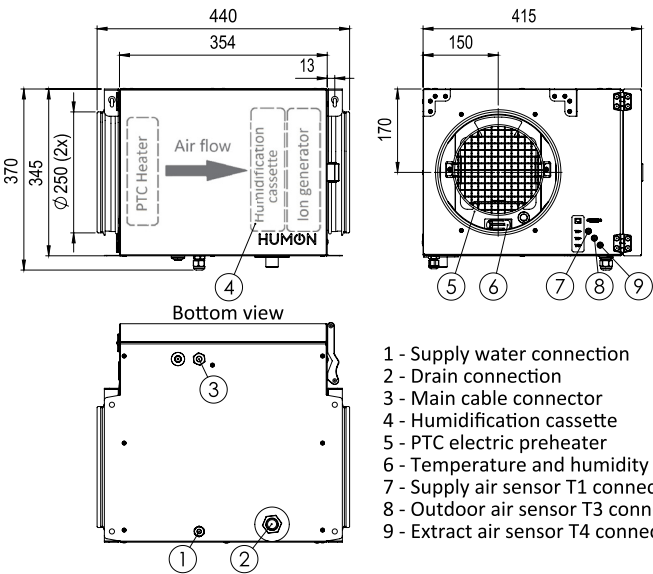


ADIABATIC DUCT HUMIDIFIER HUMON H250

HUMON

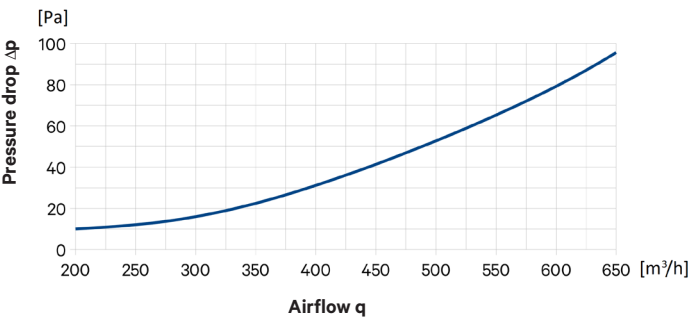


DESCRIPTION

HUMON is a duct-mounted adiabatic supply air humidifier designed for small and medium-sized applications, such as residential houses, apartments, and offices. The humidification process is based on the natural evaporation of water.

The customer shall provide the required electrical power supply, water supply, and drainage connection. The unit is installed in the supply air duct of the ventilation system, between the air handling unit (AHU) and the air supply outlets serving the conditioned spaces. The purpose of the HUMON unit is to provide continuous humidification of the supply air within the ventilation system. As the supply air passes through the wetted humidification medium, water evaporates into the air stream through an adiabatic process, increasing its moisture content. The integrated water filter removes Legionella bacteria from the water supply. The integrated ionizer helps reduce the concentration of bacteria and viruses in the supply air. Together, these components contribute to safe operation and help maintain hygienic supply air conditions. The HUMON humidifier is manufactured from aluminium-zinc-coated steel sheet with C4-M / C3-H corrosion resistance classification. The HUMON humidifier is intended for indoor installation in environments where the ambient temperature is maintained between +5°C and +40°C

TECHNICAL DATA



TECHNICAL DATA

Description	Parameters
Dimensions WxHxL	415 x 345 x 354 mm
Air duct connections	Ø250 mm
Humidification capacity	0–4,8 l/h
Power supply	230 V/50 Hz
Rated current	12,1 A
Heater power	1400 W
Energy consumption	6,5 W in stand by mode 10 W during humidification and ionisation 700–1400 W when the heater is operating
Water consumption	0–7,5 l/h (depending on set points)
Water supply connection	¾ internal thread with a connection to a 4 mm tube
Drain connection	½ thread adapter to the 1x90° elbow 1/2-1/2
Operating airflow	200–700 m³/h
Weight	11,7kg
Water quality	Hardness < 9 dGH, 5 mg-eq/l, TDS < 350 ppm
Factory settings	Supply air settings 50%, 18°C Indoor humidification up to 45% Start-up is triggered by the outdoor air temperature below +12°C

Factors affecting indoor air humidification:

- Outdoor humidity and temperature
- Type of HRV unit
- Supplied airflow
- The relative humidity and temperature settings for the supplied air
 - Interior finishing and furniture materials
- Ventilation system operation features
- Water temperature

ADIABATIC DUCT HUMIDIFIER HUMON H250

HUMON

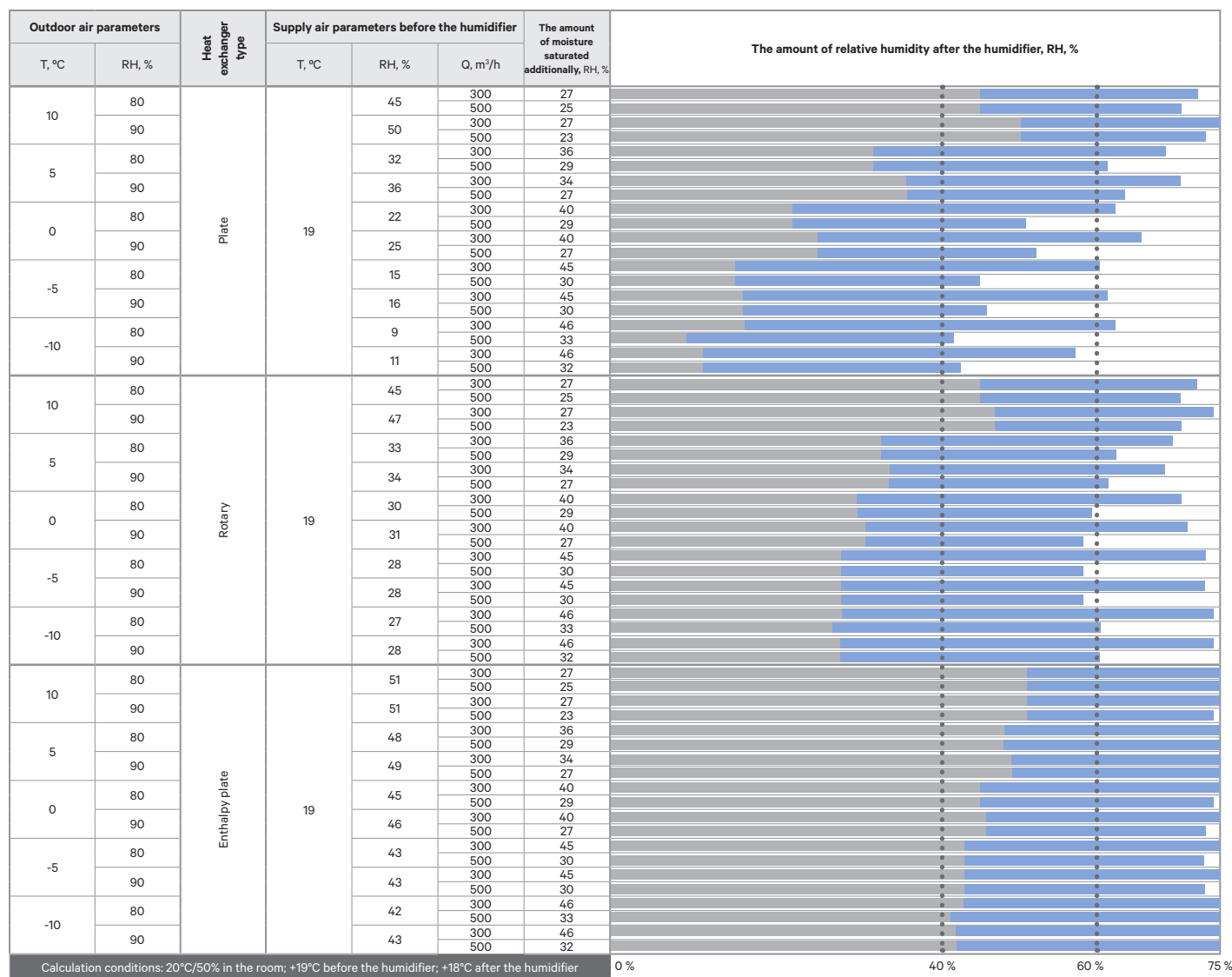
HUMON humidifies the ventilation system's supply air according to the set parameters. The recommended reference values for relative humidity are established in the national Hygiene standards. The desired relative humidity values are easily set in the device control system.

SAFETY AND CONNECTION FUNCTIONS

- PTC heater with automatic overheating protection
- Airflow sensor for start/stop humidifier
- Additional on/off dry contact
- 0–10 V external start-up input
- Option to connect pressure switch for airflow indication
- Option to connect external humidity controller
- External extract air humidity sensor T4

ADVANTAGES

- Quiet operation. The humidifier components reduce the noise level in the supply air duct by an average of 5 dB(A)
- The supplied air is humidified up to the relative humidity of 75%. (The humidification intensity depends on the outdoor air temperature and humidity in the supply duct after the HRV unit)
- Built-in PTC air preheater ensures adiabatic humidification process conditions
- Touchscreen control panel for convenient parameter setting
- Integrated water filter to trap Legionella bacteria
- Ionizer for air purification from viruses and bacteria
- Removable stainless steel drain tray for hygienic maintenance
- Inspection door with a locking handle for easier maintenance
- Housing made of aluminium zinc-coated steel sheets for high corrosion resistance



Marking: T, °C air temperature; RH, % relative humidity; Q, m³/h air quantity.

Note: when the amount of relative humidity after the humidifier reaches 75%, the intensity of humidification automatically reduces.



Tested and certified
The device complies with the
EMC Directive (2014/30/EU)
and Low Voltage Directive
(2014/35/EU).



To find out more visit:
www.humon.lt/en

Country of origin: Lithuania