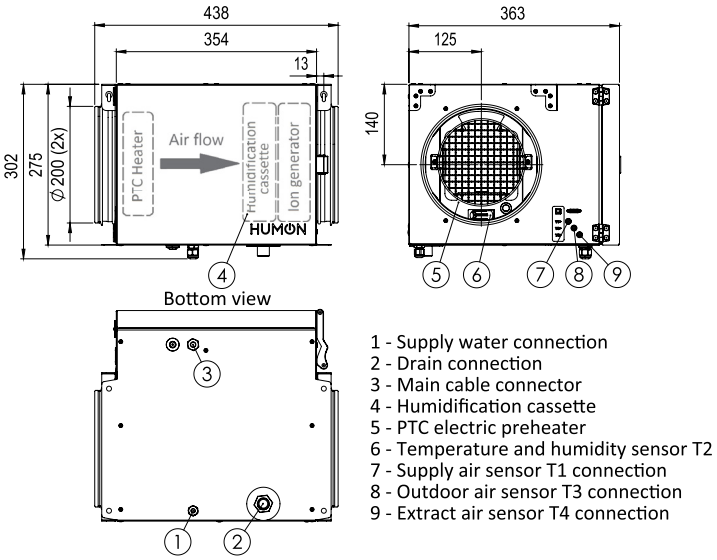
ADIABATIC DUCT HUMIDIFIER HUMON H200

HUMON





1 - Supply water connection
2 - Drain connection
3 - Main cable connector
4 - Humidification cassette
5 - PTC electric preheater
6 - Temperature and humidity sensor T2
7 - Supply air sensor T1 connection
8 - Outdoor air sensor T3 connection
9 - Extract air sensor T4 connection

DESCRIPTION

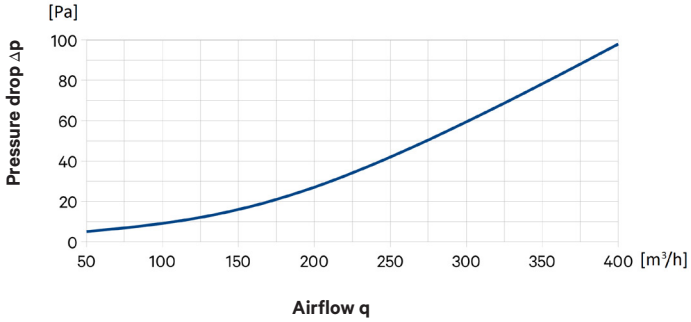
HUMON is a duct-mounted adiabatic supply air humidifier designed for small and medium-sized applications, such as residential houses, apartments, and offices. The humidification process is based on the natural evaporation of water.

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

Description	Parameters
Dimensions WxHxL	363 x 275 x 354 mm
Air duct connections	Ø200 mm
Humidification capacity	0–3,2 l/h
Power supply	230 V/50 Hz
Rated current	8,1 A
Heater power	1100 W
Energy consumption	6,5 W in stand by mode 10 W during humidification and ionisation 600–1200 W when the heater is operating
Water consumption	0–4.5 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	80–500 m^3/h
Weight	9,5 kg
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

TECHNICAL DATA



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

Technical data are subject to changes without prior notice 2026 07 31

ADIABATIC DUCT HUMIDIFIER
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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.

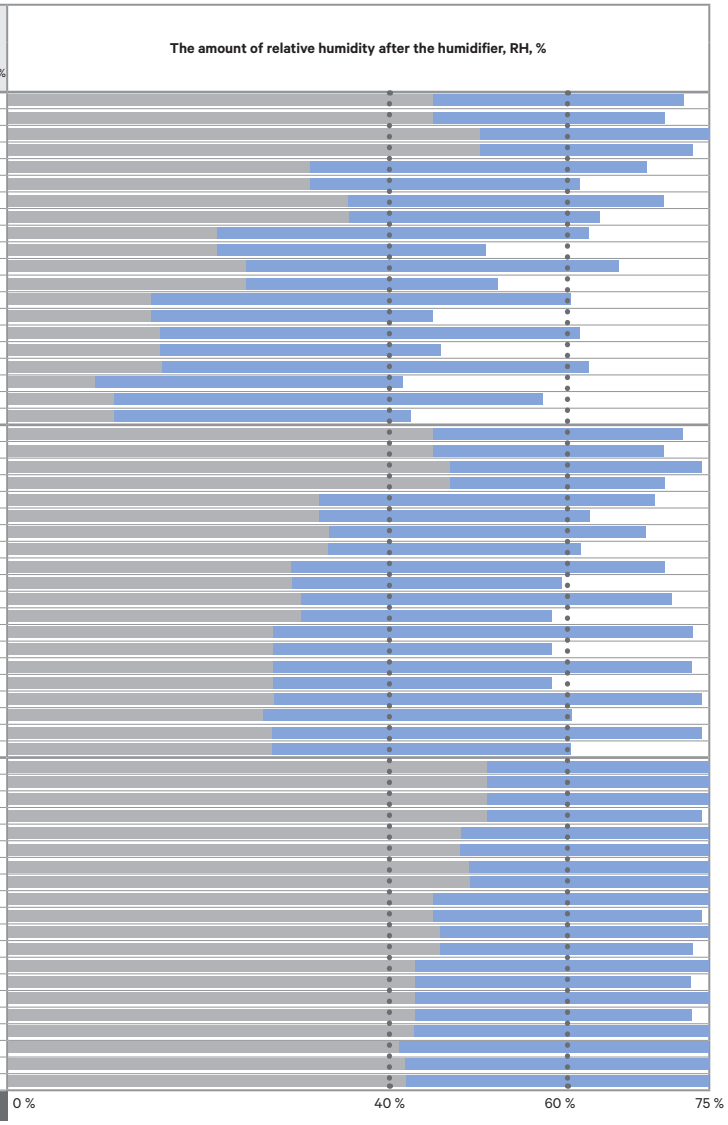
SAFETY AND CONNECTION FUNCTIONS

- • 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

Outdoor air parameters		Heat exchanger type	Supply air parameters before the humidifier			The amount of moisture saturated additionally, RH, %
T, °C	RH, %		T, °C	RH, %	Q, m³/h	
10	80	Plate	19	45	100	27
					300	25
	90			50	100	27
					300	23
5	80			32	100	36
					300	29
	90			36	100	34
					300	27
0	80			22	100	40
					300	29
	90			25	100	40
					300	27
-5	80			15	100	45
					300	30
	90			16	100	45
					300	30
-10	80			9	100	46
					300	33
	90			11	100	46
					300	32
10	80	Rotary	19	45	100	27
					300	25
	90			47	100	27
					300	23
5	80			33	100	36
					300	29
	90			34	100	34
					300	27
0	80			30	100	40
					300	29
	90			31	100	40
					300	27
-5	80			28	100	45
					300	30
	90			28	100	45
					300	30
-10	80			27	100	46
					300	33
	90			28	100	46
					300	32
10	80	Enthalpy plate	19	51	100	27
					300	25
	90			51	100	27
					300	23
5	80			48	100	36
					300	29
	90			49	100	34
					300	27
0	80			45	100	40
					300	29
	90			46	100	40
					300	27
-5	80			43	100	45
					300	30
	90			43	100	45
					300	30
-10	80			42	100	46
					300	33
	90			43	100	46
					300	32



Calculation conditions: 20°C/50% in the room; +19°C before the humidifier; +18°C after the humidifier

Marking: T, ºC 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 reduced.

CE **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