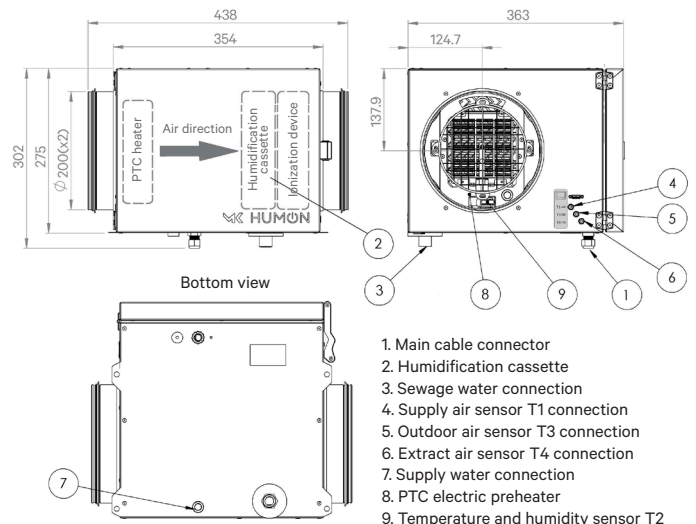


ADIABATIC DUCT TYPE HUMIDIFIER HUMON H200



DIMENSIONS



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

DESCRIPTION

HUMON is an adiabatic duct type humidifier intended for humidification of supply air in small and medium-sized spaces, such as family houses, flats and offices. Humidification is based on natural evaporation processes. Suitable power supply, fresh water connection and wastewater trap should be provided by the Customer. In all cases, the device should be installed in the ventilation system's supply air duct between the HRV unit and the air outlet to the premises. The purpose of the HUMON device is to ensure continuous humidification of the supply air in the ventilation system. The air passing through the evaporating media becomes more moisturised and slightly cooled due to the adiabatic humidification process. The water filter integrated in the HUMON humidifier cleans the water, removing Legionella bacteria. The ionisation device helps to clean the supply air from viruses and bacteria. All the integrated safety equipment guarantees the safe and healthy operation of the device. The HUMON humidifier is made of aluminium zinc-coated steel sheets (corrosion class C4-M/C3-H). It can be installed in premises with a temperature range from +5 to +40°C.

ORDER CODE

	HUMON H200WFR
Humidifier	
Size	
With water filter – WF	
Right (R) or left (L) side of inspection	

Example: HUMON H200WFR is a model with 200 mm duct connection, with water filter and right inspection side.

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
Rated power, total	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
Water drain tray connection	½ thread adapter to the 16 mm spiral drainage tube
Operating air volume	80–500 m³/h
Weight	9,5 kg
Water quality	Hardness < 8,5 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

ADIABATIC DUCT TYPE HUMIDIFIER HUMON H200

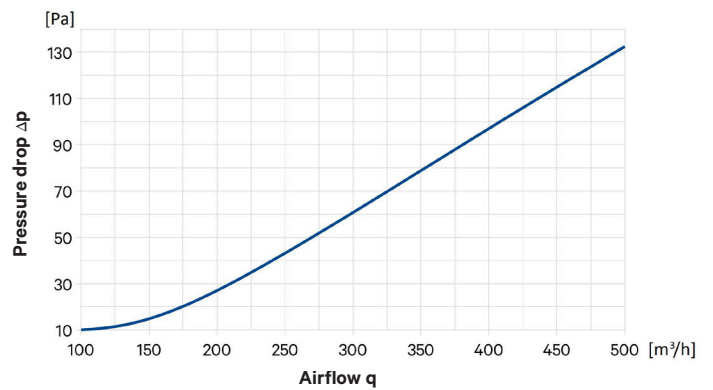


HUMON ensures humidification of the supply air under pre-defined parameters in the ventilation system. The recommended reference values for relative humidity are established in the national Hygiene standards. The desired relative humidity values are easily set in the device control system.

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 relay for airflow indication
- Option to connect external humidity regulator
- External extract air humidity sensor T4

TECHNICAL DATA



Outdoor parameters		Inlet parameters to the humidifier		Air volume	Additional relative humidity amount generated by the HUMON humidifier			
T, °C	RH, %	T, °C	RH, % Heat exchangers	m³/h				
10	80	19	45/45/50/51	100	+Δ27%			
				300	+Δ25%			
				500	+Δ20%			
	90		50/47/51/51	100	+Δ27%			
				300	+Δ23%			
				500	+Δ20%			
5	80	19	32/33/47/48	100	+Δ36%			
				300	+Δ29%			
				500	+Δ22%			
	90		36/34/48/49	100	+Δ34%			
				300	+Δ27%			
				500	+Δ21%			
0	80	19	22/30/43/45	100	+Δ40%			
				300	+Δ29%			
				500	+Δ21%			
	90		25/31/44/46	100	+Δ40%			
				300	+Δ27%			
				500	+Δ21%			
-5	80	19	15/28/42/43	100	+Δ45%			
				300	+Δ30%			
				500	+Δ23%			
	90		16/28/42/43	100	+Δ45%			
				300	+Δ30%			
				500	+Δ23%			
-10	80	19	9/27/40/42	100	+Δ46%			
				300	+Δ33%			
				500	+Δ24%			
	90		11/28/41/43	100	+Δ46%			
				300	+Δ32%			
				500	+Δ24%			
Calculation conditions: 20°C/50% in the room; +19°C before the humidifier; +18°C after the humidifier					10%	20%	30%	40%

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
- Touch-type control panel for convenient parameter setting
- Integrated water filter to trap Legionella bacteria
- Bipolar ionisation device for air purification from viruses and bacteria
- Removable stainless steel drain tray for hygienic operation
- Inspection door with a locking handle for easier maintenance
- Housing made of aluminium zinc-coated steel sheets for high corrosion protection

Factors affecting indoor air moisturisation:

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