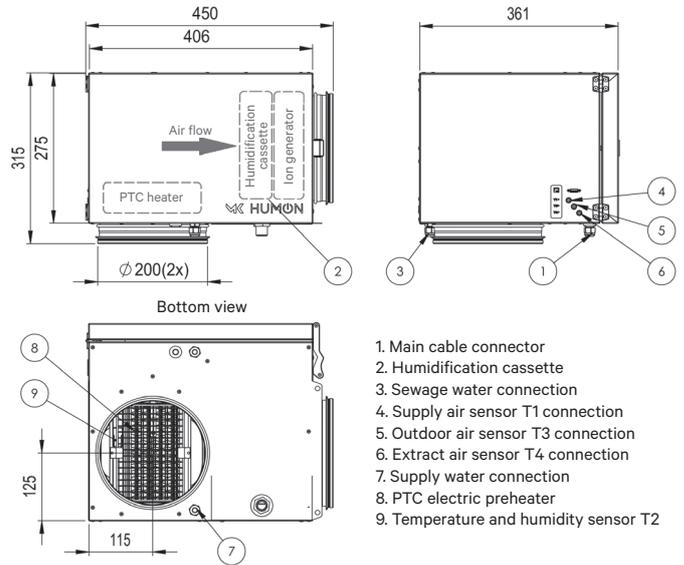


# ADIABATIC DUCT TYPE HUMIDIFIER HUMON HV200



## Preliminary data



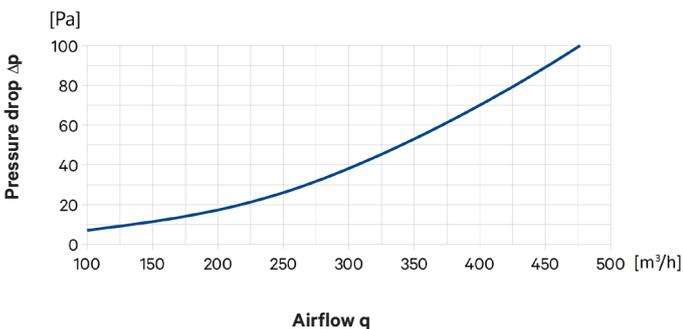
## DESCRIPTION

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.

## TECHNICAL DATA

Description	Parameters
Dimensions WxHxL	361 x 275 x 415 mm
Air duct connections	Ø200 mm
Humidification capacity	0-3,0 l/h
Power supply	230 V/50 Hz
Rated current	12,1 A
Rated power, total	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	0-4 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 1x90° elbow ½-½
Operating air volume	80-500 m³/h
Weight	11,2 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 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

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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

## 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

Outdoor air parameters		Heat exchanger type	Supply air parameters before the humidifier			The amount of moisture saturated additionally, RH, %	The amount of relative humidity after the humidifier, RH, %
T, °C	RH, %		T, °C	RH, %	Q, m³/h		
10	80	Plate	19	45	100	26	
					300	24	
	50			100	26		
				300	23		
	32			100	32		
				300	28		
5	80		100	36	300	31	
					300	26	
	90		22	100	36		
				300	28		
	80		25	100	36		
				300	26		
-5	80		100	15	300	39	
					300	27	
90	16		100	39			
			300	27			
-10	80		9	100	300	39	
					300	30	
	90	11	100	39			
			300	29			
	10	80	Rotary	19	45	100	26
						300	24
90		47			100	26	
					300	23	
80		33			100	32	
					300	28	
5	90	34		100	31		
				300	26		
80	30	100		36			
		300		28			
0	90	31		100	36		
				300	26		
-5	80	28		100	39		
				300	27		
90	28	100		39			
		300		27			
-10	80	27		100	300	39	
					300	30	
	90	28	100	39			
			300	29			
	10	80	Enthalpy plate	19	51	100	26
						300	24
90		51			100	26	
					300	23	
80		48			100	32	
					300	28	
5	90	49		100	31		
				300	26		
80	45	100		36			
		300		28			
0	90	46		100	36		
				300	26		
-5	80	43		100	39		
				300	27		
90	43	100		39			
		300		27			
-10	80	42		100	39		
				300	30		
90	43	100	39				
		300	29				

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

Note: when the amount of relative humidity after the humidifier is up to 75%, the intensity of humidification automatically reduced.



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](http://www.humon.lt/en)



Country of origin: Lithuania  
UAB MK Technika  
[www.mktechnika.lt/en/](http://www.mktechnika.lt/en/)