

Ventilation equipment with heat recovery AERO_aH

Features

Air equipment for controlled change of air with integrated dehumidification control

concurring to DIN1946-6 (2006): Design and dimensioning of residential ventilation systems

connectivity:

- climatic sensor in (T, rF): $V_B = 5V$, digital out
- climatic sensor out (T, rF): $V_B = 5V$, digital out
- power supply: 12 V DC
- cooling pipe on the rear side

Measuring range climatic sensors:

- inside: 0...100 % rF
-20...+80 °C
output: digital (rF, T)
- outside: 0...100 % rF
-20...+80 °C
output: digital (rF, T)
- precision T: $\pm 0,2$ °C
- precision rF: ± 2 %

General functions:

- simultaneous ventilations in and out
- heat recovery
- filtration of air (input- and output)
- ventiduct with weather protection

Manual mode:

The fresh air is drawn in from the outside by the blast working in the appliance, conducted over the heat exchanger and supplied into the room by 3 adjustable ventiducts. The air capacity performance (swept volume) is directly adjustable by a turning knob. Additionally the increased air capacity performance for the automatically mode can be programmed by the turning knob.

Automatic mode:

At this the absolute humidity values aH OUT and aH IN are permanently calculated according to the measured outside and inside climate values (rH, t). The blast switches automatically in the increased (programmed) air capacity, if aH IN > aH OUT and if the measured inside relative humidity exceed the adjusted humidity (e.g.50%). In this mode the turning knob serves for the adjustment of the wished humidity.

AERO_aH



Applications

- controlled change of air in apartments according to DIN1946
- regulation / stabilisation of desired humidity in interiors
- basic air stream for the standard application
- amplified, automatic level for application with high pollution or high humidity

Supply / operating condition

Scope of supply:

- control AERO_aH
- climatic sensor KS11 as put on sensor,
- climatic sensor KS10 with 3m cable and weather protection,
- assembly template
- fastening set (3 x plug und screw)
- operating instruction
- power supply with 2m cable

Operating conditions

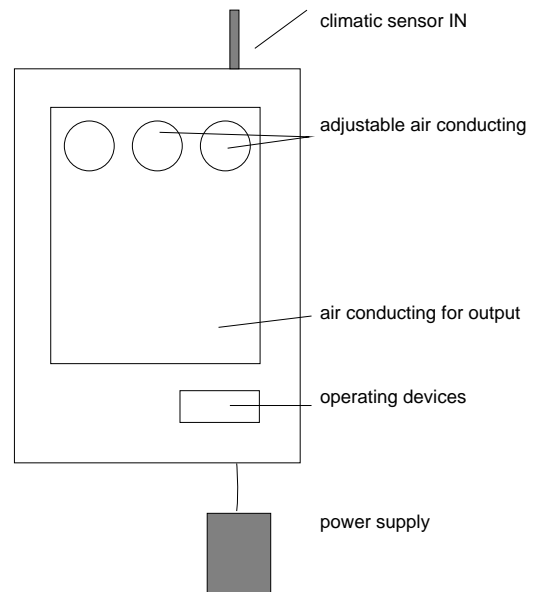
- temperature: 0...50 °C
- relative humidity: 85 % not condensed
- protection class: II
- EMV/ESD: EN50082-1/2

Technical data

Electronics / Mechanics

Technical data

desiccation capacity:	up to 8 kg water in 24h
air capacity per stream:	10 - 30 m ³ /h
noise level:	30 - 40 dB (A)
sound absorption:	Rw-1,9 = 31 dB Dn,w = 38 dB
operating devices:	2 toggle switch, 1 paddle
sensor connection:	with 5-fold screw connect
power demand:	10 - 15 W/h
power supply:	Netzteil 230VAC / 12VDC
current consumption:	0,06 A



Assembly / dimensions

Assembly plan:

1. pass on drill stencil
2. make wall opening
3. drill plug hole
4. cut tube and install
5. assembly weather protection 922
6. install fastening screws
7. lay cable (climatic OUT)
8. fasten AERO_aH
9. fasten sensor climatic OUT
10. connect sensor climatic IN
11. connect power supply

Further detail information see the enclosed assembly instruction

