2020-07-27

Datasheet HRV366-H500-S

Boundary conditions		
Flow rate extracted air	V_{11} [m³/h]	198
Temperature extracted air	t_{11} [°C]	25
Relative humitity extr. air	rF_{11} [%]	25
Temparature intake air	t_{21} [°C]	5
Relative humitity intake air	rF_{21} [%]	70
Temperature supply air	t_{22} [°C]	23,1
Relative humitity supply air	rF_{22} [%]	21,6
Temperature exhaust air	t_{12} [°C]	6,9
Relative humitity exhaust air	rF_{12} [%]	79,7
Barometric pressure	p_{atm} [Pa]	97500
Mass flow ratio	M_1/M_2	1
Condensate	m_C [ml/h]	no condensate

Information

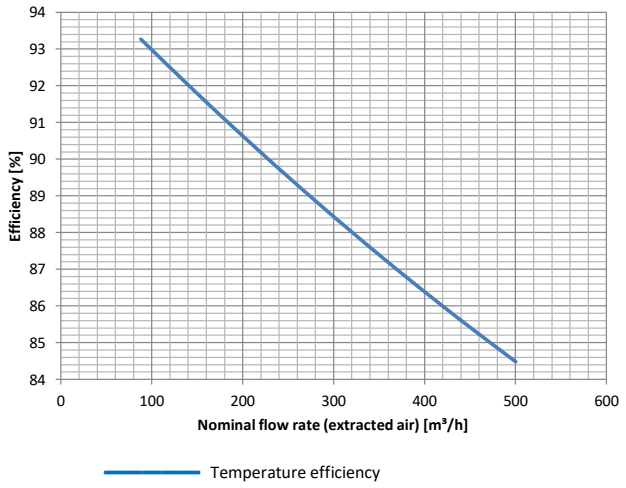
The values shown in the charts and tables are based on calculations and experience. It is only an orientation for the operating range of the heat exchanger under ideal conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of the fans etc. can have a strong influence on the operation conditions of the heat exchanger. The actual values to be achieved can only be determined by a corresponding measurement. Furthermore the occurrence and amount of condensate or ice depends on the boundary conditions and on the properties of the surrounding structure. In the case of condensation or freezing, the characteristic of the heat exchanger can change over time what could cause deviations of the values

Temperature efficiency η_t	**90,7%**
Humidity efficiency η_x	**0,0%**

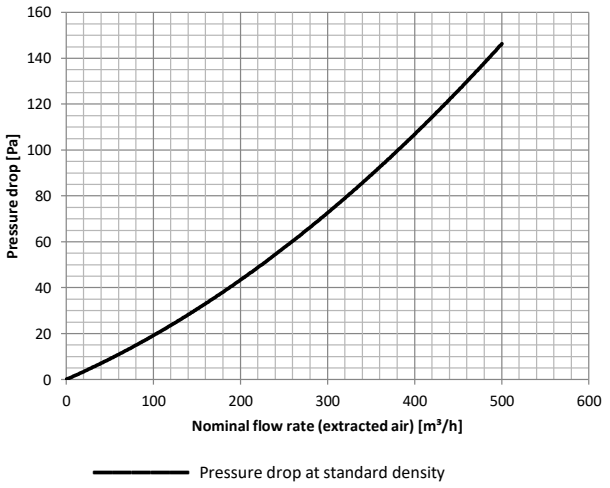
Pressure drop Δp	**43 Pa**
At entered flow rate and standard density 1,2 kg/m³ dry air.	

According boundary conditions (see above) following DIN EN 308:1997-06 Heat exchangers - Test procedures for establishing performance of air to air and flue gases heat recovery devices.

Efficiency



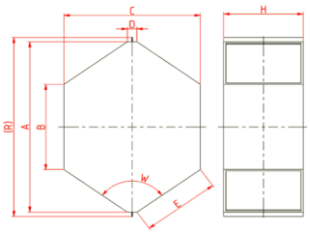
Pressure drop



Value table

Nominal flow rate (extracted air)	Temperature efficiency	Humidity efficiency
V	η_t	η_x
m³/h	%	%
88	93,3	#N/D
147	91,9	#N/D
206	90,5	#N/D
265	89,2	#N/D
324	87,9	#N/D
383	86,7	#N/D
441	85,6	#N/D
500	84,5	#N/D

Dimensions (with standard casing)



A	366 mm
B	194 mm
C	366 mm
D	10 mm
E	198 mm
W	128 °
H	500 mm
R (optional)	386 mm

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