

Boundary conditions

Flow rate extracted air	V_{11} [m ³ /h]	159
Temperature extracted air	t_{11} [°C]	25
Relative humidity extr. air	rF_{11} [%]	50
Temperature intake air	t_{21} [°C]	5
Relative humidity intake air	rF_{21} [%]	70
Temperature supply air	t_{22} [°C]	21,2
Relative humidity supply air	rF_{22} [%]	50,7
Temperature exhaust air	t_{12} [°C]	8,8
Relative humidity exhaust air	rF_{12} [%]	81,3
Barometric pressure	p_{atm} [Pa]	97500
Mass flow ratio	M_1/M_2	1
Condensate	m_c [ml/h]	no condensate

Information

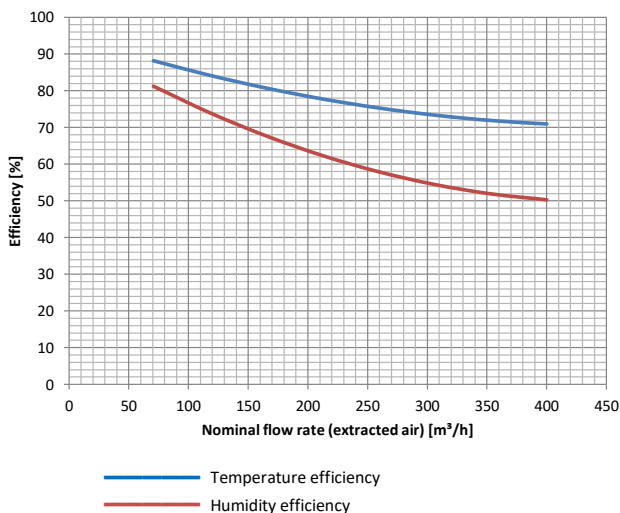
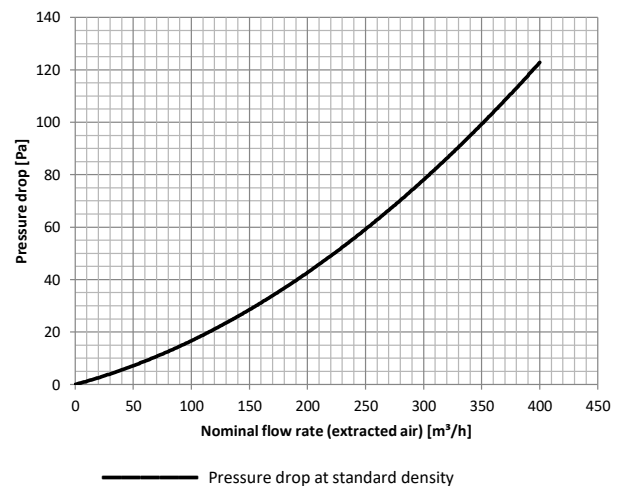
The values shown in the charts and tables are based on calculations and experience. It is only an orientation for the operating range of the heat exchanger under ideal conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of the fans etc. can have a strong influence on the 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	81,2%
Humidity efficiency η_x	68,5%

Pressure drop Δp	31 Pa
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At entered flow rate and standard density 1,2 kg/m³ dry air.

According to 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
m ³ /h	%	%
71	88,2	81,2
118	84,2	74,0
165	80,8	67,7
212	77,8	62,4
259	75,3	58,0
306	73,4	54,5
353	71,9	51,9
400	70,9	50,3

Dimensions (with standard casing)