

**Boundary conditions**

Flow rate extracted air	$V_{11}$ [m <sup>3</sup> /h]	139
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	$rF_{22}$ [%]	50,8
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**

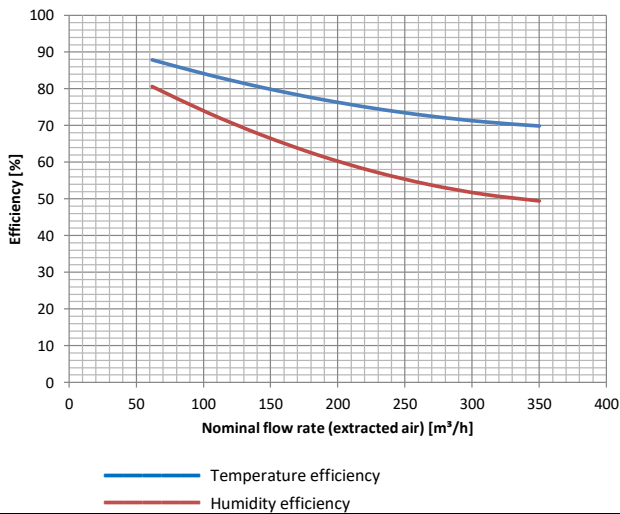
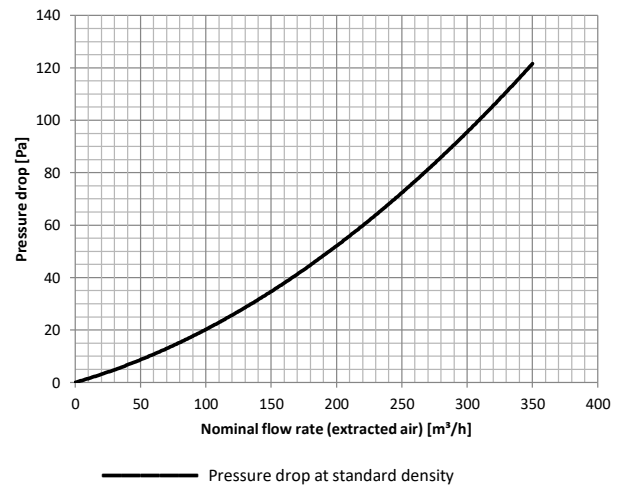
The values shown in the charts and tables are based on calculations and experience. It is only an orientation for the operating range of the heat exchanger under ideal conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of the fans etc. can have a strong influence on the 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 $\eta_t$	80,8%
Humidity efficiency $\eta_x$	68,0%

Pressure drop $\Delta p$	31 Pa
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At entered flow rate and standard density 1,2 kg/m<sup>3</sup> 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	$\eta_t$	$\eta_x$
m <sup>3</sup> /h	%	%
62	87,9	80,6
103	83,9	73,5
144	80,3	67,3
185	77,3	61,9
227	74,7	57,5
268	72,6	53,9
309	71,0	51,2
350	69,9	49,4

**Dimensions (with standard casing)**