## Datasheet ERV366-H500

Information



Boundary conditions	-	
Flow rate extracted air	V <sub>11</sub> [m³/h]	198
Temperature extracted air	t <sub>11</sub> [°C]	25
Relative humitity extr. air	rF <sub>11</sub> [%]	50
Temparature intake air	t <sub>21</sub> [°C]	5
Relative humitity intake air	rF <sub>21</sub> [%]	70
Temperature supply air	t <sub>22</sub> [°C]	21,4
Relative humitity supply air	rF <sub>22</sub> [%]	50,4
Temperature exhaust air	t <sub>12</sub> [°C]	8,6
Relative humitity exhaust air	rF <sub>12</sub> [%]	81,7
Barometric pressure	p <sub>atm</sub> [Pa]	97500
Mass flow ratio	$M_1/M_2$	1
Condensate	m <sub>C</sub> [ml/h]	no condensate

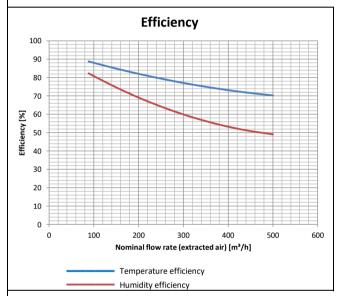
The values shown in the charts and tables are based on calculations and experience
It is only an orientation for the operating range of the heat exchanger under ideal
conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of
the fans etc. can have a strong influence on the operation conditions of the heat
eychanger. The actual values to be achieved can only be determined by a

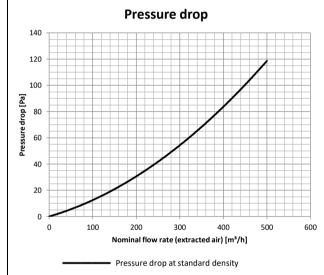
conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of the fans etc. can have a strong influence on the operation conditions of the heat exchanger. The actual values to be achieved can only be determined by a corresponding measurement. Furthermore the occurrence and amount 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 $\eta_t$	82,1%
Humidity efficiency $\eta_x$	69,3%

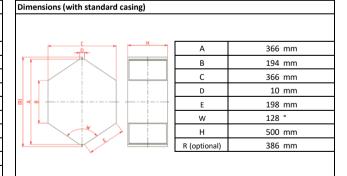
Pressure drop Δp	30 Pa
At entered flow rate and standard density 1,2 kg/m³ dry air.	

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.





Value table		
Nominal flow rate (extracted air)	Temperature efficiency	Humidity efficiency
V	$\eta_{t}$	$\eta_{x}$
m³/h	%	%
88	88,8	82,3
147	85,1	75,0
206	81,7	68,5
265	78,7	62,9
324	76,1	58,1
382	73,8	54,2
441	71,8	51,2
500	70,3	49,1



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