Datasheet ERV366-H350

Information



Boundary conditions		
Flow rate extracted air	V ₁₁ [m³/h]	139
Temperature extracted air	t ₁₁ [°C]	25
Relative humitity extr. air	rF ₁₁ [%]	50
Temparature intake air	t ₂₁ [°C]	5
Relative humitity intake air	rF ₂₁ [%]	70
Temperature supply air	t ₂₂ [°C]	21,2
Relative humitity supply air	rF ₂₂ [%]	50,8
Temperature exhaust air	t ₁₂ [°C]	8,8
Relative humitity 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

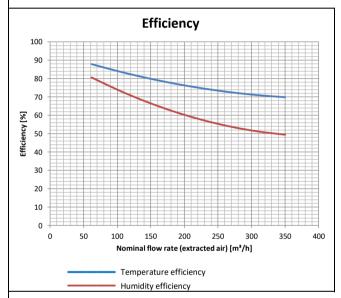
The values shown in the charts and tables are based on calculations and experience.
It is only an orientation for the operating range of the heat exchanger under ideal
conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement of
the fans etc. can have a strong influence on the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

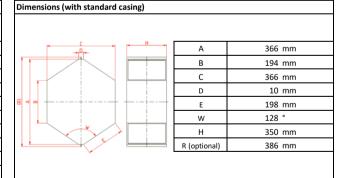
Pressure drop Δp	31 Pa	
At entered flow rate and standard density 1,2 kg/m³ dry air.		

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.



	140			ressu					_
	120							/	#
	100						/		
Pressure drop [Pa]	80					/			
ressure	60								
•	40			/					
	20		/						
	0 0	50	100	150	200	250	300	350	4
			Nomi	inal flow ra	ate (extra	cted air) [r	m³/h]		

Value table		
Nominal flow rate (extracted air)	Temperature efficiency	Humidity efficiency
V	η_t	η_x
m³/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



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