Datasheet ERV366-H345

Information



Boundary conditions				
Flow rate extracted air	V ₁₁ [m³/h]	137		
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]	21,1		
Relative humitity supply air	rF ₂₂ [%]	50,8		
Temperature exhaust air	t ₁₂ [°C]	8,9		
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		

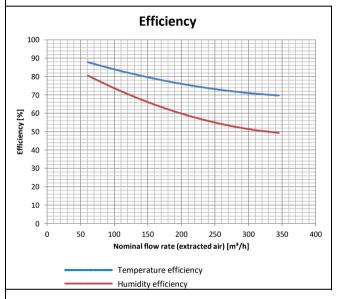
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	The values shown in the charts and tables are based on calculations and experience.
	It is only an orientation for the operating range of the heat exchanger under ideal
	conditions. Criteria such as inflow, insulation, leakage, orientation, arrangement 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

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

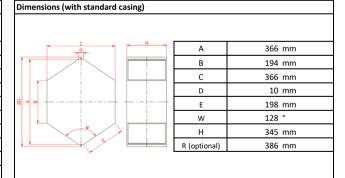
Temperature efficiency $\eta_{\rm t}$	80,7%
Humidity efficiency $\eta_{\scriptscriptstyle X}$	68,0%

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								#
	120							/	#
	100						/		Ħ
Pressure drop [Pa]	80					/			
ressure	60				/				
•	40			/					Ħ
	20	سر	/						Ħ
	0 0	50	100	150	200	250	300	350	4
			Nomi	nal flow ra	ate (extra	cted air) [r	n³/h]		

Value table					
Nominal flow rate (extracted air)	Temperature efficiency	Humidity efficiency			
V	η_{t}	η_x			
m³/h	%	%			
61	87,8	80,5			
102	83,8	73,4			
142	80,3	67,2			
183	77,2	61,9			
223	74,6	57,4			
264	72,5	53,8			
304	70,9	51,1			
345	69,7	49,3			



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