Project:
Customer:

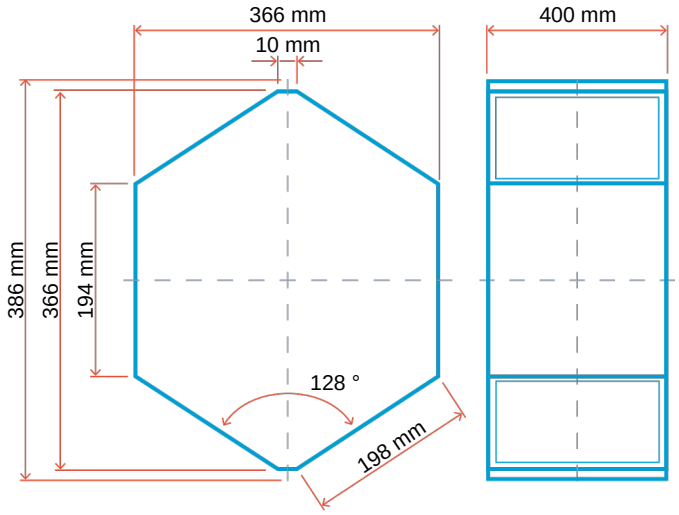
RC160-H400

Product information

Exchanger	Sensible Heat Exchanger
Exchanger model	RC160
Exchanger height	400 mm
Weight	4.1 kg
Barometric pressure	97500 Pa
Calculation standard	EN308:2022

Inputs are to standard EN13141

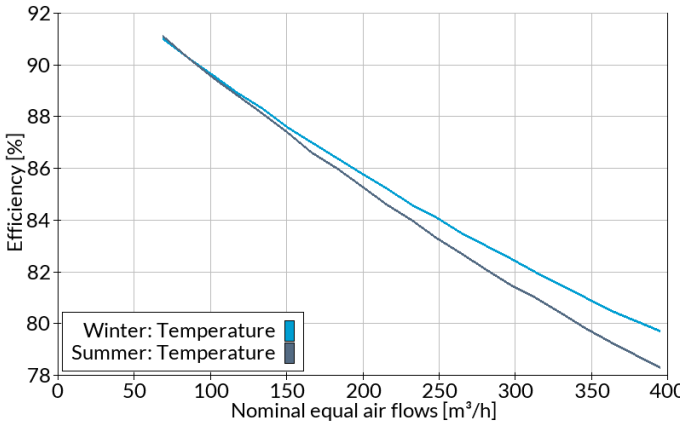
Dimensions



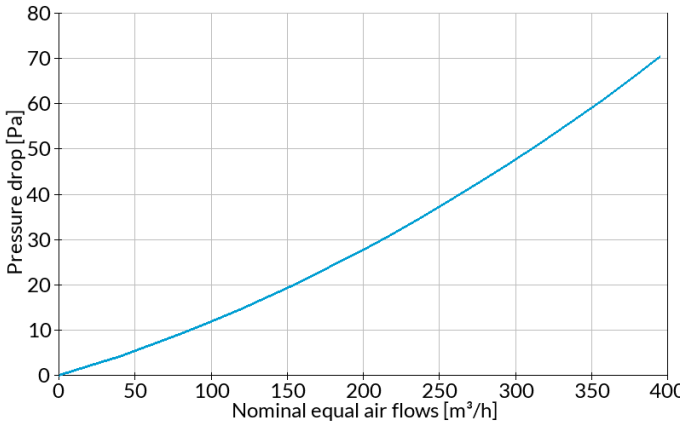
Results

	Winter	Summer	
Temperature efficiency	85.7	85.3	%
Pressure drop (OA / EA)	28 / 28	28 / 28	Pa
Condensate	0.00	0.00	kg/h
Heat recovery dry	720	540	W
Total energy recovery	725	559	W
Outside air:			
Air flow	191	207	m³/h
Temperature	7.0	35.0	°C
Relative humidity	60	50	%
Absolute humidity	3.86	18.45	g/kg
Enthalpy	16.7	82.6	kJ/kg
Supply air:			
Air flow	199	202	m³/h
Temperature	18.1	26.5	°C
Relative humidity	29	81	%
Absolute humidity	3.86	18.45	g/kg
Enthalpy	28.0	73.7	kJ/kg
Extract air:			
Air flow	200	200	m³/h
Temperature	20.0	25.0	°C
Relative humidity	38	60	%
Absolute humidity	5.71	12.35	g/kg
Enthalpy	34.6	56.6	kJ/kg
Exhaust air:			
Air flow	193	206	m³/h
Temperature	9.4	33.8	°C
Relative humidity	75	36	%
Absolute humidity	5.71	12.35	g/kg
Enthalpy	23.8	65.7	kJ/kg

Efficiency



Pressure drop



The values shown above are based on calculations and experience, and show the operating range of the heat exchanger under ideal conditions. Criteria such as inflow, insulation, leakage, orientation, fan-arrangement etc. can have a strong influence on the operation conditions of the heat exchanger. The actual values of a ventilation unit to be achieved can only be determined by a corresponding measurement. The occurrence and amount of condensate or ice depends on boundary conditions and properties of the surrounding structure. Condensation or freezing can change the characteristic of a heat exchanger over time and deviations to the values in the datasheet are possible. The efficiencies were determined according to EN308:2022 test type A1 for standard conditions and nominal flow rate.