

Input

Air temperature	35 °C
Relative humidity	20 %
Airflow	4 000 m ³ /h
Altitude	0 m.a.s.l.
Evaporator temperature	10 °C
Condensing temperature	35 °C
Superheat	6 °C
Piping length	5 m
Compressor speed	120 Hz

Results

Sensible cooling capacity	24,72 kW
Fan heat	0,89 kW
Net sensible cooling capacity	23,84 kW
Temperature difference	17,8 °C
Outlet air temperature	17,2 °C
Outlet relative humidity	57,1 %
Total cooling capacity	24,72 kW
Compressor power consumption	10,51 kW
EER	2,35 kW/kW
Compressor reserve	6,8 %
Condenser capacity	35,24 kW
Amount of condensate water	0,00 l/h
Power lost by condensation	0,00 kW



Recommended condenser: AC-CONDx-01-35 ...
up to 35°C of ambient air

Hx-diagram



