

Data sheet



Project: C1121 Rabone DC
Editor: Martin Bennett
Date : 25.06.2015

Unit

Unit type:	ASD 812 A		
Cooling capacity (total):	80.1 kW	Airflow:	16,980 m ³ /h
Cooling capacity (sensible):	80.1 kW	Air velocity:	2.1 m/s
Net total cooling capacity:	78.5 kW	Return air temperature:	28 °C
Net sensible cooling capacity:	78.5 kW	Return air humidity:	40 rel.%
Condensing temperature:	50 °C	Supply air temperature:	14 °C
EER:	4.05 kW/kW	Altitude above sea level:	0 m
Sound power level:	75.1 dB(A)	Height:	1,980 mm
LpA (2m freefield):	54.2 dB(A)	Width:	2,550 mm
Number of refrigerant circuits:	2	Depth:	890 mm
Number of compressors:	2	Weight:	826 kg
		Refrigerant:	R407C
		Frequency:	50 Hz

Fan (Data per unit)

Fan type:	R3G595	Power consumption:	1.6 kW
Number:	3	ESP external static pressure:	20 Pa
Max. revolutions:	1,412 U/min	Total pressure drop:	210 Pa
Nominal power:	8.7 kW	Control voltage:	5.3 V
Revolutions:	781 rpm	Motor-efficiency:	85

Compressor (Data per compressor)

Electrical power consumption:	9.1 kW
Heat rejection:	49.3 kW
COP:	4.38 kW/kW
Number:	2
Evaporating temperature:	11.1 °C

Condenser

Unit type:	KSV045A21p	Weight:	127 kg
Ambient temperature:	35 °C	Current consumption (per fan):	2.40 A
Sound pressure group:	Standard	Power consumption (per fan):	0.55 kW
Required condenser capacity:	49.3 kW	Height:	990 mm
Available condenser capacity:	52.1 kW	Width:	1,860 mm
Difference:	5.7 %	Depth:	920 mm
Number of fans:	2	Airflow:	12,100 m ³ /h
Number of condensers:	2	LpA (5m freefield):	54.6 dB(A)