



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM80CUM
Created By : KONG CHU YEE

Customer Input

Selected Model / Type : UAM80CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 35.0 °C Frequency : 60 Hz
Chilled Water : EWT 12.00 °C Voltage : 380 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity	:		80.21	80.21	TR
			282.1	282.1	kW
Current	:	Compressor	167	167	A
		Fan	21	21	A
		Total	188	188	A
Power Input	:	Compressor	89.90	89.90	kW
		Fan	9.000	9.000	kW
		Total	98.90	98.90	kW
COP	:		2.852	2.852	kW/kW
Flow Rate	:		48.58	48.58	m ³ /h
Pressure Drop	:		68.3	68.3	kPa
Note	:	1. Nominal data is based on the AHRI (551/591) standard condition of EWT/LWT of 12.00/7.00°C, and ambient temperature of 35.0°C. 2. Input Condition data is based on customer's input condition of EWT/LWT , and ambient temperature. 3. Evaporator rating fouling factor = 0.018 m ² .K/kW, and rating altitude at 0 m.			

Part Load Performance

IPLV	:	-										kW/kW
Point	:	1	2	3	3	4	4	-	-	-	-	
Corresponding Capacity	:	100.0	55.6	60.6	40.4	42.6	42.6	-	-	-	-	%
Total Cooling Capacity	:	80.21	44.60	48.61	32.40	34.21	34.21	-	-	-	-	TR
Total Cooling Capacity	:	282.1	156.9	171.0	114.0	120.3	120.3	-	-	-	-	kW
Total Power Input	:	98.90	46.40	38.20	25.47	23.11	23.11	-	-	-	-	kW
Total Current	:	188	94	81	54	52	52	-	-	-	-	A
COP	:	2.852	3.381	4.475	4.475	5.206	5.206	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	19.0	19.0	13.0	13.0	-	-	-	-	°C
EEWT	:	12.00	9.78	10.03	9.02	9.13	9.13	-	-	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate	:	48.58	48.58	48.58	48.58	48.58	48.58	-	-	-	-	m³/h
Pressure Drop	:	68.3	68.3	68.3	68.3	68.3	68.3	-	-	-	-	kPa

Others

MCA	:	226		A
No. of Refrigerant Circuit	:	2		-
Refrigerant Type	:	R410A		-
Refrigerant Charge	:	System 1/2	25.0 / 25.0	kg/System
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156	mm
Weight	:	Shipping	2819	kg
	:	Operating	2941	kg

Evaporator

Type	:	S&T		-
Inlet/Outlet Diameter	:	5" Victaulic Joint		-
Flow Rate	:	Min / Max	12.60 / 52.30	m ³ /h
Pressure Drop	:	Min / Max	7.00 / 76.0	kPa

Compressor

Quantity	:	System 1/2	3 / 3	-
Type	:	Hermetic-sealed (Scroll)		-
Oil Charge	:	System 1/2	20.1 / 20.1	L/System

Condenser

Coil	:			-
Tube	:	Type	Copper Tube	-
Fin	:	Type	Aluminium Fin	-
Surface Area/ Coil	:	11.52		m ² /Coil
Fan	:			-
Type/ Drive	:	Axial / Direct		-
Quantity per System	:	3		-

Note : For any enquiry, please contact your authorized sales agent.

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