



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM60Hz
Created By : KONG CHU YEE

Customer Input

Selected Model / Type : UAM80CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		80.99		80.99	TR
		284.8		284.8	kW
Current	Compressor	161		161	A
	Fan	18		18	A
	Total	179		179	A
Power Input	Compressor	92.19		92.19	kW
	Fan	12.00		12.00	kW
	Total	104.2		104.2	kW
COP		2.734		2.734	kW/kW
Flow Rate		49.05		49.05	m ³ /h
Pressure Drop		38.1		38.1	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	2	3	3	-	-	-	-
Corresponding Capacity		100.0	81.0	61.7	55.1	33.8	-	-	-	-
Total Cooling Capacity		80.99	65.57	49.99	44.60	27.38	-	-	-	-
Total Cooling Capacity		284.8	230.6	175.8	156.8	96.28	-	-	-	-
Total Power Input		104.2	66.49	51.72	37.53	22.77	-	-	-	-
Total Current		179	118	93	69	43	-	-	-	-
COP		2.734	3.469	3.399	4.179	4.228	-	-	-	-
Ambient Temperature		35.0	27.0	27.0	19.0	19.0	-	-	-	-
EEWT		12.00	11.05	10.09	9.75	8.69	-	-	-	-
ELWT		7.00	7.00	7.00	7.00	7.00	-	-	-	-
Flow Rate		49.05	49.05	49.05	49.05	49.05	-	-	-	-
Pressure Drop		38.1	38.1	38.1	38.1	38.1	-	-	-	-

Others

MCA		223	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	2917	kg
	Operating	3039	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	15.00 / 56.70	m ³ /h
Pressure Drop	Min / Max	5.00 / 47.0	kPa

Compressor

Quantity	System 1/2	2 / 2	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	13.4 / 13.4	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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