



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM
Created By : Siti Nor Aqilah binti Ahmad

Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 20.00 °C Voltage : 380-415 V
LWT 13.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance			Nominal Data (AHRI Standard)		Input Conditions		
Cooling Capacity	:		59.27		72.98		TR
			208.5		256.7		kW
Current	:	Compressor	115		116		A
		Fan	18		18		A
		Total	133		134		A
Power Input	:	Compressor	67.18		67.46		kW
		Fan	12.00		12.00		kW
		Total	79.18		79.46		kW
COP	:		2.633		3.230		kW/kW
Flow Rate	:		35.90		31.57		m³/h
Pressure Drop	:		37.9		30.8		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 m².K/kW, and rating altitude at 0 m.					

Part Load Performance

IPLV		3.850										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		72.98	54.73	36.49	18.24	-	-	-	-	-	-	TR
Total Cooling Capacity		256.7	192.5	128.3	64.17	-	-	-	-	-	-	kW
Total Power Input		79.46	60.60	39.73	20.87	-	-	-	-	-	-	kW
Total Current		134	102	67	35	-	-	-	-	-	-	A
COP		3.230	3.177	3.230	3.075	-	-	-	-	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	-	-	-	-	-	-	°C
EEWT		20.00	18.25	16.50	14.75	-	-	-	-	-	-	°C
ELWT		13.00	13.00	13.00	13.00	-	-	-	-	-	-	°C
Flow Rate		31.57	31.57	31.57	31.57	-	-	-	-	-	-	m ³ /h
Pressure Drop		30.8	30.8	30.8	30.8	-	-	-	-	-	-	kPa

Others

MCA		164										A
No. of Refrigerant Circuit		2										-
Refrigerant Type		R410A										-
Refrigerant Charge	System 1/2	21.0 / 21.0										kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156										mm
Weight	Shipping	2052										kg
	Operating	2174										kg

Evaporator

Type		S&T										-
Inlet/Outlet Diameter		4" Victaulic Joint										-
Flow Rate	Min / Max	13.70 / 61.20										m ³ /h
Pressure Drop	Min / Max	7.00 / 90.0										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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