



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Philips
Created By : Ch'ng Swee Guan

Customer Input

Selected Model / Type : UAM40CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 45.0 °C Frequency : 50 Hz
Chilled Water : EWT 14.00 °C Voltage : 380-415 V
LWT 9.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity		40.01		36.62	TR
		140.7		128.8	kW
Current	Compressor	81		95	A
	Fan	9		9	A
	Total	90		104	A
Power Input	Compressor	46.08		56.83	kW
	Fan	6.000		6.000	kW
	Total	52.08		62.83	kW
COP		2.702		2.050	kW/kW
Flow Rate		21.83		22.18	m ³ /h
Pressure Drop		41.0		42.4	kPa

Note :
1. Nominal data is based on the MS2449 standard condition of EWT/LWT of 12.22/6.67°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

MPLV		3.394								kW/kW
Point		1	2	3	4	-	-	-	-	-
Corresponding Capacity		100.0	105.3	49.5	51.0	-	-	-	-	-
Total Cooling Capacity		40.01	42.13	19.82	20.41	-	-	-	-	-
Total Cooling Capacity		140.7	148.2	69.71	71.80	-	-	-	-	-
Total Power Input		52.08	48.88	19.62	18.82	-	-	-	-	-
Total Current		90	86	35	34	-	-	-	-	-
COP		2.702	3.031	3.552	3.816	-	-	-	-	-
Ambient Temperature		35.0	31.5	27.9	25.6	-	-	-	-	-
EEWT		12.22	12.51	9.42	9.50	-	-	-	-	-
ELWT		6.67	6.67	6.67	6.67	-	-	-	-	-
Flow Rate		21.83	21.83	21.83	21.83	-	-	-	-	-
Pressure Drop		41.0	41.0	41.0	41.0	-	-	-	-	-

Others

MCA		118	A
No. of Refrigerant Circuit		1	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	25.0 / -	kg/System
Chiller Dimension	W / D / H	1146 / 3282 / 2156	mm
Weight	Shipping	1130	kg
	Operating	1139	kg

Evaporator

Type		BPHE	-
Inlet/Outlet Diameter		2.5" Male BSPT	-
Flow Rate	Min / Max	10.00 / 32.50	m ³ /h
Pressure Drop	Min / Max	5.80 / 94.7	kPa

Compressor

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

Condenser

Coil			
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		5.76	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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