



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM60Hz
Created By : KONG CHU YEE

Customer Input

Selected Model / Type : UAM40CUM / 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		40.11		40.11	TR
		141.1		141.1	kW
Current	Compressor	84		84	A
	Fan	11		11	A
	Total	94		94	A
Power Input	Compressor	44.95		44.95	kW
	Fan	4.500		4.500	kW
	Total	49.45		49.45	kW
COP		2.852		2.852	kW/kW
Flow Rate		24.29		24.29	m ³ /h
Pressure Drop		51.5		51.5	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		3.921								kW/kW
Point		1	2	3	3	4	-	-	-	-
Corresponding Capacity		100.0	74.1	80.8	40.4	42.6	-	-	-	-
Total Cooling Capacity		40.11	29.74	32.40	16.20	17.10	-	-	-	-
Total Cooling Capacity		141.1	104.6	114.0	56.98	60.15	-	-	-	-
Total Power Input		49.45	28.93	25.47	14.23	13.05	-	-	-	-
Total Current		94	58	54	31	30	-	-	-	-
COP		2.852	3.615	4.475	4.003	4.608	-	-	-	-
Ambient Temperature		35.0	27.0	19.0	19.0	13.0	-	-	-	-
EEWT		12.00	10.71	11.04	9.02	9.13	-	-	-	-
ELWT		7.00	7.00	7.00	7.00	7.00	-	-	-	-
Flow Rate		24.29	24.29	24.29	24.29	24.29	-	-	-	-
Pressure Drop		51.5	51.5	51.5	51.5	51.5	-	-	-	-

Others

MCA		117	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	1078	kg
	Operating	1087	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	3 / -	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	20.1 / -	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	-