



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM100CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 38.0 °C Frequency : 60 Hz
Chilled Water : EWT 13.00 °C Voltage : 380 V
LWT 6.50 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		70.63		66.19	TR
		248.4		232.8	kW
Current	Compressor	146		153	A
	Fan	28		28	A
	Total	174		181	A
Power Input	Compressor	79.43		84.08	kW
	Fan	12.00		12.00	kW
	Total	91.43		96.08	kW
COP		2.717		2.423	kW/kW
Flow Rate		42.78		30.84	m ³ /h
Pressure Drop		36.7		21.8	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 m ² .K/kW, and rating altitude at 0 m.				

Part Load Performance

IPLV		-										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	100.0	100.0	50.0	50.0	50.0	-	-	-	-	%
Total Cooling Capacity		41.12	41.12	41.12	20.56	20.56	20.56	-	-	-	-	TR
Total Cooling Capacity		144.6	144.6	144.6	72.31	72.31	72.31	-	-	-	-	kW
Total Power Input		64.45	61.45	58.45	35.22	32.22	29.22	-	-	-	-	kW
Total Current		123	116	109	69	62	55	-	-	-	-	A
COP		2.244	2.353	2.474	2.053	2.244	2.474	-	-	-	-	kW/kW
Ambient Temperature		38.0	38.0	38.0	38.0	38.0	38.0	-	-	-	-	°C
EEWT		13.00	13.00	13.00	9.75	9.75	9.75	-	-	-	-	°C
ELWT		6.50	6.50	6.50	6.50	6.50	6.50	-	-	-	-	°C
Flow Rate		19.16	19.16	19.16	19.16	19.16	19.16	-	-	-	-	m ³ /h
Pressure Drop		9.33	9.33	9.33	9.33	9.33	9.33	-	-	-	-	kPa

Others

MCA		150	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	35.0 / 35.0	kg/System
Chiller Dimension	W / D / H	2237 / 4163 / 2156	mm
Weight	Shipping	2920	kg
	Operating	3111	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	16.40 / 70.40	m ³ /h
Pressure Drop	Min / Max	7.00 / 79.0	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		15.36	m ² /Coil
Fan			
Type/ Drive		Axial / Direct	-
Quantity per System		4	-

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

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Page : 1/2