



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM Quotation
Created By : Nur Athirah Binti Abdullah

Customer Input

Selected Model / Type : UAM100CUM / 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 (MS Standard)		Input Conditions	
Cooling Capacity		69.81		70.63	TR
		245.5		248.4	kW
Current	Compressor	146		146	A
	Fan	28		28	A
	Total	174		174	A
Power Input	Compressor	79.36		79.43	kW
	Fan	12.00		12.00	kW
	Total	91.36		91.43	kW
COP		2.687		2.717	kW/kW
Flow Rate		38.09		42.78	m ³ /h
Pressure Drop		30.6		36.7	kPa

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

MPLV		3.286										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		43.90	43.90	43.90	21.95	21.95	21.95	-	-	-	-	TR
Total Cooling Capacity		154.4	154.4	154.4	77.19	77.19	77.19	-	-	-	-	kW
Total Power Input		61.46	58.46	55.46	33.73	30.73	27.73	-	-	-	-	kW
Total Current		118	111	104	66	59	52	-	-	-	-	A
COP		2.512	2.641	2.784	2.289	2.512	2.784	-	-	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	35.0	35.0	-	-	-	-	°C
EEWT		12.00	12.00	12.00	9.50	9.50	9.50	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate		26.59	26.59	26.59	26.59	26.59	26.59	-	-	-	-	m ³ /h
Pressure Drop		17.0	17.0	17.0	17.0	17.0	17.0	-	-	-	-	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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