



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang
Created By : DRMSA Software

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 (AHRI Standard)			Input Conditions		
Cooling Capacity			70.63		70.63		TR
			248.4		248.4		kW
Current	Compressor		146		146		A
	Fan		28		28		A
	Total		174		174		A
Power Input	Compressor		79.43		79.43		kW
	Fan		12.00		12.00		kW
	Total		91.43		91.43		kW
COP			2.717		2.717		kW/kW
Flow Rate			42.78		42.78		m ³ /h
Pressure Drop			36.7		36.7		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	3	4	-	-	-	-	-	-	
Corresponding Capacity		100.0	122.3	64.9	-	-	-	-	-	-	%
Total Cooling Capacity		43.90	53.69	28.48	-	-	-	-	-	-	TR
Total Cooling Capacity		154.4	188.8	100.2	-	-	-	-	-	-	kW
Total Power Input		61.46	42.55	19.52	-	-	-	-	-	-	kW
Total Current		118	84	40	-	-	-	-	-	-	A
COP		2.512	4.438	5.131	-	-	-	-	-	-	kW/kW
Ambient Temperature		35.0	19.0	13.0	-	-	-	-	-	-	°C
EEWT		12.00	13.12	10.24	-	-	-	-	-	-	°C
ELWT		7.00	7.00	7.00	-	-	-	-	-	-	°C
Flow Rate		26.59	26.59	26.59	-	-	-	-	-	-	m ³ /h
Pressure Drop		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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