



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM60Hz
Created By : KONG CHU YEE

Customer Input

Selected Model / Type : UAM60CUM / 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		61.92		61.92	TR
		217.8		217.8	kW
Current	Compressor	132		132	A
	Fan	21		21	A
	Total	153		153	A
Power Input	Compressor	70.76		70.76	kW
	Fan	9.000		9.000	kW
	Total	79.76		79.76	kW
COP		2.730		2.730	kW/kW
Flow Rate		37.50		37.50	m ³ /h
Pressure Drop		40.7		40.7	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		3.988								kW/kW
Point		1	2	2	3	3	4	-	-	-
Corresponding Capacity		100.0	79.9	64.1	52.7	35.3	28.2	-	-	-
Total Cooling Capacity		61.92	49.49	39.69	32.66	21.84	17.43	-	-	-
Total Cooling Capacity		217.8	174.1	139.6	114.9	76.80	61.31	-	-	-
Total Power Input		79.76	50.14	40.32	27.36	17.46	12.08	-	-	-
Total Current		153	103	78	63	36	30	-	-	-
COP		2.730	3.472	3.462	4.198	4.398	5.076	-	-	-
Ambient Temperature		35.0	27.0	27.0	19.0	19.0	13.0	-	-	-
EEWT		12.00	11.00	10.21	9.64	8.76	8.41	-	-	-
ELWT		7.00	7.00	7.00	7.00	7.00	7.00	-	-	-
Flow Rate		37.50	37.50	37.50	37.50	37.50	37.50	-	-	-
Pressure Drop		40.7	40.7	40.7	40.7	40.7	40.7	-	-	-

Others

MCA		187	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	21.0 / 21.0	kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156	mm
Weight	Shipping	2052	kg
	Operating	2174	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		4" Victaulic Joint	-
Flow Rate	Min / Max	13.70 / 61.20	m ³ /h
Pressure Drop	Min / Max	7.00 / 90.0	kPa

Compressor

Quantity	System 1/2	2 / 2	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	10.3 / 10.3	L/System

Condenser

Coil			
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		11.52	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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