



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM80CUM / 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		80.21		75.21	TR
		282.1		264.5	kW
Current	Compressor	167		174	A
	Fan	21		21	A
	Total	188		195	A
Power Input	Compressor	89.90		94.89	kW
	Fan	9.000		9.000	kW
	Total	98.90		103.9	kW
COP		2.852		2.546	kW/kW
Flow Rate		48.58		35.04	m ³ /h
Pressure Drop		68.3		41.7	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 m².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	83.3	66.7	50.0	33.3	16.7	-	-	-	-	%
Total Cooling Capacity		75.21	62.68	50.14	37.61	25.07	12.54	-	-	-	-	TR
Total Cooling Capacity		264.5	220.4	176.3	132.3	88.17	44.09	-	-	-	-	kW
Total Power Input		103.9	86.58	69.26	51.95	34.63	17.32	-	-	-	-	kW
Total Current		195	163	130	98	65	33	-	-	-	-	A
COP		2.546	2.546	2.546	2.546	2.546	2.546	-	-	-	-	kW/kW
Ambient Temperature		38.0	38.0	38.0	38.0	38.0	38.0	-	-	-	-	°C
EEWT		13.00	11.92	10.83	9.75	8.67	7.58	-	-	-	-	°C
ELWT		6.50	6.50	6.50	6.50	6.50	6.50	-	-	-	-	°C
Flow Rate		35.04	35.04	35.04	35.04	35.04	35.04	-	-	-	-	m ³ /h
Pressure Drop		41.7	41.7	41.7	41.7	41.7	41.7	-	-	-	-	kPa

Others

MCA		226	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	25.0 / 25.0	kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156	mm
Weight	Shipping	2819	kg
	Operating	2941	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	12.60 / 52.30	m ³ /h
Pressure Drop	Min / Max	7.00 / 76.0	kPa

Compressor

Quantity	System 1/2	3 / 3	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	20.1 / 20.1	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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