



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM40CUM / 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		40.11		37.61	TR
		141.1		132.3	kW
Current	Compressor	84		87	A
	Fan	11		11	A
	Total	94		98	A
Power Input	Compressor	44.95		47.45	kW
	Fan	4.500		4.500	kW
	Total	49.45		51.95	kW
COP		2.852		2.546	kW/kW
Flow Rate		24.29		17.52	m ³ /h
Pressure Drop		51.5		25.2	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	:	3.921										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	66.7	33.3	-	-	-	-	-	-	-	%
Total Cooling Capacity	:	37.61	25.07	12.54	-	-	-	-	-	-	-	TR
Total Cooling Capacity	:	132.3	88.17	44.09	-	-	-	-	-	-	-	kW
Total Power Input	:	51.95	34.63	17.32	-	-	-	-	-	-	-	kW
Total Current	:	98	65	33	-	-	-	-	-	-	-	A
COP	:	2.546	2.546	2.546	-	-	-	-	-	-	-	kW/kW
Ambient Temperature	:	38.0	38.0	38.0	-	-	-	-	-	-	-	°C
EEWT	:	13.00	10.83	8.67	-	-	-	-	-	-	-	°C
ELWT	:	6.50	6.50	6.50	-	-	-	-	-	-	-	°C
Flow Rate	:	17.52	17.52	17.52	-	-	-	-	-	-	-	m³/h
Pressure Drop	:	25.2	25.2	25.2	-	-	-	-	-	-	-	kPa

Others

MCA		117	A
No. of Refrigerant Circuit		1	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	25.0 / -	kg/System
Chiller Dimension	W / D / H	1146 / 3282 / 2156	mm
Weight	Shipping	1078	kg
	Operating	1087	kg

Evaporator

Type		BPHE	-
Inlet/Outlet Diameter		2.5" Male BSPT	-
Flow Rate	Min / Max	10.00 / 32.50	m ³ /h
Pressure Drop	Min / Max	5.80 / 94.7	kPa

Compressor

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

Condenser

Coil			
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		5.76	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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