



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 38.0 °C Frequency : 50 Hz
Chilled Water : EWT 13.00 °C Voltage : 380-415 V
LWT 6.50 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		59.27		55.48	TR
		208.5		195.1	kW
Current	Compressor	115		121	A
	Fan	18		18	A
	Total	133		139	A
Power Input	Compressor	67.18		71.65	kW
	Fan	12.00		12.00	kW
	Total	79.18		83.65	kW
COP		2.633		2.332	kW/kW
Flow Rate		35.90		25.85	m ³ /h
Pressure Drop		37.9		22.1	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		3.850										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		55.48	41.61	27.74	13.87	-	-	-	-	-	-	TR
Total Cooling Capacity		195.1	146.3	97.56	48.78	-	-	-	-	-	-	kW
Total Power Input		83.65	63.74	41.83	21.91	-	-	-	-	-	-	kW
Total Current		139	106	70	37	-	-	-	-	-	-	A
COP		2.332	2.296	2.332	2.226	-	-	-	-	-	-	kW/kW
Ambient Temperature		38.0	38.0	38.0	38.0	-	-	-	-	-	-	°C
EEWT		13.00	11.38	9.75	8.13	-	-	-	-	-	-	°C
ELWT		6.50	6.50	6.50	6.50	-	-	-	-	-	-	°C
Flow Rate		25.85	25.85	25.85	25.85	-	-	-	-	-	-	m ³ /h
Pressure Drop		22.1	22.1	22.1	22.1	-	-	-	-	-	-	kPa

Others

MCA		164	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	13.4 / 13.4	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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