



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM80CFM / 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		80.99		75.81	TR
		284.8		266.6	kW
Current	Compressor	161		169	A
	Fan	18		18	A
	Total	179		187	A
Power Input	Compressor	92.19		98.05	kW
	Fan	12.00		12.00	kW
	Total	104.2		110.1	kW
COP		2.734		2.423	kW/kW
Flow Rate		49.05		35.32	m ³ /h
Pressure Drop		38.1		23.1	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 m ² .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	77.6	72.4	55.2	50.0	44.8	27.6	22.4	-	-	%
Total Cooling Capacity	:	75.81	58.84	54.88	41.87	37.91	33.94	20.93	16.97	-	-	TR
Total Cooling Capacity	:	266.6	206.9	193.0	147.3	133.3	119.4	73.63	59.68	-	-	kW
Total Power Input	:	110.1	86.30	80.79	62.54	55.03	51.52	31.27	25.76	-	-	kW
Total Current	:	187	147	137	106	94	87	53	44	-	-	A
COP	:	2.423	2.398	2.389	2.355	2.423	2.317	2.355	2.317	-	-	kW/kW
Ambient Temperature	:	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	-	-	°C
EEWT	:	13.00	11.54	11.21	10.09	9.75	9.41	8.29	7.96	-	-	°C
ELWT	:	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	-	-	°C
Flow Rate	:	35.32	35.32	35.32	35.32	35.32	35.32	35.32	35.32	-	-	m³/h
Pressure Drop	:	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	-	-	kPa

Others

MCA		223	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	2917	kg
	Operating	3039	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	15.00 / 56.70	m ³ /h
Pressure Drop	Min / Max	5.00 / 47.0	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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