



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM40CRM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 38.0 °C Frequency : 60 Hz
Chilled Water : EWT 13.00 °C Voltage : 460 V
LWT 6.50 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		39.85		37.32	TR
		140.2		131.3	kW
Current	Compressor	65		69	A
	Fan	12		12	A
	Total	77		81	A
Power Input	Compressor	44.79		47.57	kW
	Fan	7.200		7.200	kW
	Total	51.99		54.77	kW
COP		2.696		2.397	kW/kW
Flow Rate		24.14		17.39	m ³ /h
Pressure Drop		50.8		24.8	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		3.722										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	55.1	44.9	-	-	-	-	-	-	-	%
Total Cooling Capacity		37.32	20.56	16.76	-	-	-	-	-	-	-	TR
Total Cooling Capacity		131.3	72.31	58.96	-	-	-	-	-	-	-	kW
Total Power Input		54.77	31.02	26.14	-	-	-	-	-	-	-	kW
Total Current		81	47	39	-	-	-	-	-	-	-	A
COP		2.397	2.331	2.255	-	-	-	-	-	-	-	kW/kW
Ambient Temperature		38.0	38.0	38.0	-	-	-	-	-	-	-	°C
EEWT		13.00	10.08	9.42	-	-	-	-	-	-	-	°C
ELWT		6.50	6.50	6.50	-	-	-	-	-	-	-	°C
Flow Rate		17.39	17.39	17.39	-	-	-	-	-	-	-	m ³ /h
Pressure Drop		24.8	24.8	24.8	-	-	-	-	-	-	-	kPa

Others

MCA		102	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 / 2290	mm
Weight	Shipping	1079	kg
	Operating	1088	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	2 / -	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	13.4 / -	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.

CSQS.C01.S01

19-May, 2023 14:44

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