



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : test 3
Created By : Nur Athirah Binti Abdullah

Customer Input

Selected Model / Type : UAM80CUM / Fixed Speed Scroll Chiller Version B
Ambient Temperature : 35.0 °C Frequency : 60 Hz
Chilled Water : EWT 12.00 °C Voltage : 380 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity			79.28	80.21	TR
			278.8	282.1	kW
Current	Compressor		167	167	A
	Fan		21	21	A
	Total		188	188	A
Power Input	Compressor		89.81	89.90	kW
	Fan		9.000	9.000	kW
	Total		98.81	98.90	kW
COP			2.822	2.852	kW/kW
Flow Rate			43.26	48.58	m ³ /h
Pressure Drop			57.3	68.3	kPa

1. Nominal data is based on the MS2449 standard condition of EWT/LWT of 12.22/6.67°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

MPLV		3.368										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		80.21	66.84	53.47	40.11	26.74	13.37	-	-	-	-	TR
Total Cooling Capacity		282.1	235.1	188.1	141.1	94.03	47.02	-	-	-	-	kW
Total Power Input		98.90	82.42	65.93	49.45	32.97	16.48	-	-	-	-	kW
Total Current		188	157	126	94	63	32	-	-	-	-	A
COP		2.852	2.852	2.852	2.852	2.852	2.852	-	-	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	35.0	35.0	-	-	-	-	°C
EEWT		12.00	11.17	10.33	9.50	8.67	7.83	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate		48.58	48.58	48.58	48.58	48.58	48.58	-	-	-	-	m ³ /h
Pressure Drop		68.3	68.3	68.3	68.3	68.3	68.3	-	-	-	-	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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