



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)

Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM100CRM / 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		98.02		91.80	TR
		344.7		322.8	kW
Current	Compressor	163		171	A
	Fan	32		32	A
	Total	195		203	A
Power Input	Compressor	111.4		118.0	kW
	Fan	19.20		19.20	kW
	Total	130.6		137.2	kW
COP		2.639		2.353	kW/kW
Flow Rate		59.36		42.77	m ³ /h
Pressure Drop		61.0		36.7	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		-										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		91.80	71.24	66.46	50.68	45.90	41.12	25.34	20.56	-	-	TR
Total Cooling Capacity		322.8	250.5	233.7	178.2	161.4	144.6	89.11	72.31	-	-	kW
Total Power Input		137.2	106.2	99.63	75.17	68.61	62.05	37.58	31.02	-	-	kW
Total Current		203	157	148	111	102	93	56	47	-	-	A
COP		2.353	2.359	2.346	2.371	2.353	2.331	2.371	2.331	-	-	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		42.77	42.77	42.77	42.77	42.77	42.77	42.77	42.77	-	-	m ³ /h
Pressure Drop		36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	-	-	kPa

Others

MCA		241	A
No. of Refrigerant Circuit		2	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	35.0 / 35.0	kg/System
Chiller Dimension	W / D / H	2237 / 4163 / 2290	mm
Weight	Shipping	2920	kg
	Operating	3111	kg

Evaporator

Type		S&T	-
Inlet/Outlet Diameter		5" Victaulic Joint	-
Flow Rate	Min / Max	16.40 / 70.40	m ³ /h
Pressure Drop	Min / Max	7.00 / 79.0	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		15.36	m ² /Coil
Fan			
Type/ Drive		Axial / Direct	-
Quantity per System		4	-

Note : For any enquiry, please contact your authorized sales agent.

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