



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM60CRM / 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		62.63		58.57	TR
		220.3		206.0	kW
Current	Compressor	102		107	A
	Fan	24		24	A
	Total	126		131	A
Power Input	Compressor	70.29		74.88	kW
	Fan	14.40		14.40	kW
	Total	84.69		89.28	kW
COP		2.601		2.307	kW/kW
Flow Rate		37.93		27.29	m ³ /h
Pressure Drop		41.5		24.2	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	:	3.807										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	78.6	71.4	57.2	50.0	42.8	28.6	21.4	-	-	%
Total Cooling Capacity	:	58.57	46.05	41.80	33.53	29.28	25.04	16.76	12.52	-	-	TR
Total Cooling Capacity	:	206.0	162.0	147.0	117.9	103.0	88.06	58.96	44.03	-	-	kW
Total Power Input	:	89.28	70.78	65.53	52.29	44.64	41.79	26.14	20.90	-	-	kW
Total Current	:	131	104	97	77	66	62	39	31	-	-	A
COP	:	2.307	2.288	2.243	2.255	2.307	2.107	2.255	2.107	-	-	kW/kW
Ambient Temperature	:	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	-	-	°C
EEWT	:	13.00	11.61	11.14	10.22	9.75	9.28	8.36	7.89	-	-	°C
ELWT	:	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	-	-	°C
Flow Rate	:	27.29	27.29	27.29	27.29	27.29	27.29	27.29	27.29	-	-	m³/h
Pressure Drop	:	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	-	-	kPa

Others

MCA		155	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 / 2290	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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