



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : MRT Project (KL)
Created By : DRMSASoftware

Customer Input

Selected Model / Type : UAM100CFM / 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		103.0		96.44	TR
		362.4		339.2	kW
Current	Compressor	202		212	A
	Fan	24		24	A
	Total	226		236	A
Power Input	Compressor	115.8		122.9	kW
	Fan	16.00		16.00	kW
	Total	131.8		138.9	kW
COP		2.750		2.442	kW/kW
Flow Rate		62.41		44.93	m ³ /h
Pressure Drop		65.9		39.6	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	:	4.035										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	78.3	71.7	56.6	50.0	43.4	28.3	21.7	-	-	%
Total Cooling Capacity	:	96.44	75.51	69.16	54.57	48.22	41.87	27.29	20.93	-	-	TR
Total Cooling Capacity	:	339.2	265.6	243.2	191.9	169.6	147.3	95.97	73.63	-	-	kW
Total Power Input	:	138.9	107.7	100.7	76.38	69.46	62.54	38.19	31.27	-	-	kW
Total Current	:	236	183	171	130	118	106	65	53	-	-	A
COP	:	2.442	2.467	2.415	2.513	2.442	2.355	2.513	2.355	-	-	kW/kW
Ambient Temperature	:	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	-	-	°C
EEWT	:	13.00	11.59	11.16	10.18	9.75	9.32	8.34	7.91	-	-	°C
ELWT	:	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	-	-	°C
Flow Rate	:	44.93	44.93	44.93	44.93	44.93	44.93	44.93	44.93	-	-	m³/h
Pressure Drop	:	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	-	-	kPa

Others

MCA		282	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 / 2156	mm
Weight	Shipping	3048	kg
	Operating	3239	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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