



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang
Created By : DRMSA Software

Customer Input

Selected Model / Type : UAM100CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance			Nominal Data (AHRI Standard)		Input Conditions		
Cooling Capacity	:		103.0		103.0		TR
			362.4		362.4		kW
Current	:	Compressor	202		202		A
		Fan	24		24		A
		Total	226		226		A
Power Input	:	Compressor	115.8		115.8		kW
		Fan	16.00		16.00		kW
		Total	131.8		131.8		kW
COP	:		2.750		2.750		kW/kW
Flow Rate	:		62.41		62.41		m³/h
Pressure Drop	:		65.9		65.9		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	:	4.035										kW/kW
Point	:	1	2	2	3	3	4	-	-	-	-	
Corresponding Capacity	:	100.0	80.2	63.4	53.1	34.9	28.1	-	-	-	-	%
Total Cooling Capacity	:	103.0	82.66	65.36	54.75	35.94	28.99	-	-	-	-	TR
Total Cooling Capacity	:	362.4	290.7	229.9	192.6	126.4	102.0	-	-	-	-	kW
Total Power Input	:	131.8	83.07	62.70	45.55	26.82	20.88	-	-	-	-	kW
Total Current	:	226	148	111	85	50	41	-	-	-	-	A
COP	:	2.750	3.500	3.666	4.228	4.713	4.883	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	-	-	°C
EEWT	:	12.00	11.01	10.17	9.66	8.74	8.41	-	-	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate	:	62.41	62.41	62.41	62.41	62.41	62.41	-	-	-	-	m³/h
Pressure Drop	:	65.9	65.9	65.9	65.9	65.9	65.9	-	-	-	-	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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