



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang
Created By : DRMSA Software

Customer Input

Selected Model / Type : UAM60CUM / 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 (AHRI Standard)		Input Conditions	
Cooling Capacity	:		61.92	61.92	TR
			217.8	217.8	kW
Current	:	Compressor	132	132	A
		Fan	21	21	A
		Total	153	153	A
Power Input	:	Compressor	70.76	70.76	kW
		Fan	9.000	9.000	kW
		Total	79.76	79.76	kW
COP	:		2.730	2.730	kW/kW
Flow Rate	:		37.50	37.50	m ³ /h
Pressure Drop	:		40.7	40.7	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	:	3.988										kW/kW
Point	:	1	2	2	3	3	4	-	-	-	-	
Corresponding Capacity	:	100.0	79.9	64.1	52.7	35.3	28.2	-	-	-	-	%
Total Cooling Capacity	:	61.92	49.49	39.69	32.66	21.84	17.43	-	-	-	-	TR
Total Cooling Capacity	:	217.8	174.1	139.6	114.9	76.80	61.31	-	-	-	-	kW
Total Power Input	:	79.76	50.14	40.32	27.36	17.46	12.08	-	-	-	-	kW
Total Current	:	153	103	78	63	36	30	-	-	-	-	A
COP	:	2.730	3.472	3.462	4.198	4.398	5.076	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	-	-	°C
EEWT	:	12.00	11.00	10.21	9.64	8.76	8.41	-	-	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate	:	37.50	37.50	37.50	37.50	37.50	37.50	-	-	-	-	m ³ /h
Pressure Drop	:	40.7	40.7	40.7	40.7	40.7	40.7	-	-	-	-	kPa

Others

MCA	:		187	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 / 2156	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	10.3 / 10.3	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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Page : 1/2