



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Lee Ming Yang-R0
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 31.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.60 °C Voltage : 380-415 V
LWT 7.70 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		59.27	64.42	TR	
		208.5	226.6	kW	
Current	Compressor	115	108	A	
	Fan	18	18	A	
	Total	133	126	A	
Power Input	Compressor	67.18	61.69	kW	
	Fan	12.00	12.00	kW	
	Total	79.18	73.69	kW	
COP		2.633	3.075	kW/kW	
Flow Rate		35.90	39.81	m ³ /h	
Pressure Drop		37.9	44.9	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 m ² .K/kW, and rating altitude at 0 m.				

Part Load Performance

IPLV		3.850										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity		64.42	48.32	32.21	16.11	-	-	-	-	-	-	TR
Total Cooling Capacity		226.6	169.9	113.3	56.64	-	-	-	-	-	-	kW
Total Power Input		73.69	56.27	36.85	19.42	-	-	-	-	-	-	kW
Total Current		126	96	63	33	-	-	-	-	-	-	A
COP		3.075	3.020	3.075	2.916	-	-	-	-	-	-	kW/kW
Ambient Temperature		31.0	31.0	31.0	31.0	-	-	-	-	-	-	°C
EEWT		12.60	11.38	10.15	8.93	-	-	-	-	-	-	°C
ELWT		7.70	7.70	7.70	7.70	-	-	-	-	-	-	°C
Flow Rate		39.81	39.81	39.81	39.81	-	-	-	-	-	-	m ³ /h
Pressure Drop		44.9	44.9	44.9	44.9	-	-	-	-	-	-	kPa

Others

MCA		164	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	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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