



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Schott Glass - UAM
Created By : Siti Nor Aqilah binti Ahmad

Customer Input

Selected Model / Type : UAM40CFM / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.22 °C Voltage : 380-415 V
LWT 6.67 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity		40.49		40.01	TR
		142.4		140.7	kW
Current	Compressor	81		81	A
	Fan	9		9	A
	Total	90		90	A
Power Input	Compressor	46.10		46.08	kW
	Fan	6.000		6.000	kW
	Total	52.10		52.08	kW
COP		2.734		2.702	kW/kW
Flow Rate		24.53		21.83	m ³ /h
Pressure Drop		52.5		41.0	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	:	3.868										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	55.2	44.8	-	-	-	-	-	-	-	%
Total Cooling Capacity	:	40.01	22.10	17.91	-	-	-	-	-	-	-	TR
Total Cooling Capacity	:	140.7	77.73	63.00	-	-	-	-	-	-	-	kW
Total Power Input	:	52.08	29.65	24.43	-	-	-	-	-	-	-	kW
Total Current	:	90	51	42	-	-	-	-	-	-	-	A
COP	:	2.702	2.621	2.579	-	-	-	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	35.0	35.0	-	-	-	-	-	-	-	°C
EEWT	:	12.22	9.74	9.15	-	-	-	-	-	-	-	°C
ELWT	:	6.67	6.67	6.67	-	-	-	-	-	-	-	°C
Flow Rate	:	21.83	21.83	21.83	-	-	-	-	-	-	-	m³/h
Pressure Drop	:	41.0	41.0	41.0	-	-	-	-	-	-	-	kPa

Others

MCA		118	A
No. of Refrigerant Circuit		1	-
Refrigerant Type		R410A	-
Refrigerant Charge	System 1/2	25.0 / -	kg/System
Chiller Dimension	W / D / H	1146 / 3282 / 2156	mm
Weight	Shipping	1130	kg
	Operating	1139	kg

Evaporator

Type		BPHE	-
Inlet/Outlet Diameter		2.5" Male BSPT	-
Flow Rate	Min / Max	10.00 / 32.50	m ³ /h
Pressure Drop	Min / Max	5.80 / 94.7	kPa

Compressor

Quantity	System 1/2	2 / -	-
Type		Hermetic-sealed (Scroll)	-
Oil Charge	System 1/2	13.4 / -	L/System

Condenser

Coil			
Tube	Type	Copper Tube	-
Fin	Type	Aluminium Fin	-
Surface Area/ Coil		5.76	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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