



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : UAM
Created By : Siti Nor Aqilah binti Ahmad

Customer Input

Selected Model / Type : UAM80CFM / 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	:		80.99		80.03		TR
			284.8		281.5		kW
Current	:	Compressor	161		161		A
		Fan	18		18		A
		Total	179		179		A
Power Input	:	Compressor	92.19		92.16		kW
		Fan	12.00		12.00		kW
		Total	104.2		104.2		kW
COP	:		2.734		2.702		kW/kW
Flow Rate	:		49.05		43.67		m³/h
Pressure Drop	:		38.1		31.9		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.					

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

IPLV		-									kW/kW
Point		1	2	2	3	3	-	-	-	-	-
Corresponding Capacity		100.0	81.0	61.7	55.1	33.8	-	-	-	-	%
Total Cooling Capacity		80.99	65.57	49.99	44.60	27.38	-	-	-	-	TR
Total Cooling Capacity		284.8	230.6	175.8	156.8	96.28	-	-	-	-	kW
Total Power Input		104.2	66.49	51.72	37.53	22.77	-	-	-	-	kW
Total Current		179	118	93	69	43	-	-	-	-	A
COP		2.734	3.469	3.399	4.179	4.228	-	-	-	-	kW/kW
Ambient Temperature		35.0	27.0	27.0	19.0	19.0	-	-	-	-	°C
EEWT		12.00	11.05	10.09	9.75	8.69	-	-	-	-	°C
ELWT		7.00	7.00	7.00	7.00	7.00	-	-	-	-	°C
Flow Rate		49.05	49.05	49.05	49.05	49.05	-	-	-	-	m ³ /h
Pressure Drop		38.1	38.1	38.1	38.1	38.1	-	-	-	-	kPa

Others

MCA		223									A
No. of Refrigerant Circuit		2									-
Refrigerant Type		R410A									-
Refrigerant Charge	System 1/2	25.0 / 25.0									kg/System
Chiller Dimension	W / D / H	2237 / 3263 / 2156									mm
Weight	Shipping	2917									kg
	Operating	3039									kg

Evaporator

Type		S&T									-
Inlet/Outlet Diameter		5" Victaulic Joint									-
Flow Rate	Min / Max	15.00 / 56.70									m ³ /h
Pressure Drop	Min / Max	5.00 / 47.0									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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