

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 33.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 6.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)				Input Conditions				
Cooling Capacity		80.00				80.00				TR
		281.4				281.4				kW
Current	Compressor	161				156				A
	Fan	18				18				A
	Total	179				174				A
Power Input	Compressor	92.20				88.51				kW
	Fan	12.00				12.00				kW
	Total	104.2				100.5				kW
COP		2.700				2.799				kW/kW
Flow Rate		48.45				40.38				m ³ /h
Pressure Drop		37.4				28.4				kPa

- 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		3.926										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	78.1	72.9	55.6	50.3	45.1	27.8	22.5	-	-	%
Total Cooling Capacity		80.00	62.50	58.30	44.47	40.27	36.07	22.23	18.03	-	-	TR
Total Cooling Capacity		281.4	219.8	205.0	156.4	141.6	126.8	78.19	63.42	-	-	kW
Total Power Input		100.5	78.90	73.86	57.29	50.25	47.22	28.65	23.61	-	-	kW
Total Current		174	137	128	100	87	81	50	41	-	-	A
COP		2.799	2.786	2.776	2.730	2.818	2.686	2.730	2.686	-	-	kW/kW
Ambient Temperature		33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	-	-	°C
EEWT		12.00	10.69	10.37	9.33	9.02	8.70	7.67	7.35	-	-	°C
ELWT		6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	-	-	°C
Flow Rate		40.38	40.38	40.38	40.38	40.38	40.38	40.38	40.38	-	-	m ³ /h
Pressure Drop		28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	-	-	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										-
Fin	Type	Aluminium										-
Surface Area/ Coil		11.52										m ² /Coil
Fan												-
Type/ Drive		Axial / Direct										-
Quantity per System		3										-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org



Note : For any enquiry, please contact your authorized sales agent.

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