



CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : 17 Feb (Count + Image)

Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 9.00 °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		161	A
	Fan	18		18	A
	Total	179		179	A
Power Input	Compressor	92.20		92.38	kW
	Fan	12.00		12.00	kW
	Total	104.2		104.4	kW
COP		2.700		2.696	kW/kW
Flow Rate		48.45		53.87	m ³ /h
Pressure Drop		37.4		43.8	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		3.926										kW/kW
Point		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity		100.0	84.5	78.7	60.1	54.4	48.7	30.1	24.3	-	-	%
Total Cooling Capacity		80.00	67.56	62.99	48.09	43.52	38.95	24.04	19.47	-	-	TR
Total Cooling Capacity		281.4	237.6	221.5	169.1	153.0	137.0	84.56	68.49	-	-	kW
Total Power Input		104.4	81.90	76.67	59.42	52.19	48.96	29.71	24.48	-	-	kW
Total Current		179	141	132	102	90	84	51	42	-	-	A
COP		2.696	2.901	2.890	2.846	2.933	2.798	2.846	2.798	-	-	kW/kW
Ambient Temperature		35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT		13.50	12.80	12.54	11.70	11.45	11.19	10.35	10.09	-	-	°C
ELWT		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-	-	°C
Flow Rate		53.87	53.87	53.87	53.87	53.87	53.87	53.87	53.87	-	-	m ³ /h
Pressure Drop		43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	-	-	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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