

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec-28
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Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 30.0 °C Frequency : 50 Hz
Chilled Water : EWT 14.00 °C Voltage : 380-415 V
LWT 8.00 °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		150	A
	Fan	18		18	A
	Total	179		168	A
Power Input	Compressor	92.20		83.34	kW
	Fan	12.00		12.00	kW
	Total	104.2		95.34	kW
COP		2.700		2.951	kW/kW
Flow Rate		48.45		40.38	m ³ /h
Pressure Drop		37.4		28.4	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 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	87.6	81.7	62.3	56.4	50.5	31.2	25.3	-	-	%
Total Cooling Capacity	:	80.00	70.07	65.35	49.86	45.14	40.42	24.93	20.21	-	-	TR
Total Cooling Capacity	:	281.4	246.4	229.8	175.4	158.8	142.2	87.68	71.08	-	-	kW
Total Power Input	:	95.34	74.90	70.11	54.46	47.67	44.88	27.23	22.44	-	-	kW
Total Current	:	168	132	123	96	84	78	48	39	-	-	A
COP	:	2.951	3.290	3.278	3.220	3.330	3.168	3.220	3.168	-	-	kW/kW
Ambient Temperature	:	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	-	-	°C
EEWT	:	14.00	13.26	12.90	11.74	11.39	11.03	9.87	9.52	-	-	°C
ELWT	:	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	-	-	°C
Flow Rate	:	40.38	40.38	40.38	40.38	40.38	40.38	40.38	40.38	-	-	m³/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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