

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec-28
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 31.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 5.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity	:		80.00	79.95	TR
			281.4	281.2	kW
Current	:	Compressor	161	152	A
		Fan	18	18	A
		Total	179	170	A
Power Input	:	Compressor	92.20	84.82	kW
		Fan	12.00	12.00	kW
		Total	104.2	96.82	kW
COP	:		2.700	2.904	kW/kW
Flow Rate	:		48.45	34.58	m ³ /h
Pressure Drop	:		37.4	22.3	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	77.6	72.4	55.2	50.0	44.8	27.6	22.4	-	-	%
Total Cooling Capacity	:	79.95	62.04	57.88	44.13	39.97	35.82	22.06	17.91	-	-	TR
Total Cooling Capacity	:	281.2	218.2	203.6	155.2	140.6	126.0	77.60	62.99	-	-	kW
Total Power Input	:	96.82	76.04	71.19	55.27	48.41	45.55	27.63	22.78	-	-	kW
Total Current	:	170	133	124	97	85	79	49	40	-	-	A
COP	:	2.904	2.869	2.860	2.808	2.904	2.765	2.808	2.765	-	-	kW/kW
Ambient Temperature	:	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	-	-	°C
EEWT	:	12.00	10.43	10.07	8.86	8.50	8.14	6.93	6.57	-	-	°C
ELWT	:	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-	-	°C
Flow Rate	:	34.58	34.58	34.58	34.58	34.58	34.58	34.58	34.58	-	-	m³/h
Pressure Drop	:	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	-	-	kPa

Others

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

Evaporator

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

Compressor

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

Condenser

Coil	:		
Tube	:	Type	Copper
Fin	:	Type	Aluminium
Surface Area/ Coil	:		11.52
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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