



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	m ³ /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. 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	:	-										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	:	80.03	62.11	57.93	44.20	40.01	35.83	22.10	17.91	-	-	TR
Total Cooling Capacity	:	281.5	218.5	203.7	155.5	140.7	126.0	77.73	63.00	-	-	kW
Total Power Input	:	104.2	81.73	76.51	59.30	52.08	48.86	29.65	24.43	-	-	kW
Total Current	:	179	141	131	102	90	83	51	42	-	-	A
COP	:	2.702	2.673	2.663	2.621	2.702	2.579	2.621	2.579	-	-	kW/kW
Ambient Temperature	:	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	-	-	°C
EEWT	:	12.22	10.98	10.69	9.74	9.45	9.15	8.20	7.91	-	-	°C
ELWT	:	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67	-	-	°C
Flow Rate	:	43.67	43.67	43.67	43.67	43.67	43.67	43.67	43.67	-	-	m ³ /h
Pressure Drop	:	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	-	-	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.

CSQS.C01.S01

28-Jun, 2024 14:40

Page : 1/2