

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : CSS Dec 09
Created By : lee ming yang

Customer Input

Selected Model / Type : UAM60C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 40.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 7.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)				Input Conditions			
Cooling Capacity	:		59.27			54.58			TR
			208.4			192.0			kW
Current	:	Compressor	115			125			A
		Fan	18			18			A
		Total	133			143			A
Power Input	:	Compressor	67.18			74.83			kW
		Fan	12.00			12.00			kW
		Total	79.18			86.83			kW
COP	:		2.632			2.211			kW/kW
Flow Rate	:		35.90			33.06			m ³ /h
Pressure Drop	:		37.9			33.2			kPa

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	:	3.750										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	75.0	50.0	25.0	-	-	-	-	-	-	%
Total Cooling Capacity	:	54.58	40.94	27.29	13.65	-	-	-	-	-	-	TR
Total Cooling Capacity	:	192.0	144.0	95.98	47.99	-	-	-	-	-	-	kW
Total Power Input	:	86.83	66.12	43.41	22.71	-	-	-	-	-	-	kW
Total Current	:	143	109	72	38	-	-	-	-	-	-	A
COP	:	2.211	2.177	2.211	2.113	-	-	-	-	-	-	kW/kW
Ambient Temperature	:	40.0	40.0	40.0	40.0	-	-	-	-	-	-	°C
EEWT	:	12.00	10.75	9.50	8.25	-	-	-	-	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	-	-	-	-	-	-	°C
Flow Rate	:	33.06	33.06	33.06	33.06	-	-	-	-	-	-	m ³ /h
Pressure Drop	:	33.2	33.2	33.2	33.2	-	-	-	-	-	-	kPa

Others

MCA	:	164										A
No. of Refrigerant Circuit	:	2										-
Refrigerant Type	:	R410A										-
Refrigerant Charge	:	System 1/2	21.0 / 21.0									kg/System
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156									mm
Weight	:	Shipping	2052									kg
	:	Operating	2174									kg

Evaporator

Type	:	S&T										-
Inlet/Outlet Diameter	:	4" Victaulic Joint										-
Flow Rate	:	Min / Max	13.70 / 61.20									m ³ /h
Pressure Drop	:	Min / Max	7.00 / 90.0									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	m²/Coil
Fan				
Type/ Drive	:		Axial / Direct	-
Quantity per System	:		3	-

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

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