

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 : 33.0 °C Frequency : 50 Hz
Chilled Water : EWT 12.00 °C Voltage : 380-415 V
LWT 6.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)				Input Conditions			
Cooling Capacity	:		59.27			58.94			TR
			208.4			207.3			kW
Current	:	Compressor	115			111			A
		Fan	18			18			A
		Total	133			129			A
Power Input	:	Compressor	67.18			64.32			kW
		Fan	12.00			12.00			kW
		Total	79.18			76.32			kW
COP	:		2.632			2.716			kW/kW
Flow Rate	:		35.90			29.75			m ³ /h
Pressure Drop	:		37.9			27.9			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 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	:	58.94	44.21	29.47	14.74	-	-	-	-	-	-	TR
Total Cooling Capacity	:	207.3	155.5	103.6	51.82	-	-	-	-	-	-	kW
Total Power Input	:	76.32	58.24	38.16	20.08	-	-	-	-	-	-	kW
Total Current	:	129	99	65	34	-	-	-	-	-	-	A
COP	:	2.716	2.670	2.716	2.581	-	-	-	-	-	-	kW/kW
Ambient Temperature	:	33.0	33.0	33.0	33.0	-	-	-	-	-	-	°C
EEWT	:	12.00	10.50	9.00	7.50	-	-	-	-	-	-	°C
ELWT	:	6.00	6.00	6.00	6.00	-	-	-	-	-	-	°C
Flow Rate	:	29.75	29.75	29.75	29.75	-	-	-	-	-	-	m³/h
Pressure Drop	:	27.9	27.9	27.9	27.9	-	-	-	-	-	-	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								m ² /Coil
Fan	:										-
Type/ Drive	:		Axial / Direct								-
Quantity per System	:		3								-

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

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