

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Project Name CST
Created By : Cheong ST

Customer Input

Selected Model / Type : UAM60C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 35.0 °C Frequency : 50 Hz
Chilled Water : EWT 11.00 °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			57.18			TR
			208.4			201.1			kW
Current	:	Compressor	115			115			A
		Fan	18			18			A
		Total	133			133			A
Power Input	:	Compressor	67.18			67.15			kW
		Fan	12.00			12.00			kW
		Total	79.18			79.15			kW
COP	:		2.632			2.541			kW/kW
Flow Rate	:		35.90			34.63			m ³ /h
Pressure Drop	:		37.9			35.8			kPa

- Note
- 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.
 - Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
 - 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	:	57.18	42.89	28.59	14.30	-	-	-	-	-	-	TR
Total Cooling Capacity	:	201.1	150.8	100.6	50.28	-	-	-	-	-	-	kW
Total Power Input	:	79.15	60.36	39.57	20.79	-	-	-	-	-	-	kW
Total Current	:	133	101	67	35	-	-	-	-	-	-	A
COP	:	2.541	2.499	2.541	2.419	-	-	-	-	-	-	kW/kW
Ambient Temperature	:	35.0	35.0	35.0	35.0	-	-	-	-	-	-	°C
EEWT	:	11.00	9.75	8.50	7.25	-	-	-	-	-	-	°C
ELWT	:	6.00	6.00	6.00	6.00	-	-	-	-	-	-	°C
Flow Rate	:	34.63	34.63	34.63	34.63	-	-	-	-	-	-	m ³ /h
Pressure Drop	:	35.8	35.8	35.8	35.8	-	-	-	-	-	-	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
Fan			
Type/ Drive	:		Axial / Direct
Quantity per System	:		3

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

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