

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project :
Created By :

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	:	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	:	3.750								kW/kW
Point	:	1	2	2	3	3	4	-	-	-
Corresponding Capacity	:	100.0	83.9	55.9	61.3	30.7	32.5	-	-	-
Total Cooling Capacity	:	59.27	49.72	33.14	36.34	18.17	19.27	-	-	-
Total Cooling Capacity	:	208.4	174.8	116.6	127.8	63.91	67.76	-	-	-
Total Power Input	:	79.18	52.47	36.32	31.96	15.98	14.61	-	-	-
Total Current	:	133	91	63	58	29	27	-	-	-
COP	:	2.632	3.332	3.210	4.000	4.000	4.639	-	-	-
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	-
EEWT	:	12.00	11.19	9.80	10.07	8.53	8.63	-	-	-
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	-
Flow Rate	:	35.90	35.90	35.90	35.90	35.90	35.90	-	-	-
Pressure Drop	:	37.9	37.9	37.9	37.9	37.9	37.9	-	-	-

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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Page : 1/2