

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : Cheong Test Web
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 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	59.27	TR
			208.4	208.4	kW
Current	:	Compressor	115	115	A
		Fan	18	18	A
		Total	133	133	A
Power Input	:	Compressor	67.18	67.18	kW
		Fan	12.00	12.00	kW
		Total	79.18	79.18	kW
COP	:		2.632	2.632	kW/kW
Flow Rate	:		35.90	35.90	m ³ /h
Pressure Drop	:		37.9	37.9	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	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		

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								-