

Project : PProject1
Created By : pendy

Customer Input

Selected Model / Type : UAM100C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 25.0 °C Frequency : 50 Hz
Chilled Water : Flow Rate 50.00 m³/h Voltage : 380-415 V
LWT 12.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity	:		100.0	100.0	TR
			351.7	351.7	kW
Current	:	Compressor	201	174	A
		Fan	24	24	A
		Total	225	198	A
Power Input	:	Compressor	116.4	94.58	kW
		Fan	16.00	16.00	kW
		Total	132.4	110.6	kW
COP	:		2.656	3.181	kW/kW
Flow Rate	:		54.56	50.00	m³/h
Pressure Drop	:		53.6	46.8	kPa

Note :
1. Nominal data is based on the MS2449 standard condition of EWT/LWT of 12.22/6.67°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

MPLV	:	3.198										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	100.0	100.0	79.7	70.3	61.0	39.9	30.5	-	-	%
Total Cooling Capacity	:	100.0	100.0	100.0	79.73	70.34	60.96	39.86	30.48	-	-	TR
Total Cooling Capacity	:	351.7	351.7	351.7	280.4	247.4	214.4	140.2	107.2	-	-	kW
Total Power Input	:	110.6	85.31	80.56	60.04	55.29	50.54	30.02	25.27	-	-	kW
Total Current	:	198	153	145	108	99	91	54	46	-	-	A
COP	:	3.181	4.123	4.366	4.670	4.475	4.242	4.670	4.242	-	-	kW/kW
Ambient Temperature	:	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-	°C
EEWT	:	18.06	18.06	18.06	16.83	16.26	15.69	14.41	13.85	-	-	°C
ELWT	:	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	-	-	°C
Flow Rate	:	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	m³/h
Pressure Drop	:	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	-	-	kPa

Others

MCA	:	282										A
No. of Refrigerant Circuit	:	2										-
Refrigerant Type	:	R410A										-
Refrigerant Charge	:	System 1/2	35.0 / 35.0									kg/System
Chiller Dimension	:	W / D / H	2237 / 4163 / 2156									mm
Weight	:	Shipping	3048									kg
	:	Operating	3239									kg

Evaporator

Type	:	S&T										-
Inlet/Outlet Diameter	:	5" Victaulic Joint										-
Flow Rate	:	Min / Max	16.40 / 70.40									m³/h
Pressure Drop	:	Min / Max	7.00 / 79.0									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	:		15.36									m²/Coil
Fan	:											-
Type/ Drive	:		Axial / Direct									-
Quantity per System	:		4									-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org

