CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project :

Created By :

Customer Input

Selected Model / Type	:	UAM80C3F		/	Fixed Speed Scroll Chiller Version C			
Ambient Temperature	:		30.0	°C	Frequency	:	50	Hz
Chilled Water	:	Flow Rate	50.00	m^3/h	Voltage	:	380-415	V
		LWT	8.00	°C	Country of Origin	:	Malaysia	

Generated Outputs

Full Load Performance			Nominal Data (AHRI Standard)	Input Conditions	
Cooling Capacity	:		80.00	80.00	TR
			281.4	281.4	kW
Current	:	Compressor	161	150	A
		Fan	18	18	A
		Total	179	168	A
Power Input	:	Compressor	92.20	83.34	kW
		Fan	12.00	12.00	kW
		Total	104.2	95.34	kW
COP	:		2.700	2.951	kW/kW
Flow Rate	:		48.45	50.00	m^3/h
Pressure Drop	:		37.4	39.2	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 altitute at 0 m.

Part Load Performance

IPLV	:	3.926									kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	87.6	81.7	62.3	56.4	50.5	31.2	25.3	-	-	%
Total Cooling Capacity	:	80.00	70.07	65.35	49.86	45.14	40.42	24.93	20.21	-	-	TR
Total Cooling Capacity	:	281.4	246.4	229.8	175.4	158.8	142.2	87.68	71.08	-	-	kW
Total Power Input	:	95.34	74.90	70.11	54.46	47.67	44.88	27.23	22.44	-	-	kW
Total Current	:	168	132	123	96	84	78	48	39	-	-	A
COP	:	2.951	3.290	3.278	3.220	3.330	3.168	3.220	3.168	-	-	kW/kW
Ambient Temperature	:	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	-	-	°C
EEWT	:	12.85	12.24	11.96	11.02	10.73	10.45	9.51	9.22	-	-	°C
ELWT	:	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	-	-	°C
Flow Rate	:	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	m^3/h
Pressure Drop	:	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	-	-	kPa

Others

MCA	:		223	A
No. of Refrigerant Circuit	:		2	-
Refrigerant Type	:		R410A	-
Refrigerant Charge	:	System 1/2	25.0 / 25.0	kg/System
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156	mm
Weight	:	Shipping	2917	kg
		Operating	3039	kg

Evaporator

Type	:		S&T	-
Inlet/Outlet Diameter	:		5" Victaulic Joint	
Flow Rate	:	Min / Max	15.00 / 56.70	m^3/h
Pressure Drop	:	Min / Max	5.00 / 47.0	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	-

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

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