

## **CHILLER SELECTION REPORT**

## Dalkin Refrigeration Malaysia Sdn. Bhd.

Country of Origin

Malaysia

Project : CSS Dec 09
Created By : lee ming yang

LWT

**Customer Input** 

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C

42.80

Ambient Temperature : 91.4 °F Frequency : 50 Hz Chilled Water : EWT 53.60 °F Voltage : 380-415 V

°F

Generated Outputs

Full Load Performance			Nominal Data (AHRI Standard)	Input Conditions	
Cooling Capacity	:		80.00	80.00	TR
3			281.4	281.4	kW
Current	:	Compressor	161	156	A
		Fan .	18	18	A
		Total	179	174	A
Power Input	:	Compressor	92.17	88.51	kW
·		Fan .	12.00	12.00	kW
		Total	104.2	100.5	kW
COP	:		2.701	2.799	kW/kW
Flow Rate	:		192.0	177.8	gpm
Pressure Drop	:		10.7	9.49	ft H₂O

Note: 1. Nominal data is based on the AHRI (550/590) standard condition of EWT/LWT of 54.00/44.00?F, and ambient temperature of 95.0?F.

2. Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.

3. Evaporator rating fouling factor = 0.000100 h.ft???F/Btu, and rating altitute at 0 ft.

Part Load Performance												
IPLV :		3.933									kW/kW	
Point :		1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity :		100.0	78.1	72.9	55.6	50.3	45.1	27.8	22.5	-	_	<u> </u> %
Total Cooling Capacity :		80.00	62.50	58.30	44.47	40.27	36.07	22.23	18.03	-	_	_ TR
Total Cooling Capacity :		281.4	219.8	205.0	156.4	141.6	126.8	78.19	63.42	_	_	_kW
Total Power Input :		100.5	78.90	73.86	57.29	50.25	47.22	28.65	23.61	_		_kW
Total Current :		174	137	128	100	87	81	50	41	_		_ A
COP :		2.799	2.786	2.776	2.730	2.818	2.686	2.730	2.686			_kW/kW
Ambient Temperature :		91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	_		<b>」</b> °F
EEWT :		53.60	51.24	50.67	48.80	48.24	47.67	45.80	45.23	-	_	_l°F
ELWT :		42.80	42.80	42.80	42.80	42.80	42.80	42.80	42.80	-	_	_l°F
Flow Rate :		177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	_	_	gpm
Pressure Drop :		9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49	-	-	ft H₂O
Others												
MCA :		223										A
No. of Refrigerant Circuit:		2										
Refrigerant Type :		R410A										
Refrigerant Charge :	System 1/2	55.1 / 55.1									lb/System	
Chiller Dimension :	Ŵ/D/H	7.3 / 10.7 / 7.1									ft	
Weight :	Shipping	6432								_lb		
	Operating					67	01					_lb
Evaporator												_
Type :						S8	λΤ.					
Inlet/Outlet Diameter :		5" Victaulic Joint										
Flow Rate :	Min / Max	66.04 / 249.6									_gpm	
Pressure Drop :	Min / Max	1.67 / 15.7									_ft H₂O	
Compressor												_
Quantity :	System 1/2	2/2										
Type :	-	Hermetic-sealed (Scroll)										
Oil Charge :	System 1/2	3.5 / 3.5									_gallon/System	
Condenser	Ť											
Coil												
Tube :	Type	Copper										
Fin :	Type	Aluminium										
Surface Area/ Coil :	3.	124.00									ft²/Coil	
Fan												_
		Axial / Direct										
Type/ Drive :						ANIAI /	Direct					



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

 $\label{Note:For any enquiry, please contact your authorized sales agent.} \\$ 

CSQS.C01.S01 09-Dec, 2022 15:37 Page : 1/2