

CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project :
Created By :

Customer Input

Selected Model / Type	:	UAMV59A3F	/	Inverter Speed (Full) Scroll Chiller Version A				
Ambient Temperature	:	33.0	°C	Frequency	:	50	Hz	
Chilled Water	:	EWT	12.00	°C	Voltage	:	400	V
	:	LWT	6.00	°C	Country of Origin	:	Malaysia	

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)				Input Conditions			
Cooling Capacity	:								TR
									kW
Current	:	Compressor							A
		Fan							A
		Total							A
Power Input	:	Compressor							kW
		Fan							kW
		Total							kW
COP	:								kW/kW
Flow Rate	:								m ³ /h
Pressure Drop	:								kPa
Note	:								

- 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.
- Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.
- Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

IPLV	:	4.443										kW/kW
Point	:	1	2	3	4	5	6	7	8	9	10	
Corresponding Capacity	:	100.0	90.0	80.0	70.0	60.0	50.0	40.0	30.0	20.0	16.1	%
Total Cooling Capacity	:	30.00	27.00	24.00	21.00	18.00	15.00	12.00	9.000	6.000	4.834	TR
Total Cooling Capacity	:	105.5	94.96	84.41	73.86	63.31	52.76	42.20	31.65	21.10	17.00	kW
Total Power Input	:	33.53	29.18	26.00	22.70	-	16.89	13.38	10.27	7.432	6.392	kW
Total Current	:	60	51	46	42	-	32	24	19	15	12	A
COP	:	3.147	3.254	3.247	3.254	-	3.124	3.155	3.081	2.840	2.659	kW/kW
Ambient Temperature	:	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	°C
EEWT	:	11.77	11.19	10.61	10.04	9.46	8.88	8.31	7.73	7.15	6.93	°C
ELWT	:	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	°C
Flow Rate	:	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	m ³ /h
Pressure Drop	:	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	kPa

Others

MCA	:	142										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	2052									kg
	:	Operating	2174									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	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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