



# CHILLER SELECTION REPORT

Dalkin Refrigeration Malaysia Sdn. Bhd.

Project : Iffco Malaysia  
Created By : Ch'ng Swee Guan

## Customer Input

Selected Model / Type : UAM40CFM / Fixed Speed Scroll Chiller Version C  
Ambient Temperature : 35.0 °C Frequency : 50 Hz  
Chilled Water : EWT 12.20 °C Voltage : 380-415 V  
LWT 6.70 °C Country of Origin : Malaysia

## Generated Outputs

Full Load Performance		Nominal Data (MS Standard)		Input Conditions	
Cooling Capacity	:	40.01		40.06	TR
		140.7		140.9	kW
Current	:	81		81	A
	Compressor	9		9	A
	Fan	90		90	A
	Total	46.08		46.08	kW
Power Input	:	6.000		6.000	kW
	Compressor	52.08		52.08	kW
	Fan	2.702		2.705	kW/kW
	Total	21.83		22.06	m³/h
COP	:	41.0		41.9	kPa
Flow Rate	:				
Pressure Drop	:				
Note	:				

- 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.
- 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

MPLV	:	3.394								kW/kW
Point	:	1	2	3	4	-	-	-	-	-
Corresponding Capacity	:	100.0	105.3	49.5	51.0	-	-	-	-	-
Total Cooling Capacity	:	40.01	42.13	19.82	20.41	-	-	-	-	-
Total Cooling Capacity	:	140.7	148.2	69.71	71.80	-	-	-	-	-
Total Power Input	:	52.08	48.88	19.62	18.82	-	-	-	-	-
Total Current	:	90	86	35	34	-	-	-	-	-
COP	:	2.702	3.031	3.552	3.816	-	-	-	-	-
Ambient Temperature	:	35.0	31.5	27.9	25.6	-	-	-	-	-
EEWT	:	12.22	12.51	9.42	9.50	-	-	-	-	-
ELWT	:	6.67	6.67	6.67	6.67	-	-	-	-	-
Flow Rate	:	21.83	21.83	21.83	21.83	-	-	-	-	-
Pressure Drop	:	41.0	41.0	41.0	41.0	-	-	-	-	-

## Others

MCA	:	118	A
No. of Refrigerant Circuit	:	1	-
Refrigerant Type	:	R410A	-
Refrigerant Charge	:	25.0 / -	kg/System
Chiller Dimension	:	1146 / 3282 / 2156	mm
Weight	:	1130	kg
	Operating	1139	kg

## Evaporator

Type	:	BPHE	-
Inlet/Outlet Diameter	:	2.5" Male BSPT	-
Flow Rate	:	Min / Max	10.00 / 32.50 m³/h
Pressure Drop	:	Min / Max	5.80 / 94.7 kPa

## Compressor

Quantity	:	System 1/2	2 / -
Type	:		Hermetic-sealed (Scroll)
Oil Charge	:	System 1/2	13.4 / - L/System

## Condenser

Coil	:		
Tube	:	Type	Copper Tube
Fin	:	Type	Aluminium Fin
Surface Area/ Coil	:		5.76 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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