

# 1. Outdoor Unit

## 1-1. Specifications

### Standard Combination

### Unit Specifications (2)

Model Name			3WAY System Outdoor Unit									
Horsepower			14			16			18			
Model No.			U-14MF2E8			U-16MF2E8			U-10MF2E8 U-8MF2E8			
Power Supply		ø Hz	3ø 50Hz			3ø 50Hz			3ø 50Hz			
		V	380	400	415	380	400	415	380	400	415	
Cooling	Capacity		kW	40.0	40.0	40.0	45.0	45.0	45.0	50.4	50.4	50.4
			BTU/h	136500	136500	136500	153600	153600	153600	172000	172000	172000
	Current		A	19.2	18.4	17.9	22.0	21.1	20.6	19.7	18.9	18.4
	Power Input		kW	11.6	11.6	11.6	13.3	13.3	13.3	11.8	11.8	11.8
	EER		—	3.45	3.45	3.45	3.38	3.38	3.38	4.27	4.27	4.27
	Power Factor		%	92	91	90	92	91	90	91	90	89
Operation Sound	Pressure Level	dB-A	62.0 (Quiet mode: 59.0)			62.0 (Quiet mode: 59.0)			61.0 (Quiet mode: 58.0)			
	Power Level	dB-A	76.5 (Quiet mode: 73.5)			76.5 (Quiet mode: 73.5)			75.5 (Quiet mode: 72.5)			
Heating	Capacity		kW	45.0	45.0	45.0	50.0	50.0	50.0	56.5	56.5	56.5
			BTU/h	153600	153600	153600	170600	170600	170600	192800	192800	192800
	Current		A	17.0	16.4	15.9	20.7	19.9	19.4	20.4	19.6	19.1
	Power Input		kW	10.2	10.2	10.2	12.4	12.4	12.4	12.2	12.2	12.2
	COP		—	4.41	4.41	4.41	4.03	4.03	4.03	4.63	4.63	4.63
Power Factor		%	91	90	89	91	90	89	91	90	89	
MAX Current		A	25.7	25.7	25.7	29.3	29.3	29.3	28.9	28.9	28.9	
MAX Power Input		kW	15.6	16.2	16.7	17.8	18.5	19.0	17.2	18.1	18.6	
Starting Current		A	74	77	80	78	81	85	1	1	1	
Comp Motor output		kW	4.8+4.5			5.7+5.2			4.2+6.0			
Fan Motor output (No. of poles)		kW	0.75 (8P)			0.75 (8P)			0.75 (8P) × 2			
External static pressure		Pa	80			80			80			
Air flow		m <sup>3</sup> /min	212			212			336			
Refrigerant amount at shipment		kg	R410A 9.3			R410A 9.3			R410A 17			
Unit Dimensions	Height	mm (inch)	1758 (69-7/32)			1758 (69-7/32)			1758 (69-7/32)			
	Width	mm (inch)	1000 (39-3/8)			1000 (39-3/8)			2060 (81-7/64)			
	Depth	mm (inch)	930 (36-39/64)			930 (36-39/64)			930 (36-39/64)			
Net weight		kg (lbs.)	322 (710)			322 (710)			538 (1186)			
Color (Approximate value)	Color (Munsell code)		Ivory (2.6Y7.6/1.1)			Ivory (2.6Y7.6/1.1)			Ivory (2.6Y7.6/1.1)			
	RAL code		7044			7044			7044			
Operation Condition	Cooling	DBT	-10°C ~ 46°C			-10°C ~ 46°C			-10°C ~ 46°C			
	Heating	WBT	-20°C ~ 18°C			-20°C ~ 18°C			-20°C ~ 18°C			
	Cooling & Heating	DBT	-10°C ~ 24°C			-10°C ~ 24°C			-10°C ~ 24°C			
Piping *1	Liquid	mm (inch)	12.7 (1/2)			12.7 (1/2)			15.88 (5/8)			
	Discharge	mm (inch)	22.22 (7/8)			22.22 (7/8)			22.22 (7/8)			
	Suction	mm (inch)	25.4 (1)			28.58 (1-1/8)			28.58 (1-1/8)			
	Balance	mm (inch)	6.35 (1/4)			6.35 (1/4)			6.35 (1/4)			
Compressor	Refrigeration oil	Type	FV68S (Ether oil)			FV68S (Ether oil)			FV68S (Ether oil)			
		Charge amount	L	1.6+1.7+3			1.6+1.7+3			(1.6+3) × 2		
	Crankcase heater		W	28+31			28+31			28 × 2		
Primary Accessories			Connection Piping (ø22.22, ø19.05)			Connection Piping (ø28.58, ø25.4) (ø22.22, ø19.05)			Connection Piping (ø19.05, ø15.88)			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

\*1 Main Pipe Diameter size-up apply to O.D. to first branch pipe

\* Performance and electrical characteristics values are based on JIS B8616(EN14511 is only applicable to temperature conditions.) package A/C.

(Cooling : Indoor intake air temp. 27°C DB or 19°C WB. Outdoor intake air temp. 35°C DB.)

(Heating : Indoor intake air temp. 20°C DB. Outdoor intake air temp. 7°C DB or 6°C WB.)