

3-PIPE ECOi MF2 6N SERIES

8-16 HP



With simultaneous heating and cooling operation heat recovery type

ECOi 3-Pipe is one of the most advanced VRF systems available. Not only offering high-efficiency and performance for simultaneous heating and cooling, but also its sophisticated installation and maintenance much easier.

- Achieves COP 4.77 as the top class in the industry (Average cooling and heating value for 8 HP outdoor unit).
- Simultaneous cooling or heating operation for up to 52 indoor units.
- Small installation space, top class in the industry.
- Rotation operation function and back-up operation function provided.

Technical focus

- Standardization of outdoor unit to one compact casing size
- Improved operation efficiency
- The constant-speed compressor adopts a high-performance internal high-pressure scroll
- Improvement of the heat exchanger
- Redesign of structural parts
- Close side-by-side installation is possible

HP			8 HP	10 HP	12 HP	14 HP	16 HP
Standard model			U-8MF2E8	U-10MF2E8	U-12MF2E8	U-14MF2E8	U-16MF2E8
Power supply		V	380 / 400 / 415 Three Phase / 50 Hz				
Cooling capacity		kW	22.4	28.0	33.5	40.0	45.0
EER ¹⁾	Nominal	W/W	4.50	4.10	3.70	3.45	3.38
Running current	380 / 400 / 415 V	A	8.60 / 8.20 / 8.00	11.3 / 10.8 / 10.6	15.1 / 14.5 / 14.1	19.2 / 18.4 / 17.9	22.0 / 21.1 / 20.6
Power input		kW	4.98	6.83	9.05	11.00	13.00
Heating capacity		kW	25.0	31.5	37.5	45.0	50.0
COP ¹⁾	Nominal	W/W	4.77	4.55	4.30	4.41	4.03
Running current	380 / 400 / 415 V	A	8.95 / 8.50 / 8.30	11.6 / 11.0 / 10.7	14.7 / 14.1 / 13.8	17.0 / 16.4 / 15.9	20.7 / 19.9 / 19.4
Power input		kW	5.24	6.92	8.72	10.2	12.4
Air volume		m³/min	158	178	212		
Sound pressure level	High / Low	dB(A)	57.0 / 54.0	59.0 / 56.0	61.0 / 58.0	62.0 / 59.0	62.0 / 59.0
Sound power level	Normal mode	dB	71.5 / 68.5	73.5 / 70.5	75.5 / 72.5	76.5 / 73.5	76.5 / 73.5
Dimensions		H x W x D	1,758 x 1,000 x 930				
Net weight		kg	269			314	322
Piping connections	Suction pipe	inch (mm)	3/4 (19.05)	7/8 (22.22)	1 (25.40)		1-1/8 (28.58)
	Discharge pipe	inch (mm)	5/8 (15.88)	3/4 (19.05)		7/8 (22.22)	
	Liquid pipe	inch (mm)	3/8 (9.52)			1/2 (12.70)	
	Balance pipe	inch (mm)	1/4 (6.35)				
Refrigerant amount at shipment		kg	8.3	8.5	8.8	9.3	9.3
Operating range	Cooling Min / Max	°C	-10 / +46				
	Heating Min / Max	°C	-20 / +18				
	Simultaneous operation	°C	-10 / +24				

Solenoid valve kit			3-Pipe control box kit	
KIT-P56HR3	KIT-P56HR3	3-Pipe control Solenoid valve kit (up to 5.6kW)	CZ-P456HR3	4 ports 3 pipe box (up to 5.6kW)
	CZ-P56HR3	Solenoid valve kit (up to 5.6kW)	CZ-P656HR3	6 ports 3 pipe box (up to 5.6kW)
	CZ-CAPE2	3-Pipe control PCB	CZ-P856HR3	8 ports 3 pipe box (up to 5.6kW)
KIT-P160HR3	KIT-P160HR3	3-Pipe control Solenoid valve kit (from 5.6kW to 10.6kW)	CZ-P4160HR3	4 ports 3 pipe box (up to 16.0kW)
	CZ-P160HR3	Solenoid valve kit (up to 16.0kW)		
	CZ-CAPE2	3-Pipe control PCB		
CZ-CAPEK2		3-Pipe control PCB for wall mounted		

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB. Cooling Outdoor 35°C DB / 24°C WB. Heating Indoor 20°C DB. Heating Outdoor 7°C DB / 6°C WB.
DB: Dry Bulb WB: Wet Bulb

1) EER and COP classification is at 400 V in accordance with EU directive 2002/31/EC.

Specifications subject to change without notice.

For detailed information about ErP, please visit our websites www.aircon.panasonic.co.uk or www.ptc.panasonic.eu

