

3-PIPE ECOi MF2 6N SERIES

HIGH EFFICIENCY COMBINATION 16 TO 32 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, its sophisticated design makes installation and maintenance much easier.

- Achieves COP 4.76 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			16 HP	24 HP	26 HP	28 HP	30 HP	32 HP
High Efficiency model			U-8MF2E8 U-8MF2E8	U-8MF2E8 U-8MF2E8 U-8MF2E8	U-8MF2E8 U-8MF2E8 U-10MF2E8	U-8MF2E8 U-8MF2E8 U-12MF2E8	U-8MF2E8 U-8MF2E8 U-14MF2E8	U-8MF2E8 U-12MF2E8 U-12MF2E8
Power supply	V		380 / 400 / 415 Three Phase / 50 Hz					
Cooling capacity	kW		45.0	68.0	73.0	78.5	85.0	90.0
EER ¹⁾	Nominal	W/W	4.50	4.47	4.32	4.11	3.94	3.86
Running current	380 / 400 / 415 V	A	17.3 / 16.4 / 16.0	26.2 / 24.9 / 24.3	28.5 / 27.4 / 26.7	32.2 / 31.0 / 30.2	36.5 / 35.0 / 34.1	38.9 / 37.4 / 36.4
Power input	kW		10.0	15.2	16.9	19.1	21.6	23.3
Heating capacity	kW		50.0	76.5	81.5	87.5	95.0	100.0
COP ¹⁾	Nominal	W/W	4.76	4.72	4.68	4.56	4.59	4.41
Running current	380 / 400 / 415 V	A	17.9 / 17.0 / 16.6	27.7 / 26.3 / 25.6	29.4 / 27.9 / 27.5	32.4 / 31.1 / 30.4	35.0 / 33.6 / 32.7	38.3 / 36.8 / 35.9
Power input	kW		10.5	16.2	17.4	19.2	20.7	22.7
Air volume	m ³ /min		316	474	494	528		582
Sound pressure level	High / Low	dB(A)	60.0 / 57.0	62.0 / 59.0	62.5 / 59.5	63.5 / 60.5	64.0 / 61.0	65.0 / 62.0
Sound power level	Normal mode	dB	74.5 / 71.5	76.5 / 73.5	77.0 / 74.0	78.0 / 75.0	78.5 / 75.5	79.5 / 76.5
Dimensions (Combination)	H x W x D	mm	1,758 x 2,060 x 930	1,758 x 3,120 x 930		1,758 x 3,120 x 930	1,758 x 3,120 x 930	1,758 x 3,120 x 930
Net weight	kg		538	807		852	860	897
Piping connections	Suction pipe	inch (mm)	1-1/8 (28.58)	1-1/8 (28.58)	1 1/4 (31.75)	1 1/4 (31.75)		
	Discharge pipe	inch (mm)	7/8 (22.22)	1 (25.40)	1 (25.40)	1-1/8 (28.58)		
	Liquid pipe	inch (mm)	1/2 (12.70)	5/8 (15.88)	3/4 (19.05)	3/4 (19.05)		
	Balance pipe	inch (mm)			1/4 (6.35)			
Refrigerant amount at shipment	kg		16.6	24.9	25.1	25.4	25.9	25.9
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 16.0kW)	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

