

3-PIPE ECOi MF2 6N SERIES

COMBINATION FROM 18 TO 48 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 4.63 as the top class in the industry (Average cooling and heating value for 18 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			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	
Standard model			U-8MF2E8 U-10MF2E8	U-8MF2E8 U-12MF2E8	U-8MF2E8 U-14MF2E8	U-8MF2E8 U-16MF2E8	U-12MF2E8 U-14MF2E8	U-14MF2E8 U-14MF2E8	U-14MF2E8 U-16MF2E8	
Power supply		V	380 / 400 / 415 Three Phase / 50 Hz							
Cooling capacity		kW	50.4	56.0	61.5	68.0	73.0	78.5	85.0	
EER ¹⁾	Nominal	W/W	4.27	3.97	3.80	3.68	3.58	3.49	3.41	
Running current	380 / 400 / 415 V	A	19.7 / 18.9 / 18.4	23.8 / 22.9 / 22.3	27.0 / 26.0 / 25.3	30.9 / 29.7 / 28.9	33.7 / 32.4 / 31.5	37.2 / 35.7 / 34.8	41.1 / 39.5 / 38.5	
Power input		kW	11.8	14.1	16.2	18.5	20.4	22.5	24.90	
Heating capacity		kW	56.5	63.0	69.0	76.5	81.5	87.5	95.0	
COP ¹⁾	Nominal	W/W	4.63	4.47	4.57	4.20	4.38	4.49	4.20	
Running current	380 / 400 / 415 V	A	20.4 / 19.6 / 19.1	23.8 / 22.9 / 22.3	25.2 / 24.2 / 23.6	30.4 / 29.2 / 28.5	31.1 / 29.8 / 29.1	32.6 / 31.3 / 30.5	37.7 / 36.2 / 35.3	
Power input		kW	12.2	14.1	15.1	18.2	18.6	19.5	22.6	
Air volume		m³/min	336		370			424		
Sound pressure level	High / Low	dB(A)	61.0 / 58.0	62.5 / 59.5	63.0 / 60.0		64.5 / 61.5	65.0 / 62.0		
Sound power level	Normal mode	dB	75.5 / 72.5	77.0 / 74.0	77.5 / 74.5		79.0 / 76.0	79.5 / 76.5		
Dimensions		H x W x D	mm							
Net weight		kg	538		591		636	644		
Piping connections	Suction pipe	inch			1-1/8				1 1/4	
	Discharge pipe	inch	7/8				1			1-1/8
	Liquid pipe	inch			5/8				3/4	
	Balance pipe	inch					1/4			
Refrigerant amount at shipment		kg	16.8	17.1	17.6	18.1	18.6			
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



150%
CAPACITY RATIO



	32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
	U-16MF2E8 U-16MF2E8	U-8MF2E8 U-12MF2E8 U-14MF2E8	U-8MF2E8 U-14MF2E8 U-14MF2E8	U-8MF2E8 U-14MF2E8 U-16MF2E8	U-8MF2E8 U-16MF2E8 U-16MF2E8	U-14MF2E8 U-14MF2E8 U-14MF2E8	U-14MF2E8 U-14MF2E8 U-16MF2E8	U-14MF2E8 U-16MF2E8 U-16MF2E8	U-16MF2E8 U-16MF2E8 U-16MF2E8
	380 / 400 / 415								
	Three Phase / 50 Hz								
	90.0	96.0	101.0	107.0	113.0	118.0	124.0	130.0	135.0
	3.38	3.74	3.66	3.60	3.55	3.48	3.43	3.40	3.38
	43.9 / 42.2 / 41.1	42.9 / 41.2 / 39.7	46.1 / 44.3 / 43.1	49.6 / 47.6 / 46.4	53.1 / 51.0 / 49.7	56.0 / 53.8 / 52.4	59.6 / 57.3 / 55.8	63.8 / 61.3 / 59.7	65.9 / 63.3 / 61.7
	26.6	25.7	27.6	29.7	31.8	33.9	36.1	38.2	39.9
	100.0	108.0	113.0	119.0	127.0	132.0	138.0	145.0	150.0
	4.03	4.44	4.52	4.33	4.12	4.46	4.30	4.14	4.03
	41.7 / 40.1 / 39.1	41.0 / 39.4 / 38.4	41.6 / 39.9 / 38.9	46.1 / 44.3 / 43.1	52.2 / 49.6 / 47.8	49.3 / 47.3 / 46.1	53.8 / 51.6 / 50.3	58.8 / 56.5 / 55.0	62.6 / 60.1 / 58.6
	24.8	24.3	25.0	27.5	30.8	29.6	32.1	35.0	37.2
	424		582				636		
	65.0 / 62.0		65.5 / 62.5				67.0 / 64.0		
	79.5 / 76.5		80.0 / 77.0				81.5 / 78.5		
	1,758 x 2,060 x 930				1,758 x 3,120 x 930				
	644	905		913			966		
	1 1/4					1-1/2			
		1-1/8					1 1/4		
					3/4				
					1/4				
	18.6	26.4		26.9			27.9		
					-10 / +46				
					-20 / +18				
					-10 / +24				