3-PIPE ECOi MF2 6N SERIES
HIGH EFFICIENCY COMBINATION
FROM 16 TO 32HP



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 8HP 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

- Standardisation 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			16HP	24HP	26HP	28HP	30HP	32HP
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	Voltage	V	380/400/415	380/400/415	380/400/415	380/400/415	380/400/415	380/400/415
	Phase		Three Phase	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	45,00	68,00	73,00	78,50	85,00	90,00
EER [1]		W/W	4,50	4,47	4,32	4,11	3,94	3,86
Running current	380V	A	17,30	26,20	28,50	32,20	36,50	38,90
	400V	A	16,40	24,90	27,40	31,00	35,00	37,40
	415V	A	16,00	24,30	26,70	30,20	34,10	36,40
Input power		kW	10,00	15,20	16,90	19,10	21,60	23,30
Heating capacity		kW	50,00	76,50	81,50	87,50	95,00	100,00
COP [1]		W/W	4,76	4,72	4,68	4,56	4,59	4,41
Running current	380V	A	17,90	27,70	29,40	32,40	35,00	38,30
	400V	A	17,00	26,30	27,90	31,10	33,60	36,80
	415V	A	16,60	25,60	27,50	30,40	32,70	35,90
Input power		kW	10,50	16,20	17,40	19,20	20,70	22,70
Air volume		m^3/min	316	474	494	528	528	582
Sound pressure	Hi / Lo	dB(A)	60,00/57,00	62,00/59,00	62,50/59,50	63,50/60,50	64,00/61,00	65,00/62,00
Dimension (Combination)	H x W x D	mm	1758 x 2060 x 930	1758 x 3120 x 930	1758 x 3120 x 930	1758 x 3120 x 930	1758 x 3120 x 930	1758 x 3120 x 930
Net weight		kg	538	807	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)	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)	1-1/8 (28,58)	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)	3/4 (19,05)	3/4 (19,05)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)		kg/TCO_2 Eq.	16,60/34,6608	24,90/51,9912	25,10/52,4088	25,40/53,0352	25,90/54,0792	25,90/54,0792
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

Solenoid valve kit		
KIT-P56HR3	KIT-P56HR3	3-Pipe control Solenoid valve kit (up to 5,6kW)
	CZ-P56HR3	Solenoid valve kit (up to 5,6kW)
	CZ-CAPE2	3-Pipe control PCB
KIT-P160HR3	KIT-P160HR3	3-Pipe control Solenoid valve kit (from 5,6 to 10,6kW)
	CZ-P160HR3	Solenoid valve kit (up to 16,0kW)
	CZ-CAPE2	3-Pipe control PCB
CZ-CAPEK2		3-Pipe control PCB for wall mounted

3-Pipe control box kit	
CZ-P456HR3	4 ports 3 pipe box (up to 5,6kW)
CZ-P656HR3	6 ports 3 pipe box (up to 5,6kW)
CZ-P856HR3	8 ports 3 pipe box (up to 5,6kW)
CZ-P4160HR3	4 ports 3 pipe box (up to 16,0kW)

1) EER and COP calculation is based in accordance to EN14511.

