

3-PIPE ECOi MF2 6N SERIES



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 8HP outdoor unit)
- Simultaneous cooling or heating operation for up to 26 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			8HP	10HP	12HP	14HP	16HP
Standard model			U-8MF2E8	U-10MF2E8	U-12MF2E8	U-14MF2E8	U-16MF2E8
Power supply	Voltage	V	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
	Frequency	Hz	50	50	50	50	50
Cooling capacity		kW	22,40	28,00	33,50	40,00	45,00
EER ¹⁾		W/W	4,50	4,10	3,70	3,45	3,38
SEER ²⁾		W/W	6,08	5,32	5,32	5,43	5,46
Running current	380V	A	8,60	11,30	15,10	19,20	22,00
	400V	A	8,20	10,80	14,50	18,40	21,10
	415V	A	8,00	10,60	14,10	17,90	20,60
Input power		kW	4,98	6,83	9,05	11,00	13,00
Heating capacity		kW	25,00	31,50	37,50	45,00	50,00
COP ¹⁾		W/W	4,77	4,55	4,30	4,41	4,03
SCOP ²⁾		W/W	4,16	3,72	3,87	3,89	3,68
Running current	380V	A	8,95	11,60	14,70	17,00	20,70
	400V	A	8,50	11,00	14,10	16,40	19,90
	415V	A	8,30	10,70	13,80	15,90	19,40
Input power		kW	5,240	6,920	8,720	10,20	12,40
Air volume		m ³ /min	158	178	212	212	212
Sound pressure	Hi / Lo	dB(A)	57,00/54,00	59,00/56,00	61,00/58,00	62,00/59,00	62,00/59,00
Dimension	H x W x D	mm	1758 x 1000 x 930	1758 x 1000 x 930	1758 x 1000 x 930	1758 x 1000 x 930	1758 x 1000 x 930
Net weight		kg	269	269	314	322	322
Piping connections	Suction pipe	Inch (mm)	3/4 (19,05)	7/8 (22,22)	1 (25,40)	1 (25,40)	1-1/8 (28,58)
	Discharge pipe	Inch (mm)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)	7/8 (22,22)
	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)
	Balance pipe	Inch (mm)	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.	8,30 / 17,3304	8,50 / 17,748	8,80 / 18,3744	9,30 / 19,4184	9,30 / 19,4184
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-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. 2) SEER/SCOP is calculated based on the seasonal space cooling/heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η₁ + Correction) × PEf.

