

MINI ECOi HIGH EFFICIENCY 4-6 HP



For light commercial use

Panasonic's Mini ECOi, the 2-Pipe heat pump small VRF system, is specifically designed for the most demanding applications. Offering between 12.1kW and 15.5kW cooling capacity in 3 sizes and up to 9 indoor units connected, the Mini ECOi sets standards of performance and flexibility. Utilising R410A and DC inverter technology, Panasonic offers VRF to a new and growing market.

Forming a new key part of the Panasonic VRF line up, the Mini ECOi is compatible with the same indoor units and controls as the rest of the ECOi range.

Technical focus

- Single Phase or Three Phase power supply
- One Amp start current
- DC inverter technology combined with R410A
- Diversity ratio 50-130%
- Cooling operation to -10°C
- Compact outdoor unit 1,330 x 940 x 410mm

HP			4 HP							5 HP							6 HP						
Model			U-4LE1E5			U-4LE1E8				U-5LE1E5			U-5LE1E8				U-6LE1E5			U-6LE1E8			
Power supply		V	220	230	240	380	400	415	220	230	240	380	400	415	220	230	240	380	400	415			
			Single Phase / 50Hz			Three Phase / 50Hz				Single Phase / 50Hz			Three Phase / 50Hz				Single Phase / 50Hz			Three Phase / 50Hz			
Cooling capacity	Nominal	kW	12.1			12.1				14.0			14.0				15.5			15.5			
EER ¹⁾	Nominal	W/W	4.30			4.30				4.20			4.20				3.45			3.45			
Running amperes		A	13.9	13.3	12.7	4.9	4.7	4.5	16.3	15.6	14.9	5.7	5.4	5.2	21.5	20.5	19.7	7.5	7.1	6.9			
Power input cooling	Nominal	kW	2.81			2.81				3.33			3.33				4.49			4.49			
Heating capacity	Nominal	kW	12.5			12.5				16.0			16.0				18.0			18.0			
COP ¹⁾	Nominal	W/W	4.62			4.62				4.30			4.30				3.95			3.95			
Running amperes		A	13.2	12.7	12.1	4.7	4.5	4.3	18.0	17.2	16.5	6.3	6.0	5.8	21.6	20.7	19.8	7.5	7.2	6.9			
Power input heating	Nominal	kW	2.71			2.71				3.72			3.72				4.56			4.56			
Starting amperes		A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
Maximum amperes		A	21.0	21.0	21.0	8.5	8.5	8.5	24.5	24.5	24.5	10.0	10.0	10.0	28.0	28.0	28.0	12.0	12.0	12.0			
Maximum power input		kW	4.44	4.64	4.84	5.15	5.42	5.62	5.17	5.41	5.64	6.06	6.37	6.61	5.91	6.18	6.45	7.27	7.65	7.94			
Maximum number of connectable indoor units			6			6				8			8				9			9			
Air volume	Cooling / Heating	m³/min	95			95				104			104				104			104			
Sound pressure level	Cooling (Hi / Lo)	dB(A)	50 / 47			50 / 47				51 / 48			51 / 48				52 / 49			52 / 49			
	Heating (Hi / Lo)	dB(A)	52 / 49			52 / 49				53 / 50			53 / 50				55 / 52			55 / 52			
Sound power level	Cooling (Hi)	dB	68			68				69			69				70			70			
	Heating (Hi)	dB	70			70				71			71				73			73			
Dimensions	H x W x D	mm	1,330 x 940 x 340			1,330 x 940 x 340				1,330 x 940 x 340			1,330 x 940 x 340				1,330 x 940 x 340			1,330 x 940 x 340			
Net weight		kg	104			103				104			103				104			103			
Piping connections	Liquid pipe	inch	9.52			9.52				9.52			9.52				9.52			9.52			
	Gas pipe	inch	15.88			15.88				15.88			15.88				19.05			19.05			
Refrigerant loading	R410A	kg	3.5			3.5				3.5			3.5				3.5			3.5			
Operating range	Cooling Min / Max	°C	-10 / 46			-10 / 46				-10 / 46			-10 / 46				-10 / 46			-10 / 46			
	Heating Min / Max	°C	-20 / 24			-20 / 24				-20 / 24			-20 / 24				-20 / 24			-20 / 24			
			-20 / 18			-20 / 18				-20 / 18			-20 / 18				-20 / 18			-20 / 18			

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



MINI ECOi

HIGH EFFICIENCY 8-10 HP

NEW



Quiet operation mode

In case of the installation at Condominium, quiet operation performance is important, especially in night time.

Increase External static pressure

When unit is installed at the narrow balcony, the fence at front side will be the obstacle. High external static pressure feature will keep the operating capacity and good advantage.

High ambient temperature performance

Until which ambient temperature, the unit can maintain the rated (100%) capacity. The temperature will be the maximum for cooling operation over 46°C.

Technical focus

- Three Phase power supply
- One Amp start current
- DC inverter technology combined with R410A
- Diversity ratio 50-130%
- Cooling operation to -10°C
- Compact outdoor unit 1,500 x 980 x 370mm

HP			8 HP			10 HP		
Model			U-8LE1E8*			U-10LE1E8*		
Power supply		V	380	400	415	380	400	415
			Three Phase / 50Hz			Three Phase / 50Hz		
Cooling capacity	Nominal	kW	22.4			25.0 / 28.0		
EER ¹⁾	Nominal	W/W	3.80			3.31 / 3.11		
Running amperes		A						
Power input cooling	Nominal	kW						
Heating capacity	Nominal	kW	25.0			28.0		
COP ¹⁾	Nominal	W/W	4.02			3.93		
Running amperes		A						
Power input heating	Nominal	kW						
Starting amperes		A						
Maximum amperes		A						
Maximum power input		kW						
Maximum number of connectable indoor units			13 ²			13 ²		
Air volume	Cooling / Heating	m ³ /min						
Sound pressure level	Cooling (Hi / Lo)	dB(A)	64			64		
	Heating (Hi / Lo)	dB(A)	65			65		
Sound power level	Cooling (Hi)	dB						
	Heating (Hi)	dB						
Dimensions	H x W x D	mm	1,500 x 980 x 370			1,500 x 980 x 370		
Net weight		kg	138			138		
Piping connections	Liquid pipe	inch						
	Gas pipe	inch						
Refrigerant loading	R410A	kg						
Operating range	Cooling Min / Max	°C	-10 / +46			-10 / +46		
	Heating Min / Max	°C	-20 / +18			-20 / +18		

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. 2) Maximum indoor unit number with 1.5kW model shall be set additionally.

* Tentative data.

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