

WALL MOUNTED ETHEREA INVERTER+ SILVER PLATED / WHITE



Included



Optional wired remote control CZ-RD514C



CU-E70KE



CU-E90KE

CU-E120KE

CU-E150KE



CU-E180KE



CU-E210KE



CU-E240KE

CU-E280KE



SEASONAL
EFFICIENCY
SEER — SCOP

A++



CS-E70KEW // CS-E90KEW // CS-E120KEW // CS-E150KEW



CS-XE180KEW



CS-E180KEW // CS-E210KEW // CS-E240KEW // CS-E280KES

ETHEREA

Ethera with enhanced Econavi sensor and new Nanoe-G air-purifying system: outstanding efficiency, comfort and healthy air combined with state-of-the-art design.

Econavi features an in-built human activity sensor and a new sunlight detection technology to adjust output thereby giving you the best comfort at anytime whilst saving energy. Econavi not only optimizes air flow orientation and volume according to human presence, it also reduces cooling power automatically by no/less sunshine. With Econavi, energy savings of up to 38% are possible, whilst increasing your comfort. Furthermore, the Nanoe-G revolutionary air-purifying system utilises nano technology fine particles to remove and deactivate 99% of both airborne and adhesive micro-organisms like bacteria, viruses and mould.

Technical focus

- This units can be installed on R22 pipings
- Maximum efficiency and comfort with Econavi, now with sunlight detection
- Nanoe-G air purifying system, 99 % effective on both airborne and adhesive mould, viruses, bacteria and pollen allergen
- Optional smartphone control
- Mild Dry Cooling: prevent a rapid decrease in room humidity
- Super Quiet! Only 20 dB(A), equivalent to night-time in the countryside (XE7, XE9, XE12, E7, E9 and E12)
- More powerful airflow to quickly reach the desired temperature

Kit Silver Plated			KIT-XE7-OKE	KIT-XE9-OKE	KIT-XE12-OKE	—	KIT-XE18-OKE	—	KIT-E21-OKE	—	KIT-E24-OKE	—
Kit White			KIT-E7-OKE	KIT-E9-OKE	KIT-E12-OKE	—	KIT-E18-OKE	—	KIT-E21-OKE	—	KIT-E24-OKE	—
Indoor Silver plated			CS-XE70KEW	CS-XE90KEW	CS-XE120KEW	—	CS-XE180KEW	—	—	—	—	—
Indoor White			CS-E70KEW	CS-E90KEW	CS-E120KEW	CS-E150KEW	CS-E180KEW	CS-E210KEW	CS-E240KEW	CS-E280KES	—	—
Outdoor			CU-E70KE	CU-E90KE	CU-E120KE	CU-E150KE	CU-E180KE	CU-E210KE	CU-E240KE	CU-E280KE	—	—
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,40)	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	6,30 (0,98 - 7,10)	6,80 (0,98 - 8,10)	7,65 (0,98 - 8,60)	—	—
EER ¹⁾	Nominal (Min - Max)	Energy Saving	4,46 (3,13-4,25) A	4,76 (3,47-4,20) A	4,19 (3,40-3,81) A	3,39 (3,27-3,25) A	3,47 (3,50-3,02) A	2,89 (3,50-2,84) C	3,27 (2,58-3,06) A	3,04 (2,58-2,95) B	—	—
SEER	Nominal	Energy Saving	6,90 A++	6,90 A++	7,60 A++	6,60 A++	6,90 A++	6,50 A++	6,10 A++	6,00 A+	—	—
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2	5,0	6,3	6,8	7,7	—	—
Power input cooling	Nominal (Min - Max)	kW	0,460 (0,240 - 0,565)	0,525 (0,245 - 0,715)	0,835 (0,250 - 1,050)	1,240 (0,260 - 1,540)	1,440 (0,280 - 1,990)	2,180 (0,280 - 2,500)	2,080 (0,380 - 2,650)	2,520 (0,380 - 2,920)	—	—
Annual electricity consumption (cooling) ²⁾		kWh/a	107	127	161	223	254	339	390	449	—	—
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,70 - 4,00)	3,40 (0,80 - 5,00)	4,00 (0,80 - 6,00)	5,30 (0,80 - 6,80)	5,80 (0,98 - 8,00)	7,20 (0,98 - 8,50)	8,60 (0,98 - 9,90)	9,60 (0,98 - 11,00)	—	—
Heating capacity at -7 °C	Nominal	kW	2,38	2,95	3,45	4,11	4,98	5,24	6,13	6,77	—	—
COP ¹⁾	Nominal (Min - Max)	Energy Saving	4,48 (3,89-4,00) A	4,72 (4,21-3,92) A	4,76 (4,21-3,75) A	3,73 (4,21-3,54) A	3,82 (2,88-3,11) A	3,44 (2,88-3,11) B	3,33 (2,18-3,19) C	2,96 (2,18-3,01) D	—	—
SCOP	Nominal	Energy Saving	4,40 A+	4,70 A++	4,80 A++	4,00 A+	4,20 A+	4,00 A+	3,90 A	3,80 A	—	—
Pdesign at -10 °C		kW	2,1	2,7	3,2	3,6	4,4	4,6	5,5	6,0	—	—
Power input heating	Nominal (Min - Max)	kW	0,625 (0,180 - 1,000)	0,720 (0,190 - 1,270)	0,840 (0,190 - 1,600)	1,420 (0,190 - 1,920)	1,520 (0,340 - 2,570)	2,090 (0,340 - 2,730)	2,580 (0,450 - 3,100)	3,240 (0,450 - 3,650)	—	—
Annual electricity consumption (heating) ²⁾		kWh/a	668	804	933	1.260	1.467	1.610	1.974	2.211	—	—
Indoor Unit												
Power source (Recommended fuse)	V (A)		230 (16)	230 (16)	230 (16)	230 (16)	230 (16)	230 (20)	230 (20)	230 (20)	—	—
Recommended power cable section	mm ²		1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5	—	—
Connection indoor / outdoor	mm ²		4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5	—	—
Current (Nominal)	Cooling / Heating	A	2,20 / 2,80	2,35 / 3,20	3,80 / 3,90	5,50 / 6,30	6,4 / 6,8	9,7 / 9,4	9,5 / 11,7	11,5 / 14,5	—	—
Maximum current		A	4,40	5,6	7,40	8,5	11,3	11,9	14,4	15,5	—	—
Air volume	Cooling / Heating	m ³ /h	726 / 738	768 / 774	804 / 822	852 / 876	1074 / 1158	1.134 / 1.200	1.188 / 1.272	1.266 / 1.314	—	—
Moisture removal volume		l/h	1,3	1,5	2	2,4	2,8	3,5	3,9	4,5	—	—
Sound pressure level ³⁾	Cooling (Hi / Lo / Q-Lo)	dB(A)	37 / 24 / 20	39 / 25 / 20	42 / 28 / 20	43 / 31 / 25	44 / 37 / 34	45 / 37 / 34	47 / 38 / 35	49 / 38 / 35	—	—
	Heating (Hi / Lo / Q-Lo)	dB(A)	38 / 25 / 20	40 / 27 / 20	42 / 33 / 20	43 / 35 / 29	44 / 37 / 34	45 / 37 / 34	47 / 38 / 35	48 / 38 / 35	—	—
Sound power level	Cooling / Heating (Hi)	dB	53 / 54	55 / 56	58 / 58	59 / 59	60 / 60	61 / 61	63 / 63	65 / 64	—	—
Dimensions ⁴⁾ / Net weight	H x W x D	mm / kg	295x870x255 / 10	295x870x255 / 10	295x870x255 / 10	295x870x255 / 10	295x1.070x255 / 13	295x1.070x255 / 13	295x1.070x255 / 13	295x1.070x255 / 13	—	—
Air purifier filter			Nanoe-G	Nanoe-G	Nanoe-G	Nanoe-G	Nanoe-G	Nanoe-G	Nanoe-G	Nanoe-G	—	—
Outdoor Unit												
Air volume	Cooling / Heating	m ³ /h	2.034 / 2.034	1.788 / 1.788	2.106 / 2.160	1.998 / 1.998	2.352 / 2.274	2.502 / 2.424	3.012 / 3.012	3.270 / 3.270	—	—
Sound pressure level ³⁾	Cooling / Heating (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51	47 / 47	48 / 49	52 / 52	53 / 53	—	—
Sound power level	Cooling / Heating (Hi)	dB	60 / 61	61 / 62	63 / 65	64 / 66	61 / 61	62 / 63	66 / 66	67 / 67	—	—
Dimensions ⁴⁾ / Net weight	H x W x D	mm / kg	542x780x289 / 31	542x780x289 / 33	619x824x299 / 35	619x824x299 / 33	695x875x320 / 46	695x875x320 / 47	795x875x320 / 67	795x875x320 / 67	—	—
Piping connections	Liquid pipe / Gas pipe	inch (mm)		1/4 (6,35) / 3/8 (9,52)			1/4 (6,35) / 1/2 (12,70)		1/4" (6,35) / 5/8" (15,88)		—	—
Refrigerant loading	R410A (GWP value)	kg	0,85	1,02	1,15	1,02	1,24	1,32	1,80	1,80	—	—
Elevation difference (in/out) ⁵⁾	Max	m	15	15	15	15	15	15	20	20	—	—
Piping length (Precharge)	Min / Max (Max)	m	3 / 15 (7,5)	3 / 15 (7,5)	3 / 15 (7,5)	3 / 15 (7,5)	3 / 20 (7,5)	3 / 20 (7,5)	3 / 30 (10)	3 / 30 (10)	—	—
Additional charge		g/m	20	20	20	20	20	20	30	30	—	—
Operating range	Cooling Min / Max	°C	-10 / +43	-10 / +43	-10 / +43	-10 / +43	-10 / +43	-10 / +43	-10 / +43	-10 / +43	—	—
	Heating Min / Max	°C	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	-15 / +24	—	—

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 230 V in accordance with EU directive 2002/31/EC. 2) The annual energy consumption is calculated in accordance with the ErP directive. 3) The Sound pressure level of the units shows the value measured of a position 1 metre in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. Q-Lo: Quiet mode. Lo: The lowest fan speed. 4) Add 70 mm for piping port. 5) When installing the outdoor unit at a higher position than the indoor unit.

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.

Internet Control Ready	Energy saving	7,60 A++ SEER	4,80 A++ SCOP	Air purifier 99% removal bacteria-virus-mold	Up to 38% energy savings (cooling)	Improved comfort	Perfect humidity control	Silent air 20 dB(A)	Easy control by BMS	Possible to use on R22 pipings	5 year compressor warranty
INTERNET CONTROL	INVERTER+	SEASONAL ENERGY EFFICIENCY RATIO	SEASONAL COEFFICIENT OF PERFORMANCE	nanoe-G	ECONAVI	AUTOCOMFORT	MILD DRY	SUPER QUIET	CONNECTIVITY	R22 RENEWAL	

INTERNET CONTROL READY: Optional. SEER and SCOP: For KIT-XE12-OKE and KIT-E12-OKE. MILD DRY: Maintains a Relative Humidity up to 10% higher than cooling operation. Ideal when sleeping with the air conditioner on. SUPER QUIET: For XE7, XE9, XE12, E7, E9 and XE12. 5 YEARS COMPRESSOR WARRANTY: Only for PRO partners.



Awarded with the prestigious iF Design Award 2013