

4 WAY 90x90 CASSETTE PACi STANDARD AND ELITE INVERTER+

The 4 Way 90x90 Cassette incorporates many new benefits due to advancements in design and technology.

Technical Focus

- New Circle Flow Flap for more even temp. distribution
- Higher efficiency split fin
- New DC fan motor
- Highly efficient and silent turbo fan
- Individual flap control for flexible air flow direction
- Easy to clean suction grill & flap
- Special adjustment for high ceiling application
- DC FAN for better efficiency and control



AIR INTAKE CHAMBER

1. Air intake box CZ-BCU2 for main unit.
 2. Air intake box CZ-ATU2* for Air intake plenum.
- * When using Air intake box (CZ-ATU2), Air intake plenum // (CZ-FDU2) is required.

**360°
air flow**



STANDARD

NEW

		Single Phase				Three Phase			
		6.0 kW	7.1 kW	10.0 kW	12.5 kW	10.0 kW	12.5 kW	14.0 kW	
KIT		KIT-60PUY1E5*	KIT-71PUY1E5*	KIT-100PUY1E5**	KIT-125PUY1E5**	KIT-100PUY1E8**	KIT-125PUY1E8**	KIT-140PUY1E8***	
Indoor		S-60PU1E5	S-71PU1E5	S-100PU1E5	S-125PU1E5	S-100PE1E8	S-125PE1E8	S-140PE1E8	
Outdoor		U-60PEY1E5	U-71PEY1E5	U-100PEY1E5	U-125PEY1E5	U-100PEY1E8	U-125PEY1E8	U-140PEY1E8	
Panel		CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	
Wired remote control		CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	
Cooling capacity	Nom. (Min-Max)	kW	6.0 (2.0-7.0)	7.1 (2.0-7.7)	10.0	12.5 (3.8-13.5)	10.0 (2.7-11.5)	12.5 (3.8-13.5)	14.0 (3.3-15.5)
EER¹⁾	Nom. (Min-Max)	W/W	3.55 (6.15-2.80) ◀A	3.24 (6.15-2.75) ◀A	3.11 ◀B	3.11 (4.22-2.70) ◀B	3.11 (5.09-2.74) ◀B	3.11 (4.22-2.70) ◀B	3.21 (3.93 - 2.58) ◀A
SEER		W/W	6.8 ◀A++	6.3 ◀A++	6.4 ◀A++	—	6.2 ◀A++	—	—
Pdesign		kW	6.0	7.1	10	—	—	—	—
Power input Cooling	Nom. (Min-Max)	kW	1.690 (0.325-2.500)	2.190 (0.325-2.800)	3.220 (0.530-4.200)	4.020 (0.900-5.000)	3.220 (0.530-4.200)	4.020 (0.900-5.000)	4.36 (0.84 - 6.00)
Annual Energy Consumption^{2-a)}			845	1095	1610	2010	1610	2155	
Annual Energy Consumption(ERP) 2-b)			309	394	547	—	564	—	
Heating capacity	Nom. (Min-Max)	kW	6.0 (1.8-7.0)	7.1 (1.8-8.1)	10.0	12.5 (3.4-15.0)	10.0 (2.1-13.8)	12.5 (3.4-15.0)	14.0 (4.1-16.0)
COP1)	Nom. (Min-Max)	W/W	4.05 (6.55-3.25) ◀A	3.78 (6.55-3.23) ◀A	3.80 ◀A	3.80 (4.66-3.41) ◀A	3.80 (5.12-3.45) ◀A	3.80 (4.66-3.41) ◀A	3.89 (4.56 - 3.08) ◀A
SCOP		W/W	4.0 ◀A+	4.0 ◀A+	4.0 ◀A+	—	4.0 ◀A+	—	
Pdesign at -10 °C		kW	6.0	6.0	10.0	—	10.0	—	
Power input Heating	Nom. (Min-Max)	kW	1.480 (0.275-2.155)	1.880 (0.275-2.510)	2.630 (0.410-4.000)	3.290 (0.730-4.400)	2.630 (0.410-4.000)	3.290 (0.730-4.400)	3.60 (0.90 - 5.20)
Annual Energy Consumption (ErP)^{2-b)}			2100	2100	3500	—	3500	—	
Indoor unit									
Air Volume	Cool / Heat	m ³ /h	960 / 960	1320 / 1320	1980 / 1980	2060 / 2060	1980 / 1980	2060 / 2060	2160 / 2160
Moisture removal volume		l/h	3.0	4.2	6.0	7.9	6.0	7.9	9.0
Sound pressure level	Cool (Hi/Me/Lo)	dB(A)	32 / 29 / 27	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34
	Heat (Hi/Me/Lo)	dB(A)	32 / 29 / 27	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34
Sound power level	Cool (Hi/Me/Lo)	dB	49 / 46 / 44	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51
	Heat (Hi/Me/Lo)	dB	49 / 46 / 44	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51
Dimensions H x W x D	Indoor	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight	Indoor (Panel)	kg	24 (4)	24 (4)	27 (4)	27 (4)	27 (4)	27 (4)	27 (4)
Outdoor unit									
Power source	V		220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	380 / 400 / 415	380 / 400 / 415	380 / 415
Recommended fuse									
Recommended cable size	m								
Connection	mm ²								2 x 1.5 or 2.5
Current Cooling	A	8.30 / 7.90 / 7.60	10.70 / 10.30 / 9.80	15.10 / 14.40 / 13.80	19.2 / 18.4 / 17.6	5.10 / 4.85 / 4.70	6.35 / 6.05 / 5.80	5.15	
Current Heating	A	7.20 / 6.90 / 6.60	9.10 / 8.70 / 8.30	12.00 / 11.60 / 11.20	15.4 / 14.8 / 14.2	4.15 / 3.95 / 3.80	5.15 / 4.90 / 4.70	5.20	
Air Volume	Cool / Heat	m ³ /h	1800 / 2100	2340	4560 / 4020	4800 / 4380	4560 / 4020	4800 / 4380	8100 / 6600
Sound pressure level³⁾	Cool / Heat (Hi)	dB(A)	48 / 50	50 / 52	54 / 54	56 / 56	54 / 54	56 / 56	54 / 53
Sound power level	Cool / Heat (Hi)	dB	65 / 69	70 / 70	70 / 70	73 / 73	70 / 70	73 / 73	71 / 70
Dimensions	H x W x D	mm	569 x 790 x 285	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	996 x 940 x 340	1416 x 940 x 340	
Net weight		kg	42	42	73	85	73	85	98
Piping connections	Liquid / Gas pipe	Inch (mm)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)
Refrigerant loading	R410A	kg	1.7	1.7	2.60	3.20	2.60	3.20	3.4
Elevation dif. (in/out)⁴⁾	Max	m	30	30	30	30	30	30	30
Piping length	Min/Max	m	50	50	5 / 50	5 / 50	5 / 50	5 / 50	5-75
Precharge length	Max	m	20	20	30	30	30	30	30
Additional charge		g/m	40	40	50	50	50	50	50
Operating range	Cool Min/Max	°C	-10 / 43	-10 / 43	-10 / 43	-10 / 43	-10 / 43	-10 / 43	-10 / 43
	Heat Min/Max	°C	-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. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

1) EER and COP, Energy Saving Classification, is at 220 / 240 V (380 / 415 V) only in accordance with EU directive 2002/31/EC. 2-a) The annual consumption is calculated by multiplying the input power at 220 / 240 V (380 / 415 V) by an average of 500 hours per year in cooling mode. 2-b) The annual consumption(ErP) is calculated by formula determined by ErP regulation. 3) The sound pressure level of the units shows the value measured of a position 1 meter in front of the main body and 1.5 from the ground. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 4) When installing the outdoor unit at a higher position than the indoor unit. // Recommended fuse for the indoor 3A. // * Available from May 2013. ** Available from January 2013. *** TBC. For detailed information about ErP, please visit our page <http://www.doc.panasonic.de>

STANDARD

A class
energy saving

INVERTER+

6.8 A++
SEER

SEASONAL ENERGY EFFICIENCY RATIO

4.0 A+
SCOP*

SEASONAL COEFFICIENT OF PERFORMANCE

Down to
-10 °C
in cooling mode

OUTDOOR TEMPERATURE

Down to
-15 °C
in heating mode

OUTDOOR TEMPERATURE

Easy control by BMS

CONNECTIVITY

Possible to use on R22 pipings

R22 RENEWAL

5 year
compressor warranty



U-60PEY1E5
U-71PEY1E5



U-100PEY1E5 U-100PEY1E8
U-125PEY1E5 U-125PEY1E8



U-140PEY1E8

SEER and SCOP: For KIT-60PUY1E5

PANEL

CZ-KPU2



OPTIONAL CONTROLLERS

Timer remote controller
CZ-RTC2



Wireless remote controller
CZ-RWSU2



Simplified remote controller
CZ-RE2C2



COMPATIBLE WITH ALL ECoI CONNECTIVITY SOLUTIONS



ELITE

		Single Phase						Three Phase				
		5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	
KIT		KIT-50PU1E5*	KIT-60PU1E5	KIT-71PU1E5	KIT-100PU1E5	KIT-125PU1E5	KIT-140PU1E5	KIT-PE71U1E8	KIT-100PU1E8	KIT-125PU1E8	KIT-140PU1E8	
Indoor		S-50PU1E5	S-60PU1E5	S-71PU1E5	S-100PU1E5	S-125PU1E5	S-140PU1E5	S-71PU1E5	S-100PU1E5	S-125PU1E5	S-140PU1E5	
Outdoor		U-50PE1E5	U-60PE1E5	U-71PE1E5	U-100PE1E5	U-125PE1E5	U-140PE1E5	U-71PE1E8	U-100PE1E8	U-125PE1E8	U-140PE1E8	
Panel		CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	CZ-KPU2	
Wired remote control		CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	CZ-RTC2	
Cooling capacity	Nom. (Min-Max)	5.0 (1.5-5.6)	6.0 (2.5-7.1)	7.1 (2.5-8.0)	10.0 (3.3-12.5)	12.5 (3.3-14.0)	14.0 (3.3-15.5)	7.1 (2.5-8.0)	10.0 (3.3-12.5)	12.5 (3.3-14.0)	14.0 (3.3-15.5)	
EER ¹⁾	Nom. (Min-Max)	3.70 (5.77-2.80) A	4.06 (5.56-3.55) A	3.94 (5.56-3.02) A	4.20 (3.93-3.38) A	3.60 (3.93-3.04) A	3.25 (3.93-2.58) A	3.94 (5.56-3.02) A	4.20 (3.93-3.38) A	3.60 (3.93-3.04) A	3.25 (3.93-2.58) A	
SEER	W/W	6.5 A+++	7.4 A+++	7.4 A+++	6.6 A+++	—	—	6.8 A+++	6.5 A+++	—	—	
Pdesign	kW	5.0	6.0	7.1	10.0	—	—	10.0	10.0	—	—	
Power input Cooling	Nom. (Min-Max)	1.350 (0.260-2.000)	1.480 (0.450-2.000)	1.800 (0.450-2.650)	2.380 (0.840-3.700)	3.470 (0.840-4.600)	4.310 (0.840-6.000)	1.800 (0.450-2.650)	2.380 (0.840-3.700)	3.470 (0.840-4.600)	4.310 (0.840-6.000)	
Annual Energy Consumption ^{2-a)}		675	740	900	1190	1735	2155	900	1190	1735	2155	
Annual Energy Consumption(ErP) ^{2-b)}		269	284	336	530	—	—	365	538	—	—	
Heating capacity	Nom. (Min-Max)	5.6 (1.5-6.5)	7.0 (2.0-8.0)	8.0 (2.0-9.0)	11.2 (4.1-14.0)	14.0 (4.1-16.0)	16.0 (4.1-18.0)	8.0 (2.0-9.0)	11.2 (4.1-14.0)	14.0 (4.1-16.0)	16.0 (4.1-18.0)	
COP ¹⁾	Nom. (Min-Max)	3.92 (6.82-2.83) A	3.87 (5.00-3.23) A	4.00 (5.00-3.10) A	4.31 (4.56-3.18) A	4.00 (4.56-3.08) A	3.70 (4.56-3.05) A	4.00 (5.00-3.10) A	4.31 (4.56-3.18) A	4.00 (4.56-3.08) A	3.70 (4.56-3.05) A	
SCOP	W/W	3.8 A	4.1 A+	4.1 A+	4.2 A+	—	—	4.0 A+	4.2 A+	—	—	
Pdesign at -10 °C	kW	4.0	6.0	7.1	10.0	—	—	7.1	10.0	—	—	
Power input Heating	Nom. (Min-Max)	1.430 (0.220-2.300)	1.810 (0.400-2.480)	2.000 (0.400-2.900)	2.600 (0.900-4.400)	3.500 (0.900-5.200)	4.330 (0.900-5.900)	2.000 (0.400-2.900)	2.600 (0.900-4.400)	3.500 (0.900-5.200)	4.330 (0.900-5.900)	
Annual Energy Consumption (ErP) ^{2-a)}		1474	2047	2424	1190	—	—	2485	1190	—	—	
Indoor unit												
Air Volume	Cool / Heat	m ³ /h	960 / 960	1260 / 1260	1320 / 1320	1980 / 1980	2100 / 2100	2160 / 2160	1320 / 1320	1980 / 1980	2100 / 2100	2160 / 2160
Moisture removal volume		l/h	2.8	3.4	4.2	6.0	7.9	9.0	4.2	6.0	7.9	9.0
Sound pressure level	Cool (Hi/Me/Lo)	dB(A)	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34
	Heat (Hi/Me/Lo)	dB(A)	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34	37 / 31 / 28	44 / 38 / 32	45 / 39 / 33	46 / 40 / 34
Sound power level	Cool (Hi/Me/Lo)	dB	49 / 46 / 44	53 / 48 / 45	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51
	Heat (Hi/Me/Lo)	dB	49 / 46 / 44	53 / 48 / 45	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51	54 / 48 / 45	62 / 55 / 49	63 / 56 / 50	64 / 57 / 51
Dimensions H x W x D	Indoor	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight	Indoor (Panel)	kg	24 (4)	24 (4)	24 (4)	27 (4)	27 (4)	27 (4)	24 (4)	27 (4)	27 (4)	
Outdoor unit												
Power source	V		220 / 240	220 / 240	220 / 240	220 / 240	220 / 240	220 / 240	380/415	380 / 415	380 / 415	380 / 415
Recommended fuse												
Recommended cable size	m											
Connection	mm ²		2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5	2 x 1.5 or 2.5
Current	Cool / Heat	A	6.5 / 6.9	6.90 / 8.20	8.10 / 9.00	10.30 / 11.40	15.30 / 15.40	19.00 / 19.20	— / —	3.50 / 3.85	5.15 / 5.20	6.45 / 6.50
Air Volume	Cool / Heat	m ³ /h	1800 / 2100	3600 / 3600	3600 / 3600	6600 / 5700	7800 / 6600	8100 / 7200	3600 / 3600	6600 / 5700	7800 / 6600	8100 / 7200
Sound pressure Level ³⁾	Cool / Heat (Hi)	dB(A)	46 / 50	48 / 50	48 / 50	52 / 52	53 / 53	54 / 55	48 / 50	52 / 52	53 / 53	54 / 55
Sound power level	Cool / Heat (Hi)	dB	65 / 69	65 / 67	65 / 67	69 / 69	70 / 70	71 / 71	65 / 67	69 / 69	70 / 70	71 / 71
Dimensions	H x W x D	mm	569 x 790 x 285	996 x 940 x 340	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight	kg		42	69	69	98	98	98	69	98	98	98
Piping connections	Liquid pipe	Inch (mm)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas pipe	Inch (mm)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Refrigerant loading	R410A	kg	1.65	2	2.35	3.4	3.4	3.4	2.35	3.4	3.4	3.4
Elevation dif. (in/out) ⁴⁾	Max	m	30	30	30	30	30	30	30	30	30	30
Piping length	Min/Max	m	40	5-50	5-50	5-75	5-75	5-75	5-50	5-75	5-75	5-75
Precharge length	Max	m	30	30	30	30	30	30	30	30	30	30
Additional charge	g/m		20	50	50	50	50	50	50	50	50	50
Operating range	Cool Min/Max	°C	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46	-15 / 46
	Heat Min/Max	°C	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Cooling Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb). // Specifications subject to change without notice.

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ELITE

A class
energy saving

7.4 A+++
SEER

4.1 A+
SCOP

Down to
-15 °C in
cooling mode

Down to
-20 °C in
heating mode

Easy
control by
BMS

Possible
to use on
R22 pipings

5 year
compressor
warranty



SEER and SCOP: For KIT-60PU1E5 and KIT-71PU1E5