

Specifications

R32 Deluxe Model



nanoe™ X as a standard*
*nanoe X Generator Mark 2 (except for 18.0-22.4kW)



Indoor Unit

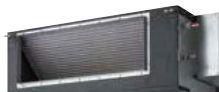
Hidden in your ceiling



7.1kW – 10.0kW
S-71PE3R / S-100PE3R



12.5kW – 16.0kW
S-125PE3R / S-140PE3R / S-160PE3R



18.0kW – 22.4kW
S-180PE3R5B / S-200PE3R5B / S-224PE3R5B

Outdoor Unit

Sits outside your home



7.1kW
U-71PZH3R5



10.0kW – 14.0kW
U-100PZH3R5 / U-100PZH3R6** / U-125PZH3R5
U-125PZH3R6** / U-140PZH3R5 / U-140PZH3R6**

** 3-Phase



16.0kW – 22.4kW
U-160PZH3R5 / U-160PZH3R6** / U-125PZH3R5
U-125PZH3R6** / U-200PZH3R6** / U-224PZH3R6**

** 3-Phase

Optional Controller

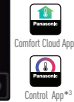
Variety of options, easy to use



CZ-RTC6BLW / CZ-RTC6BLW CONEX High-Spec.

This wired remote controller offer IoT integration that connects directly to a variety of apps.

** only for CZ-RTC6BLW
** only for CZ-RTC6BLW and CZ-RTC6BLW



CZ-RTC5B Deluxe Wired Remote Controller

This optional backlit LED large controller can be installed in your bed room so you can change the temperature during the night without turning on the light.



CZ-RTC4 Wired Remote Controller

The wall control with its large LCD display gives you full operational access and can be easily customised to suit your unique requirements.



CZ-RWS3 + CZ-RWRC3 Wireless Remote Controller

This wireless remote controller gives you the convenience to operate the unit from anywhere in the room.



PAC Smart Connectivity SER8150

Fully customisable and Building Management System ready wall controller.



CZ-CAPWFC1 Network Adaptor

Anywhere, anytime control and monitoring multiple air conditioning units.



Capacity		7.1kW	10.0kW	12.5kW	14.0kW	16.0kW	18.0kW	20.0kW	22.4kW
Model Name	Indoor Unit	S-71PE3R	S-100PE3R	S-100PE3R	S-125PE3R	S-125PE3R	S-160PE3R	S-160PE3R	S-224PE3R5B
	Outdoor Unit	U-71PZH3R5	U-100PZH3R5	U-100PZH3R6	U-125PZH3R5	U-125PZH3R6	U-160PZH3R5	U-160PZH3R6	U-224PZH3R6
Cooling capacity :	kW	7.1 (2.2 - 9.0)	10.0 (3.1 - 12.5)	10.0 (3.1 - 12.5)	12.5 (3.2 - 14.0)	14.0 (3.2 - 16.0)	16.0 (3.2 - 18.0)	16.0 (3.2 - 18.0)	16.0 (3.2 - 18.0)
	BTU/h	24,200 (6,800 - 30,700)	34,100 (10,600 - 42,700)	34,100 (10,600 - 42,700)	42,700 (10,900 - 47,800)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)
Cooling capacity :	kW	8.0 (2.0 - 9.0)	11.2 (3.1 - 14.0)	11.2 (3.1 - 14.0)	14.0 (3.2 - 16.0)	16.0 (3.2 - 18.0)	18.0 (3.2 - 20.0)	18.0 (3.2 - 20.0)	18.0 (3.2 - 20.0)
	BTU/h	27,300 (6,800 - 30,700)	38,200 (10,600 - 47,800)	38,200 (10,600 - 47,800)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	61,400 (11,300 - 68,200)	61,400 (11,300 - 68,200)	61,400 (11,300 - 68,200)
EER - COP	WW	3.48 - 3.88	3.79 - 3.78	3.79 - 3.78	3.57 - 3.80	3.25 - 3.68	3.29 - 3.53	3.25 - 3.53	3.09 - 3.52
COP@H condition	WW	2.80	2.77	2.77	2.72	2.65	2.61	2.61	2.60
Total power input	Cooling - Heating	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.80 - 2.80	2.80 - 2.80	2.80 - 2.80	2.80 - 2.80	2.80 - 2.80
	Hot Climate	4.68 - 4.82	5.04 - 5.10	5.04 - 5.10	4.92 - 5.17	4.79 - 4.69	4.71 - 4.41	4.71 - 4.41	4.35 - 4.35
TCSPF : HSPF	Residential	Average Climate	4.11 - 4.22	4.44 - 4.34	4.44 - 4.34	4.49 - 4.40	3.92 - 4.07	3.80 - 3.99	3.92 - 4.27
		Cold Climate	4.19 - 3.79	4.64 - 3.93	4.64 - 3.90	4.60 - 3.90	4.63 - 3.67	3.85 - 3.55	4.62 - 3.74
	Commercial	Hot Climate	5.15 - 4.85	5.55 - 5.15	5.55 - 5.15	5.36 - 5.23	4.63 - 4.74	4.63 - 4.63	4.75 - 5.03
		Average Climate	5.00 - 4.52	5.47 - 4.73	5.47 - 4.73	5.55 - 4.80	4.60 - 4.39	4.54 - 4.28	4.77 - 4.77
Indoor Unit	Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source	V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V
Current (rated)	Cooling - Heating	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	H x W x D	360 x 1,200 x 700	360 x 1,200 x 700	360 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700
Net weight	Indoor	kg	37	37	41	41	50	50	86
	Outdoor	kg	37	37	41	41	50	50	86
Air volume (M/M/L)	Cooling - Heating	L/s	501 / 334 / 307 - 501 / 334 / 307	689 / 584 / 484 - 689 / 584 / 484	689 / 584 / 484 - 689 / 584 / 484	835 / 718 / 601 - 835 / 718 / 601	835 / 718 / 601 - 835 / 718 / 601	1,002 / 856 / 701 - 1,002 / 856 / 701	1,002 / 856 / 701 - 1,002 / 856 / 701
	External static pressure	Pa	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)**	100 (10 - 150)**	100 (10 - 150)**
Sound pressure level (dB(A))	Cooling - Heating	dB(A)	45 / 44 / 43 - 45 / 44 / 43	49 / 46 / 44 - 48 / 46 / 44	49 / 46 / 44 - 48 / 46 / 44	49 / 47 / 45 - 49 / 47 / 45	49 / 47 / 45 - 49 / 47 / 45	51 / 49 / 47 - 51 / 49 / 47	51 / 49 / 47 - 51 / 49 / 47
	Sound pressure level (Silent mode)	dB	62 / 61 / 60 - 62 / 61 / 60	70 / 68 / 66 - 70 / 68 / 66	70 / 68 / 66 - 70 / 68 / 66	71 / 69 / 67 - 71 / 69 / 67	73 / 71 / 69 - 73 / 71 / 69	73 / 71 / 69 - 73 / 71 / 69	73 / 71 / 69 - 73 / 71 / 69
Number of fan speeds	Indoor	3	3	3	3	3	3	3	3
	Outdoor	3	3	3	3	3	3	3	3
Drain piping	mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit	Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz
	Power source	V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V	230V / 240V
Current (rated)	Cooling - Heating	A	9.85 - 9.95 / 9.55 - 9.45	12.8 - 14.3 / 12.2 - 13.7	12.25 - 4.75 / 4.15 - 4.60	16.7 - 17.4 / 16.0 - 16.8	5.68 - 5.90 / 5.40 - 5.70	6.88 - 6.70 / 6.35 - 6.45	7.00 - 2.11 / 1.91 - 2.01
	H x W x D	mm	996 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340	1,500 x 980 x 370	1,500 x 980 x 370
Net weight	Indoor	kg	66	99	99	99	99	117	115
	Outdoor	kg	66	99	99	99	99	117	115
Air volume	Cooling - Heating	L/s	1,018 - 1,002	1,970 - 1,803	1,970 - 1,803	2,087 - 1,870	2,154 - 1,937	2,738 - 2,738	2,733 - 2,733
	Sound pressure level (Silent mode)	dB(A)	49 (64) - 50 (68)	52 (50) - 52 (50)	53 (51) - 53 (51)	53 (51) - 53 (51)	54 (52) - 54 (52)	58 (56) - 60 (58)	58 (56) - 62 (60)
Sound pressure level (Silent mode)	Cooling - Heating	dB	64 (62) - 66 (64)	68 (66) - 68 (66)	69 (67) - 69 (67)	69 (67) - 69 (67)	70 (68) - 70 (68)	76 (74) - 78 (76)	77 (75) - 81 (79)
	Piping connections	Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	
Pipe length range	min. - max.	m	5 - 85	5 - 85	5 - 85	5 - 85	5 - 75	5 - 60	
	Elevation difference (DU located lower, DU located higher)	m	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	
Maximum chargeless length	Indoor	m	30	30	30	30	30	30	
	Outdoor	m	30	30	30	30	30	30	
Refrigerant at shipping / Additional gas amount	kg	R32 1,950 / 4.5 (g/m)	R32 3,050 / 4.5 (g/m)	R32 3,050 / 4.5 (g/m)	R32 3,050 / 4.5 (g/m)	R32 3,050 / 4.5 (g/m)	R32 3,200 / 4.5 (g/m)	R32 3,200 / 4.5 (g/m)	
	Operating range	°C	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24	-15 to 48 - -20 to 24

Notes:
 • In the case of nano X OFF • In case it is necessary to indicate the air flow volume in [L/s], the value in [m³/min] shall be multiplied by 16.7 and rounded down the decimal point.
 • AER and ACPD classification is at 230V(400V) only in accordance with GEMS2019. • TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.
 • Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
 ** Outdoor power supply. ** Not adjustable, refer to "Indoor Fan Performance" section of technical data.
 ** Tubing size may differ depending on pipe length. Please refer to technical documents. ** Additional gas amount is 45g/m when the piping length is under 50m and 60g/m when the piping length is over 50m.

Specifications

R32 Compact Model

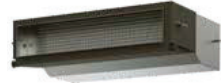


nanoe™X
nanoe™X as a standard*
*nanoe X Generator Mark 2



Indoor Unit

Hidden in your ceiling



6.0kW
S-60PE3R



7.1kW - 10.0kW
S-71PE3R / S-100PE3R



12.5kW - 14.0kW
S-125PE3R / S-140PE3R

Outdoor Unit

Sits outside your home



6.0kW - 7.1kW
U-60PZ3R5 / U-71PZ3R5



10.0kW - 14.0kW
U-100PZ3R5 / U-100PZ3R8* / U-125PZ3R5
U-125PZ3R8* / U-140PZ3R5 / U-140PZ3R8*
*1 3-Phase

Optional Controller

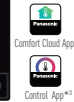
Variety of options, easy to use



CZ-RTC6BL / CZ-RTC6BLW
CONEX High-Spec.

This wired remote controller offer IoT integration that connects directly to a variety of apps.

** only for CZ-RTC6BLW
** only for CZ-RTC6BL and CZ-RTC6BLW



CZ-RTC5B
Deluxe Wired Remote Controller

This optional backlit LED large controller can be installed in your bed room so you can change the temperature during the night without turning on the light.



CZ-RTC4
Wired Remote Controller

The wall control with its large LCD display gives you full operational access and can be easily customised to suit your unique requirements.



CZ-RW33 + CZ-RWRC3
Wireless Remote Controller

This wireless remote controller gives you the convenience to operate the unit from anywhere in the room.



PAC Smart
Connectivity
SER8150

Fully customisable and Building Management System ready wall controller.



CZ-CAPWFC1
Network Adaptor

Anywhere, anytime control and monitoring multiple air conditioning units.

Note: CZ-RTC6BL, CZ-RTC6BLW, CZ-RTC5B or selected wireless remote controller is needed to turn on or turn off nanoe™ X, please consult Panasonic for details. Product images not to scale.

Capacity		6.0kW		7.1kW		10.0kW		12.5kW		14.0kW		
Model Name	Indoor Unit	S-60PE3R	S-71PE3R	S-100PE3R	S-100PE3R	S-125PE3R	S-125PE3R	S-140PE3R	S-140PE3R	S-140PE3R	S-140PE3R	
Model Name	Outdoor Unit	U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8	U-140PZ3R8	U-140PZ3R8	
Heating capacity :	kW	6.0 (2.0 - 7.1)	7.1 (2.6 - 7.7)	10.0 (3.0 - 11.5)	10.0 (3.0 - 11.5)	12.5 (3.2 - 13.5)	12.5 (3.2 - 13.5)	14.0 (3.3 - 15.0)	14.0 (3.3 - 15.0)	14.0 (3.3 - 15.0)	14.0 (3.3 - 15.0)	
	BTU/h	20,500 (6,800 - 24,200)	24,200 (6,900 - 26,300)	34,100 (10,200 - 39,200)	34,100 (10,200 - 39,200)	42,700 (10,900 - 46,100)	42,700 (10,900 - 46,100)	47,800 (11,300 - 51,200)	47,800 (11,300 - 51,200)	47,800 (11,300 - 51,200)	47,800 (11,300 - 51,200)	
Cooling capacity :	kW	6.0 (1.8 - 7.0)	7.1 (2.1 - 8.1)	10.0 (3.0 - 14.0)	10.0 (3.0 - 14.0)	12.5 (3.3 - 15.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)	
	BTU/h	20,500 (6,100 - 23,900)	24,200 (6,200 - 27,600)	34,100 (10,200 - 47,800)	34,100 (10,200 - 47,800)	42,700 (11,300 - 51,200)	42,700 (11,300 - 51,200)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)	
EER : COP	WW	3.26 - 4.08	3.21 - 4.25	3.58 - 4.08	3.58 - 4.08	3.55 - 4.03	3.55 - 4.03	3.25 - 3.76	3.25 - 3.76	3.25 - 3.76	3.25 - 3.76	
COP@H2 condition	WW	3.08	3.11	2.88	2.88	2.56	2.56	2.68	2.68	2.68	2.68	
	WW	3.84 - 4.47	3.71 - 4.67	3.79 - 2.45	3.79 - 2.45	3.52 - 3.10	3.52 - 3.10	4.31 - 3.77	4.31 - 3.77	4.31 - 3.77	4.31 - 3.77	
Total power input	Residential	Hot Climate	3.96 - 3.95	3.96 - 4.05	4.64 - 3.95	4.64 - 3.95	4.68 - 3.93	4.68 - 3.93	4.77 - 3.79	4.77 - 3.79	4.77 - 3.79	4.77 - 3.79
		Average Climate	3.54 - 3.88	3.59 - 4.00	4.17 - 3.81	4.17 - 3.81	4.16 - 3.79	4.16 - 3.79	3.92 - 3.64	3.92 - 3.64	3.92 - 3.64	3.92 - 3.64
		Cold Climate	3.58 - 3.59	3.63 - 3.70	4.23 - 3.55	4.23 - 3.55	4.26 - 3.47	4.26 - 3.47	4.03 - 3.34	4.03 - 3.34	4.03 - 3.34	4.03 - 3.34
		Commercial	Hot Climate	4.25 - 3.83	4.22 - 3.91	4.99 - 3.90	4.99 - 3.90	4.96 - 3.84	4.96 - 3.84	4.56 - 3.70	4.56 - 3.70	4.56 - 3.70
TCSPP : HSPF	Commercial	Average Climate	4.16 - 3.74	4.19 - 3.83	4.98 - 3.80	4.98 - 3.80	4.88 - 3.73	4.88 - 3.73	4.53 - 3.58	4.53 - 3.58	4.53 - 3.58	4.53 - 3.58
		Cold Climate	4.38 - 3.58	4.41 - 3.67	5.28 - 3.61	5.28 - 3.61	5.20 - 3.52	5.20 - 3.52	4.81 - 3.40	4.81 - 3.40	4.81 - 3.40	4.81 - 3.40
Indoor Unit												
Power source	Phase/Rt	1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz		
Dimensions	H x W x D	230V / 240V		230V / 240V		230V / 240V		230V / 240V		230V / 240V		
Net weight	Indoor / Panel	279 x 1,200 x 700		360 x 1,200 x 700		430 x 1,200 x 700		430 x 1,200 x 700		430 x 1,200 x 700		
Air volume (NAM)	Cooling - Heating	307 / 336 / 367 - 367 / 336 / 367		500 / 534 / 567 - 567 / 534 / 567		668 / 594 / 684 - 668 / 594 / 684		835 / 768 / 681 - 835 / 768 / 681		1,002 / 835 / 701 - 1,002 / 835 / 701		
External static pressure	Pa	70 (10 - 150)		100 (10 - 150)		100 (10 - 150)		100 (10 - 150)		100 (10 - 150)**		
Sound pressure level (dBA)	Cooling - Heating	43 / 41 / 40 - 43 / 41 / 40		45 / 44 / 43 - 45 / 44 / 43		48 / 44 / 44 - 48 / 44 / 44		49 / 47 / 45 - 49 / 47 / 45		51 / 49 / 47 - 51 / 49 / 47		
Sound power level (dBM)	Cooling - Heating	60 / 58 / 57 - 60 / 58 / 57		62 / 61 / 60 - 62 / 61 / 60		70 / 68 / 66 - 70 / 68 / 66		71 / 69 / 67 - 71 / 69 / 67		73 / 71 / 69 - 73 / 71 / 69		
Number of fan speeds		3		3		3		3		3		
Drain piping	mm	VP-25		VP-25		VP-25		VP-25		VP-25		
Outdoor Unit												
Power source	Phase/Rt	1 Phase / 50Hz		1 Phase / 50Hz		3 Phase / 50Hz		3 Phase / 50Hz		3 Phase / 50Hz		
Current (rated)	Cooling - Heating	230V / 240V		230V / 240V		230V / 240V		230V / 240V		230V / 240V		
Dimensions	H x W x D	858 x 865 / 815 : 815 : 815		1123 : 810 / 1190 : 745		1123 : 810 / 1123 : 1123 : 1123		1123 : 810 / 1123 : 1123 : 1123		1123 : 810 / 1123 : 1123 : 1123		
Net weight	kg	495 x 875 x 370		495 x 875 x 370		894 x 980 x 270		894 x 980 x 270		894 x 980 x 270		
Air volume	Cooling - Heating	701 / 701		746 - 766		1,219 - 1,219		1,369 - 1,336		1,402 - 1,369		
Sound pressure level (Silent mode)	Cooling - Heating	48 (44) - 49 (47)		49 (47) - 49 (47)		52 (50) - 52 (50)		55 (53) - 55 (53)		56 (54) - 56 (54)		
Sound power level (Silent mode)	Cooling - Heating	66 (64) - 67 (65)		67 (65) - 67 (65)		70 (68) - 70 (68)		73 (71) - 73 (71)		74 (72) - 74 (72)		
Piping connections	Liquid / Gas	Ø6.35 / Ø12.7**		Ø6.35 / Ø15.88**		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		
Pipe length range	min. - max.	3 - 40		3 - 40		5 - 50		5 - 50		5 - 50		
Elevation difference (DU located lower, DU located higher)	m	15 - 30		15 - 30		15 - 30		15 - 30		15 - 30		
Maximum chargeable length	m	30		30		30		30		30		
Refrigerant at shipping. Additional gas amount	g	R32 1,130 / 15 (g/m)		R32 1,320 / 17 (g/m)		R32 2,400 / 45 (g/m)		R32 2,800 / 45 (g/m)		R32 2,800 / 45 (g/m)		
Operational range	Cooling - Heating	-10 to 48 - 15 to 24		-10 to 48 - 15 to 24		-10 to 48 - 15 to 24		-10 to 48 - 15 to 24		-10 to 48 - 15 to 24		

Note:
 • In the case of nanoe X OFF • In the case it is necessary to indicate the air flow volume in (L/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
 • AER and ACDP classification is at 230V(400V) only in accordance with GEMSD2019. • TCSPP, HSPF and Total Energy Consumption indicate the value of average temperature zone.
 • Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
 ** Not adjustable, refer to "Indoor Fan Performance" section of technical data.
 * For piping connection for 6.0kW unit, connect the gas socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.
 ** For piping connection for 7.1kW unit, connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.