

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-180PZH3R6** / 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-RTC6BL and CZ-RTC6BLW

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.



Comfort Cloud App**



Conix App**



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.



Comfort Cloud

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-140PE3R	S-160PE3R	S-160PE3R
	Outdoor Unit	U-71PZH3R5	U-100PZH3R5	U-100PZH3R6	U-125PZH3R5	U-125PZH3R6	U-140PZH3R5	U-140PZH3R6	U-160PZH2R5
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)	12.5 (3.2 - 14.0)	14.0 (3.3 - 16.0)	14.0 (3.3 - 16.0)	16.0 (5.5 - 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)	42,700 (10,900 - 47,800)	47,800 (11,300 - 54,600)	47,800 (11,300 - 54,600)	54,600 (18,800 - 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)	14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)	18.0 (5.5 - 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)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)	61,400 (18,800 - 68,200)
EER - COP	WW	3.48 - 3.88	3.79 - 3.78	3.79 - 3.78	3.57 - 3.80	3.57 - 3.80	3.26 - 3.68	3.29 - 3.53	3.33 - 3.67
COP@H condition	WW	2.80	2.77	2.77	2.72	2.72	2.65	2.61	2.60
Total power input	Cooling - Heating	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.50 - 3.68	2.50 - 3.68	2.40 - 4.35	2.40 - 4.35	2.40 - 4.35
	Hot Climate	4.68 - 4.82	5.04 - 5.10	5.04 - 5.10	4.92 - 5.17	4.92 - 5.17	4.79 - 4.69	4.71 - 4.41	4.71 - 4.41
TCSPF : HSPF	Residential	Average Climate	4.11 - 4.22	4.46 - 4.34	4.46 - 4.34	4.49 - 4.40	4.49 - 4.40	3.92 - 4.07	3.90 - 3.99
		Cold Climate	4.19 - 3.79	4.64 - 3.93	4.64 - 3.93	4.60 - 3.90	4.60 - 3.90	4.03 - 3.62	3.85 - 3.55
	Commercial	Hot Climate	5.15 - 4.85	5.55 - 5.15	5.55 - 5.15	5.36 - 5.23	5.36 - 5.23	4.63 - 4.74	4.63 - 4.63
		Average Climate	5.00 - 4.52	5.47 - 4.73	5.47 - 4.73	5.55 - 4.80	5.55 - 4.80	4.64 - 4.39	4.54 - 4.28
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	mm	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
	Hot Climate	mm	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
Net weight	Indoor	kg	37	37	37	41	41	50	50
	Outdoor	kg	37	37	37	41	41	50	50
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
	Hot Climate	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	Cooling - Heating	Pa	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)**	100 (10 - 150)**	100 (10 - 150)**
	Hot Climate	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
	Hot Climate	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 power level (dB)	Cooling - Heating	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	71 / 69 / 67 - 71 / 69 / 67	73 / 71 / 69 - 73 / 71 / 69	73 / 71 / 69 - 73 / 71 / 69
	Hot Climate	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	71 / 69 / 67 - 71 / 69 / 67	73 / 71 / 69 - 73 / 71 / 69	73 / 71 / 69 - 73 / 71 / 69
Number of fan speeds	Cooling - Heating	mm	3	3	3	3	3	3	3
	Hot Climate	mm	3	3	3	3	3	3	3
Drain piping	Cooling - Heating	mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
	Hot Climate	mm	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	3 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	12.8 - 14.3 / 12.2 - 13.7	16.7 - 17.4 / 16.0 - 16.8	16.7 - 17.4 / 16.0 - 16.8	19.7 - 19.9 / 18.9 - 19.1	19.7 - 19.9 / 18.9 - 19.1
	Hot Climate	A	9.85 - 9.95 / 9.55 - 9.45	12.8 - 14.3 / 12.2 - 13.7	12.8 - 14.3 / 12.2 - 13.7	16.7 - 17.4 / 16.0 - 16.8	16.7 - 17.4 / 16.0 - 16.8	19.7 - 19.9 / 18.9 - 19.1	19.7 - 19.9 / 18.9 - 19.1
Dimension	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
	Hot Climate	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	Cooling - Heating	kg	66	99	99	99	99	117	115
	Hot Climate	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 - 1,937	2,087 - 1,937	2,738 - 2,738	2,733 - 2,733
	Hot Climate	L/s	1,018 - 1,002	1,970 - 1,803	1,970 - 1,803	2,087 - 1,937	2,087 - 1,937	2,738 - 2,738	2,733 - 2,733
Sound pressure level (dB(A))	Cooling - Heating	dB(A)	49 (64) - 50 (68)	52 (50) - 52 (50)	52 (50) - 52 (50)	53 (51) - 53 (51)	54 (52) - 54 (52)	58 (56) - 60 (58)	58 (56) - 60 (58)
	Hot Climate	dB(A)	49 (64) - 50 (68)	52 (50) - 52 (50)	52 (50) - 52 (50)	53 (51) - 53 (51)	54 (52) - 54 (52)	58 (56) - 60 (58)	58 (56) - 60 (58)
Sound power level (dB)	Cooling - Heating	dB	64 (62) - 64 (64)	68 (66) - 68 (66)	68 (66) - 68 (66)	69 (67) - 69 (67)	70 (68) - 70 (68)	76 (74) - 78 (76)	76 (74) - 78 (76)
	Hot Climate	dB	64 (62) - 64 (64)	68 (66) - 68 (66)	68 (66) - 68 (66)	69 (67) - 69 (67)	70 (68) - 70 (68)	76 (74) - 78 (76)	76 (74) - 78 (76)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
	Hot Climate	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	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 - 85	5 - 85	5 - 85
	Hot Climate	m	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85
Elevation difference (DU located lower, OU located higher)	Cooling - Heating	m	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30
	Hot Climate	m	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30
Maximum chargeable length	Cooling - Heating	m	30	30	30	30	30	30	30
	Hot Climate	m	30	30	30	30	30	30	30
Refrigerant at shipping / Additional gas amount	Cooling - Heating	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)
	Hot Climate	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	Cooling - Heating	°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
	Hot Climate	°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 nanoe 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.