

# 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-71PZH3RS



10.0kW – 14.0kW  
U-100PZH3RS / U-100PZH3R8\*  
U-125PZH3RS  
U-125PZH3R8\* / U-140PZH3RS / U-140PZH3R8\*

\* 3-Phase



16.0kW – 22.4kW  
U-160PZH3RS / U-160PZH3R8\*  
U-180PZH3RS\* / U-200PZH3R8\*  
U-224PZH3R8\*

\* 3-Phase

### Optional Controller

Variety of options, easy to use



CZ-RTC6BLW / CZ-RTC6BLX  
CONEX High-Spec.

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

\*\* only for CZ-RTC6BLW  
\*\* only for CZ-RTC6BLX 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  
SERB150

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-140PE3R	S-160PE3R	S-200PE3R5B	S-224PE3R5B		
	Outdoor Unit	U-71PZH3RS	U-100PZH3RS	U-100PZH3R8	U-125PZH3RS	U-140PZH3R8	U-160PZH3RS	U-160PZH3R8	U-180PZH3R8		
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 (5.5 - 18.0)	18.0 (5.5 - 20.0)	20.0 (5.7 - 22.4)		
	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 (18,800 - 61,400)	61,400 (18,800 - 68,200)	68,200 (18,800 - 76,400)		
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	3.23 - 3.75	3.09 - 3.52		
	WW	3.80	3.77	3.77	3.73	3.65	3.61	3.57	3.48		
Total power input	Cooling - Heating	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84	2.84 - 2.84		
	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		
TCSFP - 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	4.63 - 3.67	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	4.53 - 4.63	4.75 - 5.03		
		Average Climate	5.00 - 4.52	5.47 - 4.73	5.55 - 4.80	5.35 - 4.80	4.60 - 4.39	4.54 - 4.28	4.77 - 4.77		
Indoor Unit	Power source	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V		
	Current (rated)	Cooling - Heating	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		
	Dimension H x W x D	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	kg	37	37	37	41	50	50	86		
	Air volume (AMM)	Cooling - Heating	L/s	501/334/307/501/334/307	669/584/484/669/584/484	669/584/484/669/584/484	835/768/601/835/768/601	1,002/856/701/1,002/856/701	1,002/856/701/1,002/856/701	1,200/1,050/883/1,200/1,050/883	
	External static pressure	Pa	180 (18 - 150)	180 (18 - 150)	180 (18 - 150)	180 (18 - 150)	180 (18 - 150)**	180 (18 - 150)**	180 (18 - 150)**		
	Sound pressure level (HM/L)	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)	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	73/71/69/73/71/69	73/71/69/73/71/69	78/76/73/78/76/73	
	Number of fan speeds		3	3	3	3	3	3	3		
	Drain piping	mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25		
	Outdoor Unit	Power source	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	3 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	1 Phase / 50Hz 230V / 240V	3 Phase / 50Hz 230V / 240V	3 Phase / 50Hz 230V / 240V	
		Current (rated)	Cooling - Heating	A	9.85 - 9.95 / 9.55 - 9.45	12.8 - 14.3 / 12.2 - 13.7	8.25 - 8.75 / 8.15 - 8.60	5.68 - 5.90 / 5.40 - 5.70	6.88 - 6.70 / 6.35 - 6.45	7.00 - 7.11 / 6.70 - 7.25	8.45 - 8.40 / 8.15 - 8.30
		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	1,416 x 940 x 340	1,500 x 980 x 370	
		Net weight	kg	66	99	99	99	99	117	115	
		Air volume	Cooling - Heating	L/s	1,018 - 1,002	1,970 - 1,803	2,087 - 1,870	2,154 - 1,937	2,738 - 2,738	2,738 - 2,738	2,667 - 2,667
		Sound pressure level (Silent mode)	Cooling - Heating	dB(A)	49 (64) - 50 (48)	52 (50) - 52 (50)	53 (51) - 53 (51)	54 (52) - 54 (52)	58 (56) - 60 (58)	58 (56) - 62 (60)	58 (56) - 62 (60)
		Sound pressure level (Silent mode)	Cooling - Heating	dB	64 (62) - 66 (64)	68 (66) - 68 (66)	69 (67) - 69 (67)	70 (68) - 70 (68)	76 (74) - 78 (76)	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	Ø9.52 / Ø15.88		
Pipe length range		min. - max.	m	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 60		
Elevation difference (DU located lower, OU located higher)		m	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30	15 - 30		
Maximum chargeless length		m	30	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 3,050 / 4.5 (g/m)	R32 3,050 / 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		

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 ACDP classification is at 230V/400V only in accordance with GEMS2019. • TCSFP, 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.

Capacity			6.0kW	7.1kW	10.0kW	12.5kW	14.0kW
Model Name	Indoor Unit	Outdoor Unit	S-60PE3R U-60PZ3R5	S-71PE3R U-71PZ3R5	S-100PE3R U-100PZ3R5	S-125PE3R U-100PZ3R8 U-125PZ3R5	S-140PE3R U-140PZ3R5 U-140PZ3R8
Heating capacity :			6.0 (2.0 - 7.1) 6.0 (1.8 - 7.0)	7.1 (2.6 - 7.7) 7.1 (2.1 - 8.1)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
Cooling capacity :			20,500 (6,800 - 24,200) 20,500 (6,100 - 24,900)	24,200 (8,900 - 26,300) 24,200 (7,200 - 27,600)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP			3.26 : 4.08	3.21 : 4.25	3.58 : 4.08	3.55 : 4.03	3.25 : 3.76
COP@H2 condition			3.08	3.11	2.88	2.56	2.68
Total power input		Cooling : Heating	1.84 : 1.47	2.21 : 1.87	2.79 : 2.45	3.52 : 3.10	4.31 : 3.77
TCSPF : HSPF	Residential	Hot Climate	3.96 : 3.95	3.96 : 4.05	4.64 : 3.95	4.68 : 3.93	4.77 : 3.79
		Average Climate	3.54 : 3.88	3.59 : 4.00	4.17 : 3.81	4.16 : 3.79	3.92 : 3.64
		Cold Climate	3.58 : 3.59	3.63 : 3.70	4.23 : 3.55	4.26 : 3.47	4.03 : 3.34
		Commercial	Hot Climate	4.25 : 3.83	4.22 : 3.91	4.99 : 3.90	4.96 : 3.84
		Average Climate	4.16 : 3.74	4.19 : 3.83	4.98 : 3.80	4.88 : 3.73	4.53 : 3.58
		Cold Climate	4.38 : 3.58	4.41 : 3.67	5.28 : 3.61	5.20 : 3.52	4.81 : 3.40
Indoor Unit							
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Dimensions	H x W x D	mm	230V / 240V 290 x 1,200 x 700	230V / 240V 290 x 1,200 x 700	230V / 240V 360 x 1,200 x 700	230V / 240V 430 x 1,200 x 700	230V / 240V 430 x 1,200 x 700
Net weight	Indoor / Panel	kg	37	37	37	37	36
Air volume (NAM/L)	Cooling : Heating	L/s	307 / 336 / 307 : 307 / 336 / 307	500 / 534 / 507 : 507 / 534 / 507	660 / 594 / 666 : 660 / 594 / 666	836 / 768 / 801 : 836 / 768 / 801	1,002 / 836 / 701 : 1,002 / 836 / 701
External static pressure		Pa	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (50 - 150)**
Sound pressure level (dB(A))	Cooling : Heating	dB(A)	43 / 41 / 40 : 43 / 41 / 40	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47
Sound power level (dB(M))	Cooling : Heating	dB	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/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	3 Phase / 50Hz
Current (rated)	Cooling : Heating	A	230V / 240V 8.58 : 8.85 / 8.15 : 8.68	230V / 240V 11.3 : 8.80 / 10.90 : 7.65	230V / 240V 13.1 : 12.4 / 13.4 : 11.9	230V / 240V 14.5 : 9.90 / 14.25 : 3.70	230V / 240V 19.7 : 13.1 / 18.9 : 16.3
Dimensions	H x W x D	mm	695 x 875 x 370	695 x 875 x 370	695 x 980 x 370	695 x 980 x 370	695 x 980 x 370
Net weight		kg	43	50	83	87	87
Air volume	Cooling : Heating	L/s	701 : 701	746 : 766	1,219 : 1,219	1,369 : 1,336	1,602 : 1,369
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 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	dB	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	73 (71) : 73 (71)	74 (72) : 74 (72)
Piping connections	Liquid / Gas	mm	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.	m	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	Ø32 / 1,130 / 15 (g/min)	Ø32 / 1,320 / 17 (g/min)	Ø32 / 2,400 / 45 (g/min)	Ø32 / 2,800 / 45 (g/min)	Ø32 / 2,800 / 45 (g/min)
Operational range	Cooling : Heating	°C	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24

Notes:  
 • 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 ACPD classification is at 230V(400V) only in accordance with GEMSD2019. • 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.  
 \*\* 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.