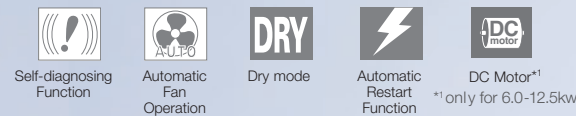


Indoor Unit High Static Pressure Ducted

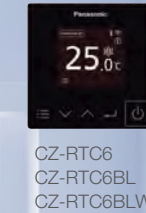
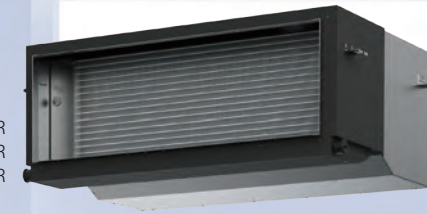
High static and large airflow ducted for exceptional installation flexibility.

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

ECONAVI
ECONAVI ready



S-60PE3R

S-71PE3R
S-100PE3RS-125PE3R
S-140PE3R
S-160PE3R

Note: Product image not to scale.

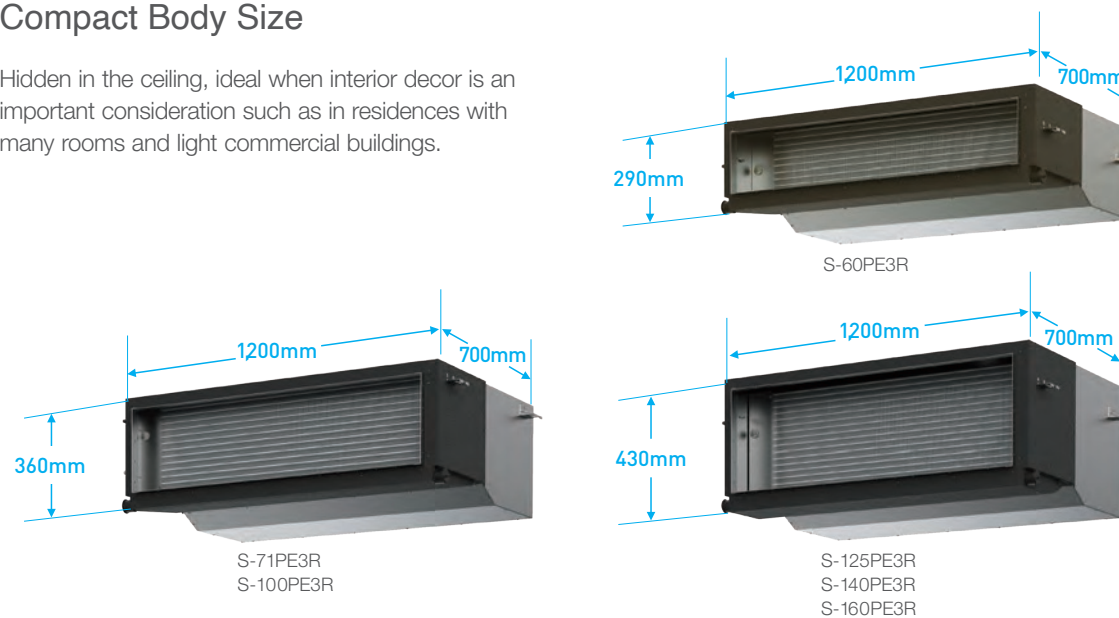


Technical focus

- Design flexibility thanks to high static pressure and large air volume
- Configurable air temperature control
- Accurate temperature control to reduce cold drafts during operation

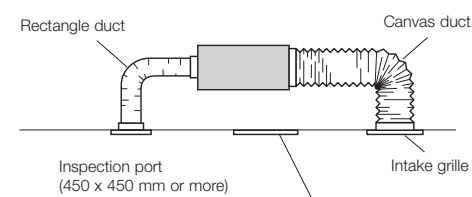
Compact Body Size

Hidden in the ceiling, ideal when interior decor is an important consideration such as in residences with many rooms and light commercial buildings.



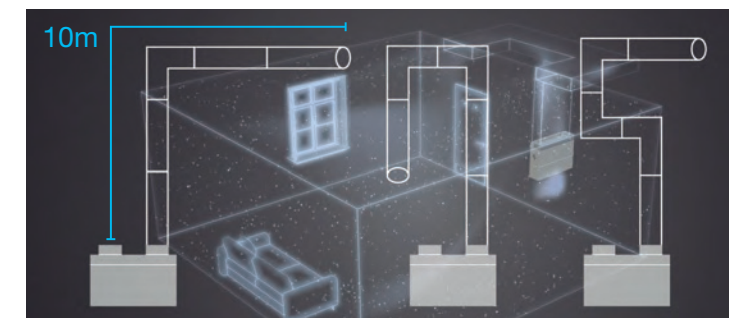
System Example

An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



Clean air. Ducts that deliver

Testing has verified that even with three bends and a total length of up to 10m, the effectiveness of nanoe™ X is maintained right through the duct to deliver clean, fresh air where it's needed.

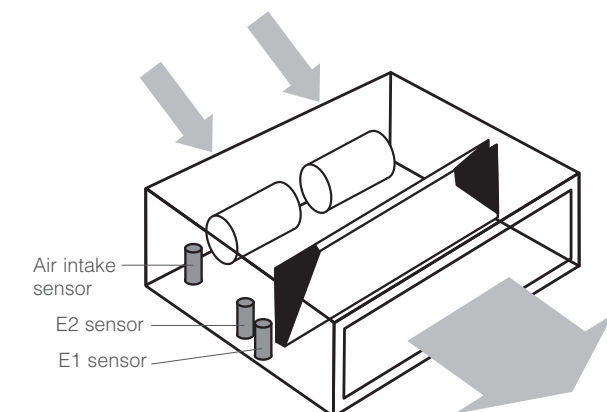


As the experiments demonstrate, even with a total ductwork length of up to 10m, effectiveness of nanoe™ X is maintained.

Note: PF3 and PE3 (16.0kW and below) ranges only.

Cold Drafts Reduced During Heating Operation

- Accurate temperature measurement by E1/E2 sensor to reduce cold drafts during heating operation.



Indoor Unit: High Static Pressure Ducted

High Static Pressure Duct R32 Deluxe model



Capacity			7.1kW	10.0kW	12.5kW	14.0kW	16.0kW					
Model Name	Indoor Unit		S-71PE3R	S-100PE3R	S-125PE3R	S-140PE3R	S-160PE3R					
	Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5	U-140PZH3R8	U-160PZH2R5	U-160PZH2R8			
Cooling capacity : Heating capacity		kW	7.1 (2.2 - 9.0) 8.0 (2.0 - 9.0)	10.0 (3.1 - 12.5) 11.2 (3.1 - 14.0)	10.0 (3.1 - 12.5) 11.2 (3.1 - 14.0)	12.5 (3.2 - 14.0) 14.0 (3.2 - 16.0)	14.0 (3.3 - 16.0) 16.0 (3.3 - 18.0)	14.0 (3.3 - 16.0) 16.0 (3.3 - 18.0)	16.0 (5.5 - 18.0) 18.0 (5.5 - 20.0)			
		BTU/h	24,200 (7,500 - 30,700) 27,300 (6,800 - 30,700)	34,100 (10,600 - 42,700) 38,200 (10,600 - 47,800)	34,100 (10,600 - 42,700) 38,200 (10,600 - 47,800)	42,700 (10,900 - 47,800) 47,800 (10,900 - 54,600)	42,700 (10,900 - 47,800) 54,600 (11,300 - 61,400)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)	54,600 (18,800 - 61,400) 61,400 (18,800 - 68,200)	54,600 (18,800 - 61,400) 61,400 (18,800 - 68,200)		
EER : COP		W/W	3.48 : 3.88	3.79 : 3.78	3.79 : 3.78	3.57 : 3.80	3.57 : 3.80	3.26 : 3.68	3.26 : 3.68	3.29 : 3.53	3.29 : 3.53	
COP@H2 condition		W/W	2.80	2.77	2.77	2.72	2.72	2.65	2.65	2.81	2.81	
Total power input	Residential	Cooling : Heating	kW	2.04 : 2.06	2.64 : 2.96	2.64 : 2.96	3.50 : 3.68	3.50 : 3.68	4.30 : 4.35	4.30 : 4.35	4.86 : 5.10	4.86 : 5.10
		Hot Climate		4.68 : 4.82	5.04 : 5.10	5.04 : 5.10	4.92 : 5.17	4.92 : 5.17	4.29 : 4.69	4.29 : 4.69	4.21 : 4.61	4.21 : 4.61
		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	3.92 : 4.07	3.80 : 3.99	3.80 : 3.99
		Cold Climate		4.19 : 3.79	4.54 : 3.93	4.54 : 3.93	4.60 : 3.90	4.60 : 3.90	4.03 : 3.62	4.03 : 3.62	3.85 : 3.55	3.85 : 3.55
		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 : 4.74	4.53 : 4.63	4.53 : 4.63
		Average Climate		5.00 : 4.52	5.47 : 4.73	5.47 : 4.73	5.55 : 4.80	5.55 : 4.80	4.60 : 4.39	4.60 : 4.39	4.54 : 4.28	4.54 : 4.28
Commercial	Average Climate		5.00 : 4.52	5.47 : 4.73	5.47 : 4.73	5.55 : 4.80	5.55 : 4.80	4.60 : 4.39	4.60 : 4.39	4.54 : 4.28	4.54 : 4.28	
	Cold Climate		5.37 : 4.11	5.87 : 4.32	5.87 : 4.32	5.97 : 4.31	5.97 : 4.31	4.91 : 3.96	4.91 : 3.96	4.80 : 3.88	4.80 : 3.88	
Indoor Unit												
Power source		Phase/Hz	1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz		1 Phase / 50Hz	
		V	230V 240V		230V 240V		230V 240V		230V 240V		230V 240V	
Current (rated)	Cooling : Heating		—*1		—*1		—*1		—*1		2.41 : 2.41 2.38 : 2.38	
Dimension	H x W x D	mm	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	
Net weight		kg	36		37		41		50		50	
Air volume (H/M/L)	Cooling : Heating	L/s	501 / 434 / 367 : 501 / 434 / 367		668 / 584 / 484 : 668 / 584 / 484		835 / 768 / 601 : 835 / 768 / 601		1,002 / 835 / 701 : 1,002 / 835 / 701		1,002 / 835 / 701 : 1,002 / 835 / 701	
External static pressure		Pa	100 (10 - 150)		100 (10 - 150)		100 (10 - 150)		100 (50 - 150*)		100 (50 - 150*)	
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	45 / 44 / 43 : 45 / 44 / 43		48 / 46 / 44 : 48 / 46 / 44		49 / 47 / 45 : 49 / 47 / 45		51 / 49 / 47 : 51 / 49 / 47		51 / 49 / 47 : 51 / 49 / 47	
Sound power level (H/M/L)	Cooling : Heating	dB	62 / 61 / 60 : 62 / 61 / 60		70 / 68 / 66 : 70 / 68 / 66		71 / 69 / 67 : 71 / 69 / 67		73 / 71 / 69 : 73 / 71 / 69		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		3 Phase / 50Hz		1 Phase / 50Hz		3 Phase / 50Hz	
		V	230V 240V		230V 240V		400V 415V		230V 240V		400V 415V	
Current (rated)	Cooling : Heating	A	9.85 : 9.95 9.55 : 9.65		12.8 : 14.3 12.2 : 13.7		4.25 : 4.75 4.15 : 4.60		16.7 : 17.6 16.0 : 16.8		5.60 : 5.90 5.40 : 5.70	
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	
Net weight		kg	66		99		99		99		117	
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	
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)		52 (50) : 52 (50)		52 (50) : 52 (50)		53 (51) : 53 (51)		54 (52) : 54 (52)	
Sound power level (Silent mode)	Cooling : Heating	dB	64 (62) : 66 (64)		68 (66) : 68 (66)		68 (66) : 68 (66)		69 (67) : 69 (67)		70 (68) : 70 (68)	
Piping connections	Liquid / Gas	mm	Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø15.88		Ø9.52 / Ø19.05	
Pipe length range	min. - max.	m	5 - 50		5 - 85		5 - 85		5 - 85		5 - 85	
Elevation difference (OU located lower, OU located higher)		m	15, 30		15, 30		15, 30		15, 30		30, 30	
Maximum chargeless length		m	30		30		30		30		30	
Refrigerant at shipping / Additional gas amount		g	R32 1,950 / 45 (g/m)		R32 3,050 / 45 (g/m)		R32 3,050 / 45 (g/m)		R32 3,050 / 45 (g/m)		R32 3,200 / 45 (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 46 : -20 to 24	

Specifications of R32 Compact Model



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
	Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5
Cooling capacity : Heating capacity		kW	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)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 23,900)	24,200 (8,900 - 26,300) 24,200 (7,200 - 27,600)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)
EER : COP		W/W	3.26 : 4.08	3.21 : 4.25	3.58 : 4.08	3.58 : 4.08	3.55 : 4.03
COP@H2 condition		W/W	3.00	3.11	2.88	2.88	2.56
Total power input		kW	1.84 : 1.47	2.21 : 1.67	2.79 : 2.45	2.79 : 2.45	3.52 : 3.10
TCSPF : HSPF	Residential	Cooling : Heating					
		Hot Climate	3.98 : 3.95	3.96 : 4.05	4.64 : 3.95	4.64 : 3.95	4.60 : 3.93
		Average Climate	3.56 : 3.88	3.59 : 4.00	4.17 : 3.81	4.16 : 3.79	4.16 : 3.79
	Commercial	Cold Climate	3.58 : 3.59	3.63 : 3.70	4.23 : 3.55	4.23 : 3.55	4.26 : 3.47
		Hot Climate	4.25 : 3.83	4.22 : 3.91	4.99 : 3.90	4.96 : 3.84	4.96 : 3.84
		Average Climate	4.16 : 3.74	4.19 : 3.83	4.98 : 3.80	4.88 : 3.73	4.88 : 3.73
Indoor Unit							
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
		V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Dimensions	H x W x D	mm	290 x 1,200 x 700	360 x 1,200 x 700	360 x 1,200 x 700	360 x 1,200 x 700	430 x 1,200 x 700
Net weight	Indoor / Panel	kg	31	36	37	37	41
Air volume (H/M/L)	Cooling : Heating	L/s	367 / 334 / 267 : 367 / 334 / 267	501 / 434 / 367 : 501 / 434 / 367	668 / 584 / 484 : 668 / 584 / 484	668 / 584 / 484 : 668 / 584 / 484	835 / 768 / 601 : 835 / 768 / 601
External static pressure		Pa	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	43 / 41 / 40 : 43 / 41 / 40	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45
Sound power level (H/M/L)	Cooling : Heating	dB	60 / 58 / 57 : 60 / 58 / 57	62 / 61 / 60 : 62 / 61 / 60	70 / 68 / 66 : 70 / 68 / 66	70 / 68 / 66 : 70 / 68 / 66	71 / 69 / 67 : 71 / 69 / 67
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	1 Phase / 50Hz
		V	230V 240V	230V 240V	230V 240V	400V 415V	230V 240V
Current (rated)	Cooling : Heating	A	8.50 : 6.85 8.15 : 6.60	10.3 : 8.00 9.90 : 7.65	13.9 : 12.4 13.4 : 11.9	4.45 : 3.90 4.25 : 3.70	17.0 : 15.0 16.3 : 14.4
Dimensions	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	43	50	83	83	87
Air volume	Cooling : Heating	L/s	701 : 701	746 : 766	1,219 : 1,219	1,369 : 1,336	1,369 : 1,336
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)	55 (53) : 55 (53)
Sound power level (Silent mode)	Cooling : Heating	dB	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)
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 (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless 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 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)
Operating 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 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.
 - AEER and ACOP 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.

*1 Outdoor power supply.
*2 Not adjustable, refer to "Indoor Fan Performance" section of technical data.
*3 For piping connection for 6.0kW unit, connect the gas socket tube (Ø12.7-Ø15.88) to the gas tubing side indoor unit and connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.
*4 For piping connection for 7.1kW unit, connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.

Indoor Unit

High Static Pressure

Splittable Ducted

High static and large airflow ducted for exceptional installation flexibility.



Self-diagnosing Function



Automatic Fan Operation



Dry mode



Automatic Restart Function



DC Motor



S-180PE3R5B
S-200PE3R5B
S-224PE3R5B



CZ-RTC6
CZ-RTC6BL



CZ-RTC5B



CZ-RTC4



CZ-CAPWFC1

Note: Product image not to scale.

Technical focus

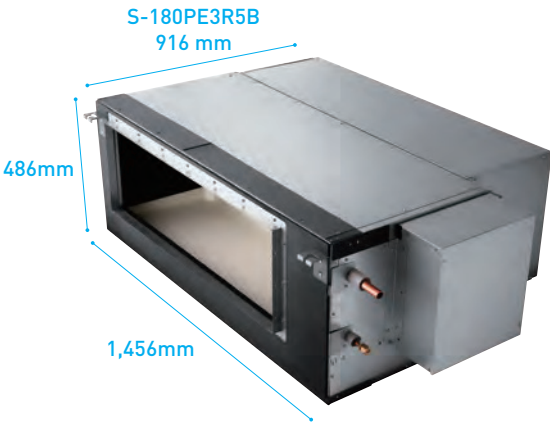
- Easy installation with splittable chassis design
 - Max. 200Pa static pressure setting*1
 - Design flexibility thanks to high static pressure and large air volume
 - DC motor equipped
- Low power input
 - Accurate temperature control to reduce cold drafts during operation
 - Configurable air temperature control

*1 In case of S-224PE3R5B

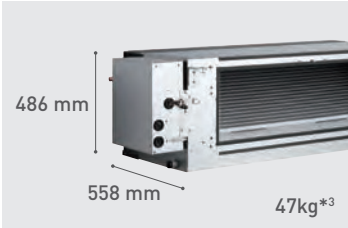
Easy Installation with Light Component

Compared to conventional models, the new Panasonic splittable ducted weighs in at approximately 10%*2 lighter. This notion is further emphasised by the unit's ability to split into three components, the heaviest of which totals at 48kg.

*2 Comparison between S-180PE3R5B and S-180PE2R5B

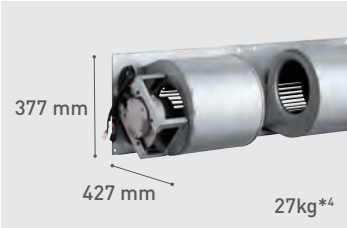


Dimensions of Each Component



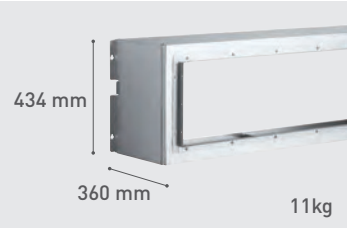
Heat Exchanger

*3 The weight is for the 18.0kW model.
(20.0/22.4kW : 48kg)



Fan

*4 The weight is for the 18.0/20.0kW model.
(22.4kW : 29kg)



Fan Casing

Specifications of R32 Deluxe Model



Capacity			18.0kW	20.0kW	22.4kW
Model Name	Indoor Unit		S-180PE3R5B	S-200PE3R5B	S-224PE3R5B
	Outdoor Unit		U-180PZH2R8	U-200PZH2R8	U-224PZH2R8
Cooling capacity : Heating capacity	kW		18.0 (5.5-20.0) 20.0 (5.5-22.4)	20.0 (5.7-22.4) 22.4 (5.0-25.0)	22.4 (5.7-25.0) 25.0 (4.9-28.0)
		BTU/h	61,400 (18,800-68,200) 68,200 (18,800-76,400)	60,000 (19,400-76,400) 76,400 (17,100-85,300)	76,400 (19,400-85,300) 85,300 (16,700-95,500)
EER : COP	W/W		3.20 : 3.75	3.33 : 3.67	3.09 : 3.52
COP@H2 condition	W/W		2.90	2.70	2.60
Total power input	Cooling : Heating	kW	5.63 : 5.33	6.00 : 6.10	7.24 : 7.10
	Hot Climate		4.35 : 5.00	4.33 : 4.35	3.99 : 4.53
TCSPF : HSPF	Residential	Average Climate	3.92 : 4.27	3.96 : 3.87	3.67 : 3.86
		Cold Climate	4.02 : 3.74	4.03 : 3.43	3.76 : 3.38
		Hot Climate	4.75 : 5.03	4.64 : 4.35	4.27 : 4.65
	Commercial	Average Climate	4.77 : 4.62	4.72 : 4.08	4.30 : 4.27
		Cold Climate	5.11 : 4.12	5.00 : 3.70	4.56 : 3.77
Indoor Unit					
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	1 Phase / 50Hz
		V	230V 240V	230V 240V	230V 240V
Current (rated)	Cooling : Heating	A	3.10 : 3.10 3.00 : 3.00	3.30 : 3.30 3.20 : 3.20	4.20 : 4.20 4.10 : 4.10
Dimensions	H x W x D	mm	486 x 1,456 x 916	486 x 1,456 x 916	486 x 1,456 x 916
Heat exchanger	H x W x D	mm	486 x 1,456 x 558	486 x 1,456 x 558	486 x 1,456 x 558
Fan	H x W x D	mm	377 x 1,150 x 427	377 x 1,150 x 427	377 x 1,150 x 427
Case	H x W x D	mm	434 x 1,178 x 360	434 x 1,178 x 360	434 x 1,178 x 360
Net weight		kg	85	86	88
Air volume	Cooling : Heating	L/s	1,200 / 1,050 / 883 1,200 / 1,050 / 883	1,200 / 1,050 / 883 1,200 / 1,050 / 883	1,400 / 1,200 / 983 1,400 / 1,200 / 983
External static pressure		Pa	60 (60 - 150)	75 (75 - 180)	75 (75 - 200)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	46 / 44 / 41 : 46 / 44 / 41	46 / 44 / 41 : 46 / 44 / 41	47 / 45 / 42 : 47 / 45 / 42
Sound power level (H/M/L)	Cooling : Heating	dB(A)	78 / 76 / 73 : 78 / 76 / 73	78 / 76 / 73 : 78 / 76 / 73	79 / 77 / 74 : 79 / 77 / 74
Number of fan speeds			3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25
Outdoor Unit					
Power source		Phase/Hz	3 Phase / 50Hz	3 Phase / 50Hz	3 Phase / 50Hz
		V	400V 415V	400V 415V	400V 415V
Current (rated)	Cooling : Heating	A	8.00 : 7.55 7.70 : 7.25	8.45 : 8.60 8.15 : 8.30	9.95 : 9.75 9.60 : 9.40
Dimensions	H x W x D	mm	1,500 x 980 x 370	1,500 x 980 x 370	1,500 x 980 x 370
Net weight		kg	115	128	128
Air volume	Cooling : Heating	L/s	2,733 : 2,733	2,667 : 2,667	2,667 : 2,667
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	58 (56) : 60 (58)	58 (56) : 62 (60)	58 (56) : 62 (60)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	76 (74) : 78 (76)	77 (75) : 81 (79)	77 (75) : 81 (79)
Piping connections	Liquid / Gas	mm	Ø9.52 / Ø19.05*5	Ø12.70 / Ø19.05*5	Ø12.70 / Ø19.05*5
Pipe length	min. - max.	m	5 - 75	5 - 60	5 - 60
Elevation difference (OU located lower, OU located higher)		m	30, 30	30, 30	30, 30
Maximum chargeless length		m	30	30	30
Refrigerant at shipping / Additional gas amount		g	R32 3,400 / 45/60*6 (g/m)	R32 5,200 / 80 (g/m)	R32 5,200 / 80 (g/m)
Operation ranges	Cooling : Heating	°C	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -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.
- AEER and ACOP 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

*5 Tubing size is Ø25.40 when the piping length is over 50m for U-180PZH2R8 and 30m for U-200PZH2R8 and U-224PZH2R8.
Also, joint needs to be prepared by the site for U-180PZH2R8 when the piping length is over 50m. Please refer to technical documents for more details.

*6 Additional gas amount is 45g/m when the piping length is under 50m and 60g/m when the piping length is over 50m.