

R32 RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING 2019 / 2020

AIR IS LIFE

AIR IS COMFORT

AIR IS ENERGY

QUALITY AIR FOR LIFE

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of April 2019.
- Due to printing considerations, the actual colours may vary slightly from those shown.
- All graphics are provided merely for the purpose of illustrating a point.



Do not add or replace refrigerant other than the specified type.
Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.

19PAC0401

Authorised Dealer

Panasonic Australia Pty. Limited.

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ACN 001 592 187 ABN 83 001 592 187

aircon.panasonic.com.au



Panasonic
Air Conditioning

R32
REFRIGERANT

QUALITY AIR FOR LIFE



Space Saving and Energy Saving Solutions



CONTENTS

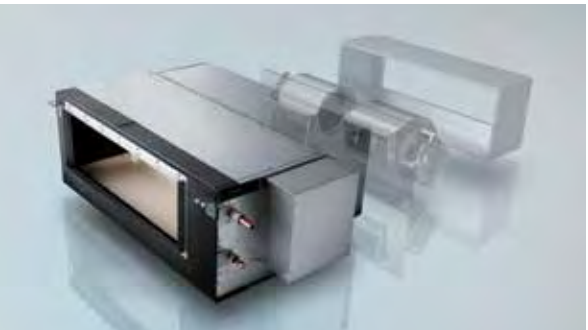
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All side discharge R32 outdoor units **P. 6 - 11**



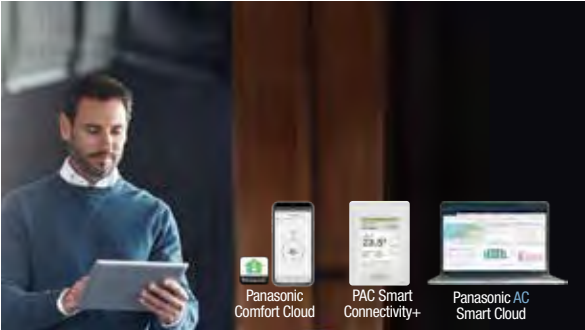
The newly engineered R32 Compact & Deluxe ranges feature a combination of large fan bodies with a side discharge to maximize installation flexibility.

Easy to install splittable ducted **P. 12 - 13**



The new High Static Pressure design splits the unit into three components for installation flexibility.

Panasonic Smart Connectivity & Controls **P. 46 - 59**



Explore a range of connected control solutions suited perfectly to your system needs.

Product Line-up

For Medium Sized Project

Cooling Capacity		6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	16.0 kW	18.0 kW	20.0 kW	22.4 kW
Indoor Unit	Ducted High Static Pressure Model Page 14-17 for 6.0kW -16.0kW ECONAVI ready	S-60PE1R5B	S-71PE1R5B	S-100PE1R5B	S-125PE1R5B	S-140PE1R5B	S-160PE1R5B NEW			
	Splittable Ducted High Static Pressure Model Page 18-19 for 18kW - 22.4kW							S-180PE3R5B NEW	S-200PE3R5B NEW	S-224PE3R5B NEW
	Slim-line Ducted High Static Pressure Model Page 20-23 ECONAVI ready	S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-125PF1E5B	S-140PF1E5B				
	4-WAY Cassette * Panel is provided as an option (CZ-KPU3H/CZ-KPU3A) Page 24-29 nanoe X ready ECONAVI ready	S-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-125PU2E5B	S-140PU2E5B				
	Under Ceiling Page 30-33 ECONAVI ready	S-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-125PT2E5B	S-140PT2E5B				
	Wall Mounted Page 34-35 ECONAVI ready			S-100PK2E5B						
Outdoor Unit	R32 Deluxe Model Page 6-11 R32 REFRIGERANT DRED ready		U-71PZH2R5 NEW	U-100PZH2R5 U-100PZH2R8* NEW	U-125PZH2R5 U-125PZH2R8* NEW	U-140PZH2R5 U-140PZH2R8* NEW	U-160PZH2R5 U-160PZH2R8* NEW	U-180PZH2R8* NEW	U-200PZH2R8* NEW	U-224PZH2R8* NEW
	R32 Compact Model Page 6-11 R32 REFRIGERANT DRED ready		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5 U-100PZ2R8*	U-125PZ2R5 U-125PZ2R8*	U-140PZ2R5 U-140PZ2R8*			

For Small Sized Project

Cooling Capacity		2.5/2.6 kW	3.5/3.7 kW	4.8/5.0 kW	5.6/5.7 kW
Indoor Unit	Ultra Slim Ducted Page 40-45	CS-Z25UD3RAW NEW	CS-Z35UD3RAW NEW	CS-Z50UD3RAW NEW	CS-Z60UD3RAW NEW
	Mini Cassette Page 40-45	CS-Z25UB4RAW NEW	CS-Z35UB4RAW NEW	CS-Z50UB4RAW NEW	CS-Z60UB4RAW NEW
Outdoor Unit	R32 Model R32 REFRIGERANT DRED ready	CU-Z25UBRA NEW	CU-Z35UBRA NEW	CU-Z50UBRA NEW	CU-Z60UBRA NEW

NEW

All side discharge R32 outdoor units

Panasonic's new range of outdoor units feature intuitive technology and thoughtful engineering. The two innovative ranges of R32 units, both Deluxe and Compact, feature energy and space saving technologies, permitting installation in even the tightest and demanding conditions.



More Efficient, Less Space

Whilst maintaining its strong power, new R32 outdoor units get smaller. This enables them to fit into tighter spaces. Thus you can install these units in a vast variety of areas.

All side discharge from 6.0kw to 22.4kw

U-71PZH2R5

NEW

U-100PZH2R5
U-100PZH2R8*

NEW

U-125PZH2R5
U-125PZH2R8*

NEW

U-140PZH2R5
U-140PZH2R8*

NEW

U-160PZH2R5
U-160PZH2R8*

NEW

U-180PZH2R8*

NEW

U-200PZH2R8*

NEW

U-224PZH2R8*

NEW

R32 Deluxe

* 3 phase

Industry-leading Small Body with All 1-fan Models

U-60PZ2R5

U-71PZ2R5

U-100PZ2R5
U-100PZ2R8*

U-125PZ2R5
U-125PZ2R8*

U-140PZ2R5
U-140PZ2R8*

R32 Compact

* 3 phase

Next Generation Refrigerant: R32

R32, an innovative refrigerant in all ways imaginable: it is easy to install, and compared to most other refrigerants it has a much lower environmental impact and saves energy.

R32 Deluxe

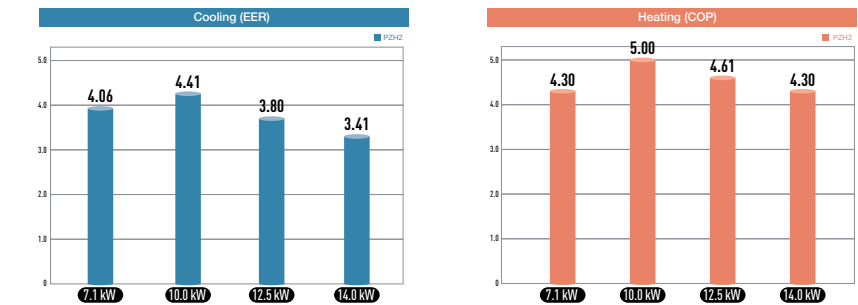
R32 Compact

- Low Global Warming Potential (GWP): 75% less impact on global warming vs R410A
- Energy Efficient: Higher energy efficiency than R410A
- Easy Installation: This refrigerant is 100% pure which makes it easier to recycle and reuse.

Energy Saving Technology

R32 Deluxe

The use of energy saving design for the structure of fans, fan motors, compressors and heat exchangers results in high EER and COP value, which ranks as one of the top in the industry.



* The graph shows 4-WAY Cassette R32 Deluxe models values.

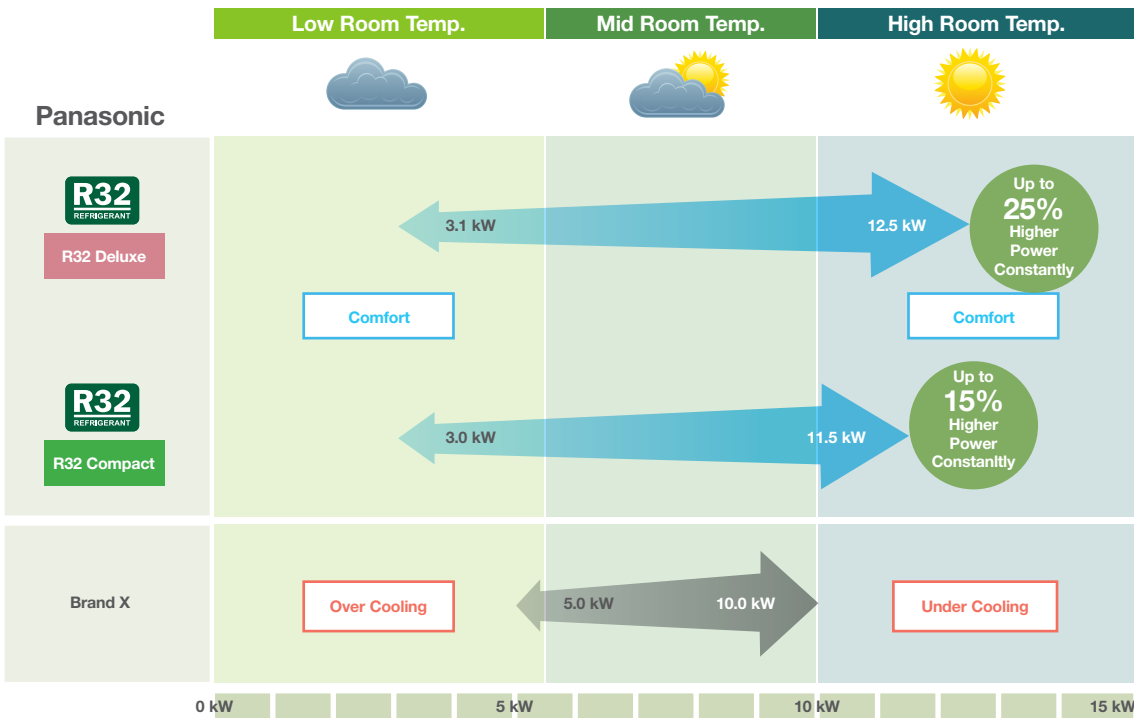
Precise Temperature Control

Constant Comfort Air Conditioning

R32 Deluxe

R32 Compact

Another advantage of Panasonic Premium Inverter technology includes its ability to ensure precise temperature control and offer a wider power output range to perform in even the most extreme conditions in Australia, ensuring constant comfort.



Graph shows each models' 10.0 kW Inverter High Static Pressure Ducted systems performance range during cooling.

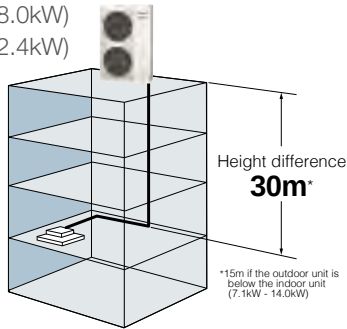
Outdoor Unit

Other Advanced Technology

Increased Piping Length for Greater Design Flexibility

R32 Deluxe

Adaptable to various building types and sizes
Max. piping length :
50m (7.1kW),
85m (10.0kW-14.0kW),
75m (16.0kW, 18.0kW)
60m (20.0kW, 22.4kW)



Product Quality and Safety

R32 Compact

R32 Deluxe

All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary Safety Approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.



Quiet Mode

R32 Compact

R32 Deluxe

Quiet mode reduces outdoor operating sound by 2dB. External input signal is also available.

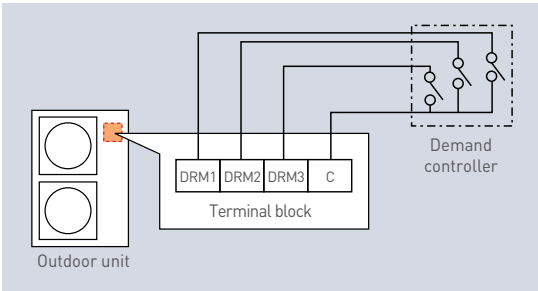
Demand Response Compliant

R32 Compact

R32 Deluxe

Panasonic air conditioners are equipped with a Demand Response Enabling Device (DRED) which complies to both AS 4755 and AS 3823. Panasonic continues to design and develop products that are tailored to local needs and requirements.

The Equipment Energy Efficiency (E3) program has been supporting the development of DRED standards for air-conditioners which should comply with AS 4755. The functionality will be required for all installations in the very near future

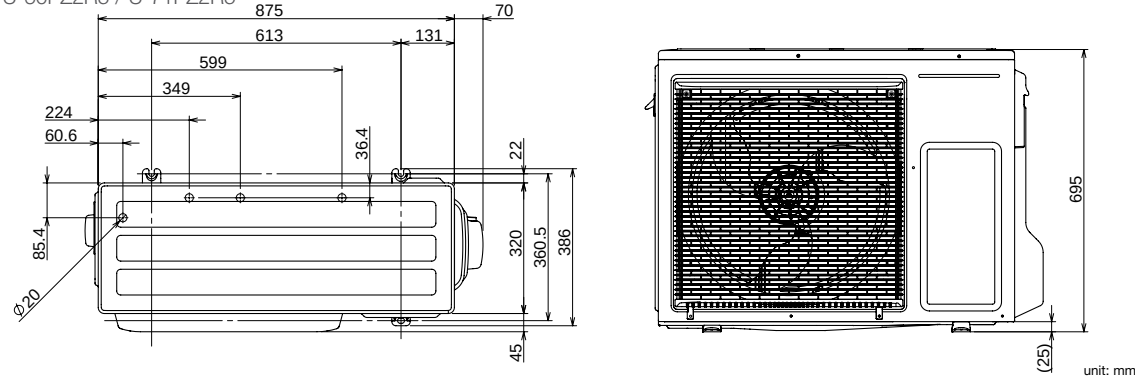


Demand control terminal is available to control 0-50-75-100% of capacities.

Outdoor Unit Dimensions

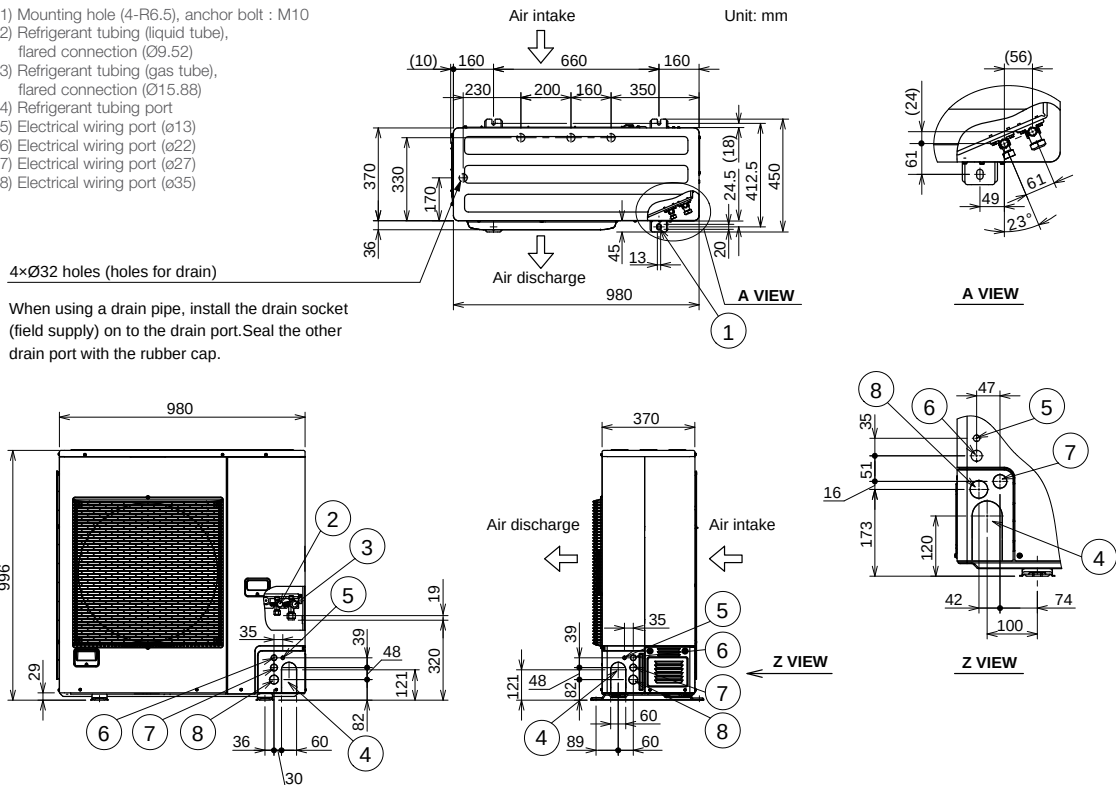
R32 Compact Model Dimensions (6.0kW – 7.1kW)

U-60PZ2R5 / U-71PZ2R5



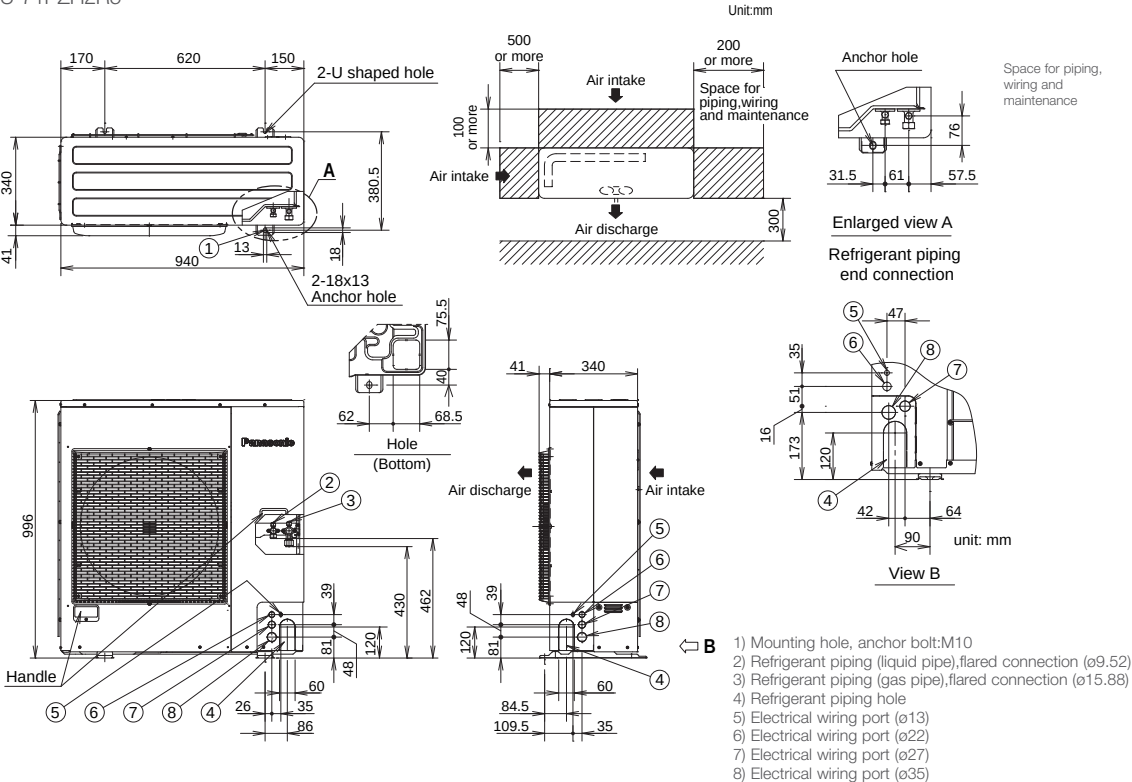
R32 Compact Model Dimensions (10.0kW – 14.0kW)

U-100PZ2R5 / U-100PZ2R8 / U-125PZ2R5 / U-125PZ2R8 / U-140PZ2R5 / U-140PZ2R8



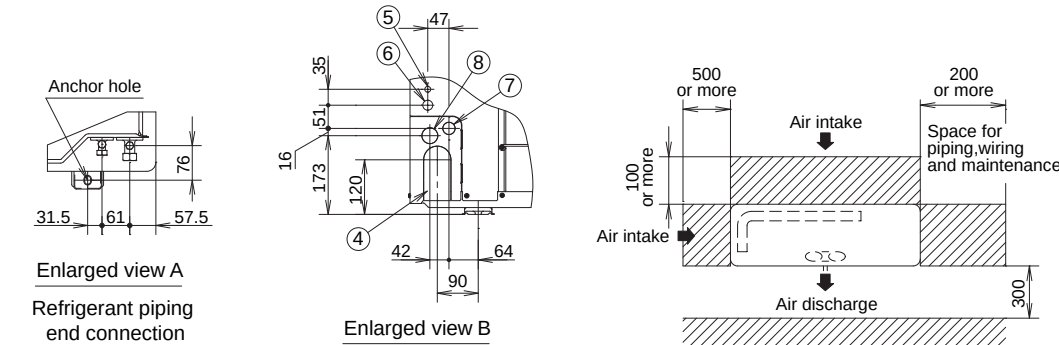
R32 Deluxe Model Dimensions (7.1kW)

U-71PZH2R5

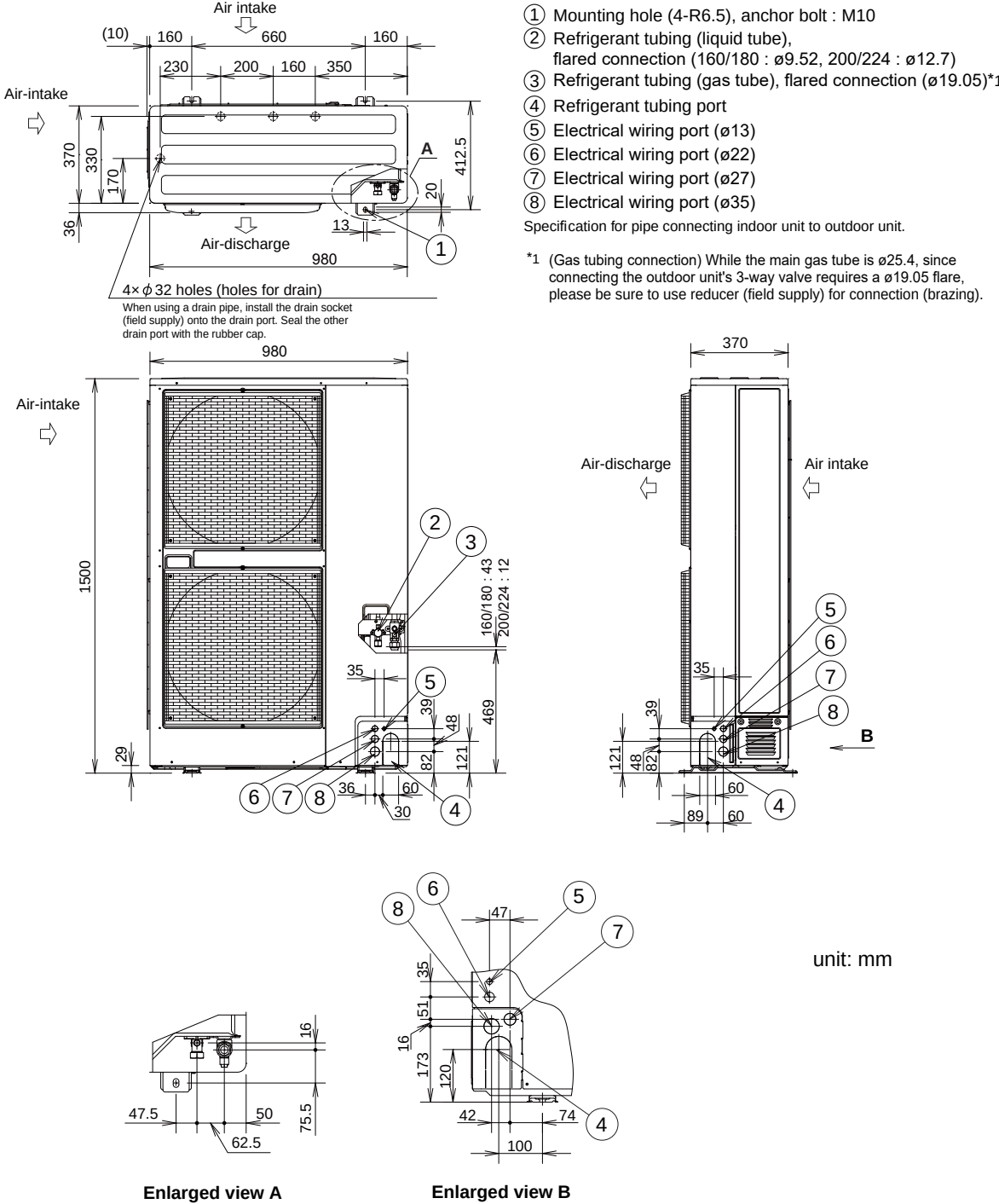


Outdoor Unit

U-100PZH2R5 / U-100PZH2R8 / U-125PZH2R5 / U-125PZH2R8 / U-140PZH2R5 / U-140PZH2R8



U-160PZH2R5 / U-160PZH2R8 / U-180PZH2R8 / U-200PZH2R8 / U-224PZH2R8



Easy to install splittable ducted

Create comfort faster. The newly designed high static pressure ducted model is improved for a more flexible installation. By dividing the unit into 3 components, the burden of installation is reduced.

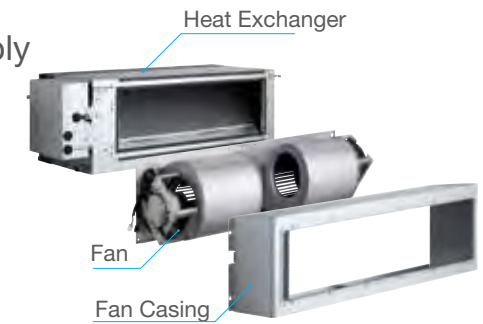
*In the case of the S-180PE3R5B, S-200PE3R5B, and S-224PE3R5B



Easy Installation Design

3 Components For Easy In-Ceiling Assembly

The newly designed high static pressure ducted consists of 3 components, the heat exchanger, the fan and the fan casing. For easy installation, the unit has been designed to be lifted into the roof via return air grille, separated, and easily reassembled when in position.



New Ducted Model Key Factors

Bell Shaped Keyhole for Weight Support

Part of the keyhole is newly designed with a bell shape to reduce the burden of installation. It also enables temporary attachment.



2 Wire Connectors for Easy Installation

With only 2 wire connectors, installation has become much easier and faster.



12 Bolts & Screws for Easy Assembly

Only 12 screws and bolts need to be attached, allowing for a shorter installation time.

Even cooling for all rooms

Top Grade of Airflow Volume

Providing powerful air, Panasonic's splittable ducted has increased the rate of airflow by 16%, reaching up to 1,400 l/s. Its powerful airflow enables faster room temperature control.



* Comparison between S-224PE3R5B and S-224PE2R5B



3-step Static Pressure Set Up

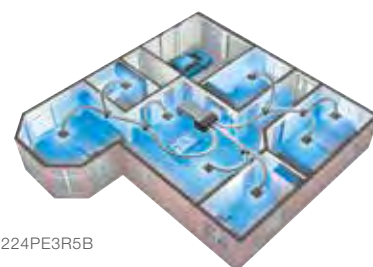
You can select between the three Static Pressure modes of 200 Pa / 130 Pa / 75 Pa for extra installation flexibility.



* In case of S-224PE3R5B

Max.200 Pa Static Pressure Setting

A maximum static pressure setting of a powerful 200Pa enables the use of long ducts for installation in a wide range of spaces. Ideal for large-scale houses, offices and restaurants.



* In case of S-224PE3R5B

Easy Assembly Steps

Assembly takes three easy steps, even in limited spaces.

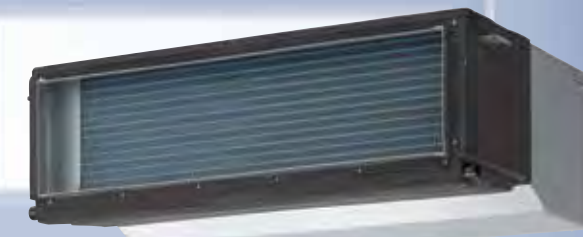
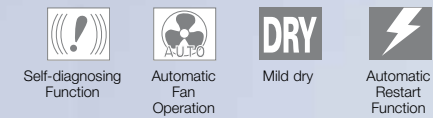


Indoor Unit

High Static Pressure Ducted

High static and large airflow ducted for exceptional installation flexibility.

ECONAVI
ECONAVI ready



S-60PE1R5B
S-71PE1R5B
S-100PE1R5B



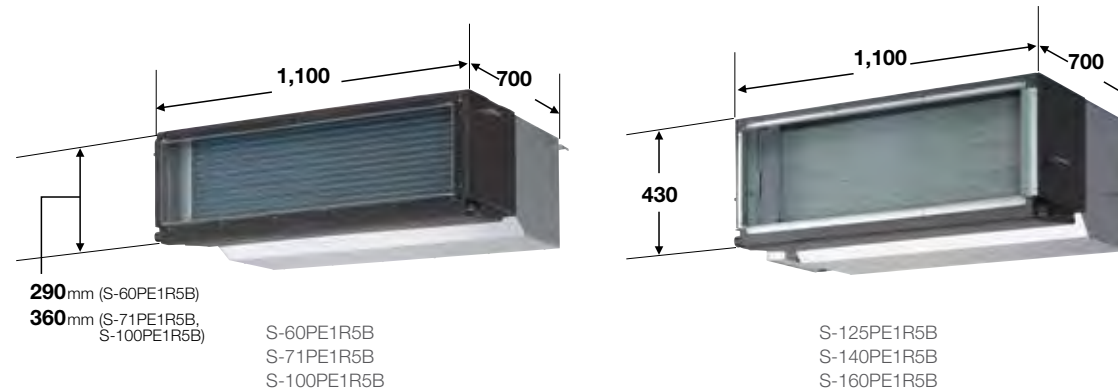
S-125PE1R5B
S-140PE1R5B
S-160PE1R5B

ECONAVI
ECONAVI ready



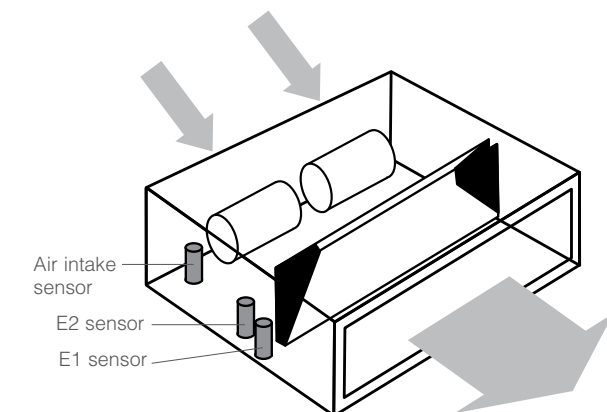
Compact Body Size

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



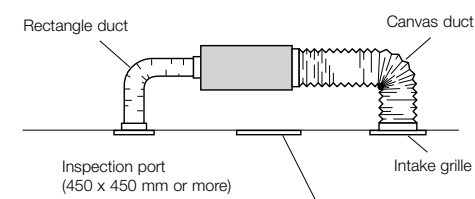
Cold Drafts Reduced During Heating Operation

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



System Example

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



Indoor Unit: High Static Pressure Ducted

Specifications of R32 Deluxe Model



Capacity			7.1kW	10.0kW	12.5kW	14.0kW	16.0kW				
Model Name	Indoor Unit		S-71PE1R5B	S-100PE1R5B	S-100PE1R5B	S-125PE1R5B	S-125PE1R5B	S-140PE1R5B	S-140PE1R5B	S-160PE1R5B	S-160PE1R5B
	Outdoor Unit		U-71PZH2R5	U-100PZH2R5	U-100PZH2R8	U-125PZH2R5	U-125PZH2R8	U-140PZH2R5	U-140PZH2R8	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)	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)	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) 47,800 (10,900 - 54,600)	47,800 (11,300 - 54,600) 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		3.38 : 3.83	3.64 : 3.65	3.64 : 3.65	3.42 : 3.71	3.42 : 3.71	3.18 : 3.64	3.18 : 3.64	3.26 : 3.50	3.26 : 3.56
Total power input	Cooling : Heating	kW	2.10 : 2.09	2.75 : 3.07	2.75 : 3.07	3.65 : 3.77	3.65 : 3.77	4.40 : 4.40	4.40 : 4.40	4.91 : 5.15	4.91 : 5.05
Indoor Unit											
Power source	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	1 Phase/ 50Hz
	V		230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating	A	1.24 : 1.24 1.25 : 1.25	1.72 : 1.72 1.74 : 1.74	1.72 : 1.72 1.74 : 1.74	1.82 : 1.82 1.84 : 1.84	1.82 : 1.82 1.84 : 1.84	2.62 : 2.62 2.70 : 2.70	2.62 : 2.62 2.70 : 2.70	2.62 : 2.62 2.70 : 2.70	2.62 : 2.62 2.70 : 2.70
Dimensions	H × W × D	mm	360×1,100 (+100)×700	360×1,100 (+100)×700	360×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100 (+100)×700	430×1,100(+100) ×700	430×1,100(+100) ×700
Net weight		kg	42	44	44	48	48	53	53	53	53
Air volume	Cooling : Heating	L/s	500 : 500	666 : 666	666 : 666	833 : 833	833 : 833	1,000 : 1,000	1,000 : 1,000	1,000 : 1,000	1,000 : 1,000
External static pressure		Pa	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 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	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47
Sound power level (H/M/L)	Cooling : Heating	dB(A)	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	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69
Number of fan speeds			3	3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25	VP-25	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	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
	V		230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating	A	8.45 : 8.20 8.00 : 7.90	10.8 : 12.2 10.20 : 11.6	3.60 : 4.10 3.45 : 3.95	14.8 : 15.4 14.1 : 14.6	5.00 : 5.15 4.75 : 4.95	17.4 : 17.4 16.5 : 16.5	5.85 : 5.85 5.55 : 5.55	20.0 : 21.1 18.9 : 20.0	6.95 : 7.15 6.60 : 6.80
Dimensions	H × W × D	mm	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,500 × 980 × 370	1,500 × 980 × 370
Net weight		kg	68	99	99	99	99	99	99	117	115
Air volume	Cooling : Heating	L/s	1,017 : 1,000	1,967 : 1,800	1,967 : 1,800	2,083 : 1,867	2,083 : 1,867	2,150 : 1,933	2,150 : 1,933	2,733	2,733
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)	53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)	58 (56) : 60 (58)	58 (56) : 60 (58)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	64 (62) : 66 (64)	68 (66) : 66 (66)	68 (66) : 66 (66)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	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	Ø9.52 / Ø19.05	Ø9.52 / Ø19.05
Pipe length	min. - max.	m	5 - 50	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 75	5 - 75
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	30, 30	30, 30
Maximum chargeless length		m	30	30	30	30	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 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,200 / 45 (g/m)	R32 3,200 / 45 (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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -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-60PE1R5B	S-71PE1R5B	S-100PE1R5B	S-100PE1R5B	S-125PE1R5B	S-125PE1R5B	S-140PE1R5B	S-140PE1R5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity	kW		6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	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)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	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)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP	W/W		3.23 : 3.92 3.23 : 3.92	3.18 : 4.06 3.18 : 4.06	3.33 : 3.89 3.44 : 3.89	3.33 : 3.89 3.44 : 3.89	3.30 : 4.00 3.30 : 4.00	3.30 : 4.00 3.30 : 4.00	3.15 : 3.66 3.15 : 3.66	3.15 : 3.66 3.15 : 3.66
Total power input	Cooling : Heating	kW	1.86 : 1.53	2.23 : 1.75	3.00 : 2.57	3.00 : 2.57	3.79 : 3.125	3.79 : 3.125	4.44 : 3.825	4.44 : 3.825
Indoor Unit										
Power source		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
		V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating	A	0.85 : 0.85 0.86 : 0.86	1.24 : 1.24 1.25 : 1.25	1.72 : 1.72 1.74 : 1.74	1.72 : 1.72 1.74 : 1.74	1.82 : 1.82 1.84 : 1.84	1.82 : 1.82 1.84 : 1.84	2.62 : 2.62 2.70 : 2.70	2.62 : 2.62 2.70 : 2.70
Dimensions	H × W × D	mm	290×1,100 (+100)×700	360×1,100 (+100)×700	360×1,100(+100)×700	360×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700	430×1,100(+100)×700
Net weight		kg	35	42	44	44	48	48	53	53
Air volume	Cooling : Heating	L/s	366 : 366	500 : 500	666 : 666	666 : 666	833 : 833	833 : 833	1,000 : 1,000	1,000 : 1,000
External static pressure		Pa	70 (Max.100)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.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	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(A)	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	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	3	3	3
Drain pipe size		mm	VP-25	VP-25	VP-25	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	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V 240V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating	A	8.05 : 6.45 7.70 : 6.15	9.35 : 7.15 8.90 : 6.75	11.5 : 9.95 11.0 : 9.50	3.90 : 3.40 3.75 : 3.24	15.6 : 12.6 14.9 : 12.0	5.20 : 4.15 4.95 : 4.00	18.2 : 15.0 17.2 : 14.1	6.05 : 4.95 5.75 : 4.70
Dimensions	H × W × 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	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	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	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping / Additional gas amount		g	R32, 1,450 / 35 (g/m)	R32, 1,450 / 35 (g/m)	R32, 2,600 / 45 (g/m)	R32, 2,600 / 45 (g/m)	R32, 2,980 / 45 (g/m)	R32, 2,980 / 45 (g/m)	R32, 2,980 / 45 (g/m)	R32, 2,980 / 45 (g/m)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

Indoor Unit

High Static Pressure

Splittable Ducted

High static and large airflow ducted for exceptional installation flexibility.



Self-diagnosing Function



Automatic Fan Operation



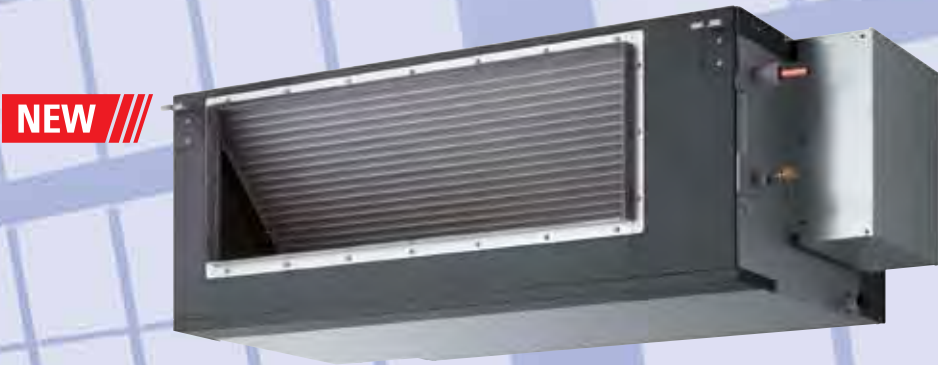
Mild dry



Automatic Restart Function



DC Motor



Technical focus

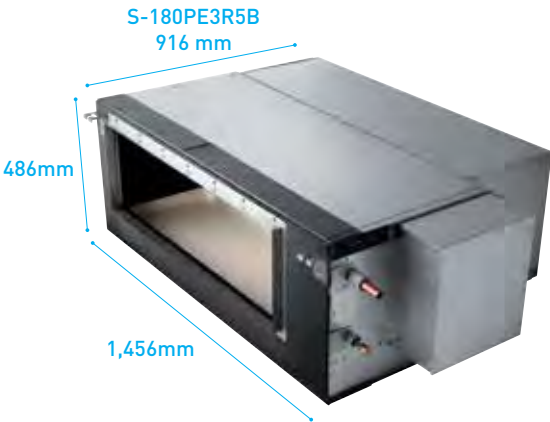
- Easy installation with splittable chassis design
 - Max. 200Pa static pressure setting*
 - Design flexibility thanks to high static pressure and large air volume
 - DC motor equipped
- Low power input
 - Accurate temperature control to reduce cold drafts during operation
 - Configurable air temperature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

* In case of S-224PE3R5B

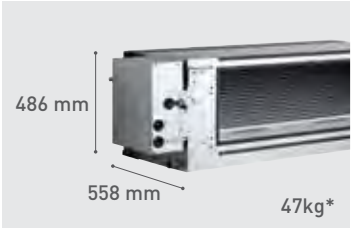
Easy Installation with Light Component

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

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

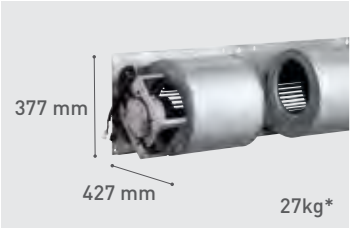


Dimensions of Each Component



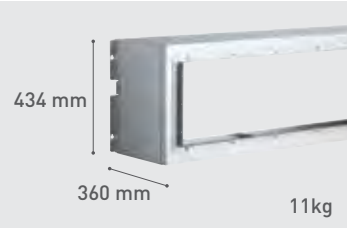
Heat Exchanger

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



Fan

*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 :	kW	18.0 (5.5-20.0)	20.0 (5.7-22.4)	22.4 (5.7-25.0)
		20.0 (5.5-22.4)	22.4 (5.0-25.0)	25.0 (4.9-28.0)
Heating capacity	BTU/h	61,400 (18,800-68,200)	68,200 (19,400-76,400)	76,400 (19,400-85,300)
		68,200 (18,800-76,400)	76,400 (17,100-85,300)	85,300 (16,700-95,500)
EER : COP	W/W	3.20 : 3.75	3.33 : 3.67	3.09 : 3.52
Total power input	Cooling : Heating kW	5.63 : 5.33	6.00 : 6.10	7.24 : 7.10
Indoor Unit				
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
	V	230V 240V	230V 240V	230V 240V
Current	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 (Max.150)	60 (Max.180)	75 (Max.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	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*	Ø12.70 / Ø19.05*	Ø12.70 / Ø19.05*
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** (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:

The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823

• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB

• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

*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.

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

Indoor Unit

High Static Pressure

Slim-line Ducted

Control all aspects of your environment with exceptional performance and quiet operation. A perfect solution when ceiling heights are restricted.



S-60PF1E5B
S-71PF1E5B



S-100PF1E5B
S-125PF1E5B
S-140PF1E5B



CZ-CENSC1



CZ-RTC5B



CZ-RTC4



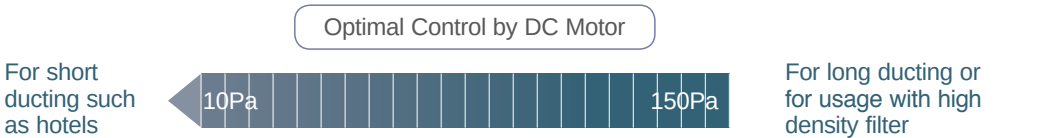
CZ-CAPWFC1



Technical focus

- Space saving 290mm height
- DC fan motor for variable external static pressure control
- Easy to install and maintain
- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

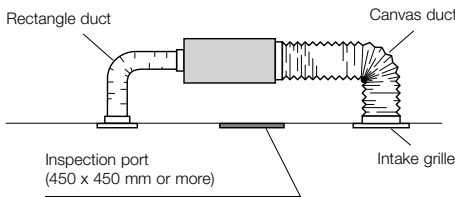
Variable external static pressure control
Optimal airflow set-up is possible for different ducting design and conditions.



* Please refer to technical documents for detail.

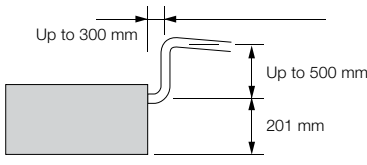
System example

An inspection port (450 mm x 450 mm or larger) is required at the lower side of the indoor unit body.



More powerful drain pump

Using a high-lift built-in drain pump, drain piping can be elevated up to 701 mm from the base of the unit.

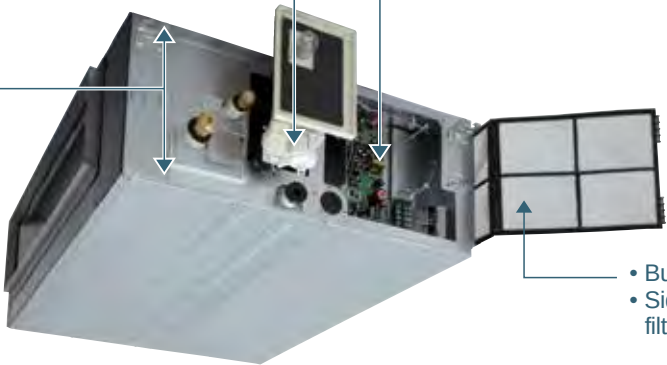


Built-in Drain pump (DC motor pump)

External electrical equipment box makes maintenance easy

Space saving height of 290mm for all models

290mm standardised height provides easy and uniform installation for models with different capacities, especially when ceiling heights are restricted.

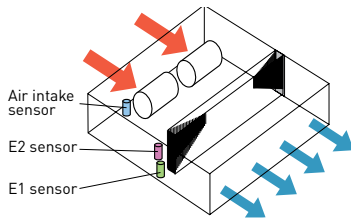


- Built-in filter
- Side removable filter

Discharge air temperature control

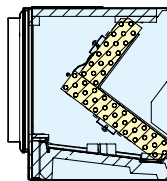
- Possible to control discharge air temperature for accurate room temperature control.
- Possible to reduce cold drafts during heating operation.

* Before spec-in, please consult with an authorised Panasonic dealer.



V-shaped heat exchanger

To improve heat exchange efficiency, an original V-shaped heat exchanger was developed incorporating a conventional high-efficiency fan and high-efficiency grooved heat transfer tubes. This increases the heat exchange surface area.



Increases surface area

Indoor Unit: High Static Pressure Slim-line Ducted

Specifications of R32 Deluxe Model



Capacity			7.1KW	10.0KW	12.5KW	14.0KW			
Model Name	Indoor Unit		S-71PF1E5B	S-100PF1E5B	S-100PF1E5B	S-125PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B
	Outdoor Unit		U-71PZH2R5	U-100PZH2R5	U-100PZH2R8	U-125PZH2R5	U-125PZH2R8	U-140PZH2R5	U-140PZH2R8
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)	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)
		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) 47,800 (10,900 - 54,600)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)
EER : COP	W/W		3.84 : 4.00	4.13 : 4.31	4.13 : 4.31	3.52 : 4.02	3.52 : 4.02	3.26 : 3.65	3.26 : 3.65
Total power input	Cooling : Heating	kW	1.85 : 2.00	2.42 : 2.60	2.42 : 2.60	3.55 : 3.48	3.55 : 3.48	4.30 : 4.38	4.30 : 4.38
Indoor Unit									
Power source	Phase/Hz		1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V 240V	230V 240V
Current	Cooling : Heating	A	0.89 : 0.89 0.87 : 0.87	1.30 : 1.34 1.27 : 1.29	1.30 : 1.34 1.27 : 1.29	1.44 : 1.42 1.39 : 1.38	1.44 : 1.42 1.39 : 1.38	1.50 : 1.50 1.47 : 1.46	1.50 : 1.50 1.47 : 1.46
Dimensions	H × W × D	mm	290x1,000x700	290x1,400x700	290x1,400x700	290x1,400x700	290x1,400x700	290x1,400x700	290x1,400x700
Net weight		kg	33	45	45	45	45	45	45
Air volume	Cooling : Heating	L/s	350 : 350	533 : 533	533 : 533	566 : 566	566 : 566	600 : 600	600 : 600
External static pressure		Pa	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	35 / 32 / 26 : 35 / 32 / 26	38 / 34 / 31 : 38 / 34 / 31	38 / 34 / 31 : 38 / 34 / 31	39 / 35 / 32 : 39 / 35 / 32	39 / 35 / 32 : 39 / 35 / 32	40 / 36 / 33 : 40 / 36 / 33	40 / 36 / 33 : 40 / 36 / 33
Sound power level (H/M/L)	Cooling : Heating	dB(A)	57 / 54 / 48 : 57 / 54 / 48	60 / 56 / 53 : 60 / 56 / 53	60 / 56 / 53 : 60 / 56 / 53	61 / 57 / 54 : 61 / 57 / 54	61 / 57 / 54 : 61 / 57 / 54	62 / 58 / 55 : 62 / 58 / 55	62 / 58 / 55 : 62 / 58 / 55
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	Phase/Hz		1 Phase/ 50Hz	1 Phase/ 50Hz	3 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	230V 240V	400V 415V
Current	Cooling : Heating	A	8.00 : 8.50 7.65 : 8.25	10.2 : 11.0 9.75 : 10.5	3.40 : 3.70 3.30 : 3.55	15.2 : 14.9 14.6 : 14.3	5.10 : 5.00 4.95 : 4.85	18.6 : 19.0 17.8 : 18.2	6.25 : 6.40 6.05 : 6.15
Dimensions	H × W × D	mm	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	99	99	99	99	99	99
Air volume	Cooling : Heating	L/s	1,017 : 1,000	1,967 : 1,800	1,967 : 1,800	2,083 : 1,867	2,083 : 1,867	2,150 : 1,933	2,150 : 1,933
Sound pressure level	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)
Sound power level	Cooling : Heating	dB(A)	64 (62) : 66 (64)	68 (66) : 68 (66)	68 (66) : 68 (66)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	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 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 85	5 - 85	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	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	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 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

Specifications of R32 Compact Model



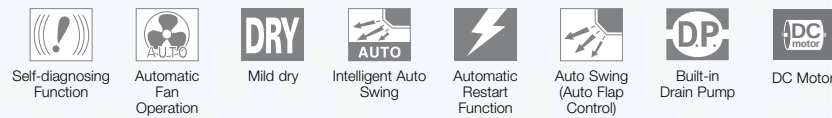
Capacity			6.0KW	7.1KW	10.0KW	12.5KW	14.0KW			
Model Name	Indoor Unit		S-60PF1E5B	S-71PF1E5B	S-100PF1E5B	S-100PF1E5B	S-125PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity	kW		6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	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)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
	BTU/h		20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	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)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP	W/W		3.80 : 4.51 3.80 : 4.51	3.41 : 4.15 3.41 : 4.15	3.66 : 4.31	3.66 : 4.31	3.52 : 4.02	3.52 : 4.02	3.18 : 3.79	3.18 : 3.79
Total power input	Cooling : Heating	kW	1.58 : 1.33	2.08 : 1.71	2.73 : 2.32	2.73 : 2.32	3.55 : 3.11	3.55 : 3.11	4.40 : 3.69	4.40 : 3.69
Indoor Unit										
Power source		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
		V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating	A	0.89 : 0.89 0.87 : 0.87	0.89 : 0.89 0.87 : 0.87	1.30 : 1.34 1.27 : 1.29	1.30 : 1.34 1.27 : 1.29	1.44 : 1.42 1.39 : 1.38	1.44 : 1.42 1.39 : 1.38	1.50 : 1.50 1.47 : 1.46	1.50 : 1.50 1.47 : 1.46
Dimensions	H x W x D	mm	290x1,000 x700	290x1,000 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700
Net weight		kg	33	33	45	45	45	45	45	45
Air volume	Cooling : Heating	L/s	350 : 350	350 : 350	533 : 533	533 : 533	566 : 566	566 : 566	600 : 600	600 : 600
External static pressure		Pa	70 (10 - 150)	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	35 / 32 / 26 : 35 / 32 / 26	35 / 32 / 26 : 35 / 32 / 26	38 / 34 / 31 : 38 / 34 / 31	38 / 34 / 31 : 38 / 34 / 31	39 / 35 / 32 : 39 / 35 / 32	39 / 35 / 32 : 39 / 35 / 32	40 / 36 / 33 : 40 / 36 / 33	40 / 36 / 33 : 40 / 36 / 33
Sound power level (H/M/L)	Cooling : Heating	dB(A)	57 / 54 / 48 : 57 / 54 / 48	57 / 54 / 48 : 57 / 54 / 48	60 / 56 / 53 : 60 / 56 / 53	60 / 56 / 53 : 60 / 56 / 53	61 / 57 / 54 : 61 / 57 / 54	61 / 57 / 54 : 61 / 57 / 54	62 / 58 / 55 : 62 / 58 / 55	62 / 58 / 55 : 62 / 58 / 55
Number of fan speeds			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										
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V 240V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating	A	7.05 : 5.85 6.75 : 5.60	9.35 : 7.70 8.95 : 7.35	11.6 : 9.70 11.1 : 9.30	3.95 : 3.30 3.80 : 3.20	15.5 : 13.4 14.8 : 12.9	5.10 : 4.45 4.95 : 4.30	19.3 : 16.0 18.6 : 15.3	6.40 : 5.30 6.15 : 5.15
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	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	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	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30
Refrigerant at shipping / Additional gas amount		g	R32 1,450 / 35 (g/m)	R32 1,450 / 35 (g/m)	R32 2,600 / 45 (g/m)	R32 2,600 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

Indoor Unit

4-WAY Cassette

Featuring uniform cooling, easy installation, and with a sleek exterior, this unit is the perfect match for your modern home.

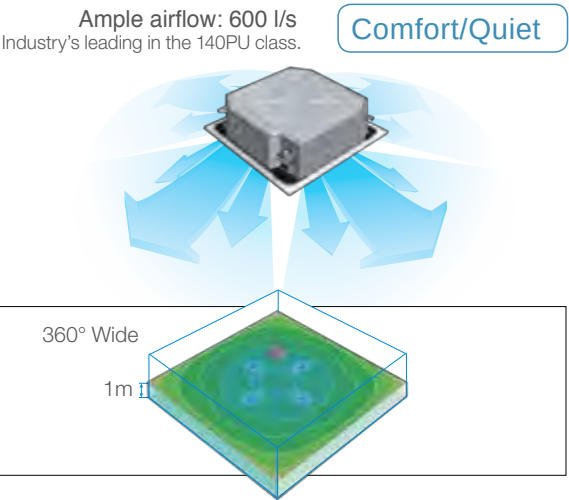


Technical focus

- Compact design
- Low sound levels
- DC fan motor for increased efficiency
- Powerful drain pump gives 850 mm lift
- Lightweight design
- Fresh air knockout
- Branch duct connection
- Optional air-intake plenum CZ-FDU3

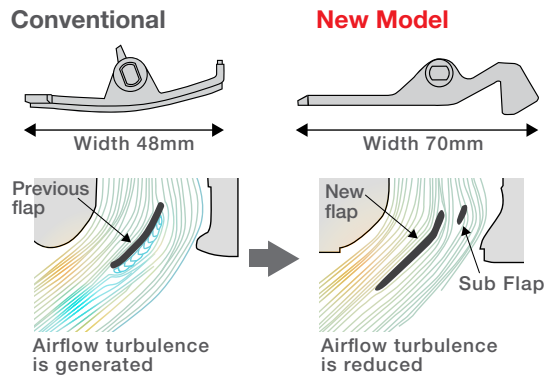
360° Wide & Comfortable Airflow

Our design features wide-angle outlets and flaps that were designed through expert mechanics and prototype tests. Air from the center is sent farther and the air blown out of the larger, side flaps spreads throughout the room. The air comes from all for sides of the unit and expands gently in a circle centered on the indoor unit.



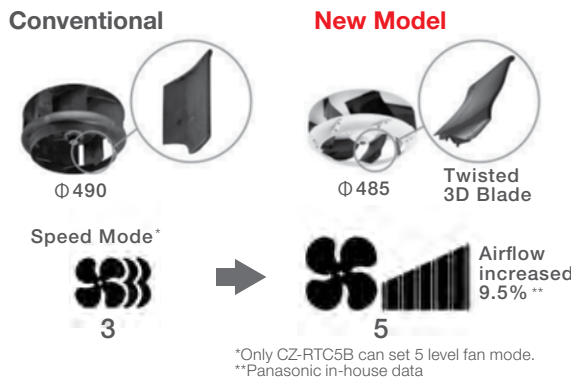
Wide Flap

Adding a sub flap and widening the main flap have reduced turbulence and increased airflow. Also, setting the jetting port at a wider angle allows the airflow to reach the corners of the room more quickly.



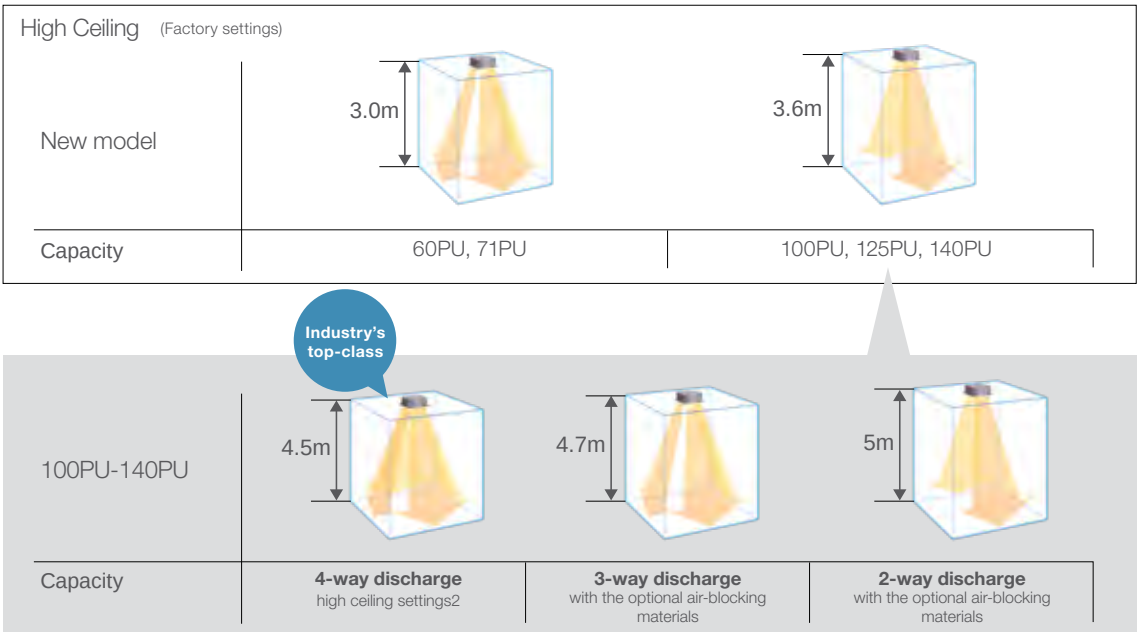
3D Turbo Fan

Using a twisted 3D blade made the unit slimmer and more compact, while also increasing the airflow. A 5-Speed mode allows the airflow to be adjusted in 5 steps to suit the situation.



High-Ceiling Installation (Up to 5 m for 10.0kW+ models)

The units can be installed in rooms with high ceilings, where they provide ample floor-level heating in the winter. (See ceiling height guidelines below.)



Ceiling height guidelines

Indoor unit	4-way discharge			3-way discharge (optional air-blocking materials)	2-way discharge (optional air-blocking materials) *2
	Factory settings 1	High ceiling setting 1	High ceiling setting 2		
60PU-71PU	3.0	3.3	3.6	3.8	4.2
100PU, 125PU, 140PU	3.6	3.9	4.5	4.7	5.0

*1 When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow.
*2 Use air-blocking materials (CZ-CFU3) to completely block two discharge outlets for 2-way airflow.

Air Purification by nanoe™ Technology



Approved by the
National Asthma Council Australia and
Asthma+Respiratory Foundation NZ



nanoe™ is Panasonic's unique air purifying technology. Introduced in 2003, nanoe™ has brought comfortable, clean air to a wide variety of living environments. By conducting further research & development, Panasonic has now succeeded in developing nanoe™ X, with dramatically increased performance.

nanoe™ X Improves Air Quality

Panasonic's unique nanoe™ X has an outstanding effect on various air pollutants, including allergens, viruses and bacteria, as well as cigarette and other household odours. It takes reliable air purification performance another step forward.



Deodorises unpleasant odours^{*1 *2 *3}



nanoe™ X works on the substances responsible for odours to deodorise them.

Inhibits bacteria and virus^{*4 *5 *6 *7 *8}



nanoe™ X suppresses airborne particles including bacteria, viruses and mould.

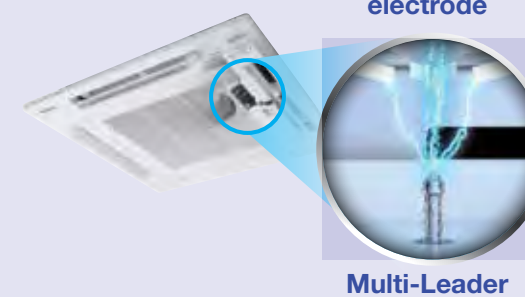
^{*1} Adhering odour of cigarette [Effectiveness]: Decrease by 1.7 level [Testing Institute: Gunma Research Center [Test Report No]: No. 27055 [Result]: Decrease in odour intensity by 0.7 level after 2 hour of operation. ^{*2} Floating odour of cigarette [Effectiveness]: Decrease by 0.8 level [Test Lab Size]: 136.5m³ [Testing Institute: Panasonic Corporation Product Analysis Center [Test Report No]: 4AA33-170117-A01 [Result]: Decrease in odour intensity by 0.8 level after 2 hour of operation. ^{*3} Adhering odour of Meat Grilling [Effectiveness]: Decrease by 0.9 level [Test Lab Size]: 67.7m³ [Testing Institute: Panasonic Corporation Product Analysis Center [Test Report No]: 4AA33-170203-A03 [Result]: Decrease in odour intensity by 0.9 level after 2 hour of operation. ^{*4} Mould [Effectiveness]: Inhibit Mould Growth [Testing Institute: Japan Food Research Laboratories [Test Report No]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation. ^{*5} Bacteria [Effectiveness]: 99% [Testing Institute: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 24_0301_1 [Result]: 99% of deactivation after 4-hour nanoe™ operation. ^{*6} Bacteria [Effectiveness]: 99% [Testing Institute: Japan Food Research Laboratories [Test Report No]: 13044083002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation. ^{*7} Viruses [Effectiveness]: 99% [Testing Institute: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 24_0300_1 [Result]: 99% of deactivation after 6-hour nanoe™ operation. ^{*8} Viruses [Effectiveness]: 99% [Testing Institute: Japan Food Research Laboratories [Test Report No]: 13001265005-01 [Result]: 99% of deactivation after 8-hour nanoe™ operation.

nanoe™ X Mechanism

Amount of OH radicals increases without increasing amount of ozone, leading to improved effectiveness!

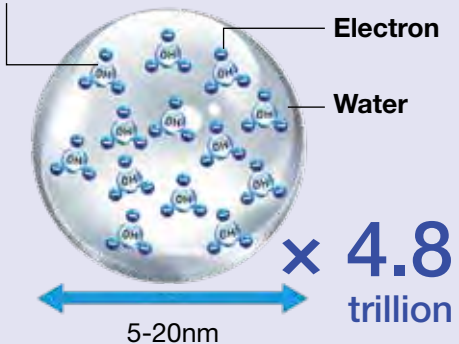
Generation Mechanism

nanoe™ X is generated from moisture in the air

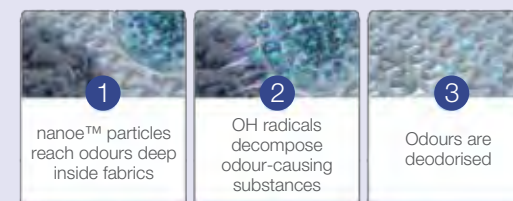


Structure

OH radical



How to Deodorise Odour^{*1 *2 *3}



How to Inhibit Bacteria, Virus and Mould^{*4 *5 *6 *7 *8}



Also Cleans the Air When Not Air Conditioning

You can also use nanoe™ X in Fan mode when you're not cooling or heating the room. For example, you can use nanoe™ X to effectively suppress bacteria and odours without using excessive electricity when the office is empty or after business hours in a restaurant.

Business Time



AC Mode + nanoeX

nanoe™ X purifies the room while maintaining the comfort temperature when people are in presence.

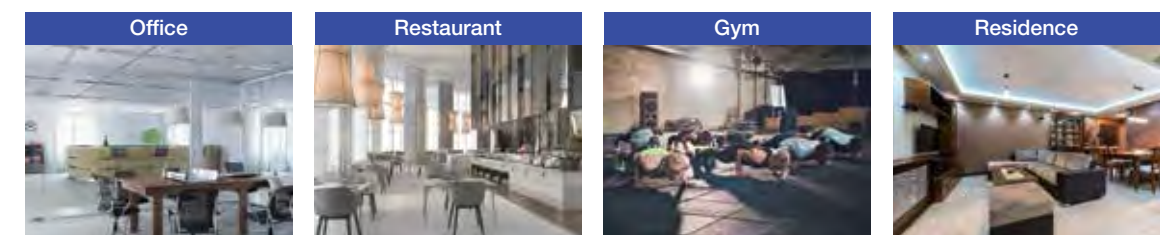
Closed Time



FAN Mode + nanoeX

After closing shops and facilities, nanoe™ X can perform air purification while they are not in use.

Case Examples of nanoe™



Indoor Unit: 4-WAY Cassette

Specifications of R32 Deluxe Model



Capacity			7.1kW	10.0kW	12.5kW	14.0kW			
Model Name	Indoor Unit		S-71PU2E5B	S-100PU2E5B	S-100PU2E5B	S-125PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B
	Outdoor Unit		U-71PZH2R5	U-100PZH2R5	U-100PZH2R8	U-125PZH2R5	U-125PZH2R8	U-140PZH2R5	U-140PZH2R8
	Panel		Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A
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)	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)
		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) 47,800 (10,900 - 54,600)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)
EER : COP	Cooling : Heating	W/W	4.06 : 4.30	4.41 : 5.00	4.41 : 5.00	3.80 : 4.61	3.80 : 4.61	3.41 : 4.30	3.41 : 4.30
Total power input	Cooling : Heating	kW	1.75 : 1.86	2.27 : 2.24	2.27 : 2.24	3.29 : 3.04	3.29 : 3.04	4.11 : 3.72	4.11 : 3.72
Indoor Unit									
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V 240V	230V 240V
Current	Cooling : Heating	A	0.39 : 0.38 0.38 : 0.37	0.79 : 0.78 0.76 : 0.75	0.79 : 0.78 0.76 : 0.75	0.88 : 0.87 0.85 : 0.84	0.88 : 0.87 0.85 : 0.84	0.94 : 0.93 0.91 : 0.90	0.94 : 0.93 0.91 : 0.90
Dimensions	H × W × D	Indoor	mm	256×840×840	319×840×840	319×840×840	319×840×840	319×840×840	319×840×840
		Panel	mm	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950	33.5×950×950
Net weight		Indoor	kg	20	25	25	25	25	25
		Panel	kg	5	5	5	5	5	5
Air volume	Cooling : Heating	L/s	366 / 266 / 216 : 366 / 266 / 216	600 / 433 / 300 : 600 / 433 / 300	600 / 433 / 300 : 600 / 433 / 300	616 / 450 / 316 : 616 / 450 / 316	616 / 450 / 316 : 616 / 450 / 316	633 / 483 / 333 : 633 / 483 / 333	633 / 483 / 333 : 633 / 483 / 333
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 46 / 39 / 33	46 / 39 / 33 : 46 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
Sound power level (H/M/L)	Cooling : Heating	dB(A)	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
Number of fan speeds			5	5	5	5	5	5	5
Drain pipe size		mm	VP-25	VP-25	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	1 Phase/ 50Hz	3 Phase/ 50Hz
		V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating	A	7.90 : 8.25 7.55 : 8.00	9.95 : 9.80 9.50 : 9.40	9.35 : 3.30 3.20 : 3.15	14.5 : 13.4 13.9 : 12.8	4.90 : 4.60 4.70 : 4.35	18.2 : 16.5 17.5 : 15.8	6.15 : 5.55 5.90 : 5.35
Dimensions	H × W × D	mm	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	99	99	99	99	99	99
Air volume	Cooling : Heating	L/s	1,017 : 1,000	1,967 : 1,800	1,967 : 1,800	2,083 : 1,867	2,083 : 1,867	2,150 : 1,933	2,150 : 1,933
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)	53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	64 (62) : 66 (64)	68 (66) : 68 (66)	68 (66) : 68 (66)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	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 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 85	5 - 85	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	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	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 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -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-60PU2E5B	S-71PU2E5B	S-100PU2E5B	S-100PU2E5B	S-125PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B		
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8		
	Panel		Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H: ECONAVI type:CZ-KPU3A		
Cooling capacity Heating capacity	kW		6.0 (2.0 - 7.1) 6.0 (1.8 - 7.6)	7.1 (2.0 - 8.0) 7.1 (1.8 - 8.6)	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)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)		
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,100 - 29,300)	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)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)		
EER : COP	Cooling : Heating	W/W	4.05 : 4.80 4.05 : 4.80	3.68 : 4.38 3.68 : 4.38	3.82 : 4.93 3.82 : 4.93	3.82 : 4.93 3.82 : 4.93	3.58 : 4.43 3.58 : 4.43	3.58 : 4.43 3.58 : 4.43	3.23 : 4.18 3.23 : 4.18	3.23 : 4.18 3.23 : 4.18		
Total power input	Cooling : Heating	kW	1.48 : 1.25	1.93 : 1.62	2.62 : 2.03	2.62 : 2.03	3.49 : 2.82	3.49 : 2.82	4.34 : 3.35	4.34 : 3.35		
Indoor Unit												
Power source		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		
		V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V		
Current	Cooling : Heating	A	0.35 : 0.34 0.34 : 0.33	0.39 : 0.38 0.38 : 0.37	0.79 : 0.78 0.76 : 0.75	0.79 : 0.78 0.76 : 0.75	0.88 : 0.87 0.85 : 0.84	0.88 : 0.87 0.85 : 0.84	0.94 : 0.93 0.91 : 0.90	0.94 : 0.93 0.91 : 0.90		
Dimensions	H × W × D	Indoor	mm	256×840 ×840	256×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840	319×840 ×840	319×840 ×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	kg	20	20	25	25	25	25	25	25		
		Panel	kg	5	5	5	5	5	5	5		
Air volume	Cooling : Heating	L/s	350 / 266 / 216 : 350 / 266 / 216	366 / 266 / 216 : 366 / 266 / 216	600 / 433 / 300 : 600 / 433 / 300	600 / 433 / 300 : 600 / 433 / 300	616 / 450 / 316 : 616 / 450 / 316	616 / 450 / 316 : 616 / 450 / 316	633 / 483 / 333 : 633 / 483 / 333	633 / 483 / 333 : 633 / 483 / 333		
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	36 / 31 / 28 : 36 / 31 / 28	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 45 / 39 / 33	46 / 39 / 33 : 45 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34		
Sound power level (H/M/L)	Cooling : Heating	dB(A)	51 / 46 / 43 : 51 / 46 / 43	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49		
Number of fan speeds			5*	5*	5*	5*	5*	5*	5*	5*		
Drain pipe size		mm	VP-25	VP-25	VP-25	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	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz		
		V	230V 240V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V		
Current	Cooling : Heating	A	6.95 : 5.85 6.70 : 5.60	9.00 : 7.65 8.65 : 7.30	11.5 : 8.85 11.1 : 8.50	3.90 : 3.00 3.75 : 2.90	15.6 : 12.6 15.0 : 12.0	5.20 : 4.15 5.00 : 4.00	19.5 : 15.0 18.7 : 14.3	6.50 : 4.95 6.25 : 4.80		
Dimensions	H × W × 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	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370		
Net weight		kg	44	44	90	90	94	94	94	94		
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386		
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)		
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)		
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	Ø9.52 / Ø15.88		
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	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	15, 30	15, 30	15, 30		
Maximum chargeless length		m	30	30	30	30	30	30	30	30		
Refrigerant at shipping / Additional gas amount		g	R32 1,450 / 35 (g/m)	R32 1,450 / 35 (g/m)	R32 2,600 / 45 (g/m)	R32 2,600 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)		
Operation ranges	Cooling : Heating	℃	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24		

Notes:

The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823

• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB

• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

* When using CZ-RTC5B, the number of fan speed will be 3 for other controller.

Indoor Unit Under Ceiling

Providing outstanding energy-saving performance, comfort and long-distance airflow distribution, these units are perfect for retail stores and schools.



Compact Looking, Stylish, One-Motion Design

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room. When not operating, the louver closes to provide an elegant look while also keeping the unit clean.



Energy-Saving Technology Delivering Top-Class Efficiency

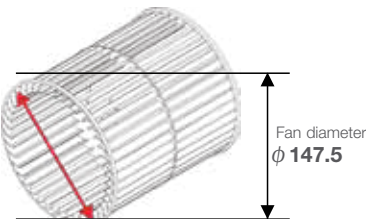
Optimisation of the shape of the casing and fan assures bigger air flow and higher efficiency. Energy-saving performance is top class in the industry.

Top Class Energy Saving

New DC fan motor

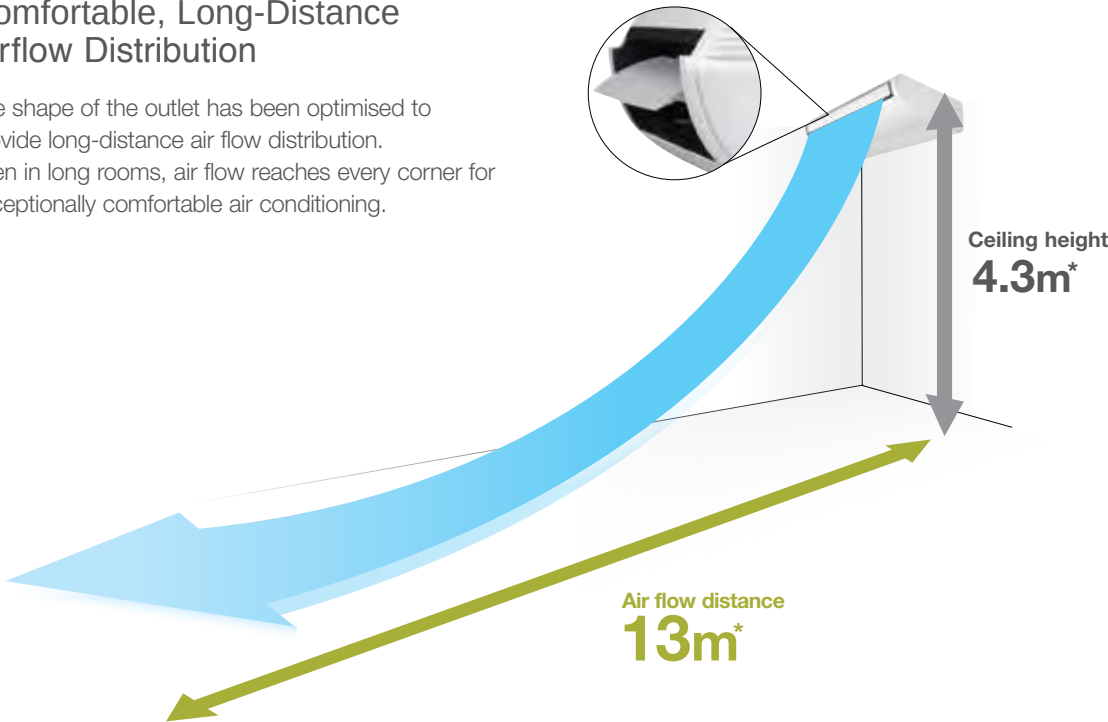


Large Diagonal Air Flow Fan



Comfortable, Long-Distance Airflow Distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution. Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.



* Results are based on specific testing conditions

High Ceiling Setting *Setting by remote control	Air flow distance		
	100	125	140
4.3m	12m	13m	13m



Indoor Unit: Under Ceiling

Specifications of R32 Deluxe Model



Capacity			7.1kW	10.0kW		12.5kW		14.0kW	
Model Name	Indoor Unit		S-71PT2E5B	S-100PT2E5B	S-100PT2E5B	S-125PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B
	Outdoor Unit		U-71PZH2R5	U-100PZH2R5	U-100PZH2R8	U-125PZH2R5	U-125PZH2R8	U-140PZH2R5	U-140PZH2R8
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)	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)
		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) 47,800 (10,900 - 54,600)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)
EER : COP	W/W		3.78 : 4.15	4.05 : 4.31	4.05 : 4.31	3.45 : 3.99	3.45 : 3.99	3.13 : 3.67	3.13 : 3.67
Total power input	Cooling : Heating	kW	1.88 : 1.93	2.47 : 2.60	2.47 : 2.60	3.62 : 3.51	3.62 : 3.51	4.47 : 4.36	4.47 : 4.36
Indoor Unit									
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	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	230V 240V	230V 240V
Current	Cooling : Heating	A	0.44 : 0.44 0.43 : 0.43	0.67 : 0.67 0.65 : 0.65	0.67 : 0.67 0.65 : 0.65	0.86 : 0.86 0.83 : 0.83	0.86 : 0.86 0.83 : 0.83	0.91 : 0.91 0.88 : 0.88	0.91 : 0.91 0.88 : 0.88
Dimensions	H × W × D	mm	235 × 1,275 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690	235 × 1,590 × 690
Net weight		kg	33	40	40	40	40	40	40
Air volume	Cooling : Heating	L/s	350 : 350	500 : 500	500 : 500	566 : 566	566 : 566	583 : 583	583 : 583
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	39 / 35 / 31 : 39 / 35 / 31	42 / 37 / 35 : 42 / 37 / 35	42 / 37 / 35 : 42 / 37 / 35	46 / 40 / 36 : 46 / 40 / 36	46 / 40 / 36 : 46 / 40 / 36	47 / 41 / 37 : 47 / 41 / 37	47 / 41 / 37 : 47 / 41 / 37
Sound power level (H/M/L)	Cooling : Heating	dB(A)	57 / 53 / 49 : 57 / 53 / 49	60 / 55 / 53 : 60 / 55 / 53	60 / 55 / 53 : 60 / 55 / 53	64 / 58 / 54 : 64 / 58 / 54	64 / 58 / 54 : 64 / 58 / 54	65 / 59 / 55 : 65 / 59 / 55	65 / 59 / 55 : 65 / 59 / 55
Number of fan speeds			3	3	3	3	3	3	3
Drain pipe size		mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit									
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 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	230V 240V	400V 415V
Current	Cooling : Heating	A	8.45 : 8.50 8.10 : 8.20	10.9 : 11.5 10.5 : 11.0	3.65 : 3.85 3.55 : 3.75	16.0 : 15.5 15.4 : 14.9	5.40 : 5.20 5.20 : 5.05	19.9 : 19.4 19.1 : 18.6	6.70 : 6.50 6.45 : 6.30
Dimensions	H × W × D	mm	996 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight		kg	68	99	99	99	99	99	99
Air volume	Cooling : Heating	L/s	1,017 : 1,000	1,967 : 1,800	1,967 : 1,800	2,083 : 1,867	2,083 : 1,867	2,150 : 1,933	2,150 : 1,933
Sound pressure level	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 55 (53)	54 (52) : 55 (53)
Sound power level	Cooling : Heating	dB(A)	64 (62) : 66 (64)	68 (66) : 68 (66)	68 (66) : 68 (66)	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	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 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	5 - 50	5 - 85	5 - 85	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	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	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 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (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	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -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-60PT2E5B	S-71PT2E5B	S-100PT2E5B	S-100PT2E5B	S-125PT2E5B	S-125PT2E5B	S-125PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B
	Outdoor Unit	U-60PZ2R5	U-71PZ2R5	U-100PZ2R5	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-125PZ2R8	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Cooling capacity : Heating capacity	kW	6.0(2.0-7.1) 6.0(1.8-7.6)	7.1(2.0-8.0) 7.1(1.8-8.6)	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)	12.5 (3.2-13.5) 12.5 (3.3-15.0)	12.5 (3.2-13.5) 12.5 (3.3-15.0)	12.5 (3.2-13.5) 12.5 (3.3-15.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)
	BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 25,900)	24,200 (6,800 - 27,300) 24,200 (6,800 - 29,300)	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 (10,900 - 51,200)	42,700 (10,900 - 46,100) 42,700 (10,900 - 51,200)	42,700 (10,900 - 46,100) 42,700 (10,900 - 51,200)	42,700 (10,900 - 46,100) 42,700 (10,900 - 51,200)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP	W/W	4.05 : 4.80 4.05 : 4.80	3.68 : 4.38 3.66 : 4.38	3.64 : 4.24 3.64 : 4.24	3.64 : 4.24 3.64 : 4.24	3.32 : 3.89 3.32 : 3.89	3.32 : 3.89 3.32 : 3.89	3.32 : 3.89 3.32 : 3.89	3.32 : 3.89 3.32 : 3.89	3.15 : 3.70 3.15 : 3.70	3.15 : 3.70 3.15 : 3.70
Total power input	Cooling : Heating	kW	1.48 : 1.25	1.93 : 1.62	2.75 : 2.36	2.75 : 2.36	3.76 : 3.21	3.76 : 3.21	3.76 : 3.21	4.32 : 3.78	4.32 : 3.78
Indoor Unit											
Power source	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	1 Phase/ 50Hz	1 Phase/ 50Hz
	V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating	A	0.41 : 0.41 0.40 : 0.40	0.44 : 0.44 0.43 : 0.43	0.67 : 0.67 0.65 : 0.65	0.67 : 0.67 0.65 : 0.65	0.86 : 0.86 0.83 : 0.83	0.86 : 0.86 0.83 : 0.83	0.86 : 0.86 0.83 : 0.83	0.91 : 0.91 0.88 : 0.88	0.91 : 0.91 0.88 : 0.88
Dimensions	H × W × D	mm	235x1,275 x690	235 x 1,275 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690	235 x 1,590 x 690
Net weight		kg	33	33	40	40	40	40	40	40	40
Air volume	Cooling : Heating	L/s	333 : 333	350 : 350	500 : 500	500 : 500	566 : 566	566 : 566	566 : 566	583 : 583	583 : 583
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	38 / 34 / 30 : 38 / 34 / 30	39 / 35 / 31 : 39 / 35 / 31	42 / 37 / 35 : 42 / 37 / 35	42 / 37 / 35 : 42 / 37 / 35	46 / 40 / 36 : 46 / 40 / 36	46 / 40 / 36 : 46 / 40 / 36	46 / 40 / 36 : 46 / 40 / 36	47 / 41 / 37 : 47 / 41 / 37	47 / 41 / 37 : 47 / 41 / 37
Sound power level (H/M/L)	Cooling : Heating	dB(A)	56 / 52 / 48 : 56 / 52 / 48	57 / 53 / 49 : 57 / 53 / 49	60 / 55 / 53 : 60 / 55 / 53	60 / 55 / 53 : 60 / 55 / 53	64 / 58 / 54 : 64 / 58 / 54	64 / 58 / 54 : 64 / 58 / 54	64 / 58 / 54 : 64 / 58 / 54	65 / 59 / 55 : 65 / 59 / 55	65 / 59 / 55 : 65 / 59 / 55
Number of fan speeds			3	3	3	3	3	3	3	3	3
Drain pipe size		mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit											
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
	V	230V 240V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating	A	6.90 : 6.80 6.60 : 5.55	8.95 : 7.55 8.60 : 7.25	12.2 : 10.4 11.7 : 10.0	4.15 : 3.55 4.00 : 3.40	16.9 : 14.3 16.2 : 13.7	5.60 : 4.75 5.40 : 4.60	19.4 : 16.9 18.6 : 16.2	6.45 : 5.60 6.20 : 5.40	6.45 : 5.60 6.20 : 5.40
Dimensions	H × W × 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	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	44	44	90	90	94	94	94	94	94
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
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	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	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	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	30	30	30	30	30	30	30	30	30
Refrigerant at shipping / Additional gas amount		g	R32 1,450 / 35 (g/m)	R32 1,450 / 35 (g/m)	R32 2,600 / 45 (g/m)	R32 2,600 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)	R32 2,980 / 45 (g/m)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

Wall Mounted

Providing small, lightweight and low noise level design, it is ideal for small offices and other commercial applications. It also has a stylish smooth design with a washable front panel.



Technical focus

- Closed discharge port when not in use
 - Lighter and smaller units make installation easy
 - Quiet operation
 - Smooth and durable design
- Piping outlet in six directions
 - Washable front panel
 - Air distribution is automatically altered depending on the operational mode of the unit

Closed discharge port

When the unit is turned off, the flap closes completely to prevent entry of dust into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in the six directions of right, right rear, right bottom, left, left rear, left bottom, making installation easier.

Air distribution is automatically adjusted depending on the operational mode of the unit

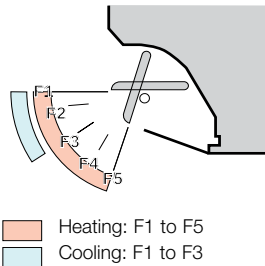
Air outlet angle is automatically adjusted for cooling and heating operation.

Quiet operation

Low operating noise level makes these units ideal for hotels and hospital applications.

Washable front panel

The indoor unit's front panel can be easily cleaned for trouble-free maintenance.



Specifications R32 REFRIGERANT

Capacity		9.5kW		9.0kW	
Model Name	Indoor Unit	S-100PK2E5B	S-100PK2E5B	S-100PK2E5B	S-100PK2E5B
	Outdoor Unit	U-100PZH2R5	U-100PZH2R8	U-100PZ2R5	U-100PZ2R8
Cooling capacity :	kW	9.5 (3.1 - 10.5)	9.5 (3.1 - 10.5)	9.0 (3.0 - 9.7)	9.0 (3.0 - 9.7)
		9.5 (3.1 - 11.5)	9.5 (3.1 - 11.5)	9.0 (3.0 - 10.5)	9.0 (3.0 - 10.5)
Heating capacity	BTU/h	32,400 (10,600 - 35,800)	32,400 (10,600 - 35,800)	30,700 (10,200 - 33,100)	30,700 (10,200 - 33,100)
		32,400 (10,600 - 39,200)	32,400 (10,600 - 39,200)	30,700 (10,200 - 35,800)	30,700 (10,200 - 35,800)
EER : COP	W/W	3.26 : 3.97	3.26 : 3.97	3.47 : 3.93	3.47 : 3.93
Total power input	Cooling : Heating kW	2.91 : 2.39	2.91 : 2.39	2.59 : 2.29	2.59 : 2.29
Indoor Unit					
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
	V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating A	0.68 : 0.68 0.66 : 0.66	0.68 : 0.68 0.66 : 0.66	0.68 : 0.68 0.66 : 0.66	0.68 : 0.68 0.66 : 0.66
Dimensions	H x W x D	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236
Net weight	kg	14	14	14	14
Air volume	Cooling : Heating L/s	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250	367 / 308 / 250 : 367 / 308 / 250
Sound pressure level (H/M/L)	Cooling : Heating dB(A)	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41
Sound power level (H/M/L)	Cooling : Heating dB(A)	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57
Number of fan speeds		5	5	5	5
Drain pipe size	mm	VP-16	VP-16	VP-16	VP-16
Outdoor Unit					
Power source	Phase/Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
	V	230V 240V	400V 415V	230V 240V	400V 415V
Current	Cooling : Heating A	12.9 : 10.6 12.4 : 10.1	4.35 : 3.55 4.20 : 3.45	11.5 : 10.1 11.0 : 9.7	3.90 : 3.45 3.75 : 3.30
Dimensions	H x W x D	1,416 x 940 x 340	1,416 x 940 x 340	996 x 980 x 370	996 x 980 x 370
Net weight	kg	99	99	90	90
Air volume	Cooling : Heating L/s	1,967 : 1,800	1,967 : 1,800	1,285 : 1,169	1,285 : 1,169
Sound pressure level (Silent mode)	Cooling : Heating dB(A)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)
Sound power level (Silent mode)	Cooling : Heating dB(A)	68 (66) : 68 (66)	68 (66) : 68 (66)	68 (66) : 67 (65)	68 (66) : 67 (65)
Piping connections	Liquid / Gas	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	5 - 85	5 - 85	5 - 50	5 - 50
Elevation difference (OU located lower, OU located higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length	m	30	30	30	30
Refrigerant at shipping / Additional gas amount	g	R32 3,050 / 45 (g)	R32 3,050 / 45 (g)	R32 2,600 / 45 (g/m)	R32 2,600 / 45 (g/m)
Operation ranges	Cooling : Heating °C	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

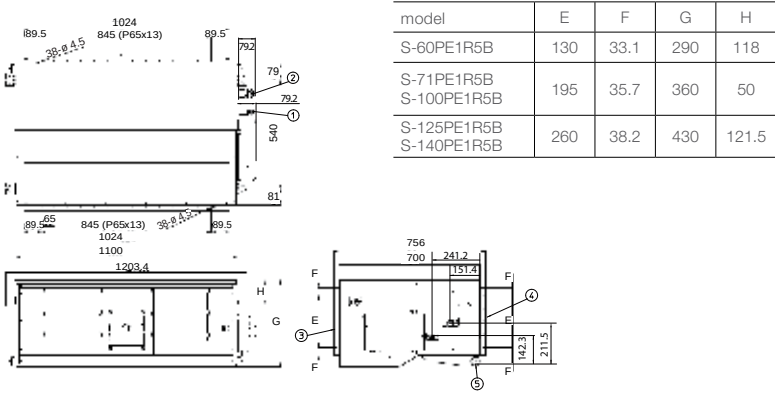
Indoor Unit Dimensions

HIGH STATIC PRESSURE DUCTED

Dimensions (6.0kW – 16.0kW)

S-60PE1R5B / S-71PE1R5B / S-100PE1R5B / S-125PE1R5B / S-140PE1R5B

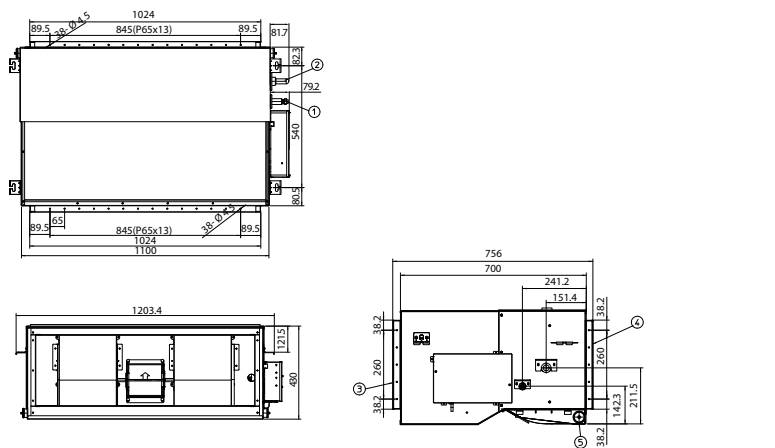
- 1 Refrigerant liquid tubing (Flare) ø9.52
- 2 Refrigerant gas tubing (Flare) ø15.88
- 3 Air intake duct connecting side flange
- 4 Air discharge duct connecting side flange
- 5 Drain port



unit: mm

S-160PE1R5B

- 1 Refrigerant liquid tubing (Flare) ø9.52
- 2 Refrigerant gas tubing (Brazing) ø19.05
- 3 Air intake duct connecting side flange
- 4 Air discharge duct connecting side flange
- 5 Drain port



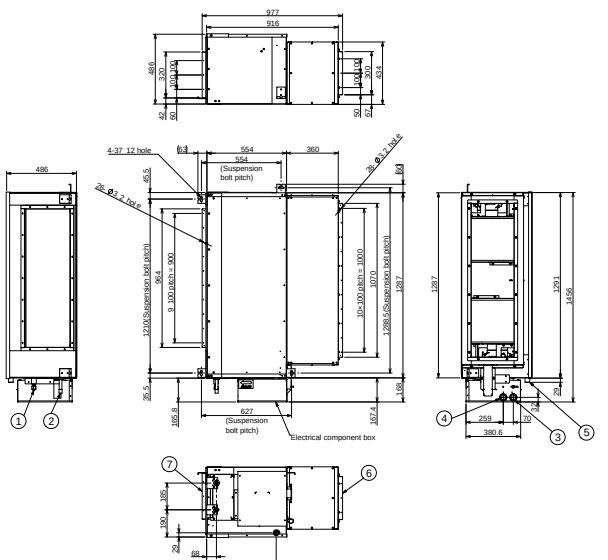
unit: mm

HIGH STATIC PRESSURE SPLITTABLE DUCTED

Dimensions (18.0kW – 22.4kW)

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

- 1 Refrigerant liquid tubing (Flare)
Type 180 : ø9.52
Type 200/224 : ø12.7
- 2 Refrigerant gas tubing (Brazing)
ø19.05
(Type 180 (50 - 75m) : Connection tubing ø19.05 → ø25.4
Type 200/224 (30 - 60m) : Connection tubing ø19.05 → ø25.4)
- 3 Power supply port
- 4 Communication port
- 5 Drain port 25A
- 6 Air intake duct connecting side flange
- 7 Air discharge duct connecting side flange



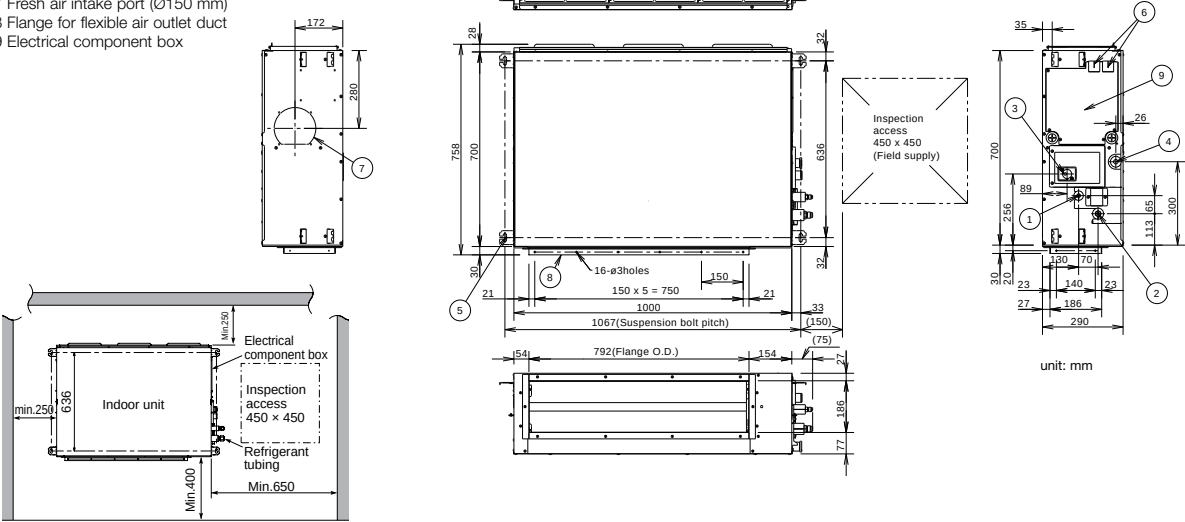
unit: mm

HIGH STATIC PRESSURE SLIM-LINE DUCTED

Dimensions (6.0kW – 7.1kW)

S-60PF1E5B / S-71PF1E5B

- 1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
- 2 Refrigerant piping joint (gas tube) Ø15.88 Flare
- 3 Upper drain port VP25 (O.D. Ø32 mm)
- 4 Bottom drain port VP25 (O.D. Ø32 mm)
- 5 Suspension lug (4-12 x 30 mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150 mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box

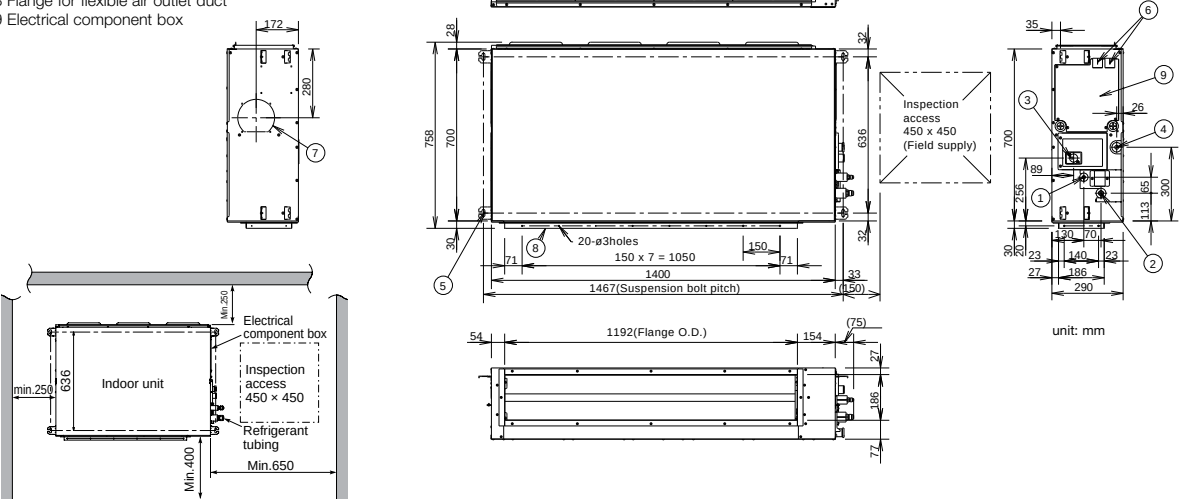


unit: mm

Dimensions (10.0kW – 14.0kW)

S-100PF1E5B / S-125PF1E5B / S-140PF1E5B

- 1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
- 2 Refrigerant piping joint (gas tube) Ø15.88 Flare
- 3 Upper drain port VP25 (O.D. Ø32 mm)
- 4 Bottom drain port VP25 (O.D. Ø32 mm)
- 5 Suspension lug (4-12 x 30 mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150 mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box



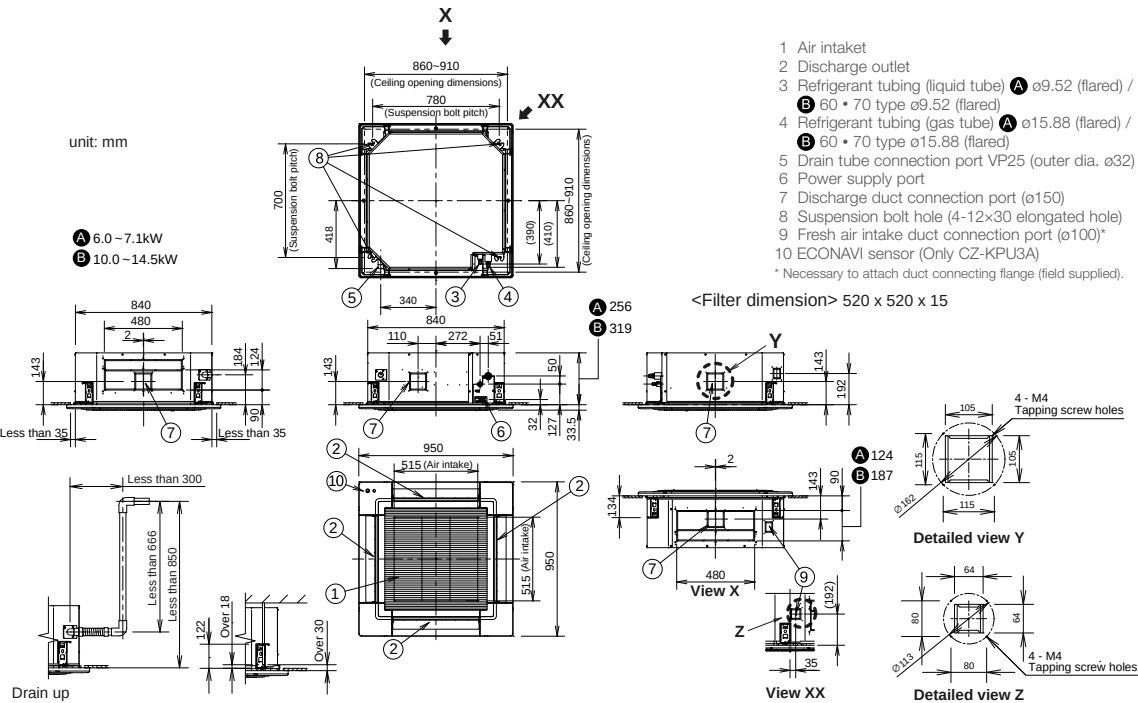
unit: mm

Indoor Unit Dimensions

4-WAY CASSETTE

Dimensions (6.0kW – 14.0kW)

S-60PU2E5B / S-71PU2E5B / S-100PU2E5B / S-125PU2E5B / S-140PU2E5B

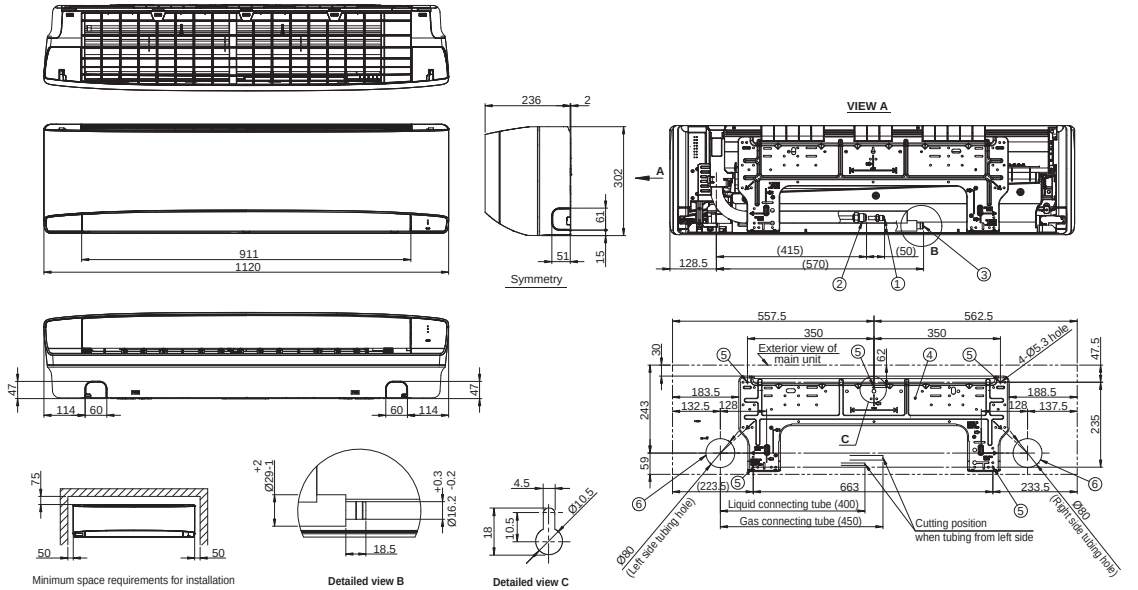


* Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 30 mm or more (18 mm or more from the lower surface of the body) as shown in the figure. When the suspension bolt length is long, it hits the ceiling panel and installation is not possible.

WALL MOUNTED

Dimensions (9.5kW)

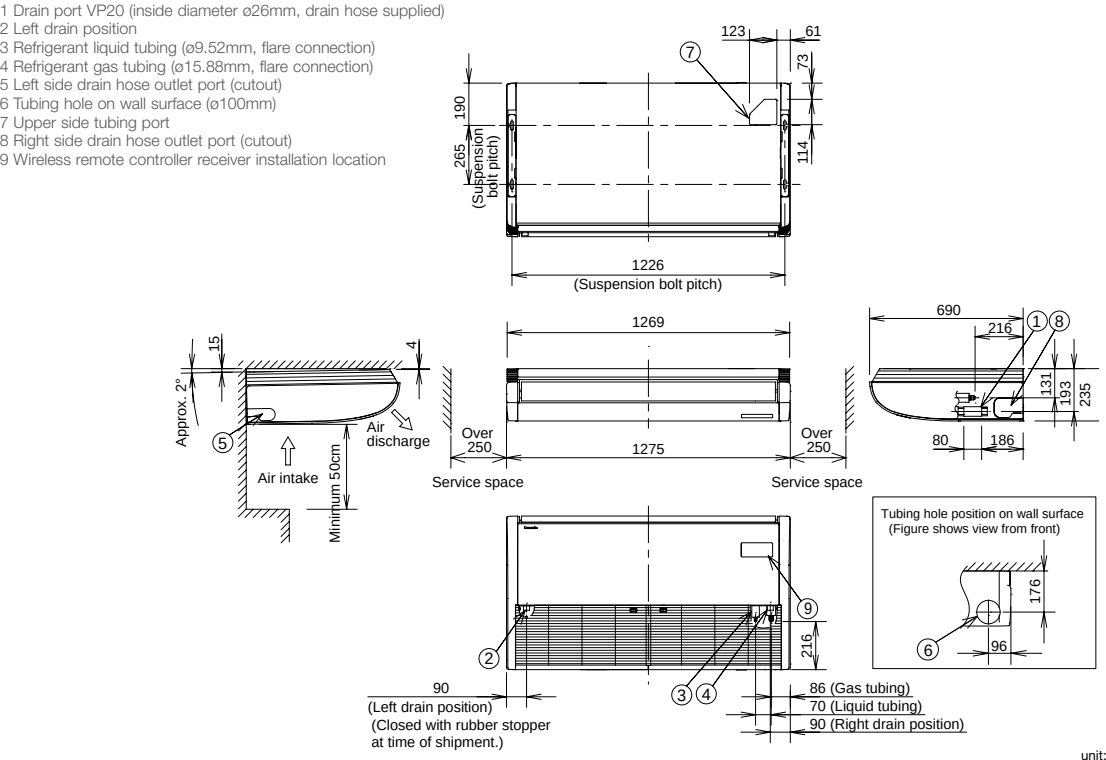
S-100PK2E5B



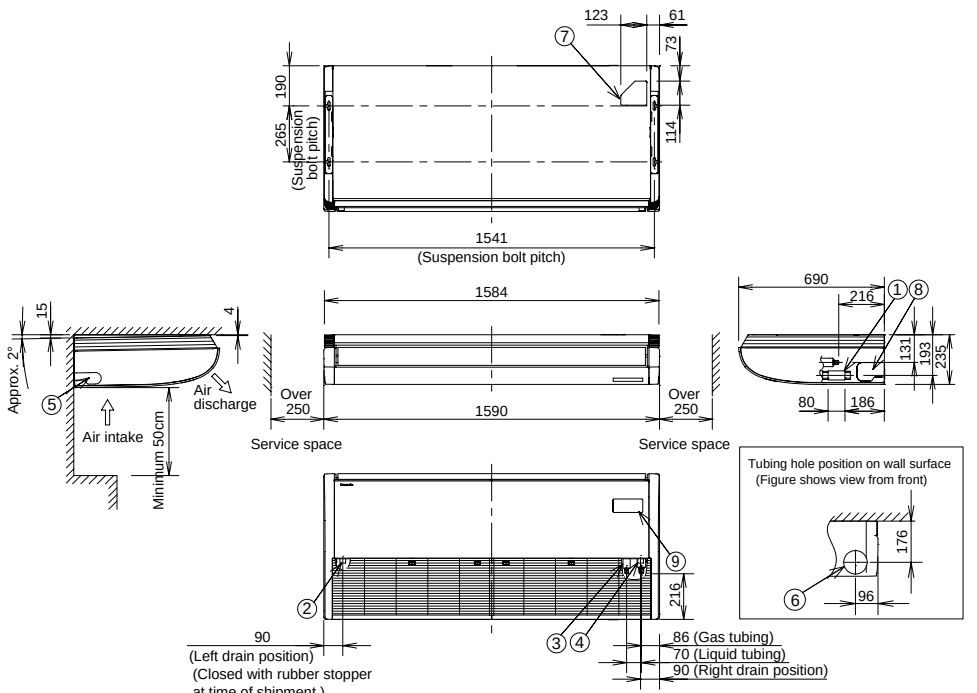
CEILING

Dimensions (6.0kW – 14.0kW)

S-60PT2E5B / S-71PT2E5B



S-100PT2E5B / S-125PT2E5B / S-140PT2E5B



Products for
Small Sized Project

Product line-up suitable for light to medium commercial and residential applications.



Ultra Slim Ducted

CS-Z25UD3RAW
CS-Z35UD3RAW
CS-Z50UD3RAW
CS-Z60UD3RAW



4-WAY Mini Cassette

CS-Z25UB4RAW
CS-Z35UB4RAW
CS-Z50UB4RAW
CS-Z60UB4RAW



CU-Z25UBRA



CU-Z35UBRA



CU-Z50UBRA
CU-Z60UBRA



CZ-RD52CP
(optional for
4-WAY Mini Cassette)



CZ-TACG1**
(optional)

Panel
CZ-BT30EW

Ultra Slim
Ducted



Technical focus

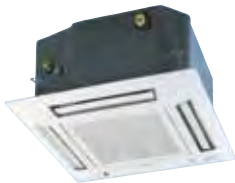
- WLAN Control Possible (CZ-TACG1 is needed)
- Market-leading Energy Efficiency
- Only 200mm High
- Rear or Bottom Return Air Options
- Built-in Drain Pump
- -15°C to +46°C Operating Range

Specifications

		Ultra Slim Ducted			
Capacity		2.6KW	3.7KW	5.0KW	5.6KW
model Name	Indoor Unit	CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW
	Outdoor Unit	CU-Z25UBRA	CU-Z35UBRA	CU-Z50UBRA	CU-Z60UBRA
Cooling capacity : Heating capacity	kW	2.60 (0.85 - 3.20) 3.30 (0.85 - 4.90)	3.70 (0.85 - 4.00) 4.20 (0.85 - 5.60)	5.00 (0.90 - 5.70) 6.10 (0.90 - 7.20)	5.60 (0.90 - 6.50) 7.00 (0.90 - 8.00)
	BTU/h	8,870 (2,900 - 10,900) 11,300 (2,900 - 16,700)	12,600 (2,900 - 13,600) 14,300 (2,900 - 19,100)	17,100 (3,070 - 19,400) 20,800 (3,070 - 24,600)	19,100 (3,070 - 22,200) 23,900 (3,070 - 27,300)
EER : COP	W/W	4.48 : 4.23	3.85 : 4.08	3.57 : 3.63	3.29 : 3.24
Power input (min - max)	Cooling : Heating kW	0.58 (0.24 - 0.85) : 0.78 (0.23 - 1.25)	0.96 (0.24 - 1.12) : 1.03 (0.23 - 1.57)	1.40 (0.26 - 1.78) : 1.68 (0.26 - 2.20)	1.70 (0.26 - 2.30) : 2.16 (0.26 - 2.60)
Indoor Unit					
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
	V	230V 240V	230V 240V	230V 240V	230V 240V
Current	Cooling : Heating A	2.80 : 3.50 2.70 : 3.40	4.30 : 4.70 4.20 : 4.50	6.30 : 7.40 6.10 : 7.20	7.50 : 9.50 7.30 : 9.30
Dimensions	H x W x D mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640
Net weight	kg	19	19	19	19
Air volume	Cooling : Heating L/s	175 : 175	187 : 187	255 : 255	262 : 262
Sound pressure level (H/M/L)	Cooling : Heating dB(A)	33 / 27 / 24 : 34 / 27 / 24	33 / 26 / 23 : 35 / 27 / 24	39 / 29 / 26 : 39 / 30 / 27	41 / 30 / 27 : 41 / 32 / 29
Sound power level (H/M/L)	Cooling : Heating dB(A)	49 / 43 / 40 : 50 / 43 / 40	49 / 42 / 39 : 51 / 43 / 40	55 / 45 / 42 : 55 / 46 / 43	57 / 46 / 43 : 57 / 48 / 45
Outdoor Unit					
Power source	Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
	V	230V 240V	230V 240V	230V 240V	230V 240V
Dimensions	H x W x D mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320
Net weight	kg	33	35	42	43
Piping connections	Liquid / Gas mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.70	Ø6.35 / Ø12.70
Pipe length	min. - max. m	3 - 20	3 - 20	3 - 30	3 - 30
Elevation difference	m	15	15	20	20
Operation ranges	Cooling : Heating °C	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB
* Products for Small Sized Project above (Ultra Slim Ducted and 4-WAY Mini Cassette) are not supported by PAC Smart Connectivity+ and Panasonic AC Smart Cloud.
**If you connect WLAN adaptor (CZ-TACG1) to an indoor unit other than wall mounted type and operate from the smartphone with Panasonic Comfort Cloud App, airflow direction may not be operated as it is shown on the display.

4-WAY
Mini Cassette



Technical focus

- WLAN Control Possible (CZ-TACG1 is needed)
- Market-leading Energy Efficiency
- Compact Design (260mm High)
- Easy Installation
- Built-in Drain Pump
- -15°C to +46°C Operating Range

Specifications

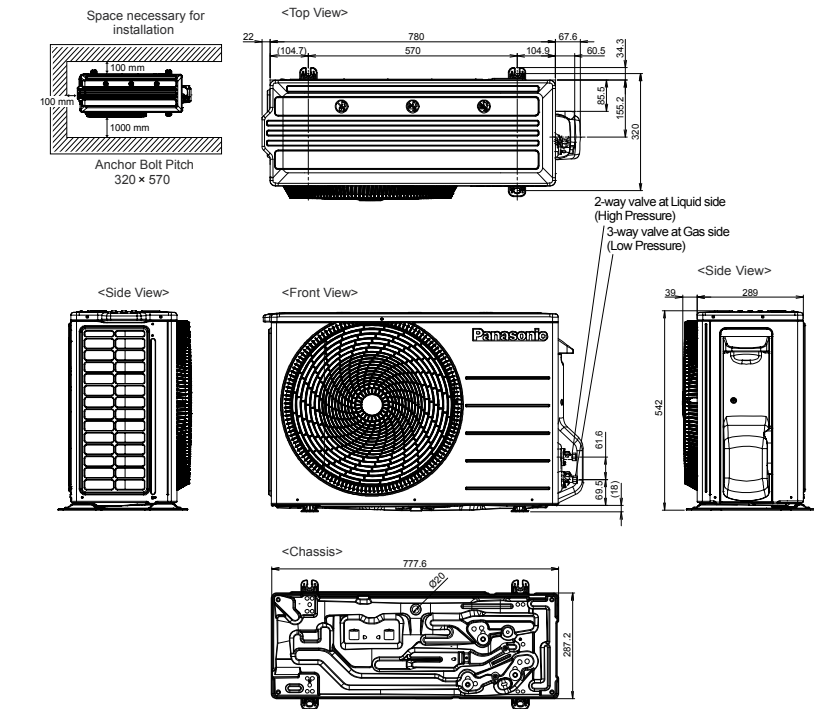
Mini Cassette			
2.5KW	3.5KW	4.8KW	5.7KW
CS-Z25UB4RAW	CS-Z35UB4RAW	CS-Z50UB4RAW	CS-Z60UB4RAW
CU-Z25UBRA	CU-Z35UBRA	CU-Z50UBRA	CU-Z60UBRA
2.50 (0.85 - 3.20) 3.20 (0.85 - 4.80)	3.50 (0.85 - 4.00) 4.00 (0.85 - 5.40)	4.80 (0.90 - 5.70) 5.00 (0.90 - 7.10)	5.70 (0.90 - 6.35) 6.00 (0.90 - 8.00)
8,530 (2,900 - 10,900) 10,900 (2,900 - 16,400)	11,900 (2,900 - 13,600) 13,600 (2,900 - 18,400)	16,400 (3,070 - 19,400) 17,100 (3,070 - 24,200)	19,400 (3,070 - 21,700) 20,500 (3,070 - 27,300)
4.55 : 4.16 0.55 (0.24 - 0.82) : 0.77 (0.23 - 1.32)	3.89 : 3.92 0.90 (0.24 - 1.18) : 1.02 (0.23 - 1.65)	3.38 : 3.38 1.42 (0.26 - 1.84) : 1.48 (0.26 - 2.41)	3.29 : 3.30 1.73 (0.26 - 2.20) : 1.82 (0.26 - 2.75)
1 Phase/ 50Hz 230V 240V	1 Phase/ 50Hz 230V 240V	1 Phase/ 50Hz 230V 240V	1 Phase/ 50Hz 230V 240V
2.60 : 3.50 2.50 : 3.40	4.05 : 4.55 3.95 : 4.35	6.30 : 6.50 6.10 : 6.30	7.60 : 8.00 7.40 : 7.80
260 x 575 x 575 18	260 x 575 x 575 18	260 x 575 x 575 18	260 x 575 x 575 18
175 : 180	175 : 195	192 : 197	237 : 253
34 / 25 / 22 : 35 / 28 / 25	34 / 26 / 23 : 37 / 28 / 25	38 / 28 / 25 : 39 / 29 / 26	43 / 32 / 29 : 45 / 32 / 29
50 / 41 / 38 : 51 / 44 / 41	50 / 42 / 39 : 53 / 44 / 41	54 / 44 / 41 : 55 / 45 / 42	59 / 48 / 45 : 61 / 48 / 45
1 Phase / 50Hz 230V 240V	1 Phase / 50Hz 230V 240V	1 Phase / 50Hz 230V 240V	1 Phase / 50Hz 230V 240V
542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320
33	35	42	43
Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.70	Ø6.35 / Ø12.70
3 - 20	3 - 20	3 - 30	3 - 30
15	15	20	20
-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24

Notes:
The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823
• Cooling: Indoor temperature: 27°C DB/ 19°C WB, Outdoor temperature: 35°C DB/ 24°C WB
• Heating: Indoor temperature: 20°C DB/ 15°C WB, Outdoor temperature: 7°C DB/ 6°C WB

Small Sized Project Dimensions

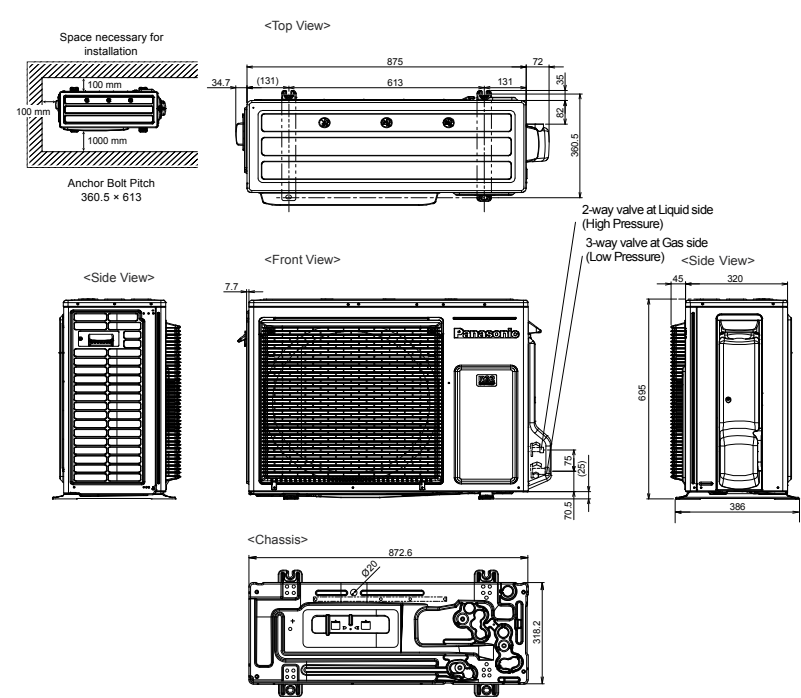
OUTDOOR UNIT

Dimensions (2.5kW – 2.6kW)
CU-Z25UBRA



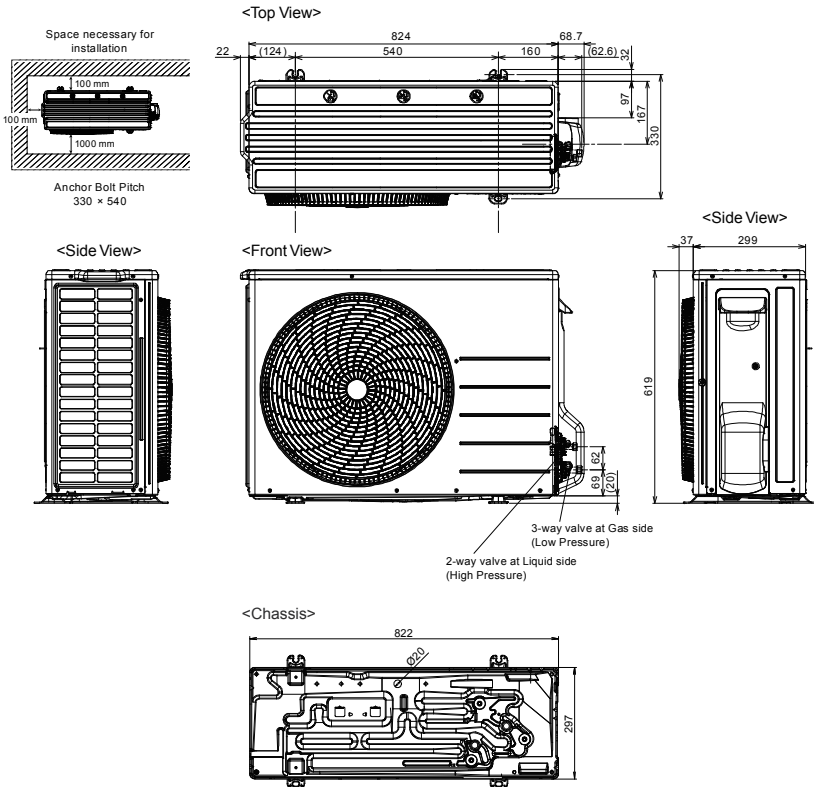
unit: mm

Dimensions (4.8kW – 5.7kW)
CU-Z50UBRA / CU-Z60UBRA



unit: mm

Dimensions (3.5kW – 3.7kW)
CU-Z35UBRA

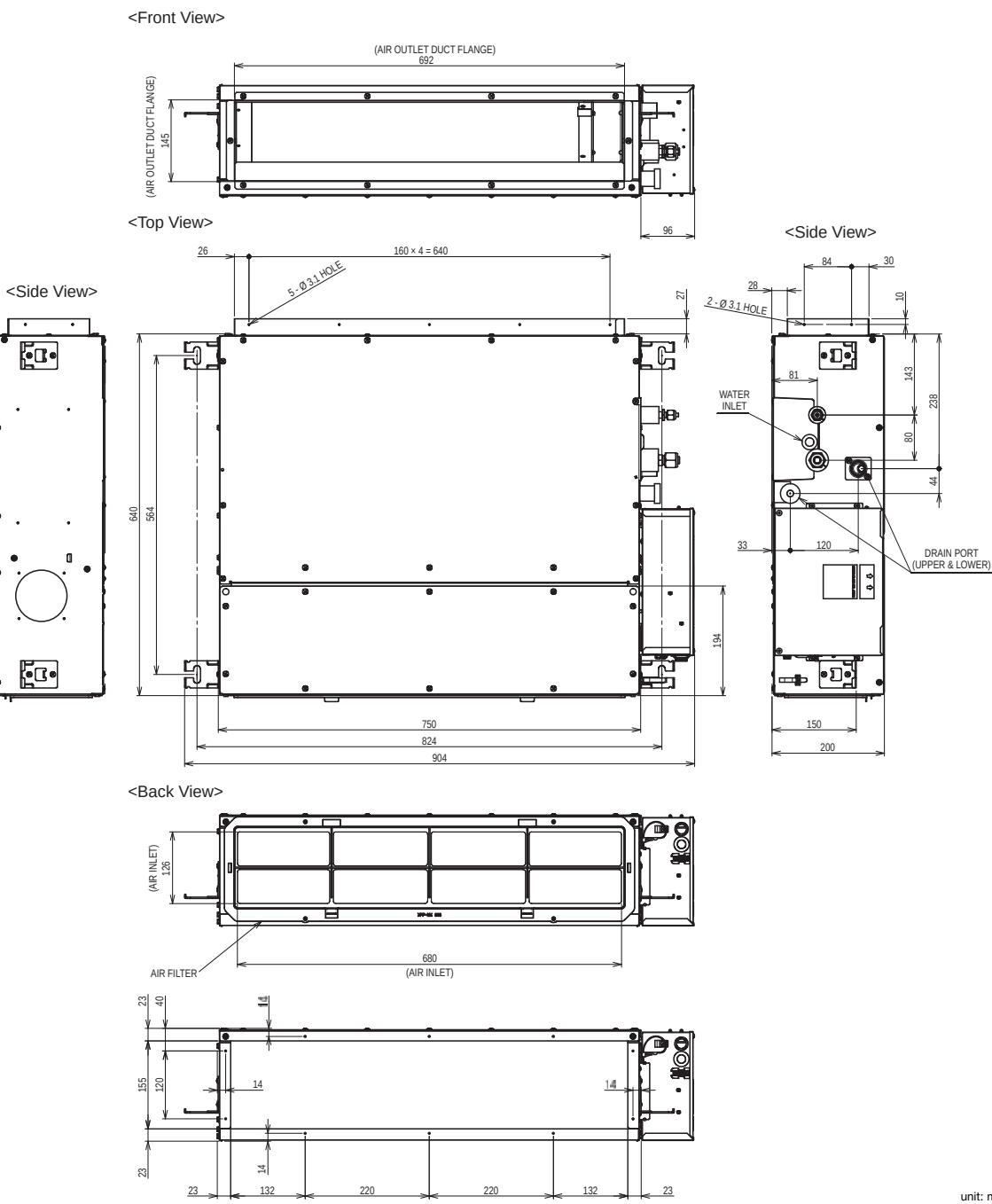


unit: mm

Small Sized Project Dimensions

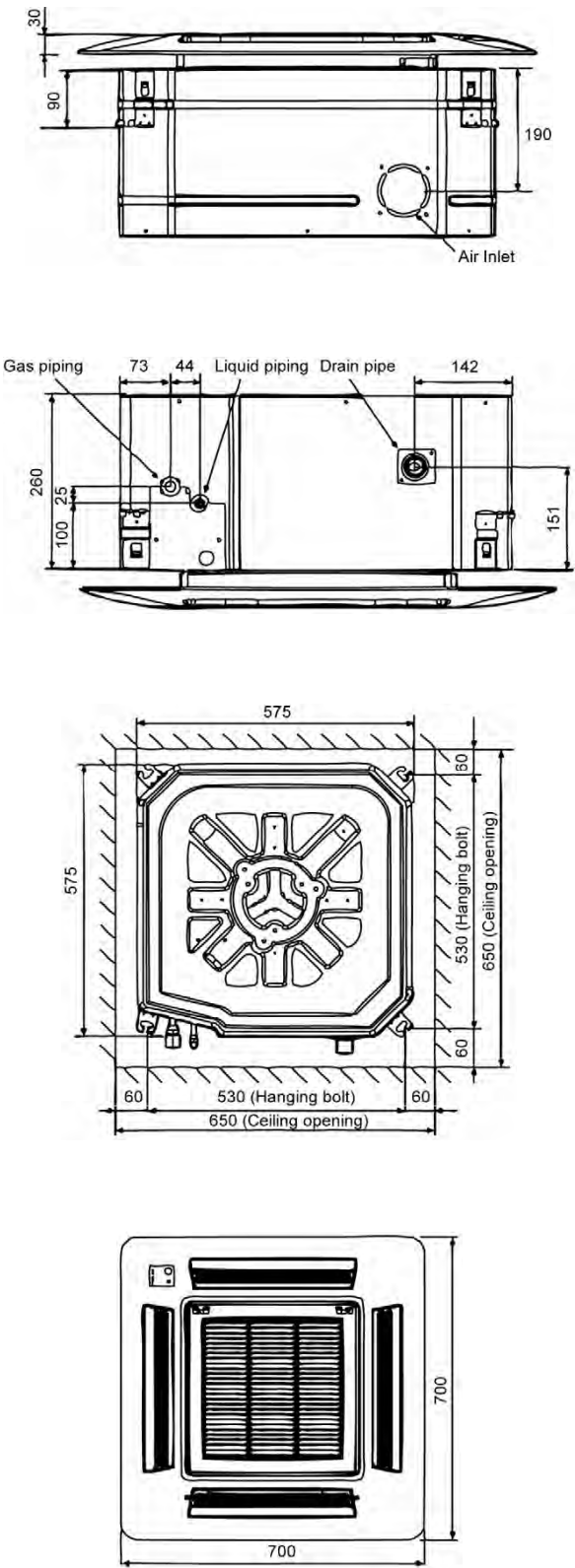
ULTRA SLIM DUCTED

Dimensions (2.6kW – 5.6kW)
CS-Z25UD3RAW / CS-Z35UD3RAW / CS-Z50UD3RAW / CS-Z60UD3RAW



4-WAY MINI CASSETTE

Dimensions (2.5kW – 5.7kW)
CS-Z25UB4RAW / CS-Z35UB4RAW / CS-Z50UB4RAW / CS-Z60UB4RAW



Smart Connectivity and Control Solutions

Panasonic offers a range of smart connectivity and control solutions for residential and commercial applications that allows you to conveniently manage and monitor air conditioning units in single or multiple locations from one mobile device.



Wide Range of Smart Control Solutions for All Needs

Whether you need to control multiple sites, a single office, or your home, we offer a range of innovative smart control solutions for a variety of needs.



Panasonic
Comfort Cloud

Intuitive and scalable air conditioning control solution using a personal mobile device.



PAC Smart
Connectivity+

Offers efficient energy management with high indoor air quality (IAQ) control.



Panasonic AC
Smart Cloud

Monitor and manage energy consumption of multiple location through a cloud computing system.

For Residential



Panasonic
Comfort Cloud Home
Automation
Ready

Personal Control Solutions Panasonic Comfort Cloud

Remotely manage and monitor multiple air conditioning units in your home

Easily control and access all features of the air conditioning units with smart centralised control.

Intuitive voice control

Control air conditioning units by voice command connecting to smart speaker.



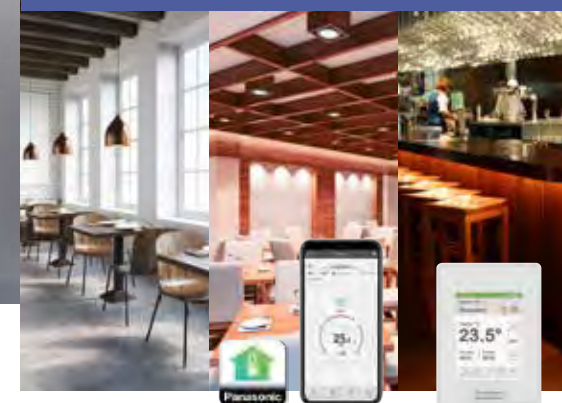
PLUG & PLAY FOR HOME AUTOMATION

Easily connect with integrated controllers to become part of your automated home network.



For further information, please check PUSH and CLIPSAL® website.

For Light Commercial



Panasonic
Comfort Cloud PAC Smart
Connectivity+

Cost effective Energy Management Solution

Connectable
up to **200 Units**
with just 1 device

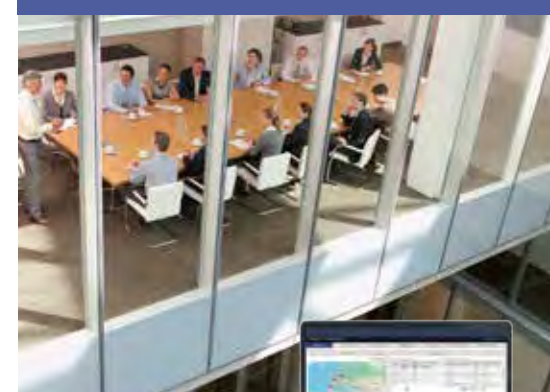
Multiple location control at your convenience with Comfort Cloud

Gain control of multiple zones and sites intuitively adjusting temperature by areas with differentiated user rights settings.

Indoor Air Quality (IAQ) and efficient energy usage with PAC Smart Connectivity+

- Ultimate cooling comfort with sensing technology and automatic IAQ control.
- Simplified Plug & Play installation with BMS connection for better energy consumption.

For Multiple Building Management



Panasonic AC
Smart Cloud

Full Control of All Installations From A Single Internet Connection Panasonic AC Smart Cloud

Manage and monitor energy consumption patterns

Analyse energy usage, running time and optimise temperatures to reduce energy costs.

Centralised control solution with zero downtime

Receive real-time status updates to prevent breakdowns.

Flexible and scalable solution for expanding businesses and multi sites

Adaptable solutions that can easily be upgraded for new features, meet user demand and better IT management.

* Time of release in Quarter Three 2019.
CZ-TACG1 or CZ-CAPWFC1 Network Adaptor required per unit.
Requires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available.
To use Amazon Alexa to control your air conditioner, you will need an Amazon Echo device.
To use Google Assistant to control your air conditioner, you will need a Google Assistant device.
Google is a trademark of Google LLC.
Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Panasonic Comfort Cloud

Control air conditioning units from wherever and whenever with your smartphone, by using Panasonic Comfort Cloud and WLAN smart adaptor.

This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for both residential and commercial applications.

Panasonic Comfort Cloud features

Voice Control

Control air conditioning units by voice command intuitively connecting to smart speaker.*1



Multiple User

The Panasonic Comfort Cloud App allows multiuser access control. Restrict user access to specific units.



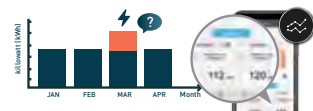
From 1 to 200 units

User can control up to 200 indoor units. 10 different sites, with up to 20 units / groups per site.



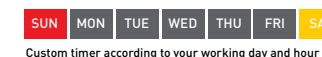
Energy Monitor

See the estimated power consumption and compare with other periods to see how energy bill can be reduced even more.*2



Easy Scheduling

Complex weekly scheduling made simple. Not only for one units, but across multiple sites and from a smartphone.



Error Codes

Error code notification through the App, provides early notification and allows for faster repair.



Application Examples



Centralised control from reception.



Multiple location control for small business.

System configuration

Network Adaptor

CZ-TACG1 CZ-CAPWFC1

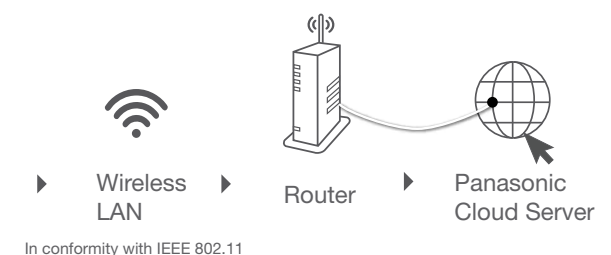


CZ-TACG1: For products for small sized project. (Page 40-41)
CZ-CAPWFC1: Available for all types of VRF and PAC indoor unit.

Connection Diagram



Indoor Unit



In conformity with IEEE 802.11

WLAN Smart Adaptor specification

	CZ-TACG1	CZ-CAPWFC1
Input Voltage	DC 1.2V (Supplied from indoor unit)	
Power Consumption	Maximum 0.66W	Maximum 2.4W
Size [H x W x D]	66 x 36 x 12mm	120 x 70 x 25mm
Weight	Approx. 85g	190g (including communications lines)
Interface	Wireless LAN	
Wireless LAN Standard	IEEE 802.11 b/g/n	
Frequency range	2.4GHz band	
Encryption	WPA2-PSK(TKIP/AES)	
Operation range	0-55°C, 20 - 80RH%	



Comfort Cloud App

Compatible Device and Browsers

1. IOS 9.0 or above
2. Android 4.4 or above

For Residential

Remotely manage and monitor air conditioning units from anywhere anytime.

For Light Commercial

Gain control of multiple zones and sites intuitively up to 200 indoor units.

Plug & Play for Home Automation

Easily connect with integrated controllers to become part of your automated home network. Plug & Play with Push controls and Clipsal solutions to enjoy simplicity you've been waiting for, empowering you to take control of your home's technology.



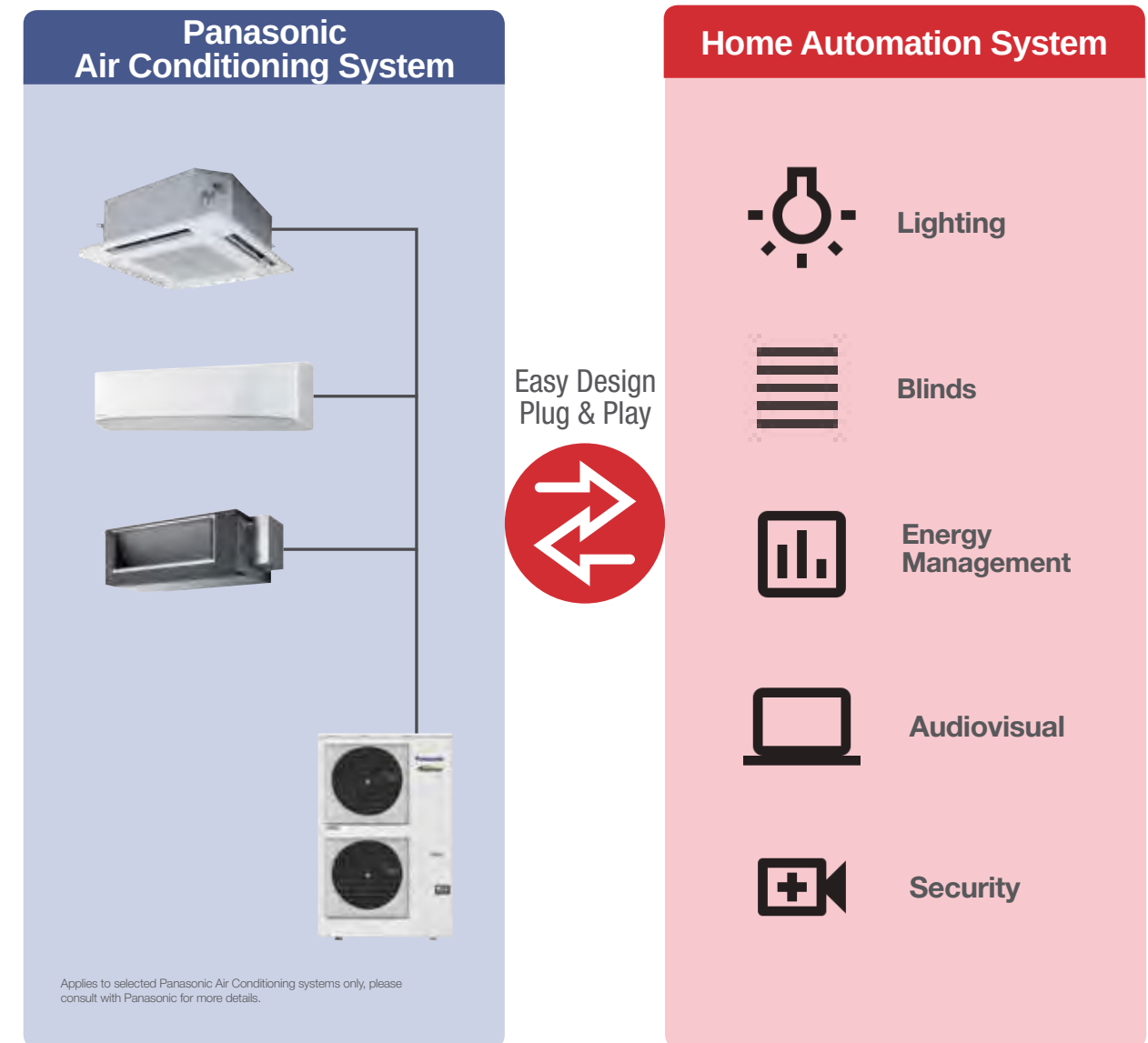
Panasonic

Schneider
Electric

Panasonic partnering with Schneider Electric offering home automation solution with PUSH and CLIPSAL interfaces and devices.

Easy Design / Plug & Play

Push Controls brings you smart home technologies and enables you to control devices at your fingertips from any smart phone or tablet. Panasonic air conditioners are ready for this smart home automation with just plug-and-play connectivity.



Possible Climate Control

- Temperature point setting
- Mode setting
- Fan speed setting
- Room temperature feedback
- Error codes
- Control prohibition

push **PUSH™**
by Schneider Electric www.pushcontrols.com

CLIPSAL®
by Schneider Electric

For further information please check PUSH™ and CLIPSAL® website.

PAC Smart Connectivity+

Through thorough energy management, Panasonic's PAC Smart Connectivity+ is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and maintenance.



PAC Smart Connectivity+

PAC Smart Connectivity+ offers efficient energy management and a new air conditioning control solution with high IAQ (Indoor Air Quality).

Energy Management System for Rooms

Each room is monitored by high-precision sensors, making it possible to make every room's temperature comfortable without wasting energy.

Management System for the Entire Building

A Building Energy Management System (BMS) can also be connected for Plug & Play centralised control of the building's entire energy consumption.

Advantages



Dramatic Reduction of OpEx with Outstanding IAQ.

- 3 Built-in sensors: Temperature, RH and Occupancy
- ZigBee wireless sensors: CO₂/Temperature/RH%, window/door, ceiling/wall



User-/Owner-friendly.

- Colour touch screen
- Ease and simply of use
- 22 Languages
- Easy-to-understand error description



Ultimate Customisation.

- Background colour customisable
- Custom display/icons, messages
- Programmable logic (also stand alone)
- Various controls and various external connection devices



Easy Design and Plug and Play to Reduce CapEx.

- Simple Plug & Play connection to Building Energy Management System (BMS)
- Stand alone or BMS connected
- Easy Installation of Zigbee Sensors



PAC Smart Connectivity+ ~New SE8000 series~

1. Quality Air Control

Optimum IAQ is realized using the CO₂ & humidity sensors. The interior remains comfortable, while heating and cooling costs are minimized.

The CO₂ sensor controls ventilation systems which contributes to improving the room's air quality.



2. Room Key Card or Key Cardless Solutions for Hotels

Solutions are provided that meet the needs of various regions and hotel grades.

Whilst the previous model's automatic detection function offered optimal air conditioning with or without a hotel room key card, the latest model enables conventional key cards to control air conditioners and other devices coordinately. The increase in the types of devices that can be connected enables customized control of any hotel room.

3. Other Equipment Control

One room controller manages various devices including lighting and the blinds.

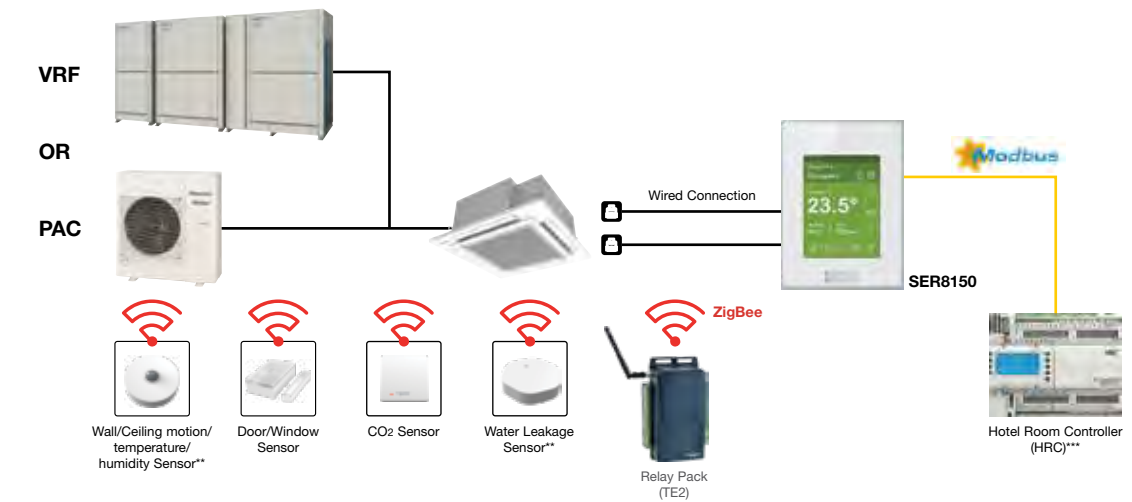
A ventilation system and other external connection devices (dry contact input) can be connected by using HRC* or TE2 so that various control is possible with this controller alone, even without BMS.



*Available through a Schneider Electric distribution channel.

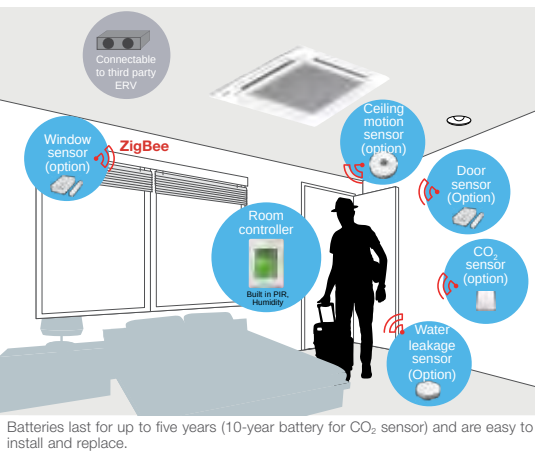
Energy Management System for Rooms

By installing a ceiling motion sensor, wall motion temperature sensor, window/door sensor, and CO2 sensor in the room, ideal, waste-free air conditioning is achieved.



Sensing & Control technology

Using sensors from Schneider Electric, high-quality occupancy control and automatic IAQ control were realised. The sensors detect the presence or absence of occupants, and the opening and closing of doors and windows to achieve the most efficient energy management for exceptional air-conditioned comfort. Flexible installation is possible to match different applications and building features such as walls, ceilings and proximity to doors and windows. No wiring means extra installation versatility.



Batteries last for up to five years (10-year battery for CO2 sensor) and are easy to install and replace.

Door/Window Sensor
Door and window contact detection sensor to monitor opening and closing.

Wall/Ceiling motion/temperature/humidity Sensor
Wall and ceiling sensor to detect the presence or absence of occupants.

CO2 Sensor
Monitor indoor air quality, review data on interfacing devices, and control fresh air inside customizable zones.

Water Leakage Sensor**
Two sensing pads under the body activate when water is present between the two pads. Detecting the water, the sensor reports the event to the controller.

Relay Pack (TE2)
Wireless programmable terminal equipment controllers for HVAC equipment and pulse counting. Includes local memory to store fail safe control sequence.

Hotel Room Controller (HRC)***
The Hotel Room Controller controls connected guest room devices and aggregates data, making it visible to guest room and property management systems.

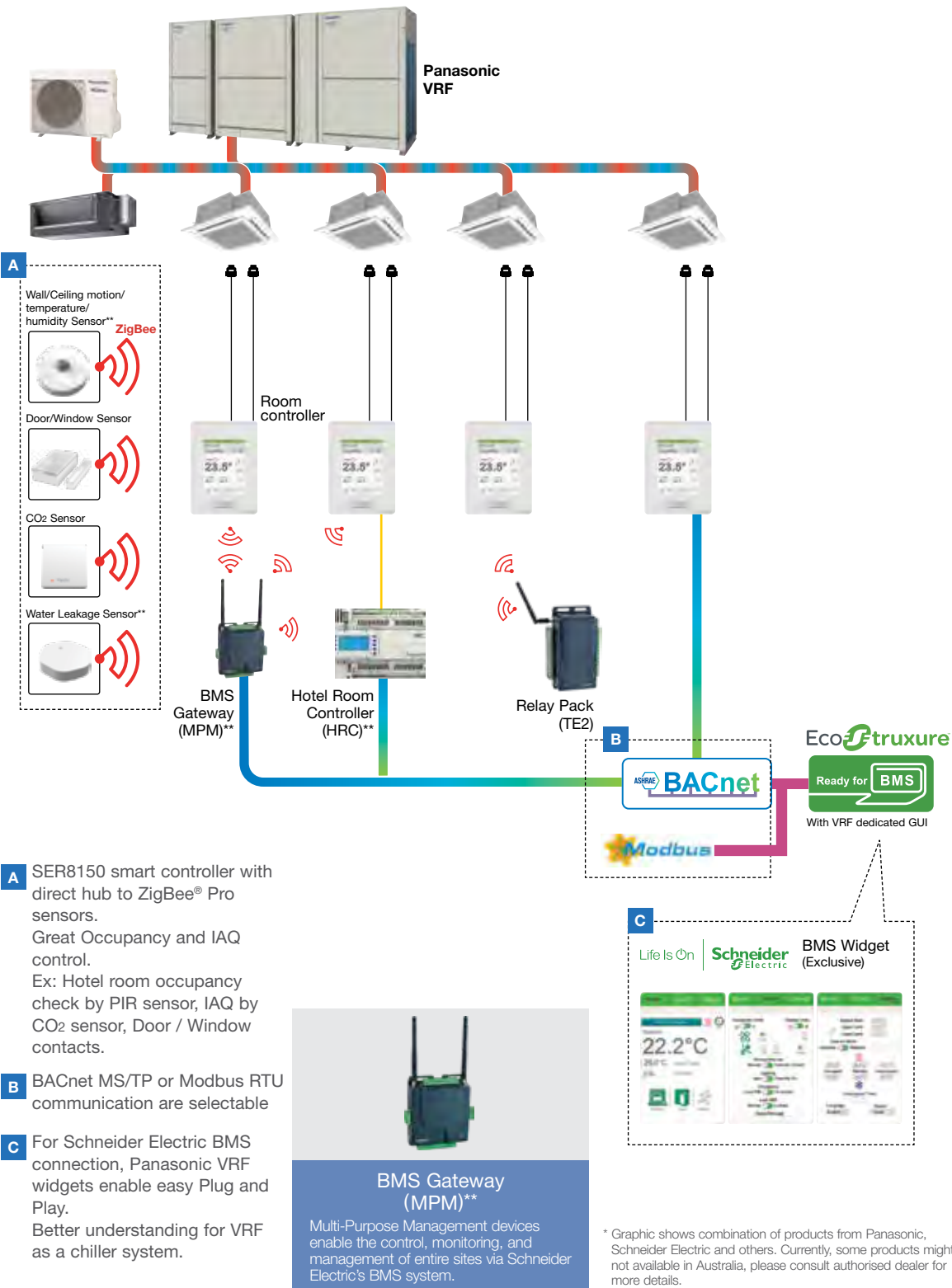
* Specifications are subject to change without notice.
**Time of release to be confirmed.
***Available through a Schneider Electric distribution channel.

Management System for the Entire Building

The smarter solution to simplify energy management, optimise building efficiency and drive savings.

Plug and Play BMS connection.

With the SER8150, connection to BMS is extremely easy. Better still, a remote controller is all that's needed to enable use as a stand-alone system. In addition to dramatically reducing the burden on system integrators, this cuts costs.



* Graphic shows combination of products from Panasonic, Schneider Electric and others. Currently, some products might not be available in Australia, please consult authorised dealer for more details.
**Available through a Schneider Electric distribution channel.

Smart Management Solutions

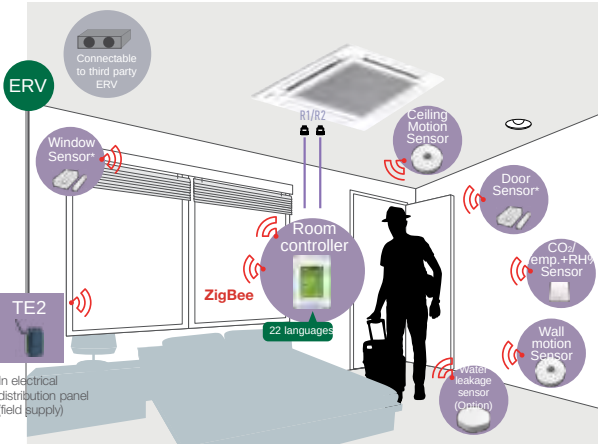
1 Hotels
Room Key Card or Key Cardless
Solutions for Hotels

The SER8150 and ZigBee Sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect. Automatic control ensures the most efficient operation when guests are away or when windows are open. This contributes to an appreciable reduction in operation costs.



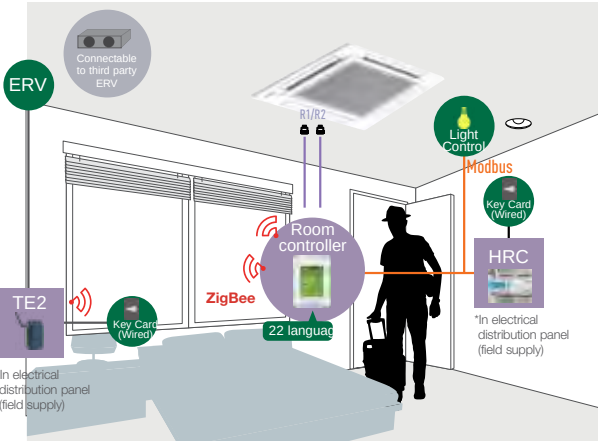
1. Remote sensing & IAQ control

In addition to detecting a room's temperature, humidity and CO2 concentration, ZigBee remote sensors detect the opening/closing of windows and doors, and the presence/absence of people in a room. Various IAQ controls and detailed energy savings are possible by using TE2 (Relay Pack) based on this detected information.



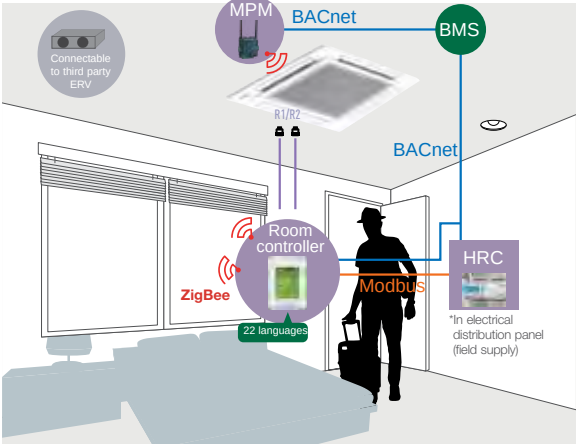
3. Key Cardless control

The introduction of TE2 and HRC* enables conventional wired keycards to be connected to the system so that it is possible to meet the specific requirements of various hotel and room types.



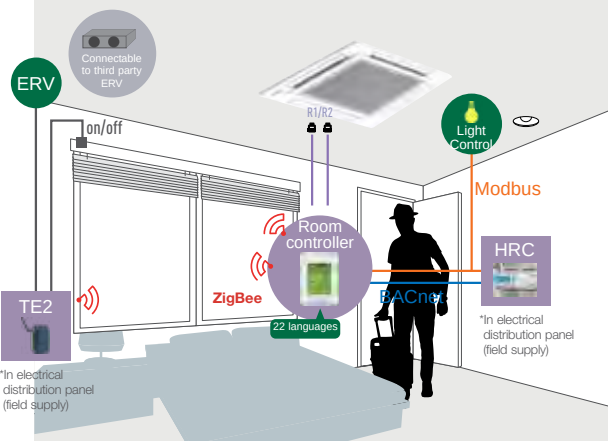
2. BMS Connectivity

With MPM as the BMS gateway and by setting HRC* as the guestroom controller, sensing, control and BMS connection can be realized in coordination with SER8150!



4. Other control

The introduction of TE2, HRC* and MPM* enables the on/off control of devices having dry contact input, such as ventilation, lighting and blinds.



*Available through a Schneider Electric distribution channel.

2 Small and Medium Offices



CO2 sensors (option) and Humidity sensors

CO2 sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.

3 Super Markets



Humidity sensors

Humidity sensors enable automatic dehumidification for the optimum IAQ regardless of climatic conditions. This creates an even more comfortable environment for customers, employees, and products themselves.

* Except for products for small sized project (Ultra Slim Ducted, 4-WAY Mini Cassette)

Innovative and Unrivalled Advantages

Colour and Design to Match Office Interiors

Colour combinations and design can be set to match different facilities.



Customisation in 22 Languages Possible

The display can be customised to match the native languages of guests to enable smooth, stress-free communication for hospitality at its finest.



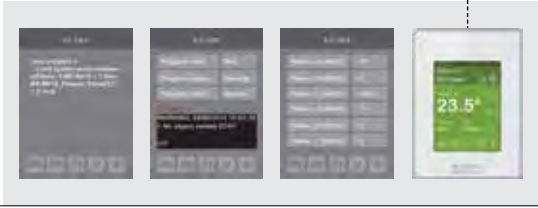
Easy-to-Understand Error Description

Error description during an emergency is easy to understand, enabling staff to respond quickly.

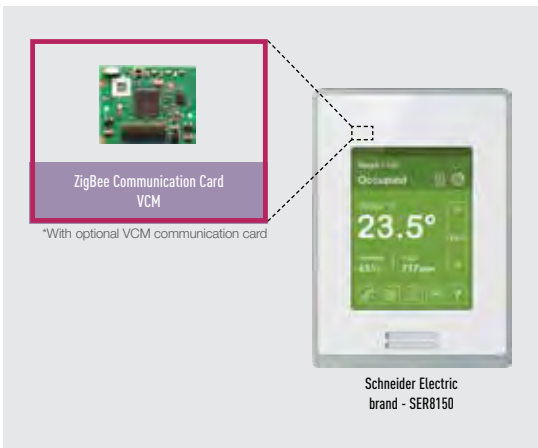


Programmable Logic

Full customisation of remote control logic possible, and updating to match conditions.



Smart Connectivity Devices



- Features**
- Up to 5-year battery life batteries included (CO2 sensor is 10 years)
 - Battery level is a point
 - Sensor points visible when SER8150 is integrated via BACnet MS/TP
 - Sensor status and battery level visible when SER8150 is integrated via ZigBee® Pro
 - Integration to BMS only recommended when each MPM** is connected to Ethernet and set as a ZigBee® Coordinator node

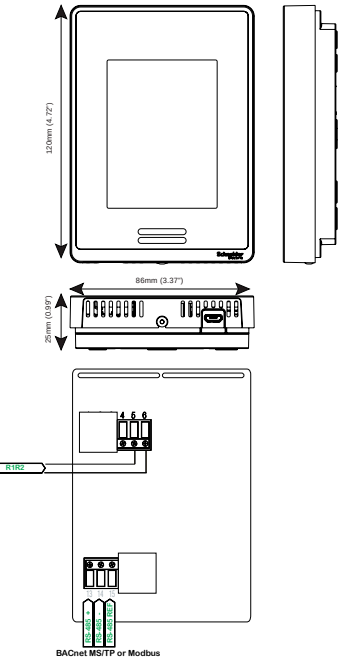
**Availability and time of release are to be determined.

Reference	Description
SER8150R0B1194	Pana Net Con, RH, No PIR, SE Brand, R1R2
SER8150R5B1194	Pana Net Con, RH, PIR, SE Brand, R1R2
VCM800DV5094P	Wireless ZigBee Pro communication card
TE2	
SEC-TEA-R-230-5045	Smart Terminal Controller ZigBee Pro High Power, External Antenna, 4UI/440/500, 220-240VAC
SEC-TEA-R-24-5045	Smart Terminal Controller ZigBee Pro High Power, External Antenna, 4UI/440/500, 24VAC
MPM**	
MPM-UN-014-5045	Universal network controller with Building Expert and StruXureWare integration, High Power, 6 I/6O, Modbus
MPM-RAEC-5045	Universal network controller Cable extension

PAC Smart Connectivity+ controller external dimensions

Room Controller for SER8150

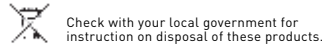
Dimensions



Specifications

Dimensions
Height: 12cm/4.72in
Width: 8.6cm/3.39in
Depth: 2.7cm/1.06in
Power Requirements
16 Vdc from Panasonic R-R IDU connectors
50/60 Hz, 4VA, Class 2 Supply
Range from Indoor Unit
Recommended 500ft (150 m)
Operating Conditions
0 °C to 50°C (32°F to 122°F)
0% to 95% R.H. non-condensing
Storage Conditions
-30°C to 50°C (-22°F to 122°F)
0% to 95% R.H. non-condensing
Temperature Sensor
Local 10 K NTC type 2 thermistor
Temperature Sensor Resolution
± 0.1°C (± 0.2°F)
Temperature Sensor Accuracy
± 0.5°C (± 0.9°F) @ 21°C (70°F) typical calibrated

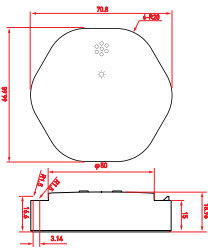
Humidity Sensor and Calibration
Single point calibrated bulk polymer type sensor
Humidity Sensor Precision
Reading range from 10 to 90 % R.H. non-condensing 10 to 20% precision: 10%
20% to 80% precision: 5%
80% to 90% precision: 10%
Humidity Sensor Stability
Less than 1.0 % yearly (typical drift)
Wiring
Maximum wire length between last indoor unit to SER8150Rx81194 equals 490ft (150m) with AWG #18 wire (0.82 mm²). Refer to Panasonic VRF guidelines "Wiring System Diagram for Remote Controller" for this limitation.
Approximate Shipping Weight
0.34 kg (0.75 lb)



THIS PRODUCT FOR COMMERCIAL USE ONLY

Water Leakage Sensor

Dimensions



Specifications

Dimensions
70.8mmx66.7mmx19mm
Colour
White
Weight
64g
Communication
ZigBee 3.0 HA
Battery Voltage
3V
Battery Life
Up to 5 years
Rated Power
90 mW
Maximum Transmitted Power
5 dBm
Ambient Temperature
-10° - +50°C
Frequency Band
2405-2480 MHz

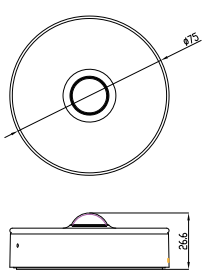


Check with your local government for instruction on disposal of these products.

Reference	Description
HRC**	
HRCEP14R	Hotel Room Expansion Module 14IO
HRCPB628R	Hotel Room Controller 28IO
HRCPDG42R	Hotel Room Controller w/Display 42IO
ZigBee Sensors	
SED-CO2-G-5045	Sensor with Room CO2, Temperature and Humidity
SED-TRH-G-5045	Sensor with Room Temperature and Humidity
SED-WDC-G-5045	Door/Window Sensor
SED-MTH-G-5045	Wall/Ceiling motion/temperature/humidity Sensor
SED-WLS-G-5045	Water Leakage Sensor

Wall/Ceiling Wireless Sensor SED-MTH-G-5045

Dimensions



Specifications

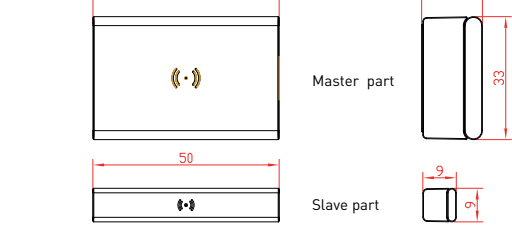
Dimensions
70mm diam..x26.6mm
Colour
White
Weight
59g
Communication
ZigBee 3.0 HA
Detection Range
Ceiling:
04m (installation height 2.5m)
Wall:
R5m (installation height 1.2m)
Battery Voltage
3V
Battery Cell
LR03 AAA (2pcs)
Battery Life
Up to 5 years
Ambient Temperature
-10° - +50°C



Check with your local government for instruction on disposal of these products.

Door/Window Wireless Sensor SED-WDC-G-5045

Dimensions



Specifications

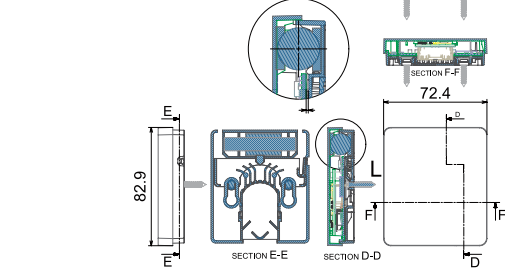
Dimensions
Master part: 50mmx33mmx16.3mm Slave part: 50mmx9mmx9mm
Colour
White/transp.
Weight
30g
Communication
ZigBee 3.0 HA
Detection Range
Trigger 'close': wood 30mm, metal 18mm
Trigger 'open': wood 32mm, metal 20mm
Battery Voltage
3V
Battery Cell
CR2450
Battery Life
Up to 5 years
Ambient Temperature
-10° - +50°C



Check with your local government for instruction on disposal of these products.

CO2 Sensor SED-CO2-G-5045

Dimensions



Specifications

Dimensions
3.26in x 2.85in x 0.72in
82.9 mm x 72.4 mm x 18.4 mm
Operating Temperature
0°C to 50°C (32°F to 122°F)
Temperature Accuracy
±0.3°C (0.54 °F) typical within operating range
Humidity Range
0% to 100%
Humidity Accuracy
± 3% RH (typical within 0% to 80% RH)
Measurement Range
0 to 5000 ppm
Measurement/Transmission Intervals
2.5 minutes (day), 10 minutes (evening)
Note: Battery life will be reduced should interval be shortened (i.e. using remote temperature/humidity functions)
±60ppm +3% of reading (400 - 2,000ppm range)
Zigbee 3.0 Green Power (encrypted, bi-directional)
3.6 V
AA Lithium ion
10+ years (non-replaceable)
Note: Battery life can be reduced when sensor is operated at temperatures approaching the operating limits.
-30°C to 70°C

CO2 Accuracy at NTP
Communication
Battery Voltage
3.6 V
Battery Cell
AA Lithium ion
Battery Life
10+ years (non-replaceable)
Note: Battery life can be reduced when sensor is operated at temperatures approaching the operating limits.
-30°C to 70°C

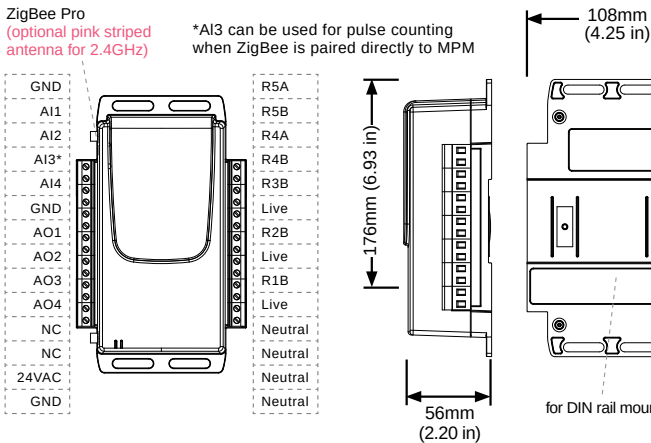


Check with your local government for instruction on disposal of these products.

*Except for products for small sized project (Ultra Slim Ducted, 4-WAY Mini Cassette)
**Available through a Schneider Electric distribution channel.

Relay Pack TE2

Dimensions

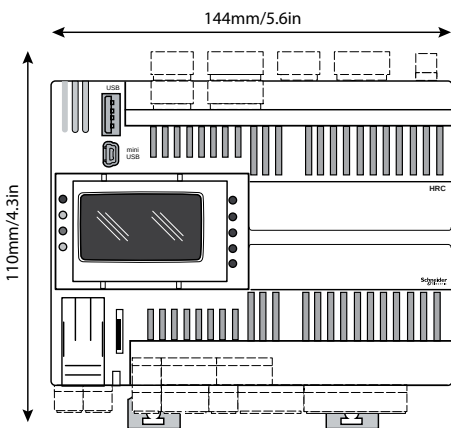


Specifications

Dimensions
6.93in x 4.25in
176mm x 108mm
24VAC; ± 15%; 50/60Hz; Class 2.
24VDC ± 10%
115VAC/230VAC
10VA (115/230 VAC)
5VA (24V)
Voltage
Pulse input: Support for one fast pulse input counting (up to 1000Hz / 1ms) - AI3
Analog (x4): 0-12V, nominal 50 mA max each, 12-bit resolution
Relay (x5) optional: Maximum 230VAC, 5A per relay. First three relays (R1, R2 and R3) or based on input power voltage (24V, 115VAC or 230VAC). Two relays (R4 and R5) are independent of the input power voltage
Analog (x1): 24VAC, 2VA (115 VAC and 230 VAC Voltage only models, one additional output) (*20VAC if used with 110V 50Hz)
Frequency: 2400 to 2483.5MHz, 16RF channels
Non line of sight to MPM: 50ft/17m
Line of sight to MPM: 100ft/30m
Typical Consumption
115VAC/230VAC
10VA (115/230 VAC)
5VA (24V)
Inputs
Pulse input: Support for one fast pulse input counting (up to 1000Hz / 1ms) - AI3
Analog (x4): 0-12V, nominal 50 mA max each, 12-bit resolution
Relay (x5) optional: Maximum 230VAC, 5A per relay. First three relays (R1, R2 and R3) or based on input power voltage (24V, 115VAC or 230VAC). Two relays (R4 and R5) are independent of the input power voltage
Analog (x1): 24VAC, 2VA (115 VAC and 230 VAC Voltage only models, one additional output) (*20VAC if used with 110V 50Hz)
Frequency: 2400 to 2483.5MHz, 16RF channels
Non line of sight to MPM: 50ft/17m
Line of sight to MPM: 100ft/30m
Outputs
Relay (x5) optional: Maximum 230VAC, 5A per relay. First three relays (R1, R2 and R3) or based on input power voltage (24V, 115VAC or 230VAC). Two relays (R4 and R5) are independent of the input power voltage
Analog (x1): 24VAC, 2VA (115 VAC and 230 VAC Voltage only models, one additional output) (*20VAC if used with 110V 50Hz)
Frequency: 2400 to 2483.5MHz, 16RF channels
Non line of sight to MPM: 50ft/17m
Line of sight to MPM: 100ft/30m
ZigBee Pro Range
12
Certification
Check with your local government for instruction on disposal of these products.

Hotel Room Controller HRC**

Dimensions



Specifications

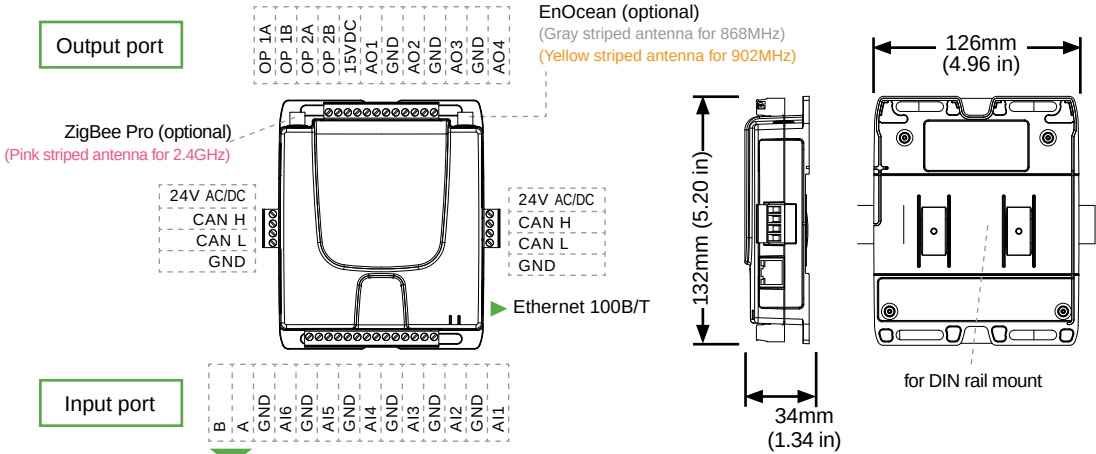
Dimensions
5.6in x 4.3in x 2.4in
144mm x 110mm x 60.5mm
Digital Inputs
12
High Voltage Relay
10 x 3 A SPST +250 VAC relays
Digital Outputs
12 x configurable analog inputs
DI: voltage free DI, 10 kΩ input impedance
0-20mA: range 0..1000, < 150 Ω impedance
0-10V: range 0..1000 > 10 kΩ impedance
6 x 0-10 V outputs. Load impedance > 700 Ω
24 VAC + 10% NOT ISOLATED
+20..38 Vdc NOT ISOLATED
Analog Inputs
12 x configurable analog inputs
DI: voltage free DI, 10 kΩ input impedance
0-20mA: range 0..1000, < 150 Ω impedance
0-10V: range 0..1000 > 10 kΩ impedance
6 x 0-10 V outputs. Load impedance > 700 Ω
24 VAC + 10% NOT ISOLATED
+20..38 Vdc NOT ISOLATED
Analog Outputs
Supply Voltage
50/60 Hz
35 VA / 15 W
-20 to 60 °C [-4 to 140 °F] conforming to UL 60730-1
Power Cycle
Operating Temperature
Storage Temperature
-30 to 70 °C [-22 to 158 °F]

Certification

Check with your local government for instruction on disposal of these products.

BEMS Gateway MPM**

Dimensions



RS 485 connectors for Modbus (optional)

Specifications

Dimensions
5.20in x 4.96in
132mm x 126mm
24VAC; ± 15%; 50/60Hz
24VDC ± 10%
Voltage
5 VA + Output (VAC), 1.6 W + Output (VDC)
Typical Consumption
ZigBee Pro, EnOcean, BACnet
Communication
CANbus (125-500 Kbps)
Ethernet (10/100 Mbps)
Current: 4-20mA with 249 external resistor
Voltage: 0-10V
Analog (x4): 0-12V,nominal 50mAmax each, 12-bit resolution
Relay (x2): 24V, 1.1 Amp per relay
Supported protocols: Modbus
Frequency: 868MHz, 902MHz
Analog Inputs
Voltage: 0-10V
Analog (x4): 0-12V,nominal 50mAmax each, 12-bit resolution
Relay (x2): 24V, 1.1 Amp per relay
Supported protocols: Modbus
Frequency: 868MHz, 902MHz
Outputs
Relay (x2): 24V, 1.1 Amp per relay
Supported protocols: Modbus
Frequency: 868MHz, 902MHz
RS485 (optional)
ZigBee Pro (Optional)
Certification
Check with your local government for instruction on disposal of these products.

Check with your local government for instruction on disposal of these products.

**Available through a Schneider Electric distribution channel.

****PAC Smart Connectivity+ is not applied for Ultra Slim Ducted and 4-WAY Mini Cassette.

Panasonic AC Smart Cloud

With Panasonic AC Smart Cloud, have your business under control, and start saving!



Key functions and uniqueness

Multi site monitoring.

- It doesn't matter how many sites you have, easy to manage, operate, compare sites, locations, rooms.



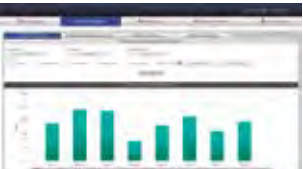
Schedule setting.

- Yearly / weekly / holiday timer setting as you want



Powerful statistics for energy savings.

- Power consumption, capacity, efficiency level can be compared with different parameters (Yearly / monthly / weekly / daily bases)



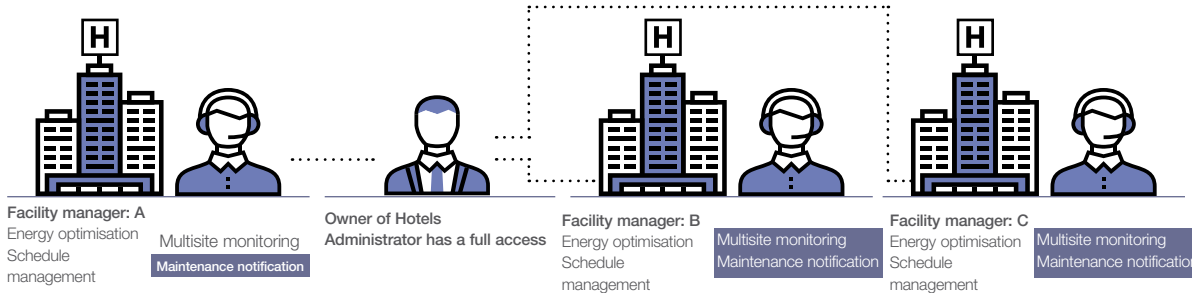
Maintenance notification.

- Error notification by email and with floor layout
- Maintenance notification of PAC / VRF outdoor units
- Remote service checker function



User customisation¹.

Site administrator can create users as desired and assign customised profiles.



Main functions per user type

Function / Main Tab	Sub-Tab	Basic type (Eg.: Owners, facility managers)	Professional type (Eg.: Installers, maintenance companies)
AC setting	I_U / O_U operation details	✓	✓
	Cloud adapter (CZ-CFUSCC1) details	✓	✓
	AC maintenance	✓	✓
	Map view	✓	✓
Energy saving function	NEW e-CUT	✓	✓
Schedule	Yearly, weekly schedule setting / view	✓	✓
	Power consumption	✓	✓
Powerful statistics	Capacity	✓	✓
	Efficiency ranking	✓	✓

Function / Main Tab	Sub-Tab	Basic type (Eg.: Owners, facility managers)	Professional type (Eg.: Installers, maintenance companies)
Maintenance function	Notification overview / details	✓	✓
	Maintenance settings	✓	✓
	Map view	✓	✓
	Remote service checker	✓	✓
User account ¹	New / update user registration	✓	✓
System setting	Distribution group overview / details	✓	✓
	Cut OFF request	✓	✓
	Map editor		✓

Remote service checker function

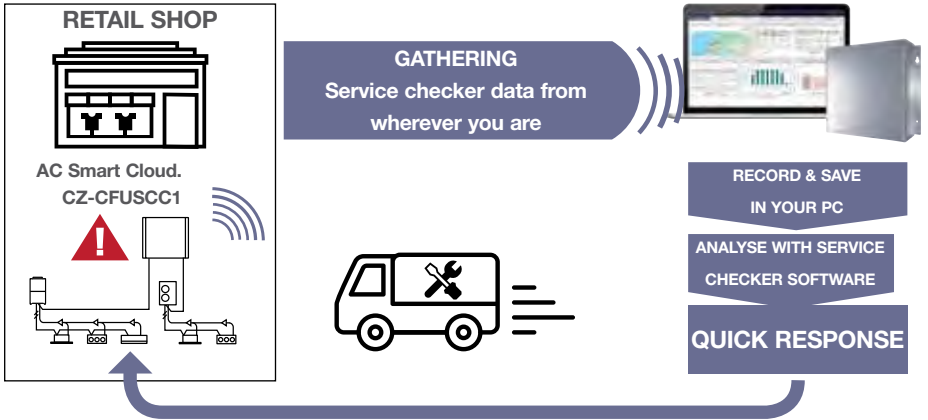
Zero down time

- Quick analysis & response
- Time & Cost saving for service maintenance task



Recording service checker parameters from wherever you are!

- Data duration: Maximum 120 minutes
- Data frequency: 10 – 90 seconds
- Mode selection: With test run or Without test run
- Count down schedule setting available



Panasonic AC Smart Cloud parts lists

¹ Cloud service fee is additionally required. Please contact an authorised Panasonic dealer.

CZ-CFUSCC1 AC Smart Cloud communication adaptor. Up to 128 groups. 128 units control

¹ Please contact an authorized Panasonic dealer.

Flexible and scalable solution

Flexible solution for your business.

- Energy saving
- Zero downtime
- Site(s) management



Every time



Everywhere



Multiplatform



Internet browser

Scalable solution for your business.



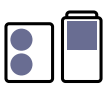
Small to large



1 to multi sites



Upgrade features*



PAC / VRF

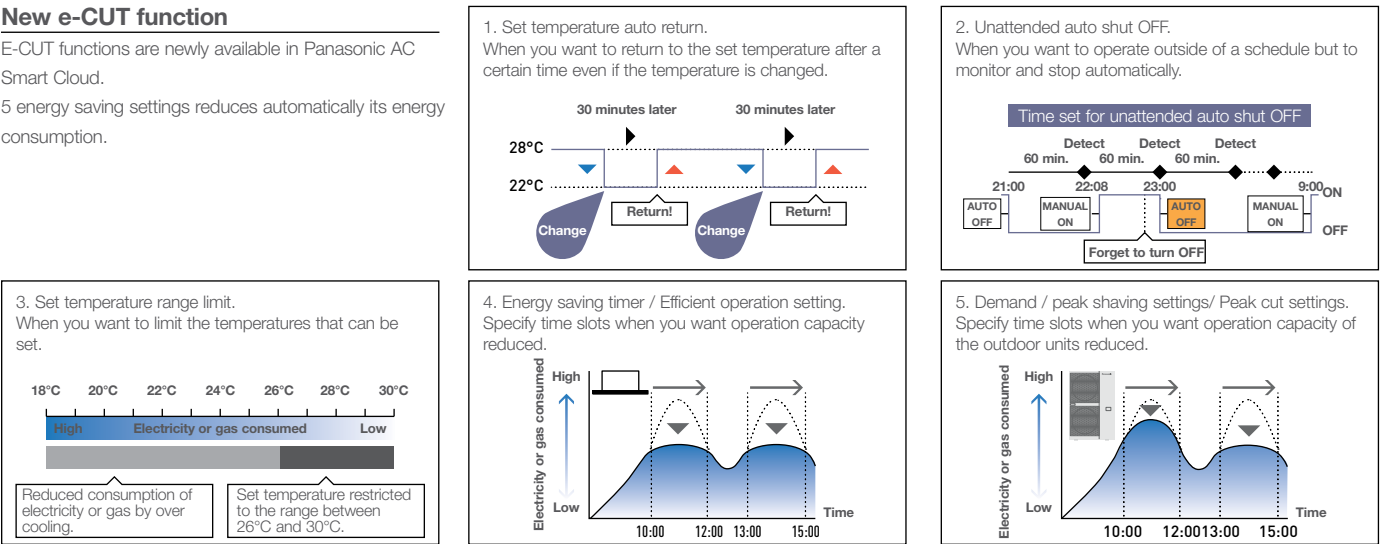
* Customised to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management.

Panasonic AC Smart Cloud offers continuous improvement always thinking about users

New e-CUT function

E-CUT functions are newly available in Panasonic AC Smart Cloud.

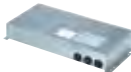
5 energy saving settings reduces automatically its energy consumption.



Controllers

A wide variety of control options to meet the requirements of different applications.

OPERATION SYSTEM	INDIVIDUAL CONTROL SYSTEMS			
Requirements	High-spec operation	Normal operation	Operation from anywhere in the room	Normal operation
External appearance				
Type, model name	Deluxe Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller	Wired Remote Controller
	CZ-RTC5B	CZ-RTC4	Controller: CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRL3 CZ-RWRD3 CZ-RWRT3 CZ-RWRC3	CZ-RD52CP
Built-in thermostat	●	●	—	—
ECONAVI on/off control	●	●	●	—
Number of indoor units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units	1 unit
Use limitations	• Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	• Up to 2 controllers can be connected per group. (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	• Up to 2 controllers can be connected per group.	• Only 1 controller for 1 indoor unit.
Function ON/OFF	●	●	●	●
Mode setting	●	●	●	●
Fan speed setting	●	●	●	●
Temperature setting	●	●	●	●
Air flow direction	●	●	●	●
Permit/Prohibit switching	—	—	—	—
Weekly program	●	●	—	—

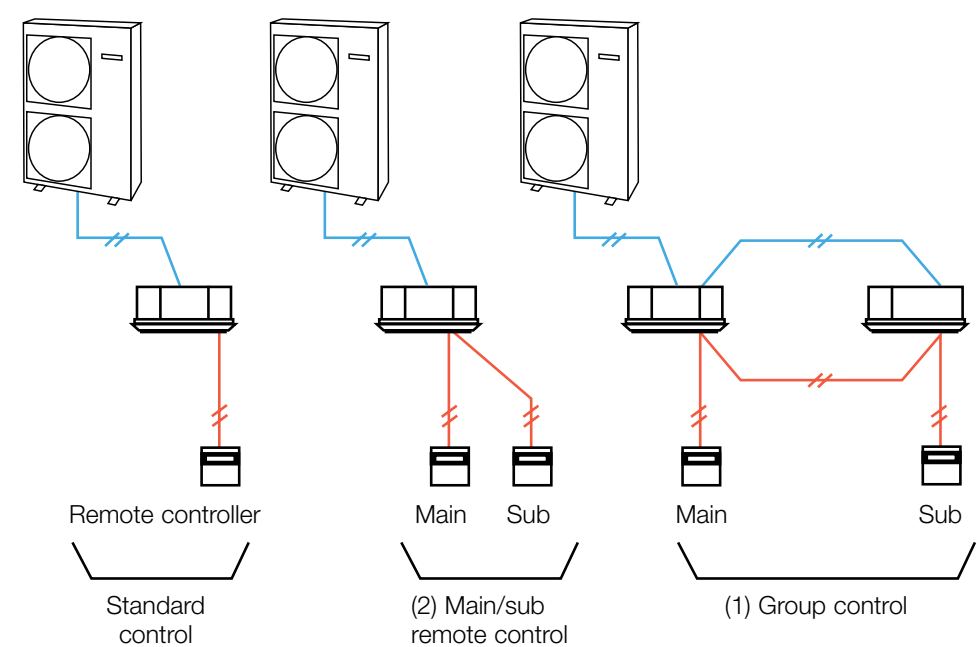
CENTRALISED CONTROL SYSTEMS				SMART CONTROL SYSTEMS	
Operation with various function from centre station	Only ON/OFF operation from centre station	Simplified load distribution ratio (LDR) for each tenant	Connection with 3rd Party Controller	Cloud connectivity, operation from anywhere	Schneider Electric room controller
		Touch screen panel			
			Seri-Para I/O unit for outdoor unit 	 	
System Controller	ON/OFF Controller	Intelligent Controller	CZ-CAPDC2	WLAN Smart Adaptor Comfort Cloud App	PAC smart connectivity+
CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	Interface adaptor 	CZ-TACG1 / CZ-CAPWFC1	SER8150 (room controller)
—	—	—	CZ-CAPC3	—	●
●	—	●	Seri-Para I/O unit for each indoor unit 	1 adaptor : 1 group, 8 units. Multiple adaptors for each indoor units : 200 units(10 location x 20 units)	1 group, 8 units
64 groups, max. 64 units	16 groups, max. 64 units	64 units x 4 links, max. 256 units	CZ-CAPBC2 Communication Adaptor	● Mobile device, free App and internet router is required separately. ● Wired remote controller (master) required.	● Comparing to RTC5B, up to 1 controller can be connected per IDU. ● Wired to R1/R2. ● VRF and PAC(S-link) model only.
● Up to 10 controllers, can be connected to one system. ● Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. ● Use without remote controller is possible.	● Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. ● Use without remote controller is impossible.	● A communication adaptor (CZ-CFUNC2) must be installed for three or more links.		●	●
●	●	●	CZ-CFUNC2	●	●
●	—	●	LonWorks Interface	●	●
●	—	●		●	●
●	—	●	CZ-CLNC2	—	—
●	—	●		●	—

1. Setting is not possible when a remote control unit is present. (Use the remote controller for setting.)
All specifications subject to change without notice.

Individual Control Systems

Control contents	Part name, model No.	Quantity
Standard Control - Control of the various operations of the indoor unit by wired or wireless remote controller. - Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller.	Wired remotod controller CZ-RTC4 / CZ-RTC5B Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted/ Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	1 unit each
(1) Group control - Batch remote control on all indoor units. - Operation of all indoor cells in the same mode. - Up to 8 units can be connected. - The sensor is the body sensor, and thermostat ON/OFF setting in regard to the temperature set by the remote controller is possible for each indoor unit.	Wired remotod controller CZ-RTC4 / CZ-RTC5B Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted/ Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	As required
(2) Main/sub remote control - Max 2 remote controllers per indoor unit. (Main remote controller can be connected) - The button pressed last has priority. - Timer setting is possible even with the sub remote controller. When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit.	Main or sub Wired remotod controller CZ-RTC4 / CZ-RTC5B Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted/ Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	As required

SYSTEM EXAMPLE



Deluxe wired remote controller (CZ-RTC5B)



Dimensions
H 120 x W 120 x
D 16 mm

Basic Operation

- Individual Louver Control (Lock individual flap for 4-WAY cassette)
- ON/ OFF timer
- Weekly Timer
- Filter information*
- Outing function
- Quiet operation mode*
- Power consumption monitor*
- Energy saving*
- Initial settings
- Ventilation
- nanoeX*

Maintenance Function

- Outdoor unit error data
- Service Contact address
- RC setting mode
- Test Run
- Sensor Information*
- Service check
- Simple/ Detailed Settings
- Auto address

* Subject to the connected model

Energy Saving

- ECONAVI on/ off*
- Temperature Auto Return
- Temperature Setting Range
- Auto Shutoff
- Schedule peak cut
- Repeat off timer

Backup control by using CZ-RTC5B
Group wiring of 2 systems of PAC
can do auto individual control

- Rotation operation
- Backup operation
- Support operation

Timer remote controller (CZ-RTC4)



Dimensions
H 120 x W 120 x D 20 mm

Weekly Programme Function

- A maximum of 6 settings/day and 42 settings/week can be programmed.

Outing Function

- This function can prevent the room temperature from dropping or rising when the occupants are out for a long time.

Sleeping Function

- This function controls the room temperature for comfortable sleeping.

Maximum 8 indoor units can be controlled from one remote controller

Remote control by main remote controller and sub controller is possible

Maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

* Depending on the model, some menus cannot be used.

Time Function 24 hours real time clock

- Day of the week indicator.

Wireless remote controller



For 4-WAY
Cassette type
CZ-RWS3
+CZ-RWRC3

Remote control by main remote controller and sub controller is possible

- Maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit.

When CZ-RWS3+CZ-RWRC3 is used, wireless control becomes possible for all indoor units

- When a separate receiver is set up in a different room, control from that room also becomes possible.
- Automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted.

In addition, there are other functions such as temperature setting, operation switching, wind direction/fan speed setting, etc

Ventilation independent operation is possible

When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF).



For all Ducted types
CZ-RWS3
+CZ-RWRC3



For Under Ceiling type
CZ-RWS3
+CZ-RWRT3

Wired remote controller (CZ-RD52CP)



T10 Terminal for External Control (Digital Connection)

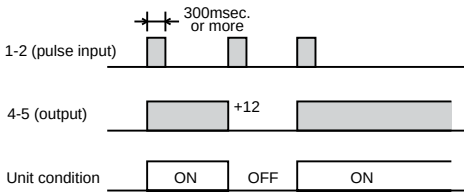
Connecting an indoor unit to an external device is easy.

The T10 Terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.



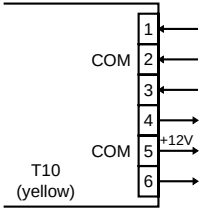
1. T10 Terminal Specification (T10:CN061 at indoor unit PCB)

- Control items: 1. Start/stop input
2. Remote controller prohibit input
3. Start signal output
4. Alarm signal output



NOTE: The wire length from indoor unit to the Relay must be within 2.0m.
Pulse signal changeable to static with JP cutting. (Refer to JP001)

Example of wiring



Condition

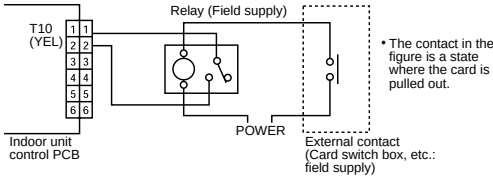
- 1. 1-2 (Pulse input): Unit ON/OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300msec.or more)
- 2. 2-3 (Static input): Open/ Operation with Remote is permitted.(Normal condition) Close/ Remote controller is prohibited.
- 3. 4-5 (Static output): 12V output during the unit ON. / No output at OFF.
- 4. 5-6 (Static output): 12V output when some errors occur / No output at normal.

2. Usage Example

Forced OFF control

- Condition
- 1-2 (Static input): Close/ Operation with Remote is permitted. (Normal condition) Open/ Unit is forcibly OFF and Remote controller operation is prohibited.

Example of wiring

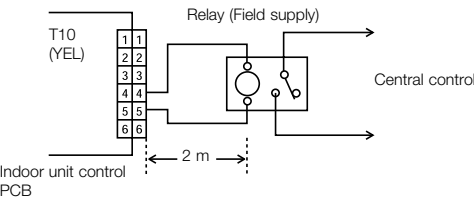


NOTE: The wire length from indoor unit to the Relay must be within 2.0m

Operation ON/OFF signal output

- Condition
- 4-5 (Static output): 12V output during the unit ON / No output at OFF

Example of wiring



NOTE: The wire length from indoor unit to the Relay must be within 2.0m
Pulse signal changeable to static with JP cutting. (Refer to JP001)



Reducing inefficient air conditioning

Providing outstanding energy-saving performance, Panasonic's large capacity air conditioners can be connected to ECONAVI to detect when energy is being wasted.

ECONAVI senses the presence or absence of people and the level of activity in each area of a room. When unnecessary heating or cooling is detected, indoor units are individually controlled to match room conditions for energy-saving operation.



How 2 sensors work for human detection



Detection of the level of activity enables optimum power saving

Presence or absence of people and the level of activity in the room are detected in real time. Set temperature is automatically adjusted to optimise the power consumption.



Sensors are remotely located to maximise the energy-saving effect

When sensors are built into the indoor unit, pillars, walls, cabinets and other fittings can obstruct the sensors, reducing the area of detection and lowering the energy-saving effect. Panasonic sensors can be located anywhere in the room which enables the optimum layout for sensors in any location.

Case study at coffee shop



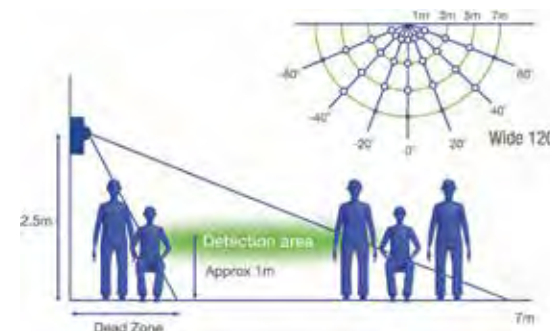
In the morning
Reduced cooling when there are fewer people.

In the afternoon
Thorough cooling when there is a high level of activity.



At night
Automatic Thermo Off depending on conditions at the end of the day.

Wide detection area

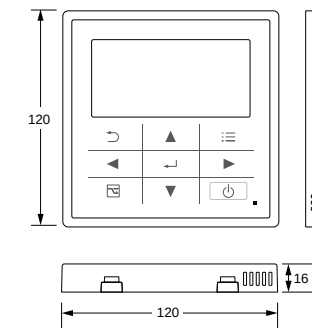


A sensor is remotely set to maximise the detection area.

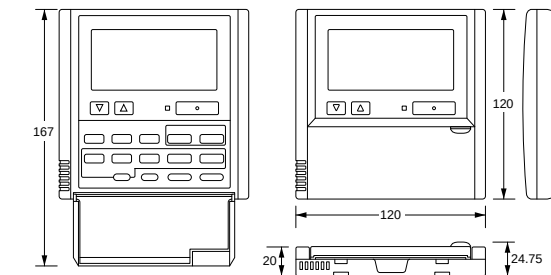
Installation flexibility for indoor unit layout changes.

Remote Controller External Dimensions

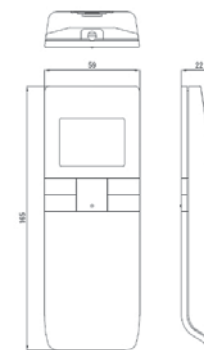
DELUXE WIRED REMOTE CONTROLLER (CZ-RTC5B)



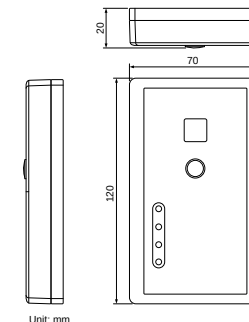
TIMER REMOTE CONTROLLER (CZ-RTC4)



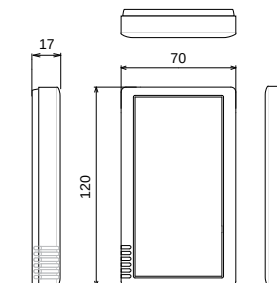
WIRELESS REMOTE CONTROLLER (CZ-RWS3)



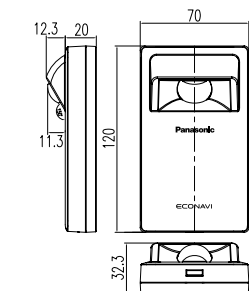
SEPARATE RECEIVER FOR WIRELESS REMOTE CONTROLLER (CZ-RWRC3)



REMOTE SENSOR (CZ-CSRC3)

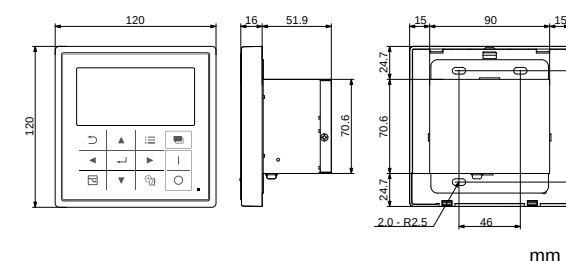


ECONAVI SENSOR (CZ-CENSC1)

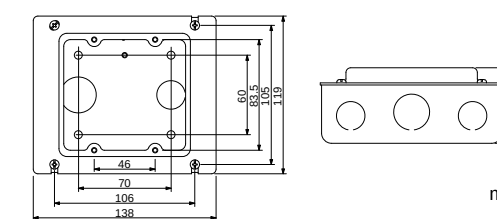


SYSTEM CONTROLLER (CZ-64ESMC3)

System Controller

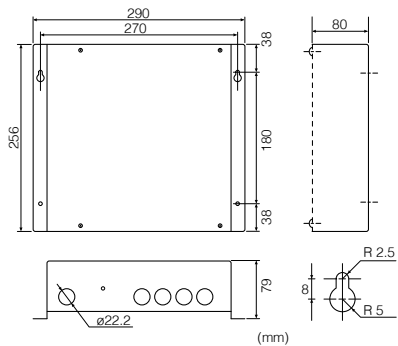


Switch Box

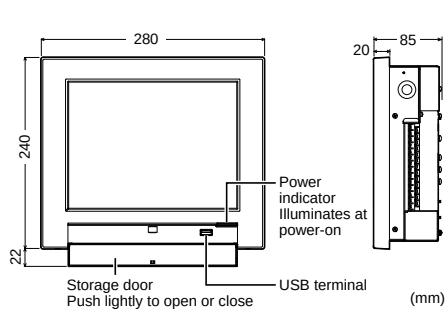


Remote Controller External Dimensions

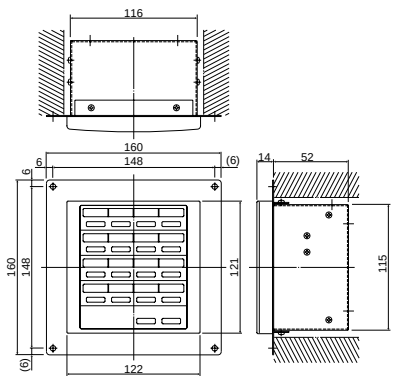
COMMUNICATION ADAPTOR
(CZ-CFUNC2)



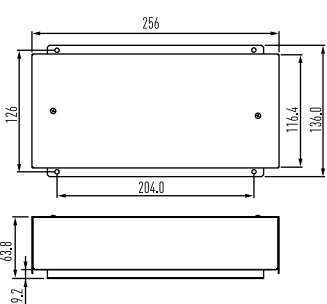
INTELLIGENT CONTROLLER
(CZ-256ESMC3)



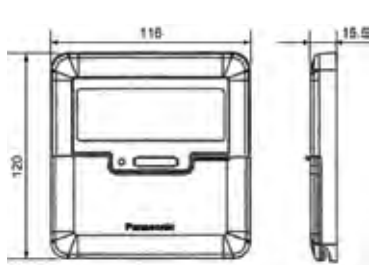
ON/OFF CONTROLLER
(CZ-ANC3)



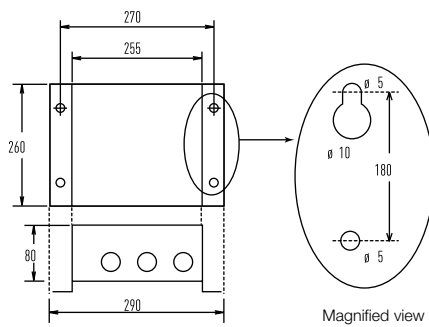
SERI-PARA I/O UNIT FOR EACH INDOOR UNIT
(CZ-CAPBC2)



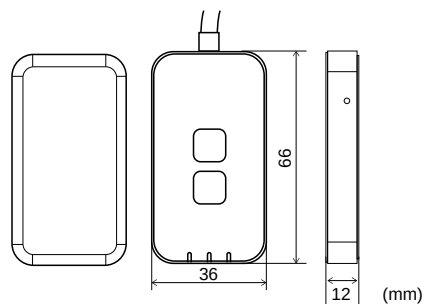
WIRED REMOTE CONTROLLER
FOR RESIDENTIAL MODEL
(CZ-RD52CP)



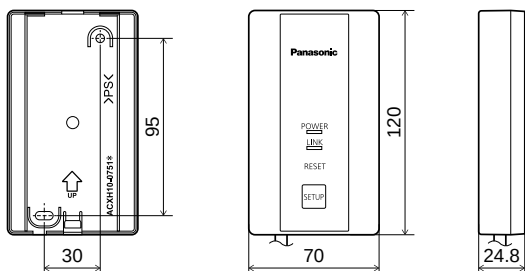
SERI-PARA I/O UNIT FOR OUTDOOR UNIT
(CZ-CAPDC2)



WLAN ADAPTOR
(CZ-TACG1)



WLAN ADAPTOR
(CZ-CAPWFC1)



MEMO

Blank lined area for notes.