

**100**  
A CENTURY OF  
RELIABILITY

**Panasonic**

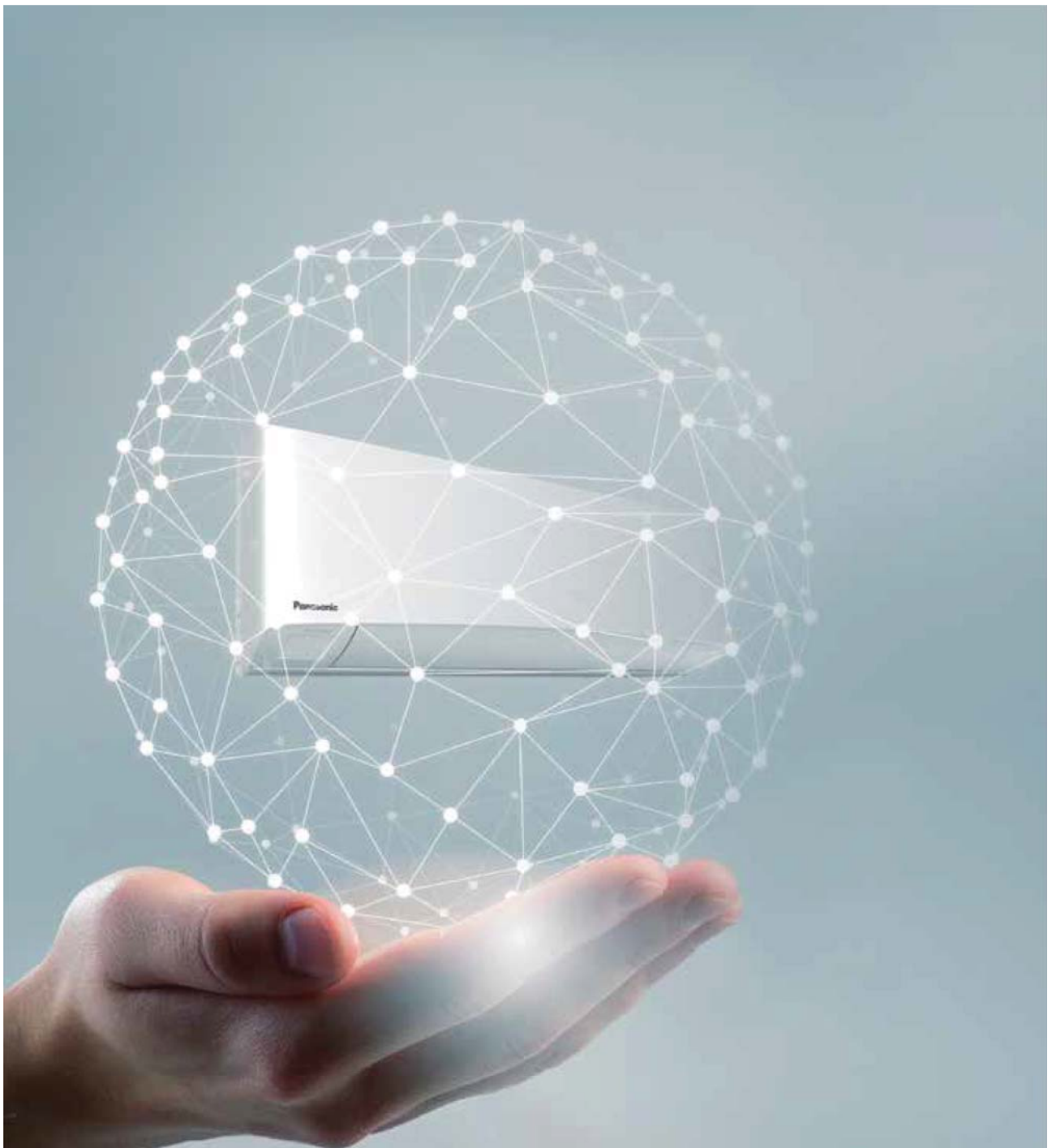
## RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING



**QUALITY AIR FOR LIFE**

# Panasonic Air Conditioning Designed To Care For Your Projects

Since the sale of Panasonic's first room air conditioner in 1958, we have worked towards providing products and solutions that create comfortable and healthy living spaces for users. In addition to comfort, we have always championed in the consideration of installation ease, diversity of installation environments, and the needs of all stakeholders. Consequently, Panasonic has developed smart control management solutions allowing you to synergistically control and monitor the systems' energy consumptions, hence removing the restrictions of traditional systems.



## Outdoor Unit

P. 6 - 9



The new model debuts with R32 refrigerant. Its compact body allows installation even in narrow spaces.

## Splittable Ducted

P. 10 - 11



The new High Static Pressure design splits the unit into 3 components for flexible installation.

## Smart Control Management Solutions

P. 40 - 47



Panasonic's Smart Control Management Solutions allow multiple sites to be monitored simultaneously. Control each sites Indoor Air Quality and power consumption all from your portable devices.

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# Product Line-up

For Medium Sized Project

Indoor Unit

Cooling Capacity

### Ducted

High Static Pressure Model

Page 14-17 for 6.0kW - 16.0kW



ECONAVI ready

### Splittable Ducted

High Static Pressure Model

Page 12-13 for 18kW - 22.4kW

### Ducted

Mid Static Pressure Model

Page 18-21



ECONAVI ready

### 4-Way Cassette

\* Panel is provided as an option (CZ-KPU3/CZ-KPU3A)

Page 22-27



ECONAVI ready

### Under Ceiling

Page 28-31



ECONAVI ready

### Wall Mounted

Page 32-33



ECONAVI ready

Outdoor Unit

### R410A Model

Page 6 - 9



### R32 Compact Model

Page 6 - 9



For Small Sized Project

Indoor Unit

Cooling Capacity

2.5/2.6 kW

3.4/3.7 kW

4.8/5.0 kW

### Ultra Slim Ducted

Page 34-39

CS-E9SD3RW

CS-E12SD3RW

CS-E18SD3RW



### Bulkhead Ducted

Page 34-39

CS-E9QD3RW

CS-E12QD3RW

CS-E18QD3RW



### Mini Cassette

Page 34-39

CS-E9SB4RW

CS-E12QB4RW

CS-E18QB4RW



Outdoor Unit

### R410A Model

Page 34-39



CU-E9SD3R  
CU-E9QD3R  
CU-E9SB4R

CU-E12SD3R  
CU-E12QD3R  
CU-E12QB4R

CU-E18SD3R  
CU-E18QD3R  
CU-E18QB4R



6.0kW

7.1kW

10.0kW

12.5kW

14.0kW

16.0kW

18.0kW

20.0kW

22.4kW

S-60PE1R5B

S-71PE1R5B

S-100PE1R5B

S-125PE1R5B

S-140PE1R5B

S-160PE1R5A



S-180PE3R5

S-200PE3R5

S-224PE3R5



S-60PF1E5B

S-71PF1E5B

S-100PF1E5B

S-125PF1E5B

S-140PF1E5B



S-60PU2E5B

S-71PU2E5B

S-100PU2E5B

S-125PU2E5B

S-140PU2E5B



S-60PT2E5B

S-71PT2E5B

S-100PT2E5B

S-125PT2E5B

S-140PT2E5B



S-100PK2E5B



U-160PE2R8A\*

U-180PE2R8A\*

U-200PE2R8A\*

U-224PE2R8A\*



\* 3 phase

U-60PZ2R5

U-71PZ2R5

U-100PZ2R5

U-125PZ2R5

U-140PZ2R5

U-100PZ2R8\*

U-125PZ2R8\*

U-140PZ2R8\*



\* 3 phase

# Outdoor Unit

The Panasonic outdoor unit has been designed with all stakeholders front of mind. The new R32 compact unit has been intuitively designed with a single fan body, allowing prodigiously powerful performance to be installed in even the tightest of spaces.



**NEW** R32 Compact Model

## Compact Design

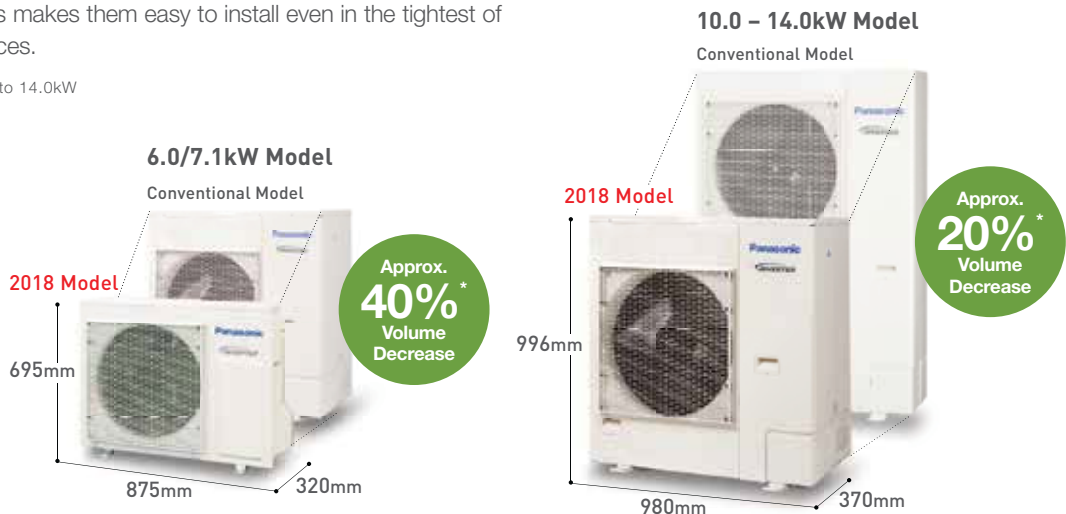
Whilst maintaining its powerful performance, the new R32 compact unit is even smaller. This enables them to be installed in a vast variety of even tighter places.

### Industry-leading Small Body with All 1-fan Models\*

R32 Compact

Panasonic's ingeniously designed R32 outdoor units are compact in size to fit into any space and layout. This makes them easy to install even in the tightest of places.

\*Up to 14.0kW



Height 996mm	695mm	↓ 301mm Shorter
Weight 68kg	44kg	↑ 24kg Lighter

\* Comparison between U-60PZ2R5 and U-60PE1R5A

Height 1,416mm	996mm	↓ 420mm Shorter
Weight 98kg	90kg	↑ 8kg Lighter

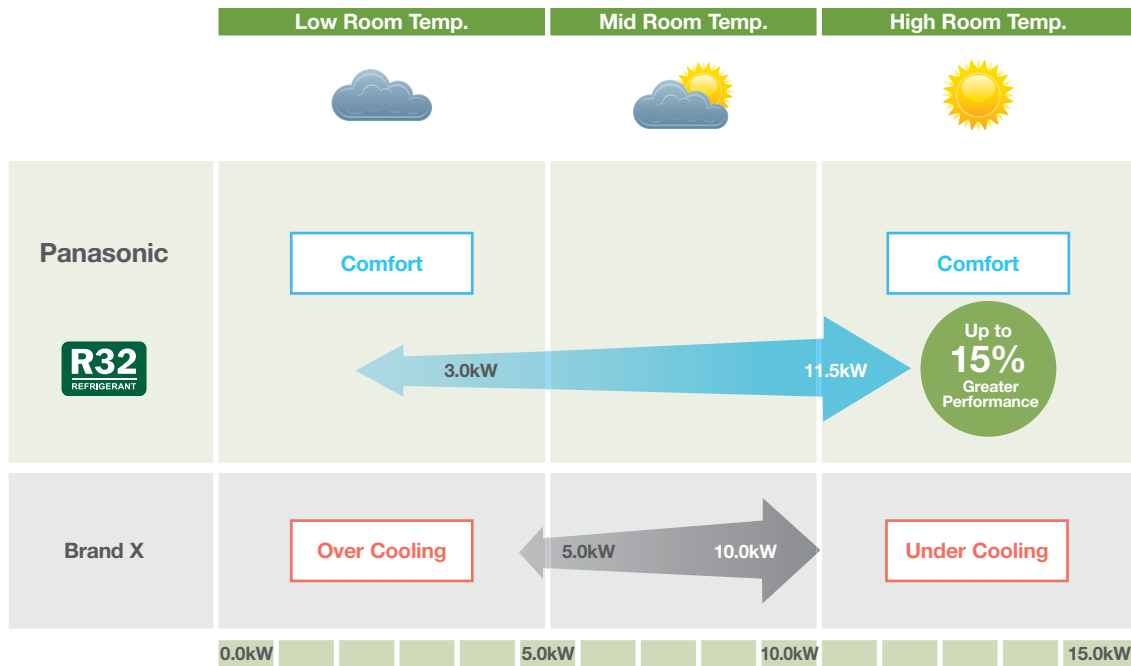
\* Comparison between U-100PZ2R5 and U-100PE1R5A

## Precise Temperature Control

### Constant Comfort Air Conditioning

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.



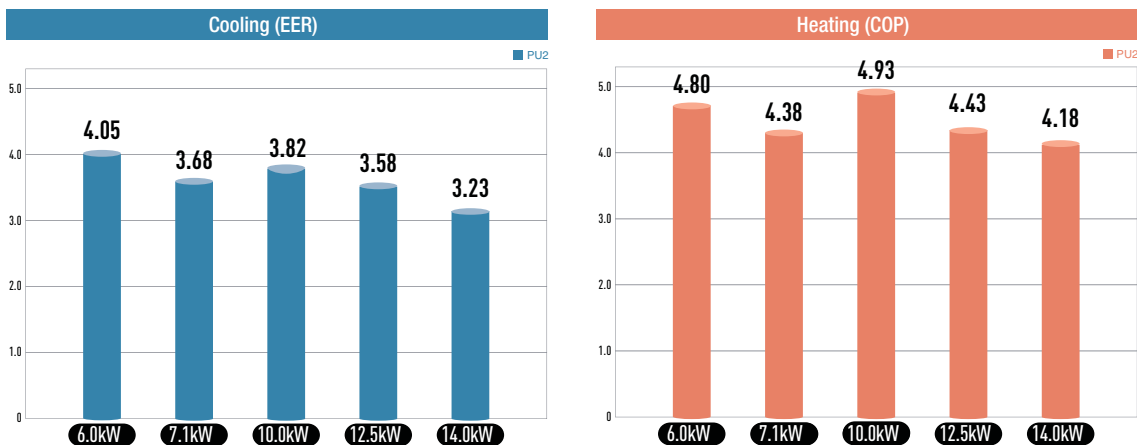
Graph shows each models' 10.0kW Inverter High Static Pressure Ducted systems performance range during cooling.

## Energy Saving Technology

### High EER and COP Value

R32 Compact

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



\* The graph shows 4-way cassette R32 models' values

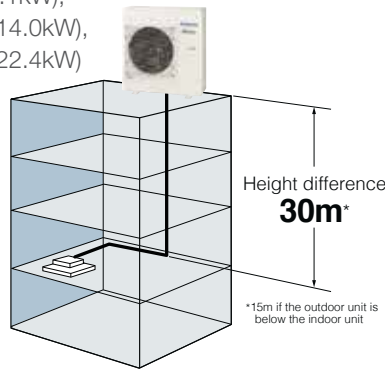
## Other Advanced Technology

### Increased Piping Length for Greater Design Flexibility

R32 Compact

R410A

Adaptable to various building types and sizes  
 Max. piping length :  
 40m (6.0kW, 7.1kW),  
 50m (10.0kW-14.0kW),  
 50m (16.0kW-22.4kW)



### Product Quality and Safety

R32 Compact

R410A

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

R410A

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

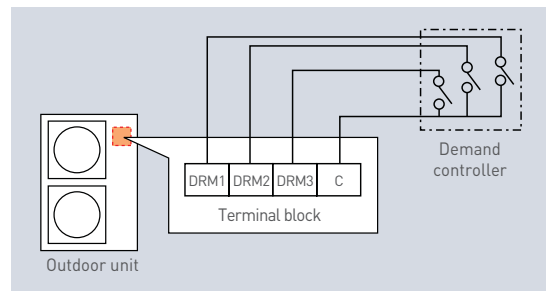
### Demand Response Compliant

R32 Compact

R410A

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.

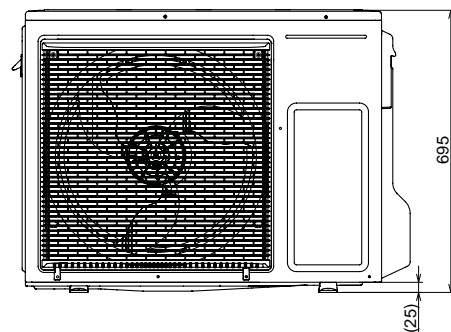
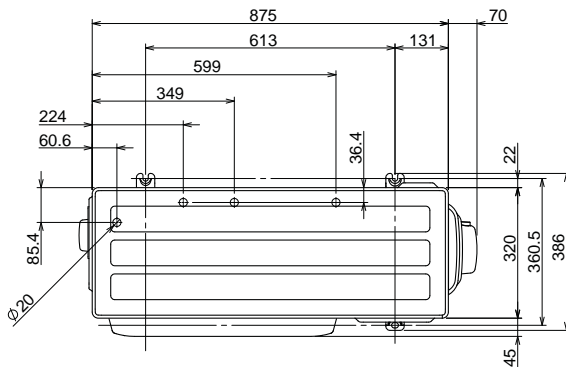
The Equipment Energy Efficiency (E3) program has been supporting the development of DRED standards for air-conditioners which should comply with AS 4755. The functionality will be required for all installations in the very near future.



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

### Outdoor Unit Dimensions

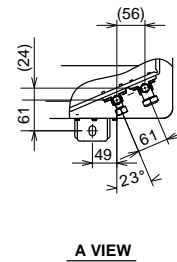
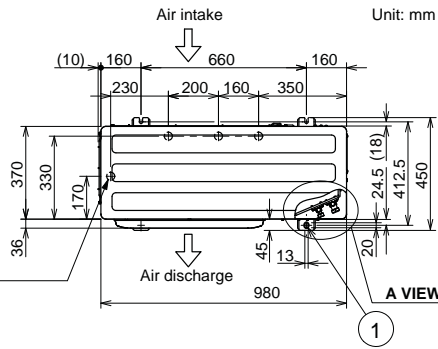
#### R32 Compact Model Dimensions (6.0kW – 7.1kW)





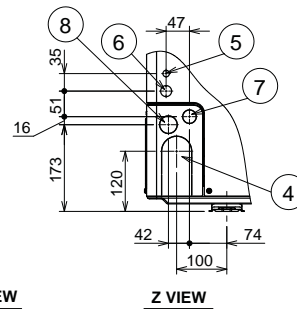
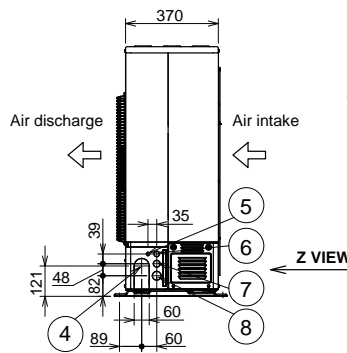
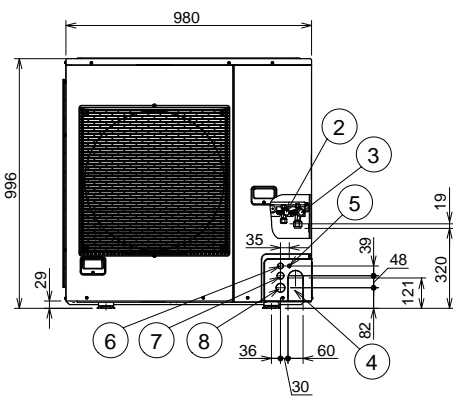
## R32 Compact Model Dimensions (10.0kW – 14.0kW)

- 1) Mounting hole (4-R6.5), anchor bolt : M10
- 2) Refrigerant tubing (liquid tube), flared connection (Ø9.52)
- 3) Refrigerant tubing (gas tube), flared connection (Ø15.88)
- 4) Refrigerant tubing port
- 5) Electrical wiring port (ø13)
- 6) Electrical wiring port (ø22)
- 7) Electrical wiring port (ø27)
- 8) Electrical wiring port (ø35)



4xØ32 holes (holes for drain)

When using a drain pipe, install the drain socket (field supply) on to the drain port. Seal the other drain port with the rubber cap.

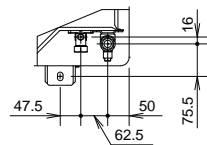
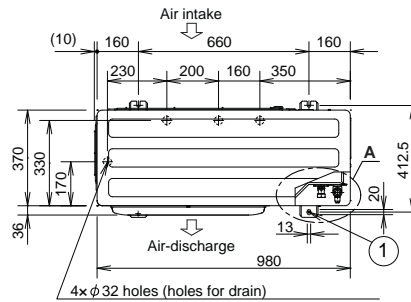


## R410A Model Dimensions (16.0kW – 22.4kW)

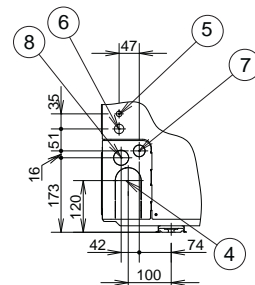
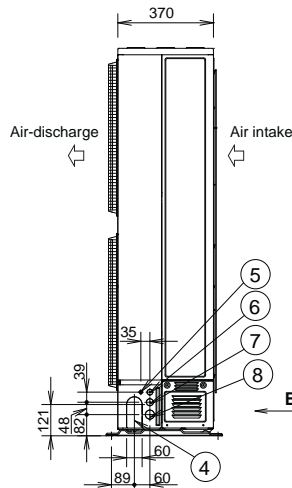
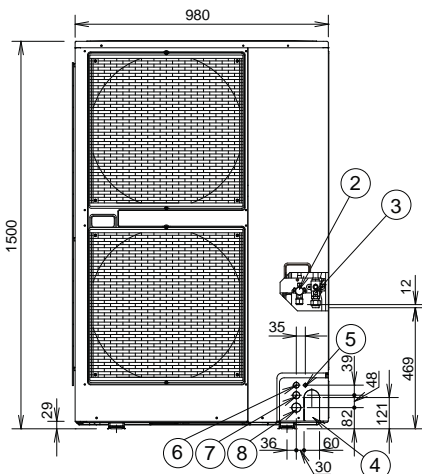
- ① Mounting hole (4-R6.5), anchor bolt : M10
- ② Refrigerant tubing (liquid tube), flared connection (ø12.7)
- ③ Refrigerant tubing (gas tube), flared connection (ø19.05)\*
- ④ Refrigerant tubing port
- ⑤ Electrical wiring port (ø13)
- ⑥ Electrical wiring port (ø22)
- ⑦ Electrical wiring port (ø27)
- ⑧ Electrical wiring port (ø35)

Specification for pipe connecting indoor unit to outdoor unit.

\*1 (Gas piping connection) While the main gas side pipe is ø25.4, since connecting the outdoor unit's 3-way valve requires a ø19. flare, please be sure to use standard accessories joint piping B or A for connection (brazing), and connect as follows.



Enlarged view A



Enlarged view B

# 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-180PE3R5, S-200PE3R5, and S-224PE3R5.



## Powerful Air for Quick Comfort

### 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.

Previous Model  1,200 l/s

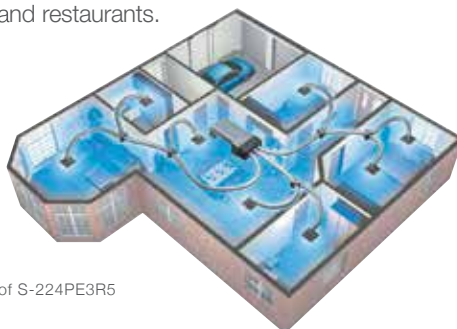
New Model  1,400\* l/s

\* Comparison between S-224PE3R5 and S-224PE2R5B



### Max.200Pa 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-224PE3R5

### 3-step Static Pressure Set Up

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

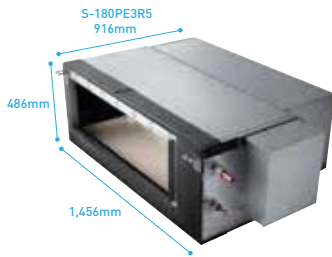


\* In case of S-224PE3R5

## Easy Installation Design

### Fits the Roof-space and Your Needs

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.



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-180PE3R5 and S-180PE2R5B

### New Ducted Model Key Factors

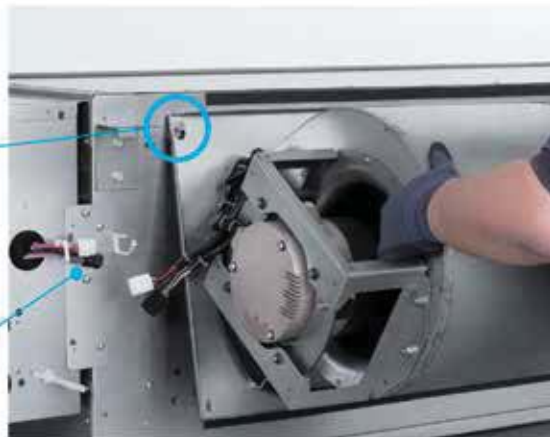
#### Bell Shaped Keyhole for Weight Support

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.

### Easy Assembly Steps

Assembly takes three easy steps, even in limited spaces.

**1** Install the fan to the heat exchanger and tighten the screws and bolts.



**2** Assemble the connectors.



**3** Install the chassis and tighten the screws and bolts.



# 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

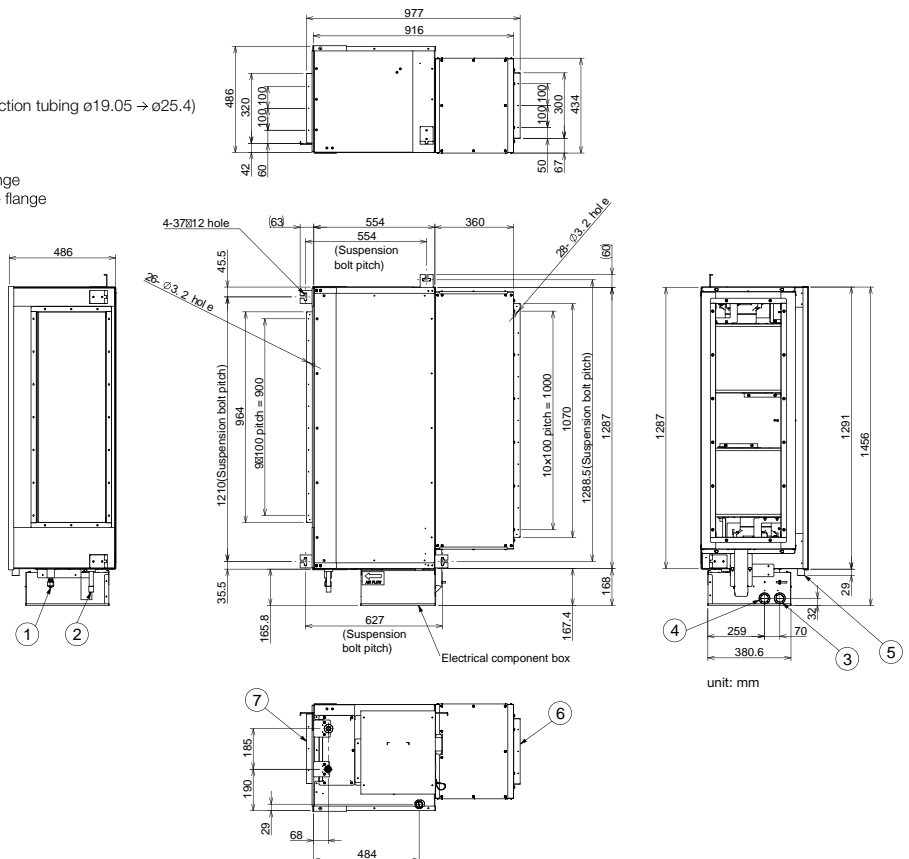
- Easy installation with splittable chassis design
- Maximum 200Pa static pressure setting\*
- Design flexibility thanks to high static pressure and large air volume
- Low power input
- Accurate temperature control to reduce cold drafts during operation
- DC motor equipped

\* In case of S-224PE3R5

## HIGH STATIC PRESSURE SPLITTABLE DUCTED

### Dimensions (18.0kW – 22.4kW)

- 1 Refrigerant liquid tubing (Flare)  
Type 180 :  $\phi 9.52$   
Type 200/224 :  $\phi 12.7$
- 2 Refrigerant gas tubing (Brazing)  
 $\phi 19.05$   
(Type 200/224 (30 - 50m) : Connection tubing  $\phi 19.05 \rightarrow \phi 25.4$ )
- 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



**NEW**



S-180PE3R5  
S-200PE3R5  
S-224PE3R5



CZ-RTC5B



CZ-RTC4

## Specifications of R410A Model






Capacity			18.0kW	20.0kW	22.4kW
Model Name	Indoor Unit		<b>S-180PE3R5</b>	<b>S-200PE3R5</b>	<b>S-224PE3R5</b>
	Outdoor Unit		<b>U-180PE2R8A</b>	<b>U-200PE2R8A</b>	<b>U-224PE2R8A</b>
Cooling capacity :	kW		18.0 (5.4-20.0)	20.0 (6.3-22.4)	22.4 (6.3-25.0)
			<b>20.0 (5.6-22.4)</b>	<b>22.4 (7.1-25.0)</b>	<b>25.0 (7.1-28.0)</b>
Heating capacity	BTU/h		61,400 (18,400-68,200)	68,200 (21,500-76,400)	76,400 (21,500-85,300)
			<b>68,200 (19,100-76,400)</b>	<b>76,400 (24,200-85,300)</b>	<b>85,300 (24,200-95,500)</b>
EER : COP	Cooling : Heating	W/W	3.02 : 3.53	3.12 : 3.61	3.00 : 3.52
Total power input	Cooling : Heating	kW	5.96 : 5.66	5.99 : 6.20	6.21 : 7.10
<b>Indoor Unit</b>					
Power source	Phase/Hz		1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V	240V
Current	Cooling : Heating	A	3.00 : 3.00	3.20 : 3.20	4.10 : 4.10
Dimensions	H x W x D	mm	486 x 1456 x 916	486 x 1456 x 916	486 x 1456 x 916
Heat exchanger	H x W x D	mm	486 x 1,456 x 558	487 x 1,456 x 558	488 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 : 1,200	1,200 : 1,200	1,400 : 1,400
External static pressure		Pa	60 (Max.150)	75 (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
<b>Outdoor Unit</b>					
Power source	Phase/Hz		3 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz
		V	415V	415V	415V
Current	Cooling : Heating	A	8.25 : 7.80	8.75 : 8.55	9.90 : 9.50
Dimensions	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	127	138	138
Air volume	Cooling : Heating	L/s	2,733 : 2,733	2,666 : 2,666	2,666 : 2,666
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	59 (57) : 61 (59)	60 (58) : 62 (60)	60 (58) : 62 (60)
Sound power level (Silent mode)	Cooling : Heating	dB(A)	77 (75) : 79 (77)	79 (77) : 81 (79)	79 (77) : 81 (79)
Piping connections	Liquid/Gas	m	Ø9.52 / Ø19.05	Ø12.7 / Ø19.05	Ø12.7 / Ø19.05
Pipe length	min. - max.	m	5 - 50	5 - 50	5 - 50
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	R410A, 5,600, 50 (g/m)	R410A, 6,400, 80 (g/m)	R410A, 6,400, 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



# Indoor Unit High Static Pressure Ducted

High static and large airflow ducted for exceptional installation flexibility.

-   
 Self-diagnosing Function
-   
 Automatic Fan Operation
-   
 Mild dry
-   
 Automatic Restart Function



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



ECONAVI ready



CZ-CENSC1



CZ-RTC5B



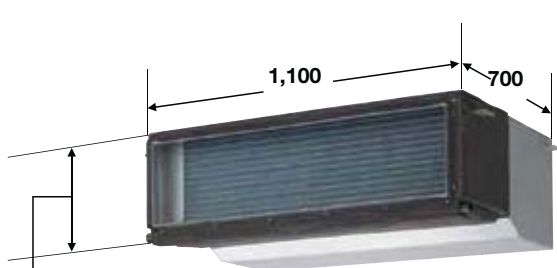
S-125PE1R5B  
S-140PE1R5B  
S-160PE1R5A



CZ-RTC4

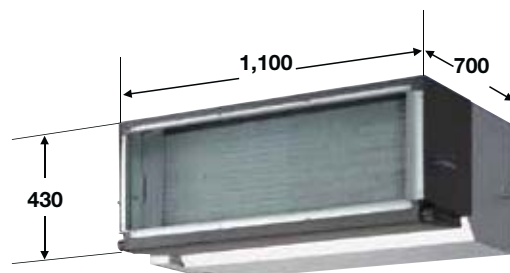
## Compact Body Size

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



290mm (S-60PE1R5B)  
360mm (S-71PE1R5B,  
S-100PE1R5B)

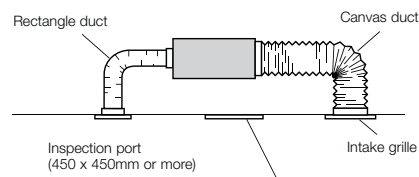
S-60PE1R5B  
S-71PE1R5B  
S-100PE1R5B



S-125PE1R5B  
S-140PE1R5B  
S-160PE1R5A

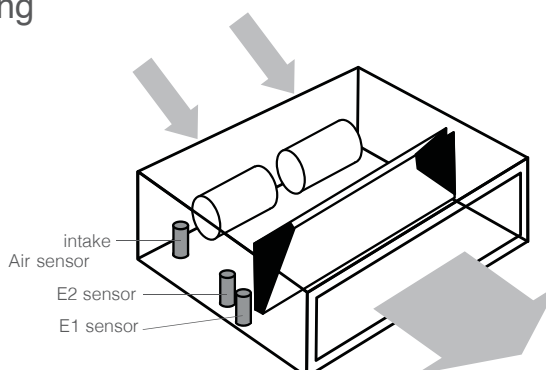
## System Example

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



## Cold Drafts Reduced During Heating Operation

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



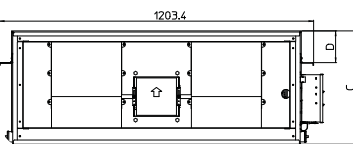
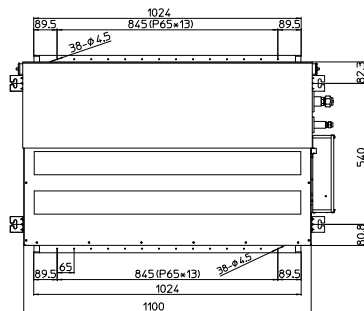
## Specifications of R32 Compact Model



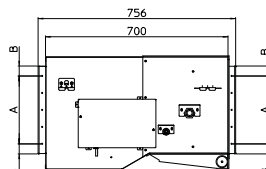
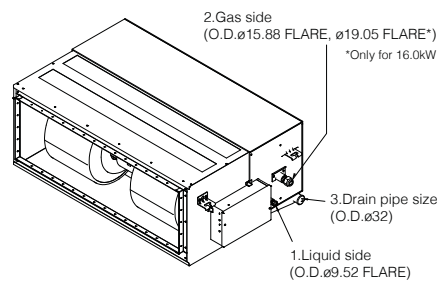
Capacity		6.0kW	7.1kW	10.0kW
Model Name	Indoor Unit	<b>S-60PE1R5B</b>	<b>S-71PE1R5B</b>	<b>S-100PE1R5B</b>
	Outdoor Unit	<b>U-60PZ2R5</b>	<b>U-71PZ2R5</b>	<b>U-100PZ2R5</b>
Cooling capacity :	kW	6.0 (2.0 - 7.1)	7.1 (2.0 - 8.0)	10.0 (3.0 - 11.5)
		<b>6.0 (1.8 - 7.6)</b>	<b>7.1 (1.8 - 8.6)</b>	<b>10.0 (3.0 - 14.0)</b>
Heating capacity	BTU/h	20,500 (6,800 - 24,200)	24,200 (6,800 - 27,300)	34,100 (10,200 - 39,200)
		<b>20,500 (6,100 - 25,900)</b>	<b>24,200 (6,100 - 29,300)</b>	<b>34,100 (10,200 - 47,800)</b>
EER : COP	Cooling : Heating	W/W	3.23 : <b>3.92</b>	3.18 : <b>4.06</b>
Total power input	Cooling : Heating	kW	1.86 : <b>1.53</b>	2.23 : <b>1.75</b>
<b>Indoor Unit</b>				
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V
Current	Cooling : Heating	A	0.86 : <b>0.86</b>	1.25 : <b>1.25</b>
Dimensions	H x W x D	mm	290x1,100 (+100)x700	360x1,100 (+100)x700
Net weight		kg	35	42
Air volume	Cooling : Heating	L/s	366 : <b>366</b>	500 : <b>500</b>
External static pressure		Pa	70 (Max.100)	100 (Max.150)
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	43 / 41 / 40 : <b>43 / 41 / 40</b>	45 / 44 / 43 : <b>45 / 44 / 43</b>
Sound power level (H/M/L)	Cooling : Heating	dB(A)	60 / 58 / 57 : <b>60 / 58 / 57</b>	62 / 61 / 60 : <b>62 / 61 / 60</b>
Number of fan speeds			3	3
Drain pipe size		mm	VP-25	VP-25
<b>Outdoor Unit</b>				
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V
Current	Cooling : Heating	A	7.70 : <b>6.15</b>	8.90 : <b>6.75</b>
Dimensions	H x W x D	mm	695 x 875 x 320	695 x 875 x 320
Net weight		kg	44	44
Air volume	Cooling : Heating	L/s	750 : <b>750</b>	867 : <b>750</b>
Sound pressure level (Silent mode)	Cooling : Heating	dB(A)	46 (44) : <b>48 (46)</b>	49 (47) : <b>49 (47)</b>
Sound power level (Silent mode)	Cooling : Heating	dB(A)	65 (63) : <b>66 (64)</b>	67 (65) : <b>67 (65)</b>
Piping connections	Liquid/Gas	m	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30
Maximum chargeless length		m	30	30
Refrigerant at shipping, Additional gas amount		g	R32, 1,450, 35 (g/m)	R32, 1,450, 35 (g/m)
Operation ranges	Cooling : Heating	°C	-10 to 43 : <b>-15 to 24</b>	-10 to 43 : <b>-15 to 24</b>

## HIGH STATIC PRESSURE DUCTED

### Dimensions (6.0kW – 16.0kW)



unit: mm



model	A	B	C	D
S-60PE1R5B	130	33.1	290	118
S-71PE1R5B S-100PE1R5B	195	35.7	360	50
S-125PE1R5B S-140PE1R5B S-160PE1R5A	260	38.2	430	121.5





	12.5kW			14.0kW	
	S-100PE1R5B	S-125PE1R5B	S-125PE1R5B	S-140PE1R5B	S-140PE1R5B
	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
	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)
	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)
	3.44 : 3.89	3.30 : 4.00	3.30 : 4.00	3.15 : 3.66	3.15 : 3.66
	3.00 : 2.57	3.79 : 3.125	3.79 : 3.125	4.44 : 3.825	4.44 : 3.825
	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V
	1.74 : 1.74	1.84 : 1.84	1.84 : 1.84	2.70 : 2.70	2.70 : 2.70
	360x1,100(+100)x700	430x1,100(+100)x700	430x1,100(+100)x700	430x1,100(+100)x700	430x1,100(+100)x700
	44	48	48	53	53
	666 : 666	833 : 833	833 : 833	1,000 : 1,000	1,000 : 1,000
	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)	100 (Max.150)
	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
	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
	3	3	3	3	3
	VP-25	VP-25	VP-25	VP-25	VP-25
	3 Phase/ 50Hz 415V	1 Phase/ 50Hz 240V	3 Phase/ 50Hz 415V	1 Phase/ 50Hz 240V	3 Phase/ 50Hz 415V
	3.75 : 3.24	14.9 : 12.0	4.95 : 4.00	17.2 : 14.1	5.75 : 4.70
	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
	90	94	94	94	94
	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
	15, 30	15, 30	15, 30	15, 30	15, 30
	30	30	30	30	30
	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)
	-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

16.0kW	
S-160PE1R5A	U-160PE2R8A
16.0 (5.4 - 18.0) 18.0 (5.6 - 20.0)	16.0 (5.4 - 18.0) 18.0 (5.6 - 20.0)
54,600 (18,400 - 61,400) 61,400 (19,100 - 68,200)	54,600 (18,400 - 61,400) 61,400 (19,100 - 68,200)
3.09 : 3.52	3.09 : 3.52
5.18 : 5.11	5.18 : 5.11
1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V
2.70 : 2.70	2.70 : 2.70
430x1,100(+100)x700	430x1,100(+100)x700
53	53
1,000 : 1,000	1,000 : 1,000
100 (Max.150)	100 (Max.150)
51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47
73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69
3	3
VP-25	VP-25
3 Phase/ 50Hz 415V	3 Phase/ 50Hz 415V
7.00 : 6.90	7.00 : 6.90
1,500 x 980 x 370	1,500 x 980 x 370
127	127
2,733 : 2,733	2,733 : 2,733
56 (57) : 61 (59)	56 (57) : 61 (59)
77 (75) : 79 (77)	77 (75) : 79 (77)
Ø9.52 / Ø19.05	Ø9.52 / Ø19.05
5 - 50	5 - 50
30, 30	30, 30
30	30
R410A, 5,600, 50 (g/m)	R410A, 5,600, 50 (g/m)
-15 to 46 : -20 to 24	-15 to 46 : -20 to 24



# Indoor Unit

## Mid Static Pressure

# Ducted

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



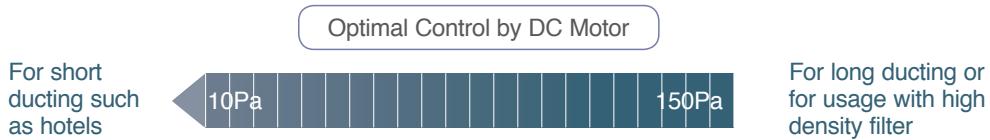
-   
 Self-diagnosing Function
-   
 Automatic Fan Operation
-   
 Mild dry
-   
 Automatic Restart Function
-   
 Built-in Drain Pump
-   
 DC Motor

### Technical focus

- Space saving 290mm height
- Easy to install and maintain
- DC fan motor for variable external static pressure control

### Variable external static pressure control

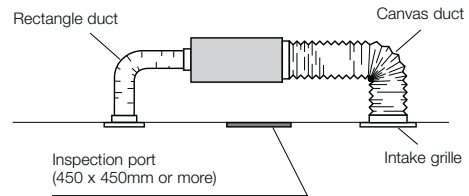
Optimal airflow set-up is possible for different ducting design and conditions.



\* Please refer to technical documents for detail.

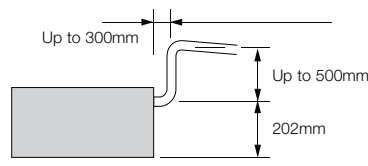
### System example

An inspection port (450mm x 450mm 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 702mm from the base of the unit.





S-60PF1E5B  
S-71PF1E5B



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

**ECONAVI**

ECONAVI ready



CZ-CENSC1



CZ-RTC5B

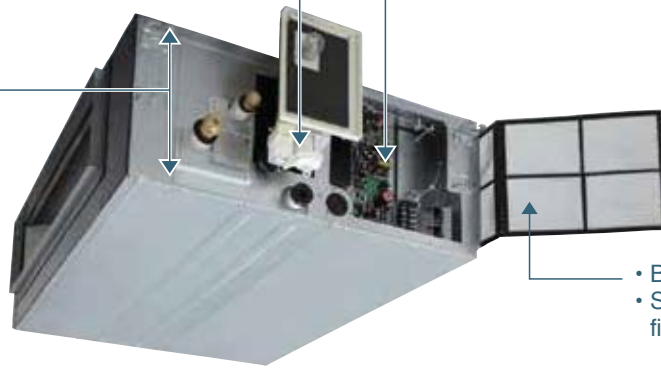


CZ-RTC4

Built-in Drain pump  
(DC motor pump)

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.

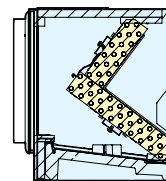


External electrical equipment box  
makes maintenance easy

- Built-in filter
- Side removable filter

### 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



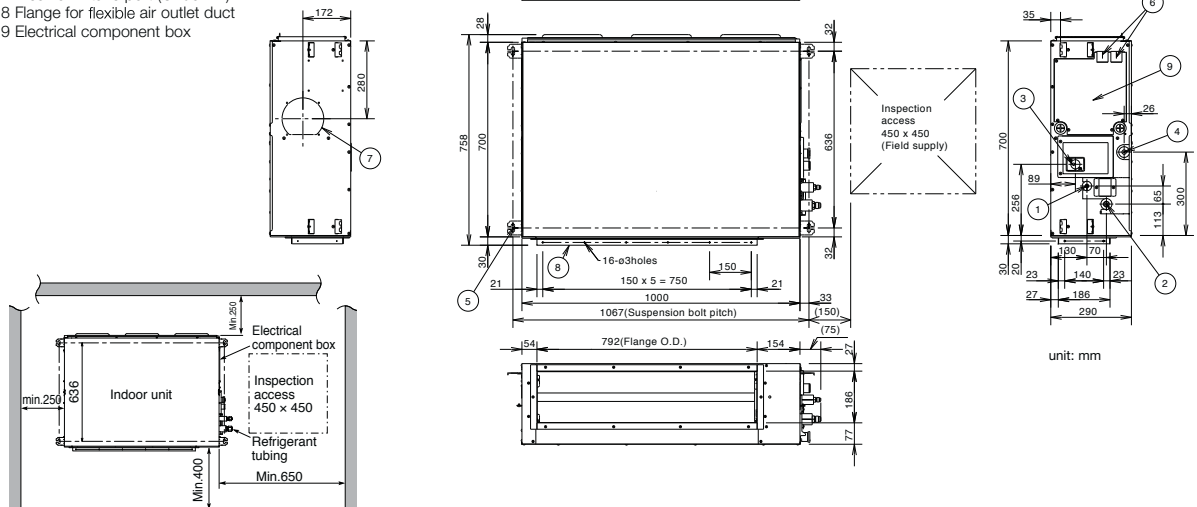
## Specifications of R32 Compact Model R32 REFRIGERANT

Capacity		6.0KW	7.1KW	10.0KW	
Model Name	Indoor Unit	<b>S-60PF1E5B</b>	<b>S-71PF1E5B</b>	<b>S-100PF1E5B</b>	
	Outdoor Unit	<b>U-60PZ2R5</b>	<b>U-71PZ2R5</b>	<b>U-100PZ2R5</b>	
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)	
		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)
EER : COP	Cooling : Heating	W/W	3.80 : 4.51	3.41 : 4.15	3.66 : 4.31
Total power input	Cooling : Heating	kW	1.58 : 1.33	2.08 : 1.71	2.73 : 2.32
<b>Indoor Unit</b>					
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	
		V	240V	240V	240V
Current	Cooling : Heating	A	0.87 : 0.87	0.87 : 0.87	1.27 : 1.29
Dimensions	H x W x D	mm	290x1,000 x700	290x1,000 x700	290x1,400 x700
Net weight		kg	33	33	45
Air volume	Cooling : Heating	L/s	350 : 350	350 : 350	533 : 533
External static pressure		Pa	70 (10 - 150)	70 (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
Sound power level (H/M/L)	Cooling : Heating	dB(A)	58 / 55 / 49 : 58 / 55 / 49	57 / 54 / 48 : 57 / 54 / 48	60 / 56 / 53 : 60 / 56 / 53
Number of fan speeds			3	3	3
Drain piping		mm	VP-25	VP-25	VP-25
<b>Outdoor Unit</b>					
Power source	Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	
		V	240V	240V	240V
Current	Cooling : Heating	A	6.75 : 5.60	8.95 : 7.35	11.1 : 9.30
Dimensions	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370
Net weight		kg	44	44	90
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)
Piping connections	Liquid / Gas	m	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30
Maximum chargeless length		m	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)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

## MID STATIC PRESSURE DUCTED

### Dimensions (6.0kW – 7.1kW)

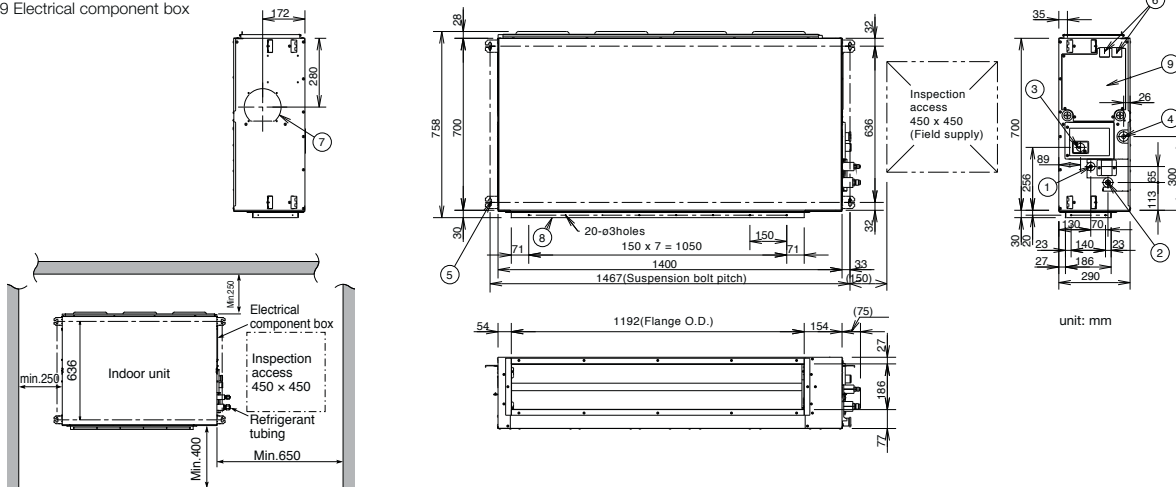
- 1 Refrigerant piping joint (liquid tube) Ø9.52 Flare
- 2 Refrigerant piping joint (gas tube) Ø15.88 Flare
- 3 Upper drain port VP25 (O.D. Ø32mm)
- 4 200 flexible hose supplied
- 5 Bottom drain port VP25 (O.D. Ø32mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box



	12.5KW		14.0KW		
	S-100PF1E5B	S-125PF1E5B	S-125PF1E5B	S-140PF1E5B	S-140PF1E5B
	U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
	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)
	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)
	3.66 : 4.31 2.73 : 2.32	3.52 : 4.02 3.55 : 3.11	3.52 : 4.02 3.55 : 3.11	3.18 : 3.79 4.40 : 3.69	3.18 : 3.79 4.40 : 3.69
	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
	240V	240V	240V	240V	240V
	1.27 : 1.29	1.39 : 1.38	1.39 : 1.38	1.47 : 1.46	1.47 : 1.46
	290x1,400 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700	290x1,400 x700
	45	45	45	45	45
	533 : 533	566 : 566	566 : 566	600 : 600	600 : 600
	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
	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
	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
	3	3	3	3	3
	VP-25	VP-25	VP-25	VP-25	VP-25
	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
	415V	240V	415V	240V	415V
	3.80 : 3.20	14.8 : 12.9	4.95 : 4.30	18.6 : 15.3	6.15 : 5.15
	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
	90	94	94	94	94
	1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386
	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
	68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)
	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
	15, 30	15, 30	15, 30	15, 30	15, 30
	30	30	30	30	30
	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)
	-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

### Dimensions (10.0kW – 14.0kW)

- 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. Ø32mm)
- Ø 200 flexible hose supplied
- 4 Bottom drain port VP25 (O.D. Ø32mm)
- 5 Suspension lug (4-12 x 30mm)
- 6 Power supply outlet
- 7 Fresh air intake port (Ø150mm)
- 8 Flange for flexible air outlet duct
- 9 Electrical component box











# 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.

**nanoe™X**  
nanoe™X ready

**ECONAVI**  
ECONAVI ready

-   
Self-diagnosing Function
-   
Automatic Fan Operation
-   
Mild dry
-   
Intelligent Auto Swing
-   
Automatic Restart Function
-   
Auto Swing (Auto Flap Control)
-   
Built-in Drain Pump
-   
DC Motor

## Technical focus

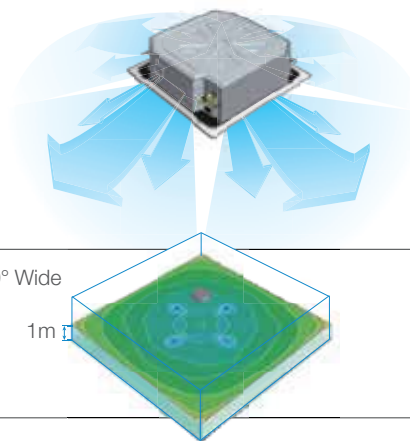
- Compact design
- Lightweight design
- Low sound levels
- Fresh air knockout
- DC fan motor for increased efficiency
- Branch duct connection
- Powerful drain pump gives 850mm lift
- Optional air-intake plenum CZ-FDU3

## 360° Wide & Comfortable Airflow

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

Ample airflow: 600 l/s  
Industry's leading in the 140PU class.

Comfort/Quiet



Temperature distribution by thermograph (cooling operation)



Simulation conditions:  
P140 4-way ceiling-mounted cassette type in cooling mode  
/ Floor area of 225m<sup>2</sup> / Ceiling height of 3m

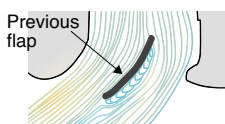
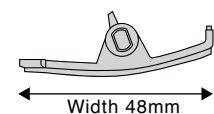
360° Wide

1m

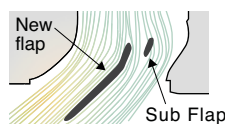
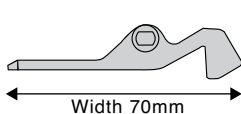
### Wide Flap

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.

#### Conventional



#### New Model



### 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.

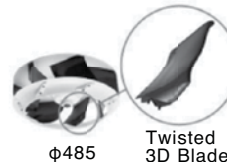
#### Conventional



5 Speed Mode



#### New Model



Airflow increased 9.5%\*

\* Panasonic in-house data

AIR INTAKE CHAMBER

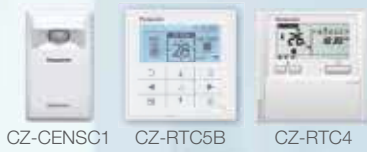


- 1 Air intake flange (ø100) (field supply).
  - 2 Air intake box CZ-ATU2\* for Air intake plenum.
  - 3 Air intake plenum CZ-FDU3
- \* When using Air intake box (CZ-ATU2), Air intake plenum (CZ-FDU3) required.

PANEL (CZ-KPU3/3A)



Normal Panel : CZ-KPU3  
ECONAVI Panel : CZ-KPU3A



OPTIONAL nanoe™ KIT



CZ-CNEXU1  
(CZ-RTC5B is required)


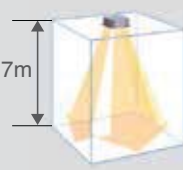
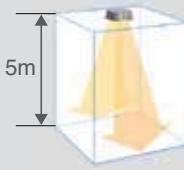


S-60PU2E5B S-125PU2E5B  
S-71PU2E5B S-140PU2E5B  
S-100PU2E5B

### High-Ceiling Installation (Up to 5m 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.)

High Ceiling (Factory settings)		
New model		
Capacity	S-60PU2E5B, S-71PU2E5B	S-100PU2E5B, S-125PU2E5B, S-140PU2E5B

Industry's top-class			
S-100PU2E5B - S-140PU2E5B			
Capacity	<b>4-way discharge</b> high ceiling settings <sup>2</sup>	<b>3-way discharge</b> with the optional air-blocking materials	<b>2-way discharge</b> with the optional air-blocking materials

#### Ceiling height guidelines

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

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

# Air Purification by nanoe™ Technology



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 0.8level [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.

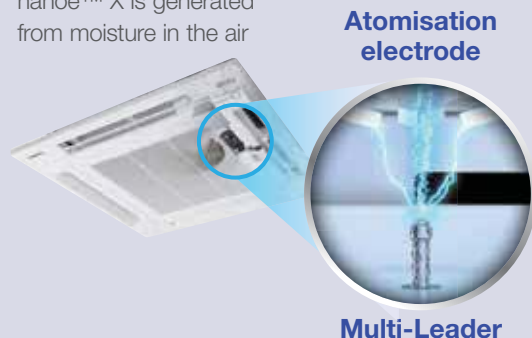


## nanoe™ X Mechanism

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

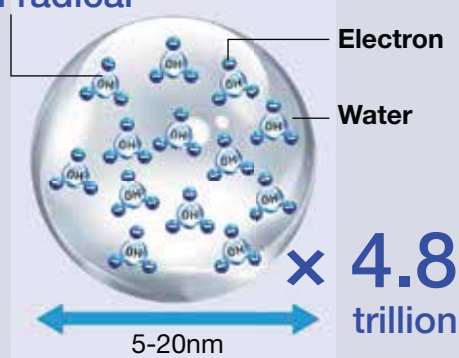
### Generation Mechanism

nanoe™ X is generated from moisture in the air



### Structure

#### OH radical



### How to Deodorise Odour<sup>\*1 \*2 \*3</sup>



### How to Inhibit Bacteria, Virus and Mould<sup>\*4 \*5 \*6 \*7 \*8</sup>



## 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



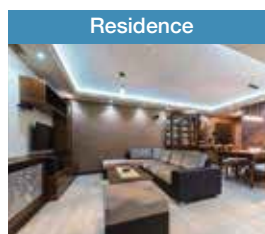
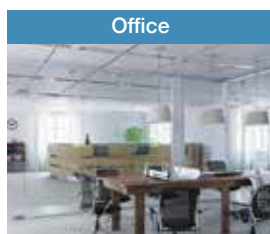
**AC Mode + nanoe™ X**  
nanoe™ X purifies the room while maintaining the comfort temperature when people are in presence.

### Closed Time



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

## Case Examples of nanoe™ X



# Specifications of R32 Compact Model

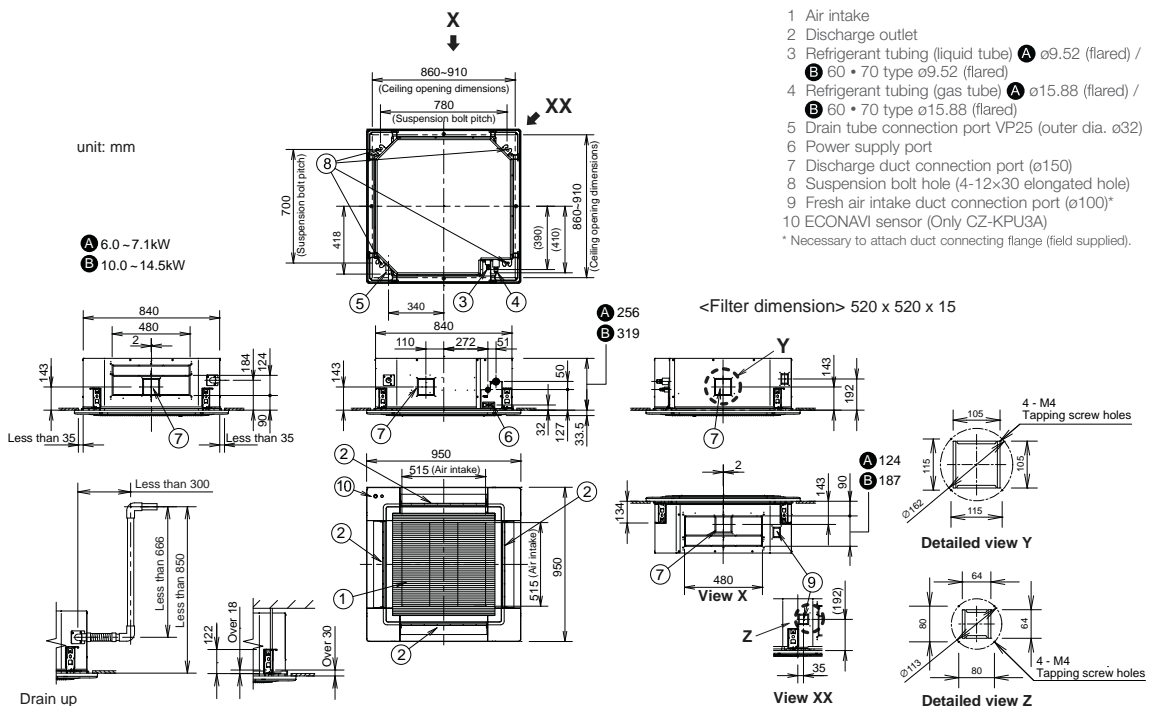


Capacity		6.0kW		7.1kW		10.0kW	
Model Name		Indoor Unit		Outdoor Unit		Indoor Unit	
		S-60PU2E5B		S-71PU2E5B		S-100PU2E5B	
		U-60PZ2R5		U-71PZ2R5		U-100PZ2R5	
Cooling capacity		kW		kW		kW	
Heating capacity		BTU/h		BTU/h		BTU/h	
EER : COP		W/W		W/W		W/W	
Total power input		kW		kW		kW	
Indoor Unit		Phase/Hz		Phase/ 50Hz		Phase/ 50Hz	
Power source		V		V		V	
Current		A		A		A	
Dimensions H x W x D		mm		mm		mm	
Net weight		kg		kg		kg	
Air volume		L/s		L/s		L/s	
Sound pressure level (H/M/L)		dB(A)		dB(A)		dB(A)	
Sound power level (H/M/L)		dB(A)		dB(A)		dB(A)	
Number of fan speeds		5*		5*		5*	
Drain pipe size		mm		mm		mm	
Outdoor Unit		Phase/Hz		Phase/ 50Hz		Phase/ 50Hz	
Power source		V		V		V	
Current		A		A		A	
Dimensions H x W x D		mm		mm		mm	
Net weight		kg		kg		kg	
Air volume		L/s		L/s		L/s	
Sound pressure level (Silent mode)		dB(A)		dB(A)		dB(A)	
Sound power level (Silent mode)		dB(A)		dB(A)		dB(A)	
Piping connections		Liquid / Gas		Liquid / Gas		Liquid / Gas	
Pipe length		min. - max.		min. - max.		min. - max.	
Elevation difference (OU located lower, OU located higher)		m		m		m	
Maximum chargeless length		m		m		m	
Refrigerant at shipping, Additional gas amount		g		g		g	
Operation ranges		Cooling : Heating		Cooling : Heating		Cooling : Heating	
		°C		°C		°C	

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

## 4-WAY CASSETTE

### Dimensions (6.0kW – 14.0kW)



\* 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.

12.5kW		14.0kW		
S-100PU2E5B	S-125PU2E5B	S-125PU2E5B	S-140PU2E5B	S-140PU2E5B
U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8
Standard type:CZ-KPU3;ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3;ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3;ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3;ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3;ECONAVI type:CZ-KPU3A
10.0 (3.0-11.5) <b>10.0 (3.0-14.0)</b>	12.5 (3.2 - 13.5) <b>12.5 (3.3 - 15.0)</b>	12.5 (3.2 - 13.5) <b>12.5 (3.3 - 15.0)</b>	14.0 (3.3 - 15.0) <b>14.0 (3.4 - 16.0)</b>	14.0 (3.3 - 15.0) <b>14.0 (3.4 - 16.0)</b>
34,100 (10,200-39,200) <b>34,100 (10,200 - 47,800)</b>	42,700 (10,900 - 46,100) <b>42,700 (11,300 - 51,200)</b>	42,700 (10,900 - 46,100) <b>42,700 (11,300 - 51,200)</b>	47,800 (11,300 - 51,200) <b>47,800 (11,600 - 54,600)</b>	47,800 (11,300 - 51,200) <b>47,800 (11,600 - 54,600)</b>
3.82 : 4.93	3.58 : 4.43	3.58 : 4.43	3.23 : 4.18	3.23 : 4.18
2.62 : <b>2.03</b>	3.49 : <b>2.82</b>	3.49 : <b>2.82</b>	4.34 : <b>3.35</b>	4.34 : <b>3.35</b>
1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
240V	240V	240V	240V	240V
0.76 : <b>0.75</b>	0.85 : <b>0.84</b>	0.85 : <b>0.84</b>	0.91 : <b>0.90</b>	0.91 : <b>0.90</b>
319x840 x840	319x840 x840	319x840 x840	319x840 x840	319x840 x840
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
25	25	25	25	25
5	5	5	5	5
600 : <b>600</b>	616 : <b>616</b>	616 : <b>616</b>	633 : <b>633</b>	633 : <b>633</b>
45 / 38 / 32 : <b>45 / 38 / 32</b>	46 / 39 / 33 : <b>45 / 39 / 33</b>	46 / 39 / 33 : <b>45 / 39 / 33</b>	47 / 40 / 34 : <b>47 / 40 / 34</b>	47 / 40 / 34 : <b>47 / 40 / 34</b>
60 / 53 / 47 : <b>60 / 53 / 47</b>	61 / 54 / 48 : <b>61 / 54 / 48</b>	61 / 54 / 48 : <b>61 / 54 / 48</b>	62 / 55 / 49 : <b>62 / 55 / 49</b>	62 / 55 / 49 : <b>62 / 55 / 49</b>
5*	5*	5*	5*	5*
VP-25	VP-25	VP-25	VP-25	VP-25
3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
415V	240V	415V	240V	415V
3.75 : <b>2.90</b>	15.0 : <b>12.0</b>	5.00 : <b>4.00</b>	18.7 : <b>14.3</b>	6.25 : <b>4.80</b>
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
90	94	94	94	94
1,285 : <b>1,169</b>	1,436 : <b>1,302</b>	1,436 : <b>1,302</b>	1,486 : <b>1,386</b>	1,486 : <b>1,386</b>
52 (50) : <b>52 (50)</b>	55 (53) : <b>55 (53)</b>	55 (53) : <b>55 (53)</b>	56 (54) : <b>56 (54)</b>	56 (54) : <b>56 (54)</b>
68 (66) : <b>67 (65)</b>	70 (68) : <b>70 (68)</b>	70 (68) : <b>70 (68)</b>	71 (69) : <b>71 (69)</b>	71 (69) : <b>71 (69)</b>
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
15, 30	15, 30	15, 30	15, 30	15, 30
30	30	30	30	30
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)
-10 to 43 : <b>-15 to 24</b>	-10 to 43 : <b>-15 to 24</b>	-10 to 43 : <b>-15 to 24</b>	-10 to 43 : <b>-15 to 24</b>	-10 to 43 : <b>-15 to 24</b>



# Indoor Unit Under Ceiling

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



ECONAVI ready



Self-diagnosing Function



Automatic Fan Operation



Automatic Restart Function



DC Motor

## 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

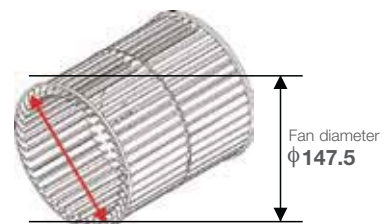
Top Class Energy Saving

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.

New DC fan motor



Large Diagonal Air Flow Fan





S-60PT2E5B  
S-71PT2E5B



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

**ECONAVI**  
ECONAVI ready



CZ-CENSC1



CZ-RTCSB

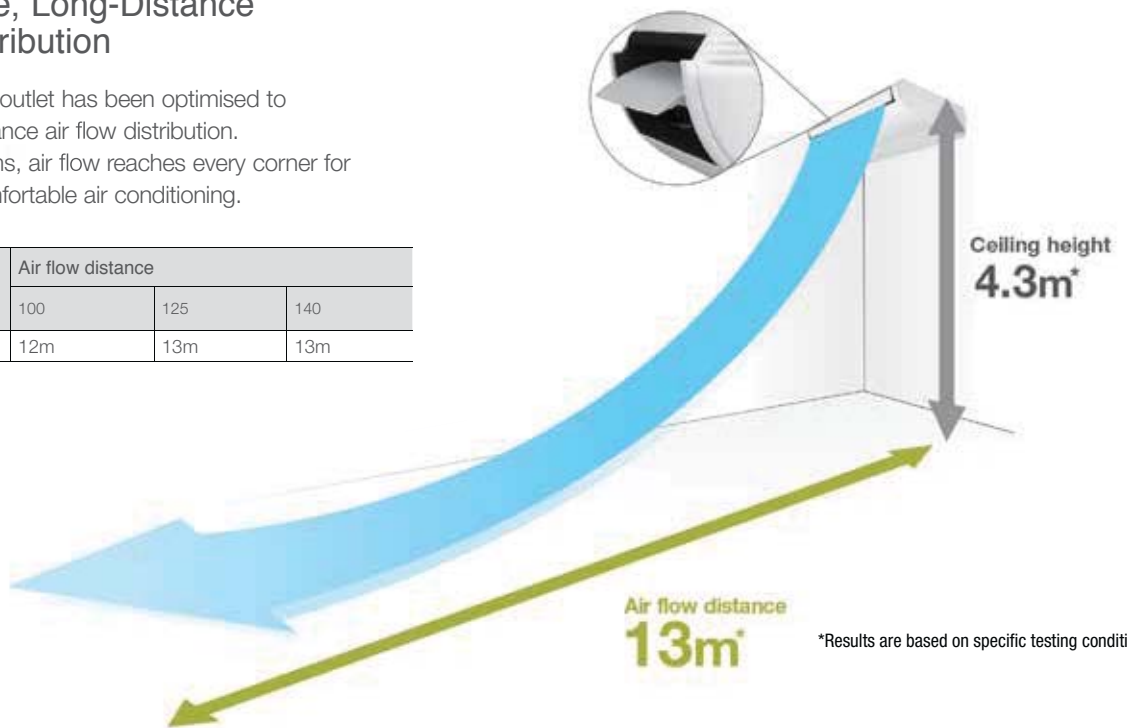


CZ-RTC4

## 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.

High Ceiling Setting <small>*Setting by remote control</small>	Air flow distance		
	4.3m	100	125
	12m	13m	13m



\*Results are based on specific testing conditions



# Specifications of R32 Compact Model

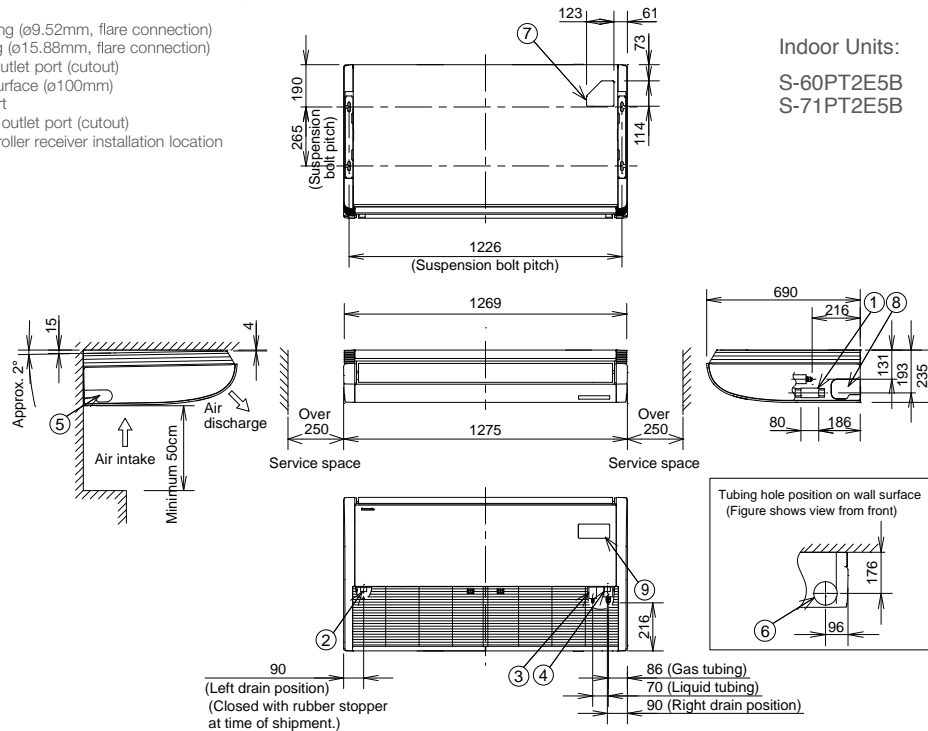


Capacity			6.0kW	7.1kW	10.0kW
Model Name	Indoor Unit		S-60PT2E5B	S-71PT2E5B	S-100PT2E5B
	Outdoor Unit		U-60PZ2R5	U-71PZ2R5	U-100PZ2R5
Cooling capacity : Heating capacity		kW	6.0(2.0-7.1) 6.0(1.8-7.6)	7.1(2.0-8.0) 7.1(1.8-8.6)	10.0(3.0-11.5) 10.0(3.0-14.0)
		BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 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)
EER : COP	Cooling : Heating	W/W	4.05 : 4.80	3.68 : 4.38	3.64 : 4.24
Total power input	Cooling : Heating	kW	1.48 : 1.25	1.93 : 1.62	2.75 : 2.36
<b>Indoor Unit</b>					
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V	240V
Current	Cooling : Heating	A	0.40 : 0.40	0.43 : 0.43	0.65 : 0.65
Dimensions	H x W x D	mm	235x1,275 x 690	235 x 1,275 x 690	235 x 1,590 x 690
Net weight		kg	33	33	40
Air volume	Cooling : Heating	L/s	333 : 333	350 : 350	500 : 500
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
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
Number of fan speeds			3	3	3
Drain pipe size		mm	VP-20	VP-20	VP-20
<b>Outdoor Unit</b>					
Power source		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
		V	240V	240V	240V
Current	Cooling : Heating	A	6.60 : 5.55	8.60 : 7.25	11.7 : 10.0
Dimensions	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370
Net weight		kg	44	44	90
Air volume	Cooling : Heating	L/s	750 : 750	867 : 750	1,285 : 1,169
Sound pressure level	Cooling : Heating	dB(A)	46 (44) : 48 (46)	49 (47) : 49 (47)	52 (50) : 52 (50)
Sound power level	Cooling : Heating	dB(A)	65 (63) : 66 (64)	67 (65) : 67 (65)	68 (66) : 67 (65)
Piping connections	Liquid/Gas	m	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length	min. - max.	m	3 - 40	3 - 40	5 - 50
Elevation difference (OU located lower, OU located higher)		m	15, 30	15, 30	15, 30
Maximum chargeless length		m	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)
Operation ranges	Cooling : Heating	°C	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24	-10 to 43 : -15 to 24

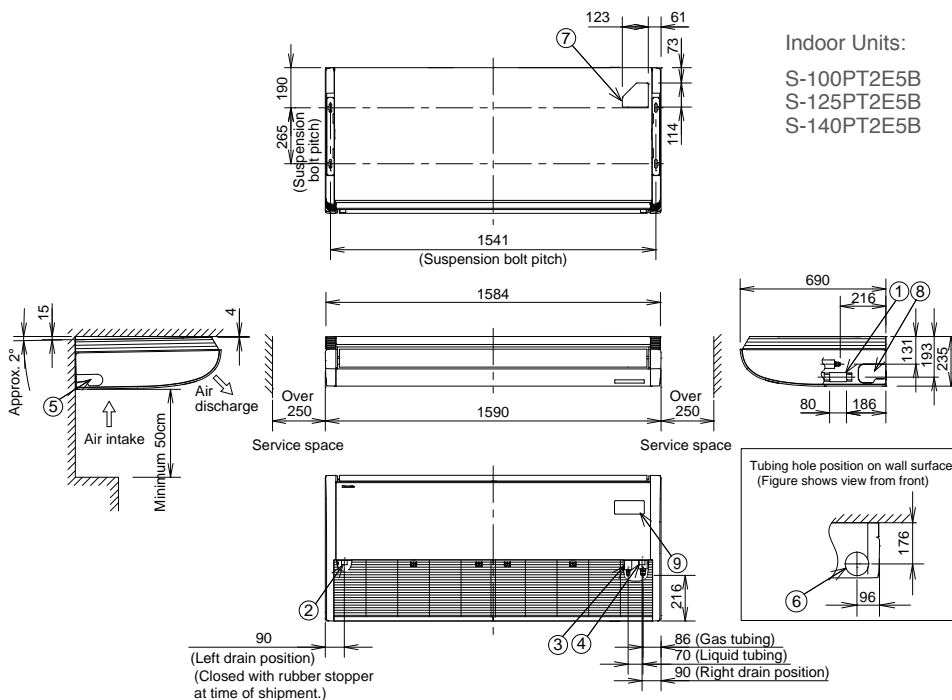
## CEILING

### Dimensions (6.0kW – 14.0kW)

- 1 Drain port VP20 (inside diameter ø26mm, drain hose supplied)
- 2 Left drain position
- 3 Refrigerant liquid tubing (ø9.52mm, flare connection)
- 4 Refrigerant gas tubing (ø15.88mm, flare connection)
- 5 Left side drain hose outlet port (cutout)
- 6 Tubing hole on wall surface (ø100mm)
- 7 Upper side tubing port
- 8 Right side drain hose outlet port (cutout)
- 9 Wireless remote controller receiver installation location



		12.5kW		14.0kW	
S-100PT2E5B	S-125PT2E5B	S-125PT2E5B	S-140PT2E5B	S-140PT2E5B	S-140PT2E5B
U-100PZ2R8	U-125PZ2R5	U-125PZ2R8	U-140PZ2R5	U-140PZ2R8	U-140PZ2R8
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)	13.6 (3.3-15.0) 14.0 (3.4-16.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)	13.6 (3.3-15.0) 14.0 (3.4-16.0)
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)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)	46,400 (11,300 - 51,200) 47,800 (11,600 - 54,600)
3.64 : 4.24	3.32 : 3.89	3.32 : 3.89	3.15 : 3.70	3.15 : 3.70	3.15 : 3.70
2.75 : 2.36	3.76 : 3.21	3.76 : 3.21	4.32 : 3.78	4.32 : 3.78	4.32 : 3.78
1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
240V	240V	240V	240V	240V	240V
0.65 : 0.65	0.83 : 0.83	0.83 : 0.83	0.88 : 0.88	0.88 : 0.88	0.88 : 0.88
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
40	40	40	40	40	40
500 : 500	566 : 566	566 : 566	583 : 583	583 : 583	583 : 583
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	47 / 41 / 37 : 47 / 41 / 37
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	65 / 59 / 55 : 65 / 59 / 55
3	3	3	3	3	3
VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	3 Phase/ 50Hz
415V	240V	415V	240V	415V	415V
4.00 : 3.40	16.2 : 13.7	5.40 : 4.60	18.6 : 16.2	6.20 : 5.40	6.20 : 5.40
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
90	94	94	94	94	94
1,285 : 1,169	1,436 : 1,302	1,436 : 1,302	1,486 : 1,386	1,486 : 1,386	1,486 : 1,386
52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)	56 (54) : 56 (54)
68 (66) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	71 (69) : 71 (69)	71 (69) : 71 (69)	71 (69) : 71 (69)
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
30	30	30	30	30	30
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)
-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



# 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.



ECONAVI ready

-   
Self-diagnosing Function
-   
Automatic Fan Operation
-   
Mild dry
-   
Intelligent Auto Swing
-   
Automatic Restart Function
-   
Auto Swing (Auto Flap Control)
-   
DC Motor

## Technical focus

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

### 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.

### Quiet operation

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

### 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.

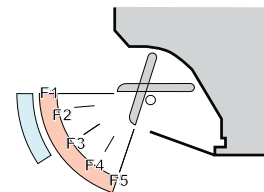
### Washable front panel

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



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

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



- Heating: F1 to F5
- Cooling: F1 to F3





S-100PK2E5B

**ECONAVI**

ECONAVI ready



CZ-CENSC1



CZ-RTC5B



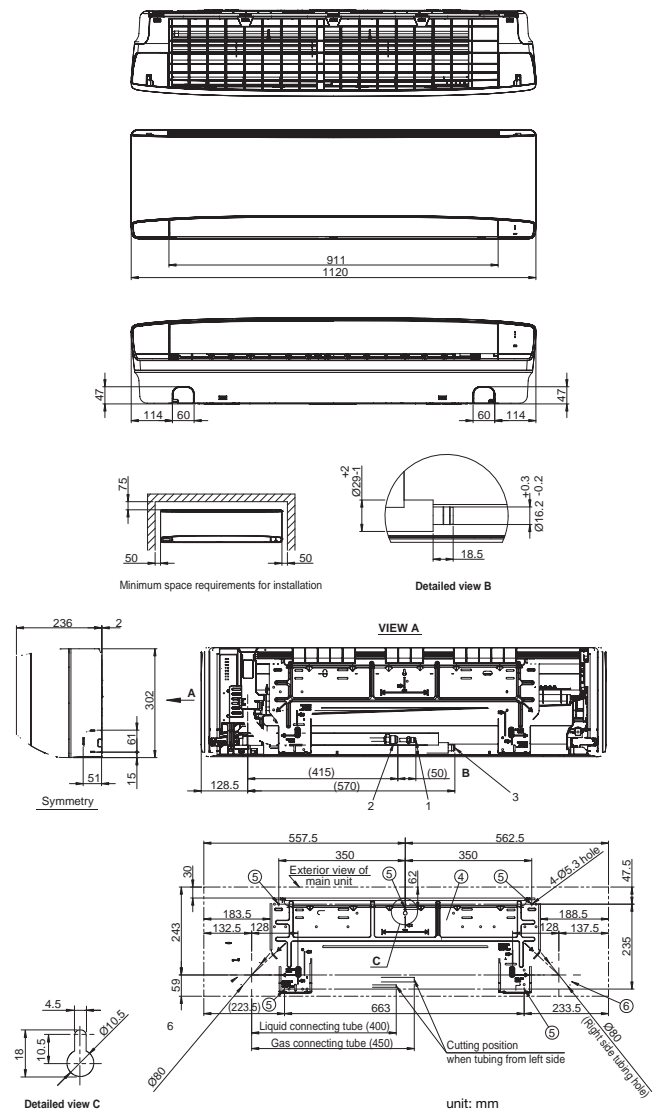
CZ-RTC4

## Specifications of R32 Compact Model R32 REFRIGERANT

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

## WALL MOUNTED

### Dimensions (10.0kW)



# Products for Small Sized Project

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



## Ultra Slim Ducted



## Bulkhead Ducted

### Technical focus

- Market-leading Energy Efficiency
- Only 200mm High
- Rear or Bottom Return Air
- Built-in Drain Pump (500mm lift\*)
- -15°C to +46°C Operating Range

\* Refer to Technical Documents for more details

### Technical focus

- Market-leading Energy Efficiency
- Only 370mm Deep
- Easy Installation
- Built-in Drain Pump (200mm lift\*)
- -15°C to +46°C Operating Range

\* Refer to Technical Documents for more details

## Specifications

		Ultra Slim Ducted			
Capacity		2.60KW	3.70KW	5.00KW	
Model Name	Indoor Unit	CS-E9SD3RW	CS-E12SD3RW	CS-E18SD3RW	
	Outdoor Unit	CU-E9SD3R	CU-E12SD3R	CU-E18SD3R	
Cooling capacity :	kW	2.6 (0.85 - 3.20)	3.70 (0.85 - 4.00)	5.00 (0.90 - 5.70)	
		3.30 (0.85 - 4.50)	4.20 (0.85 - 5.10)	6.10 (0.90 - 7.10)	
Heating capacity	BTU/h	8,870 (2,900 - 10,900)	12,600 (2,900 - 13,600)	17,100 (3,070 - 19,400)	
		11,300 (2,900 - 15,300)	14,300 (2,900 - 17,400)	20,800 (3,070 - 24,200)	
EER : COP	Cooling : Heating	W/W	4.19 : 3.93	3.59 : 3.82	3.33 : 3.59
Total power input	Cooling : Heating	kW	0.62 (0.23 - 0.97) : 0.84 (0.22 - 1.36)	1.03 (0.23 - 1.15) : 1.10 (0.22 - 1.50)	1.50 (0.29 - 1.8) : 1.70 (0.33 - 2.05)
<b>Indoor Unit</b>					
Power source		Phase/Hz V	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V	1 Phase/ 50Hz 240V
Current	Cooling : Heating	A	2.8 : 3.8	4.4 : 4.7	6.5 : 7.4
Dimensions	H x W x D	mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640
Net weight		kg	19	19	19
Air volume	Cooling : Heating	L/s	231 : 231	241 : 241	293 : 293
External static pressure		Pa	0 - 78	0 - 84	0 - 114
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	32 / 27 / 24 : 34 / 28 / 25	33 / 27 / 24 : 35 / 28 / 25	41 / 30 / 27 : 41 / 32 / 29
Sound power level (H/M/L)	Cooling : Heating	dB(A)	48 / 43 / 40 : 50 / 44 / 41	49 / 43 / 40 : 51 / 44 / 41	57 / 46 / 43 : 57 / 48 / 45
<b>Outdoor Unit</b>					
Power source		Phase/Hz V	1 Phase / 50Hz 240V	1 Phase / 50Hz 240V	1 Phase / 50Hz 240V
Dimensions	H x W x D	mm	619 x 824 x299	619 x 824 x299	795 x 875 x 320
Net weight		kg	33	33	52
Piping connections	Liquid / Gas	m	Ø6.35 (1/4) / Ø9.52 (3/8)	Ø6.35 (1/4) / Ø12.70 (1/2)	Ø6.35 (1/4) / Ø12.70 (1/2)
Pipe length	min. - max.	m	3-15	3-15	3-30
Elevation difference (OU located lower, OU located higher)		m	15	15	20
Operation ranges	Cooling : Heating	°C	5 - 46 : -15 - 24	5 - 46 : -15 - 24	5 - 46 : -15 - 24

\* These products are not supported by PAC/VRF Smart Connectivity and Panasonic AC Smart Cloud.

### Ultra Slim Ducted

CS-E9SD3RW  
CS-E12SD3RW  
CS-E18SD3RW



CU-E9SD3R/ CU-E9QD3R/ CU-E9SB4R  
CU-E12SD3R/ CU-E12QD3R/ CU-E12QB4R

### Bulkhead Ducted

CS-E9QD3RW  
CS-E12QD3RW  
CS-E18QD3RW



CU-E18SD3R/ CU-E18QD3R/ CU-E18QB4R

### 4-Way Mini Cassette

CS-E9SB4RW  
CS-E12QB4RW  
CS-E18QB4RW

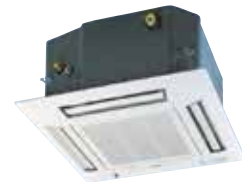


Panel  
CZ-BT20E

CZ-RD52CP



## 4-Way Mini Cassette



### Technical focus

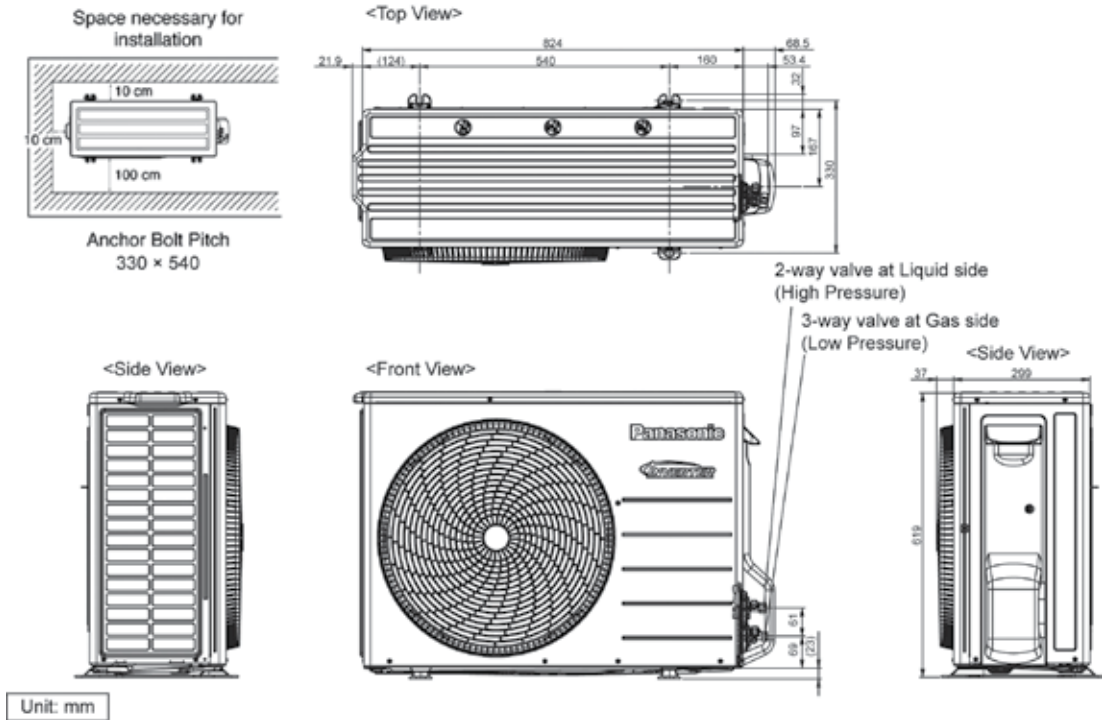
- Market-leading Energy Efficiency
- Compact Design (260mm High)
- Easy Installation
- Built-in Drain Pump (600mm lift\*)
- -15°C to +46°C Operating Range

\* Refer to Technical Documents for more details

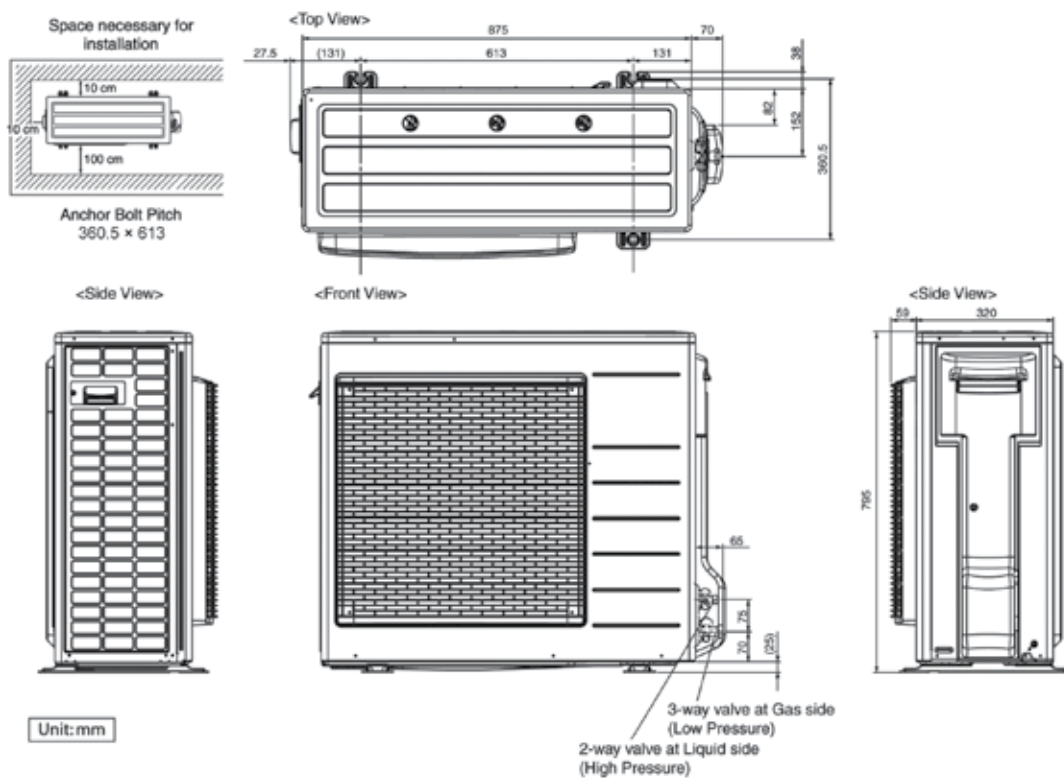
Bulkhead Ducted			Mini Cassette		
2.50KW	3.40KW	5.00KW	2.50KW	3.40KW	4.80KW
CS-E9QD3RW	CS-E12QD3RW	CS-E18QD3RW	CS-E9SB4RW	CS-E12QB4RW	CS-E18QB4RW
CU-E9QD3R	CU-E12QD3R	CU-E18QD3R	CU-E9SB4R	CU-E12QB4R	CU-E18QB4R
2.50 (0.85 - 3.10) 3.20 (0.85 - 4.40)	3.40 (0.85 - 4.00) 4.00 (0.85 - 5.10)	5.00 (0.90 - 5.70) 6.10 (0.90 - 7.10)	2.50 (0.85 - 3.20) 3.20 (0.85 - 4.70)	3.40 (0.85 - 4.00) 4.00 (0.85 - 5.40)	4.80 (0.90 - 5.70) 5.00 (0.90 - 7.10)
8,530 (2,900 - 10,600) 10,900 (2,900 - 15,000)	11,600 (2,900 - 13,600) 13,600 (2,900 - 17,400)	17,100 (3,070 - 19,400) 20,800 (3,070 - 24,200)	8,530 (2,900 - 10,900) 10,900 (2,900 - 16,000)	11,600 (2,900 - 13,600) 13,600 (2,900 - 18,400)	16,400(3,070 - 19,400) 17,100 (3,070 - 20,400)
3.85 : 3.64	3.58 : 3.39	3.25 : 3.30	4.55 : 4.10	3.86 : 3.81	3.31 : 3.31
0.65 (0.23 - 0.88) : 0.88 (0.22 - 1.36)	0.95 (0.23 - 1.18) : 1.18 (0.22 - 1.6)	1.54 (0.29 - 1.84) : 1.85 (0.33 - 2.20)	0.55 (0.22 - 0.9) : 0.78 (0.21 - 1.36)	0.88 (0.22 - 1.18) : 1.05 (0.21 - 1.68)	1.45 (0.29 - 1.93) : 1.51 (0.33 - 2.45)
1 Phase/ 50Hz 240V 3.0 : 3.9	1 Phase/ 50Hz 240V 4.1 : 5.1	1 Phase/ 50Hz 240V 6.6 : 7.9	1 Phase/ 50Hz 240V 2.5 : 3.5	1 Phase/ 50Hz 240V 3.9 : 4.6	1 Phase/ 50Hz 240V 6.2 : 6.5
235 x 750 x 370 17 250 : 259 0 - 124	235 x 750 x 370 17 256 : 263 0 - 140	285 x 750 x 370 18 286 : 294 0 - 147	260 x 575 x 575 18 175 : 182 -	260 x 575 x 575 18 175 : 195 -	260 x 575 x 575 18 195 : 208 -
32 / 27 / 24 : 34 / 28 / 25 48 / 43 / 40 : 50 / 44 / 41	33 / 27 / 24 : 35 / 28 / 25 49 / 43 / 40 : 51 / 44 / 41	42 / 30 / 27 : 42 / 32 / 29 48 / 46 / 43 : 48 / 48 / 45	34 / 26 / 23 : 35 / 28 / 25 50 / 42 / 39 : 51 / 44 / 41	35 / 26 / 23 : 37 / 28 / 25 51 / 42 / 39 : 53 / 44 / 41	38 / 28 / 25 : 39 / 29 / 26 54 / 44 / 41 : 55 / 45 / 42
1 Phase / 50Hz 240V 619 x 824 x299 33 Ø6.35 (1/4) / Ø9.52 (3/8) 3 - 15 15 5 - 46 : -15 - 24	1 Phase / 50Hz 240V 619 x 824 x299 33 Ø6.35 (1/4) / Ø12.70 (1/2) 3 - 15 15 5 - 46 : -15 - 24	1 Phase / 50Hz 240V 795 x 875 x 320 52 Ø6.35 (1/4) / Ø12.70 (1/2) 3 - 30 20 5 - 46 : -15 - 24	1 Phase / 50Hz 240V 619 x 824 x 299 33 Ø6.35 (1/4) / Ø9.52 (3/8) 3-15 15 5 - 46 : -15 - 24	1 Phase / 50Hz 240V 619 x 824 x 299 33 Ø6.35 (1/4) / Ø12.70 (1/2) 3-15 15 5 - 46 : -15 - 24	1 Phase / 50Hz 240V 795 x 875 x 320 52 Ø6.35 (1/4) / Ø12.70 (1/2) 3-30 20 5 - 46 : -15 - 24

## OUTDOOR UNIT

### Dimensions (2.5kW – 3.7kW)

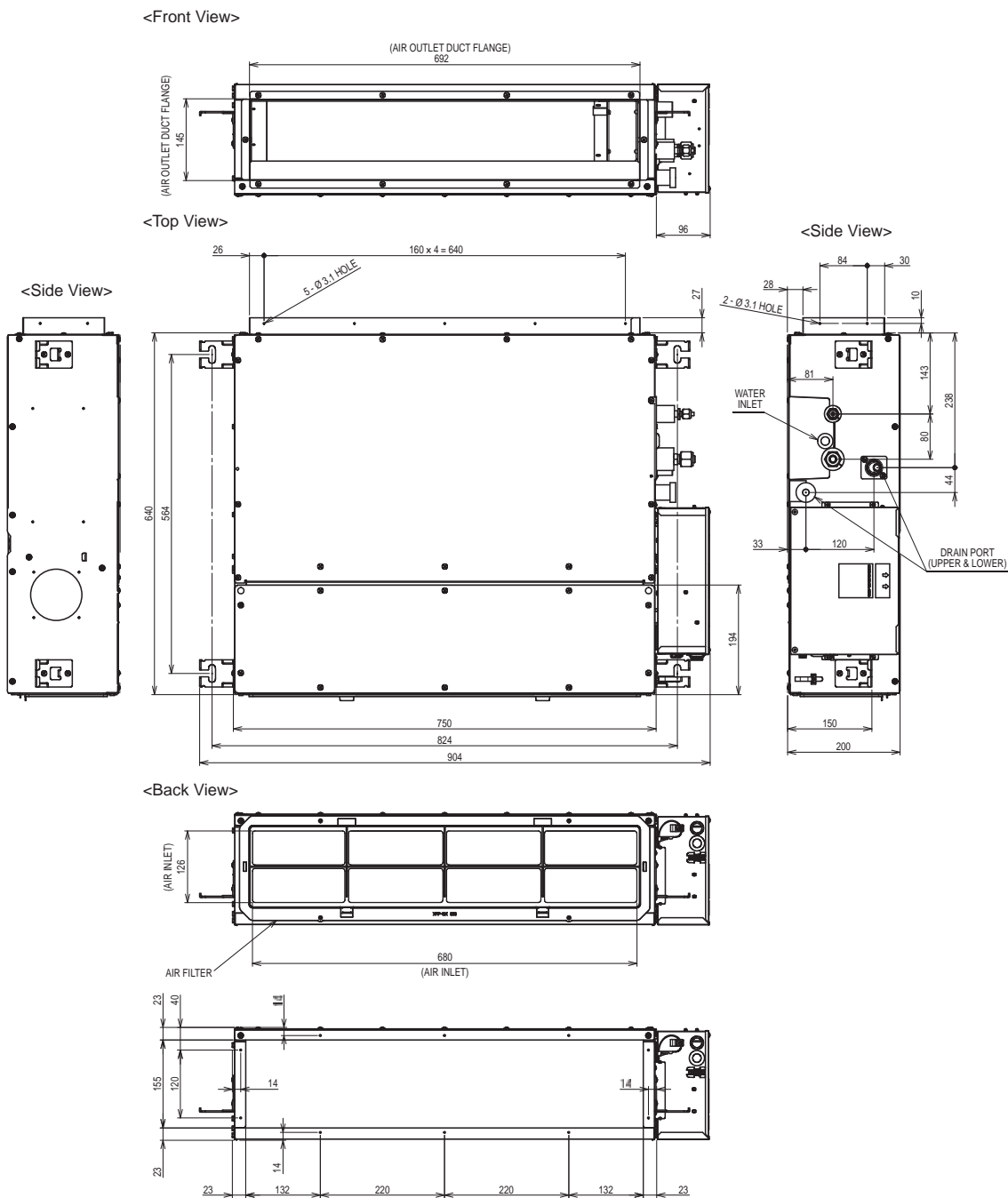


### Dimensions (4.8kW – 5.0kW)



## ULTRA SLIM DUCTED

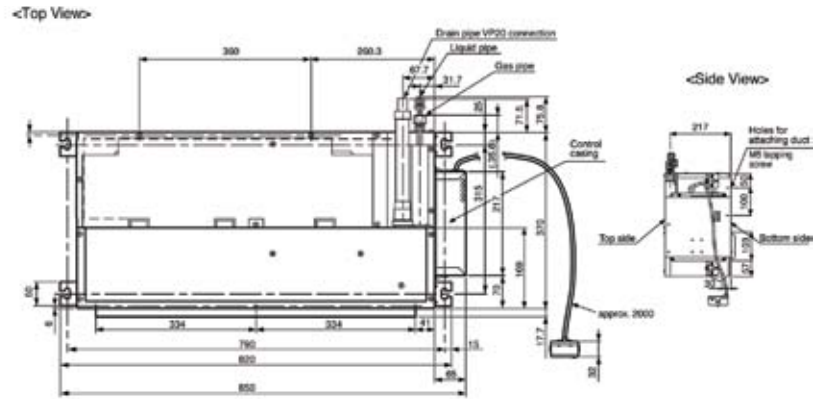
Dimensions (2.5kW – 5.0kW)



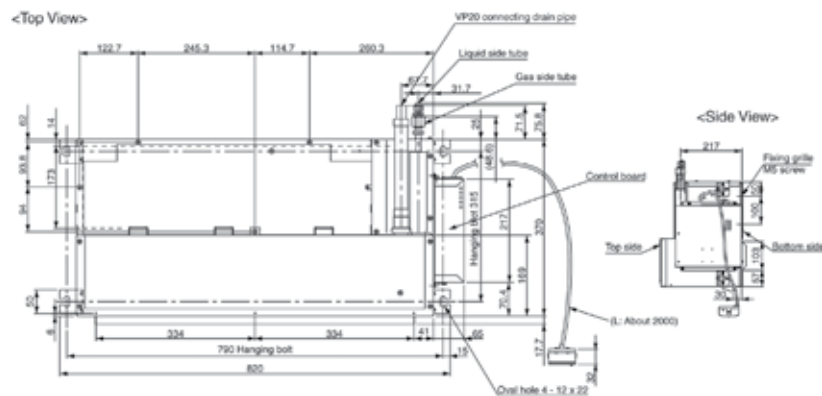
Unit: mm

## BULKHEAD DUCTED

Dimensions (2.5kW – 3.4kW)

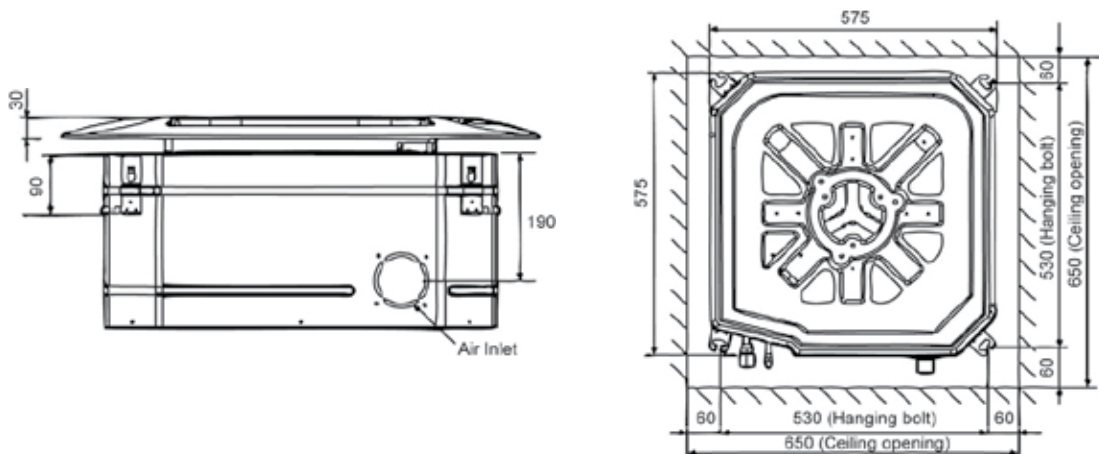


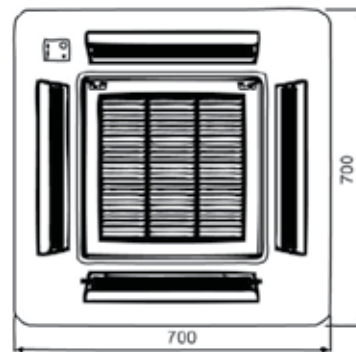
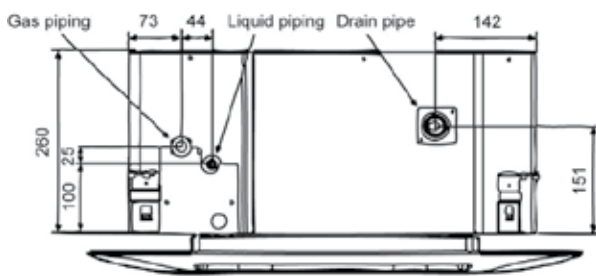
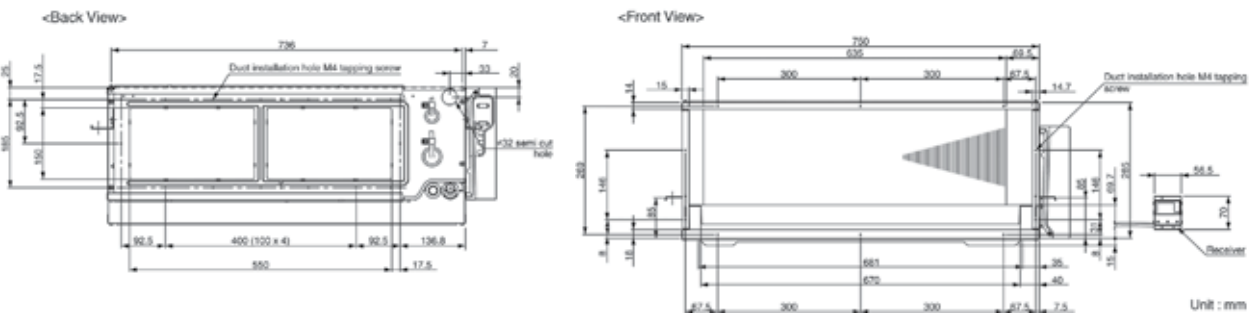
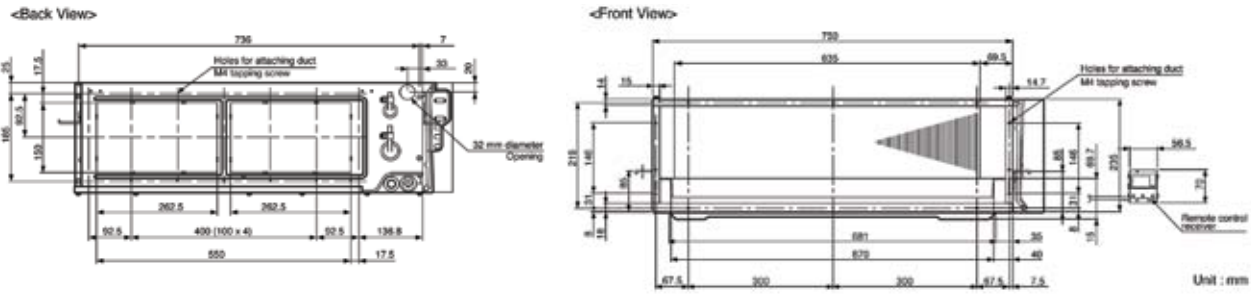
Dimensions (5.0kW)



## 4-WAY MINI CASSETTE

Dimensions (2.5kW – 5.0kW)





# Smart Control Management Solutions

Panasonic has developed the latest range of smart control management solutions offering streamlined approaches for each unique need. From individual remote control for residential split systems, up to the newest cloud based technology, allowing you to control each of your buildings around the world, all from your portable device.

## PAC/VRF Smart Connectivity

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



Life Is On

**Schneider**  
Electric



## Centralised Control System

This integrated control system is ideal for large-scale spaces, and achieves more efficient operation.

## Individual Controllers

A remote control solution to optimise the temperature in each room.

## Panasonic AC Smart Cloud

With a simple click, all your units from several locations, receive status updates in real-time reducing the chance of breakdowns and optimising costs.



# PAC/VRF Smart Connectivity

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

Life Is On



## PAC/VRF Smart Connectivity

PAC/VRF Smart Connectivity offers efficient energy management and a new air conditioning control solution with high IAQ.

### 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 (BEMS) 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 Light (PIR Optional)
- ZigBee wireless sensors: CO<sub>2</sub>, window/door, human presence.



### Ultimate Customisation.

- Background colour customisable
- Custom display/icons, messages
- Programmable logic (also stand alone)



### User-/Owner-friendly.

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

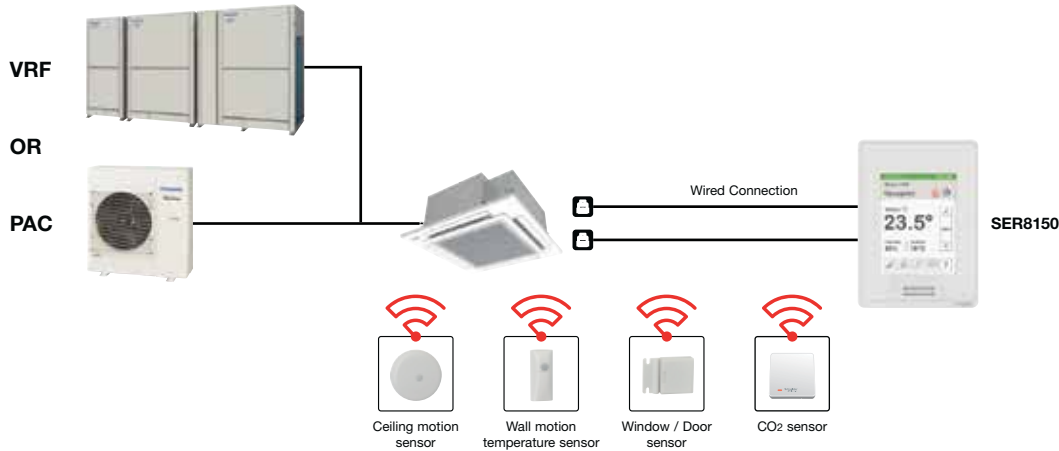


### Easy Design and Plug and Play to Reduce CapEx.

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

## Energy Management System for Rooms

By installing a ceiling motion sensor, wall motion temperature sensor, window/door sensor, and CO<sub>2</sub> sensor in the room, ideal, waste-free air conditioning is achieved.



### Sensing 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 and are easy to install and replace.



\* Specifications are subject to change.

### Built-in PIR Sensor Control

Built-in occupancy sensors detect the presence or absence of people in each room for optimum control. This creates an environment of high productivity and efficiency.



### Humidity Sensor Control

Humidity sensors enable automatic dehumidification for the optimum IAQ regardless of climatic conditions.

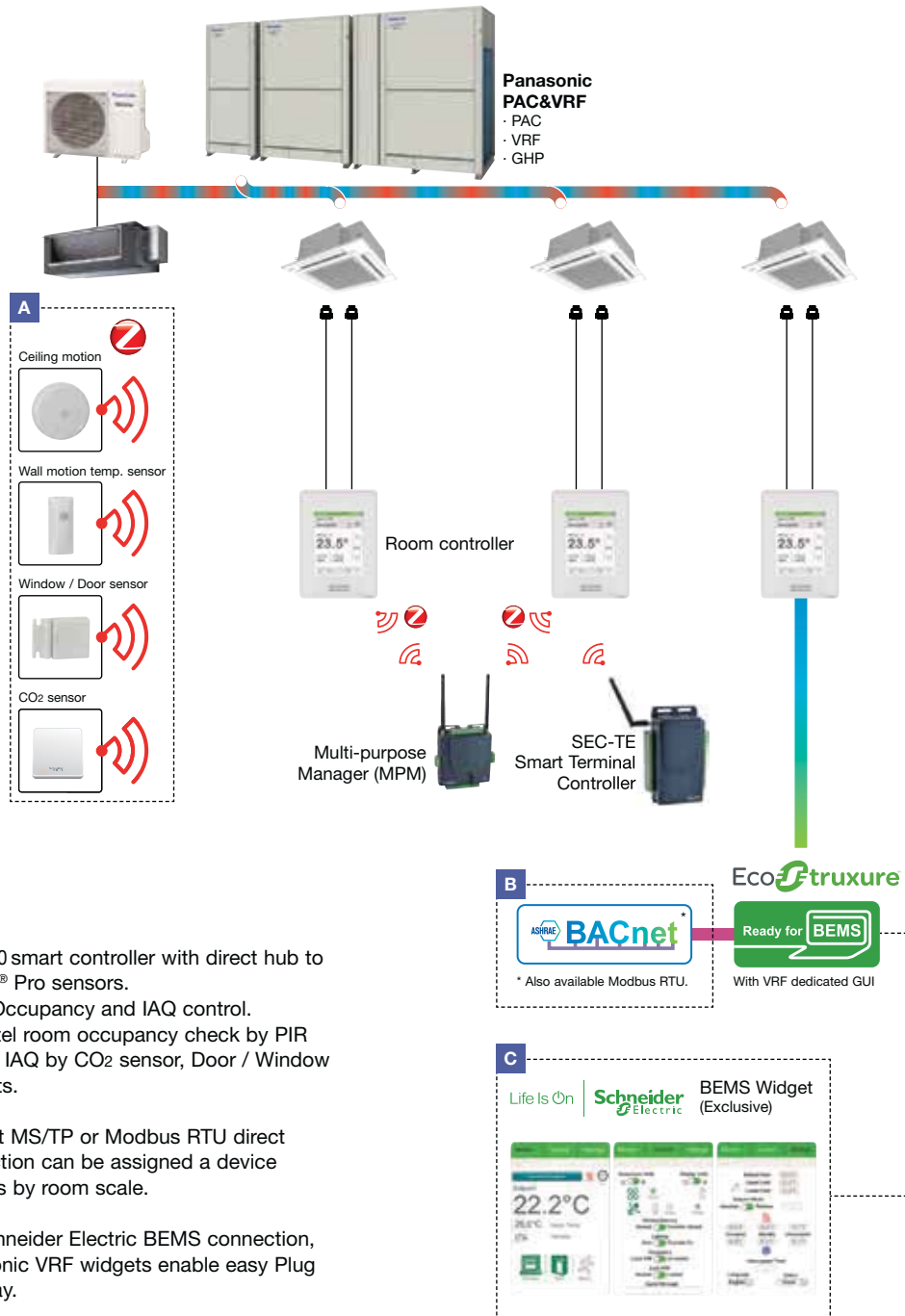


## Management System for the Entire Building

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

### Plug and Play BEMS connection.

With the SER8150 connection to BEMS 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.



- A** SER8150 smart controller with direct hub to ZigBee® Pro sensors. Great Occupancy and IAQ control. Ex: Hotel room occupancy check by PIR sensor, IAQ by CO<sub>2</sub> sensor, Door / Window contacts.
- B** BACnet MS/TP or Modbus RTU direct connection can be assigned a device address by room scale.
- C** For Schneider Electric BEMS connection, Panasonic VRF widgets enable easy Plug and Play.

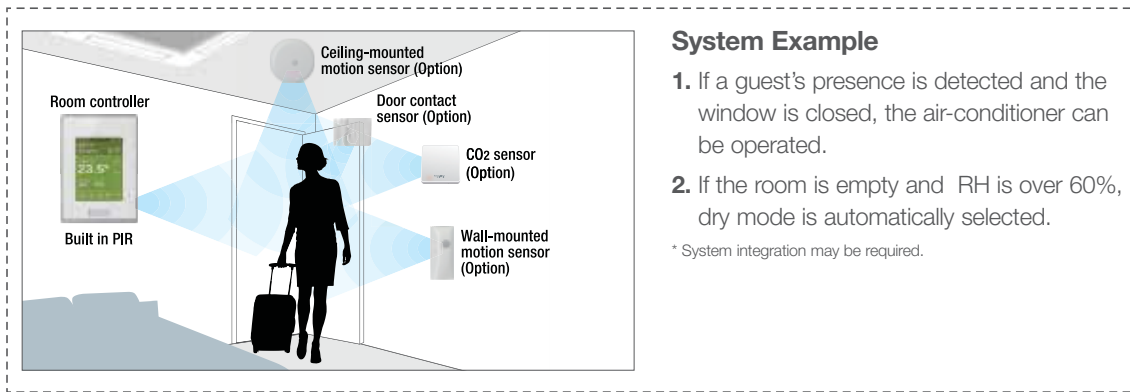
\* Graphic shows combination of products from Panasonic, Schneider Electric and others. Currently, some products might not available in Australia, please consult authorised dealer for more details.

## Smart Management Solutions

### 1 Hotels

#### Room Key Cardless Solution with Programmable Controller

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.



#### System Example

1. If a guest's presence is detected and the window is closed, the air-conditioner can be operated.
2. If the room is empty and RH is over 60%, dry mode is automatically selected.

\* System integration may be required.

#### A truly comfortable experience for guests

Easy-to-understand, refined on-screen images enable display of hotel logos and original welcoming messages. Colour and design can also be customised for different facilities to create an even more comfortable environment for guests.



### 2 Small and Medium Offices



#### CO<sub>2</sub> sensors (option) and Humidity sensors

CO<sub>2</sub> 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, Bulkhead 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.



### Easy-to-Understand Error Description

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



### Customisation in 20 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.



\*Currently 6. More languages scheduled for a late 2018 release.

### Programmable Logic

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



## Smart Connectivity Devices



### Features

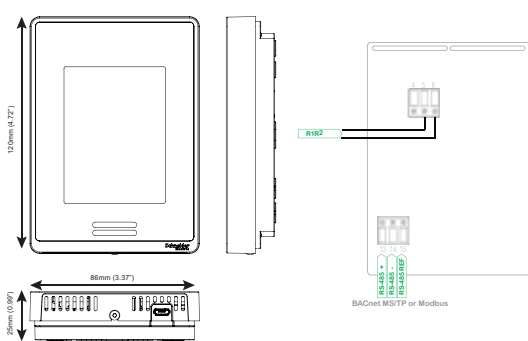
- Up to 5-year battery life, batteries included
- Battery level is a point
- Sensor points visible in SBO when SER8150 is integrated via BACnet MS/TP
- Sensor status and battery level visible in SBE when SER8150 is integrated via ZigBee® Pro
- Integration to SBE only recommended when each MPM is connected to Ethernet and set as a ZigBee® Coordinator node

Remote Controller	Description
SER8150R0B1194	Panasonic Net Con, RH, No PIR, R1/R2 (Wired)
SER8150R5B1194	Panasonic Net Con, RH, PIR, R1/R2 (Wired)
Interface	Description
VCM8000V5094P	Panasonic wireless Zigbee Pro Com.card
VCM8000R94BOX *	Panasonic R1/R2 (Wired) to Zigbee adaptor box No Brand
VCM8000V5094G *	Wireless Zigbee Pro / Green Com card

1. VCM8000V5094P : Required in case wired solution connecting with Zigbee Sensors.  
 2. VCM8000V5094G : Required in case wired solution need to do MPM connection.  
 3. As for the products marked with\*, the time of release will be announced later.  
 4. Specifications are subject to change.

Sensor	Description
SED-WMS-P-5045	SED SEN OCC WALL ZP
SED-WDS-P-5045	SED SW DOR/WIN ZP
SED-CMS-P-5045	SED SEN OCC CEIL ZP
SED-CO2-G-5045 *	Wireless Zigbee Green CO2 sensor
Fascia	Description
FAS-00	Silver
FAS-01	White
FAS-03	Translucent White
FAS-05	Light Tan Wood
FAS-06	Brown Wood
FAS-07	Dark Brown Wood
FAS-10	Brushed Steel

## PAC/VRF Smart Connectivity controller external dimensions Room Controller SER8150 - Dimensions & Wiring & 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

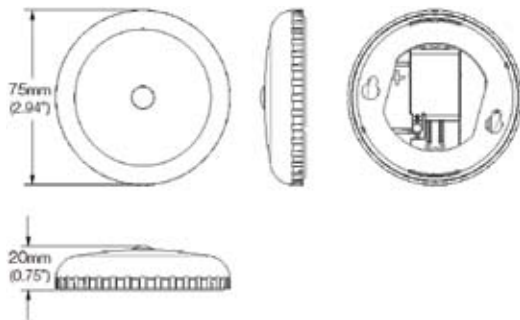
**Humidity Sensor Precision**  
 Reading range from 10 to 90 % R.H. non-condensing 10 to 20% precision: 10%  
 20% to 80% precision: 5%  
 80% to 90% precision: 10%  
**Humidity Sensor Stability**  
 Less than 1.0 % yearly (typical drift)  
**Wiring**  
 Maximum wire length between last indoor unit to SER8150RxB1194 equals 490ft (150m) with AWG #18 wire (0.82 mm<sup>2</sup>). Refer to Panasonic VRF guidelines "Wiring System Diagram for Remote Controller" for this limitation.  
**Approximate Shipping Weight**  
 0.34 kg (0.75 lb)  
**Safety Standards All Models**  
 LVD Directive 2006/95/EC  
 EN 60950-1:2006/A2:2013  
 UL 873 CSA C22.2 No.24-93  
**EMC Standards All Models**  
 EMC Directive 2004/108/EC  
 IEC 61326-1:2005  
 FCC 15 Subpart B  
 ICES-003

**Radio Standards (Wireless Models)**  
 R&TTE Directive 1999/5/EC  
 IEC 61326-1:2005  
 EN 301 489-1 V1.9.2  
 EN 301 328 V1.8.1  
 FCC 15 Subpart C, Class A  
 RSS 210  
 THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.



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

## Ceiling Motion Sensor SED-CMS-P-5045 - Dimensions & Wiring & Specifications



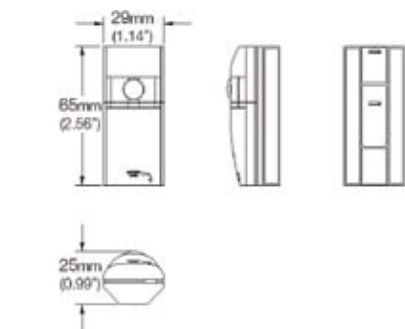
**Dimensions**  
 75mm diameter x 20mm thick (2.94in diameter x 0.75in thick)  
**Colour**  
 White  
**Weight**  
 50g (1.8oz) with batteries  
**Communication**  
 ZigBee, HA1.2 Compatible  
**Communication Range**  
 Up to 40ft (12m), open field 300ft (100m)  
**Detection Range**  
 Maximum: 90 deg cone, 16.5ft (5m)  
 Recommended: 45 deg, 12ft (3.6m)  
**Battery Voltage**  
 1.5VDC Alkaline  
**Battery Cell**  
 2 x AAA (recommended Panasonic LR03XWA)  
**Battery Life**  
 Up to 5 years  
**Ambient Temperature**  
 -10°C to +50 °C (+14 °F to +122 °F)

Certification



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

## Wall Motion Sensor SED-WMS-P-5045 - Dimensions & Wiring & Specifications



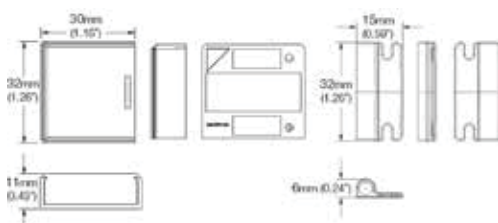
**Dimensions**  
 65mm H x 29mm W x 25mm D (2.56in H x 1.14in W x 0.99in D)  
**Color**  
 White  
**Weight**  
 30g (1.06oz) with battery  
**Communication**  
 ZigBee, HA1.2 Compatible  
**Communication Range**  
 Up to 40ft (12m) open field 300ft (100m)  
**Detection Range**  
 Maximum: 90 deg cone, 16.5ft (5m)  
 Recommended: 47 deg, 16ft (5m)  
**Battery Voltage**  
 3.0VDC Lithium  
**Battery Cell**  
 CR2 (recommended Panasonic CR15H270)  
**Battery Life**  
 Up to 5 years  
**Ambient Temperature**  
 -10°C to +50 °C (+14 °F to +122 °F)

Certification



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

## Door/Window Contact SED-WDS-P-5045 - Dimensions & Wiring & Specifications



**Sensor Dimensions**  
 32mm wide x 30mm high x 11mm thick (1.26in wide x 1.16in high x 0.43in thick)  
**Magnet Dimensions**  
 15mm wide x 32mm high x 6mm thick (0.59" wide x 1.26" high x 0.24" thick)  
**Color**  
 White  
**Weight**  
 11g (0.38oz) with battery  
**Communication**  
 ZigBee, HA1.2 Compatible  
**Communication Range**  
 Up to 40ft (12m) open field 300ft (100m)  
**Battery Voltage**  
 3.0VDC Lithium  
**Battery Cell**  
 CR2032 (recommended Panasonic CR2032)  
**Battery Life**  
 Up to 5 years  
**Ambient Temperature**  
 -10°C to +50 °C (+14 °F to +122 °F)

Certification



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

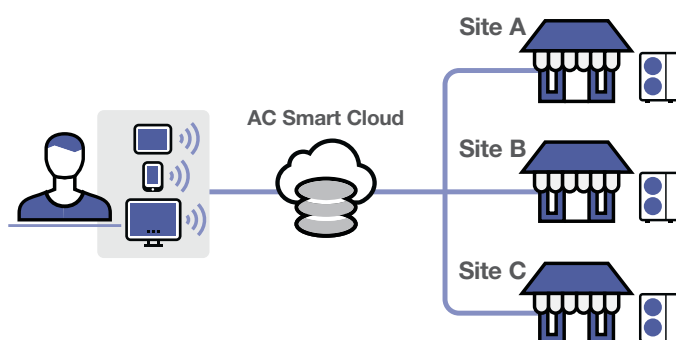
\*Except for products for small sized project (Ultra Slim Ducted, Bulkhead Ducted, 4-way Mini Cassette)

# Panasonic AC Smart Cloud

The new Panasonic AC Smart Cloud system allows you to have complete control of all your installations. With a simple click, all your units from several locations, receive status updates in real-time reducing the chance of breakdowns and optimising costs.

## What is AC Smart Cloud?

Using a cloud computing system, AC Smart Cloud lets you monitor and manage the energy consumption of multiple locations from anywhere, anytime.



AC Smart Cloud is suitable for various facilities



Retail



School



Hotel



Hospital

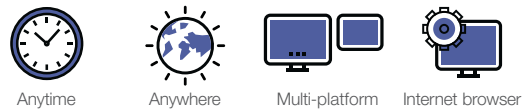


## Flexible and Scalable Solution

- Energy monitoring
- Anytime, Anywhere
- Site(s) management

Centralise control of your business premises, from wherever you are, 24/7/365. It doesn't matter how many sites you have, or where they are! The AC Smart Cloud system from Panasonic allows you to have complete control of all your installations, from your tablet or your computer. In a simple click, receive status updates in real-time of all your installations, preventing breakdowns and optimising costs.

### Flexible solution for your business.



### Scalable solution for your business.



\* Customised to meet user demand / Upgraded new functions / Upgraded by new products / IT smart management.

## Key Functions and Uniqueness

### Multi site monitoring.

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



### Powerful statistics for energy savings.

- Power consumption, capacity, efficiency level can be compared according to variable parameters (Yearly / monthly / weekly/ daily bases)



### Schedule setting.

- Weekly / holiday timer setting as you want
- One setting can be copied to other sites



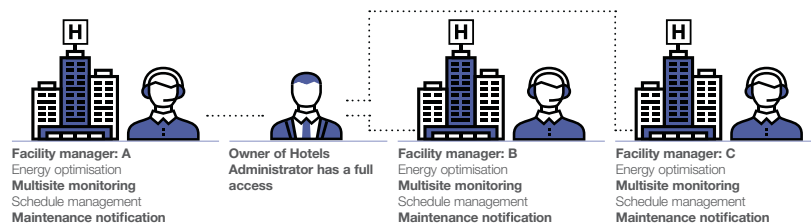
### Maintenance notification.

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



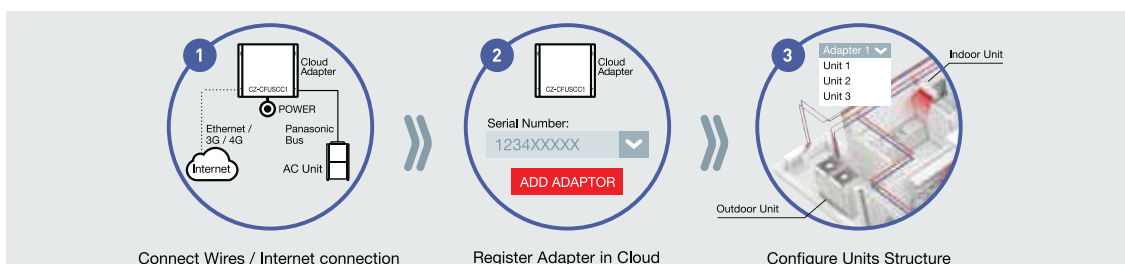
### User customisation.

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



## 3 Steps to Set Up AC Smart Cloud




Panasonic AC Smart Cloud is very easy to install on existing and new installations. The communication adaptor (CZ-CFUSCC1) is connected to the Panasonic bus and the Ethernet. Then in only 3 steps, the cloud system is running.












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

# Controllers

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

OPERATION SYSTEM	INDIVIDUAL CONTROL SYSTEMS		
Requirements	Advanced operation	Normal operation	Operation from anywhere in the room
External appearance			
Type, model name	Deluxe Wired Remote Controller CZ-RTC5B	Timer Remote Controller (Wired) CZ-RTC4	Wireless Remote Controller CZ-RWSU3 CZ-RWST3N CZ-RWSK2 + CZ-RWSC3
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
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.
Function ON/OFF	●	●	●
Mode setting	●	●	●
Fan speed setting	●	●	●
Temperature setting	●	●	●
Air flow direction	●	●	●
Permit/Prohibit switching	●	—	—
Weekly program	●	●	—

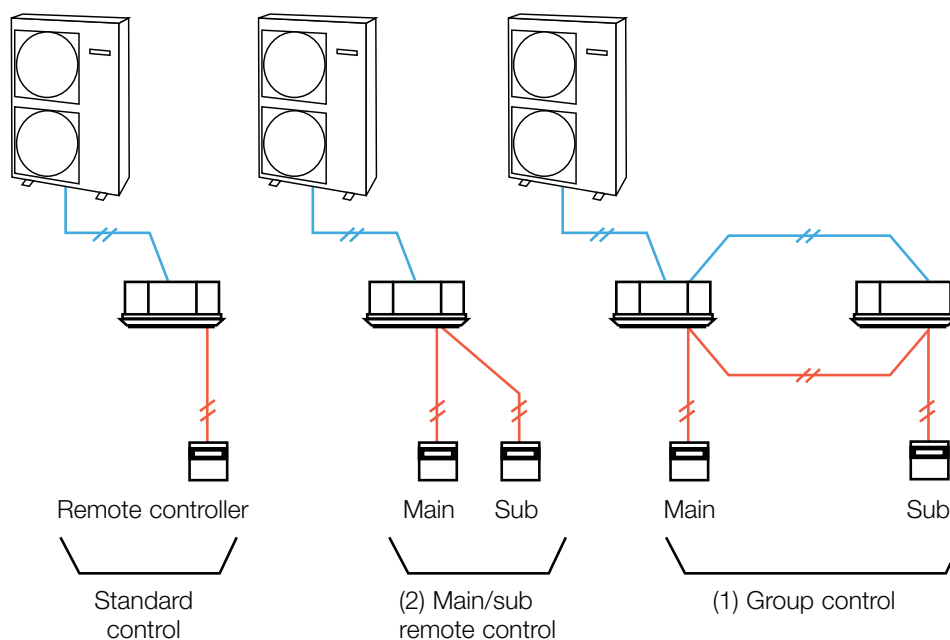
1. Setting is not possible when a remote control unit is present. (Use the remote controller for setting.)  
All specifications subject to change without notice.

CENTRALISED CONTROL SYSTEMS				
Normal operation	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
			Touch screen panel	
		<b>NEW</b> 		Seri-Para I/O unit for outdoor unit  CZ-CAPDC2
Wired Remote Controller	System Controller	ON/OFF Controller	Intelligent Controller	Interface adaptor <b>NEW</b>  CZ-CAPC3
CZ-RD52CP	CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	
—	—	—	—	
—	●	—	●	Seri-Para I/O unit for each indoor unit  CZ-CAPBC2
1	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 4 links, max. 256 units	
· Only 1 controller for 1 indoor unit.	· 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.	Communication Adaptor  CZ-CFUNC2
●	●	●	●	LonWorks Interface  CZ-CLNC2
●	●	—	●	
●	●	—	●	
●	●	—	●	
●	● <sup>1</sup>	—	● <sup>1</sup>	
—	●	●	●	
—	●	—	●	

## Individual Control Systems

Control contents	Part name, model No.	Quantity
<p>Standard Control</p> <ul style="list-style-type: none"> <li>Control of the various operations of the indoor unit by wired or wireless remote controller.</li> <li>Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller.</li> <li>Switching between remote controller sensor and body sensor is possible.</li> </ul>	<p>Wired remoted controller CZ-RTC4 / CZ-RTC5B</p> <p>Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</p>	1 unit each
<p>(1) Group control</p> <ul style="list-style-type: none"> <li>Batch remote control on all indoor units.</li> <li>Operation of all indoor cells in the same mode.</li> <li>Up to 8 units can be connected.</li> <li>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.</li> </ul>	<p>Wired remoted controller CZ-RTC4 / CZ-RTC5B</p> <p>Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</p>	As required
<p>(2) Main/sub remote control</p> <ul style="list-style-type: none"> <li>Max 2 remote controllers per indoor unit. (Main remote controller can be connected)</li> <li>The button pressed last has priority.</li> <li>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.</li> </ul>	<p>Main or sub Wired remoted controller CZ-RTC4 / CZ-RTC5B</p> <p>Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</p>	As required

### SYSTEM EXAMPLE



## Deluxe wired remote controller (CZ-RTC5B)



Dimensions  
H 120 x W 120 x  
D 16mm

### 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

### 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

### 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

## Timer remote controller (CZ-RTC4)



Dimensions  
H 120 x W 120 x D 20mm

### 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.

### Basic remote controller ON/OFF

- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
- Temperature setting (Cooling/Dry: 18-30° Heating: 16-30°).
- Fan speed setting H/ M/ L and Auto.
- Air flow direction adjustment.
- ECONAVI on/ off\*

### Time Function 24 hours real time clock

- Day of the week indicator.

## Wireless remote controller



For 4-Way cassette type  
CZ-RWSU3

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-RWSC3+CZ-RWSK2 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.



For all Ducted types  
CZ-RWSC3  
+CZ-RWSK2

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 under ceiling type  
CZ-RWST3N

## Wired remote controller (CZ-RD52CP)



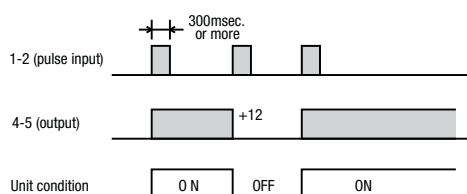
# T10 Terminal for External Control (Digital Connection)

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.



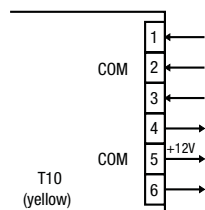
## 1. T10 Terminal Specification (T10:CN061 at indoor unit PCB)

- 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

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

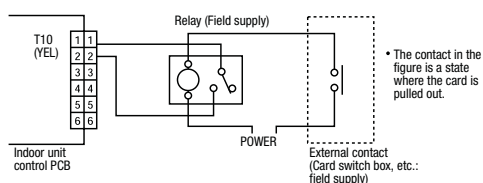
## 2. Usage Example

### 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



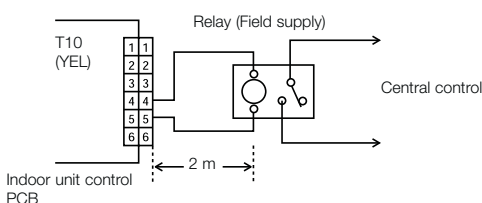
NOTE: The wire length from indoor unit to the Relay must be within 2.0m

### 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)

# ECONAVI

## 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.



ECONAVI Sensor  
**CZ-CENSC1**

Applicable to all 5-types of indoor units\*

\* Except 18.0 - 22.4kW models



4-way Cassette



Under Ceiling



Mid Static Duct



High Static Duct



Wall Mounted

## 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 any where 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.

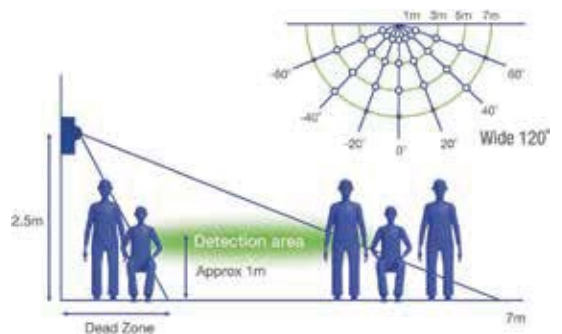


**In the afternoon**  
Thorough cooling when there is a high level of activity.



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

### Wide detection area



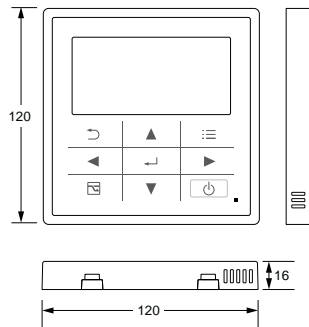
A sensor is remotely set to maximise the detection area.

Installation flexibility for indoor unit layout changes.

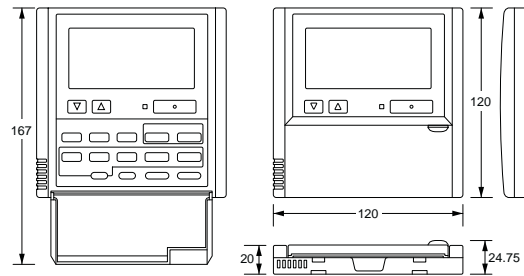


# Remote Controller External Dimensions

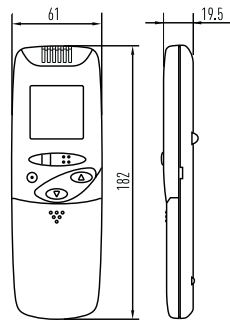
DELUXE WIRED  
REMOTE CONTROLLER  
(CZ-RTC5B)



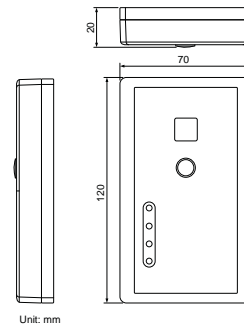
TIMER REMOTE  
CONTROLLER  
(CZ-RTC4)



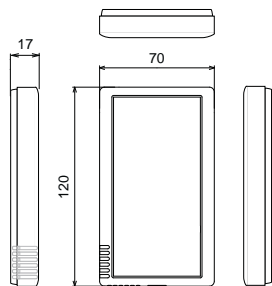
WIRELESS REMOTE  
CONTROLLER



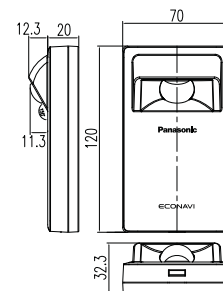
SEPARATE RECEIVER FOR  
WIRELESS REMOTE CONTROLLER  
(CZ-RWSC3)



REMOTE SENSOR  
(CZ-CSRC3)

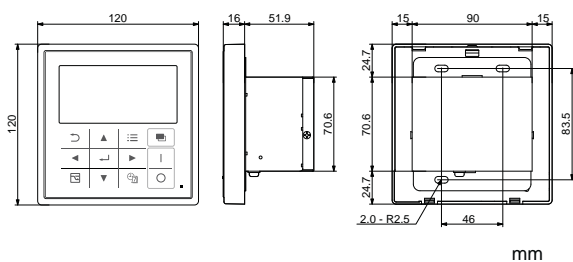


ECONAVI SENSOR  
(CZ-CENSC1)

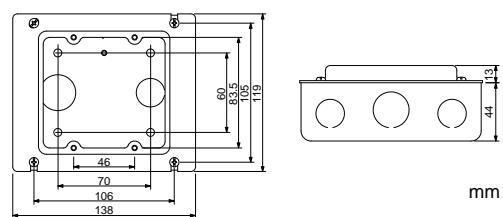


SYSTEM CONTROLLER  
(CZ-64ESMC3)

**System Controller**

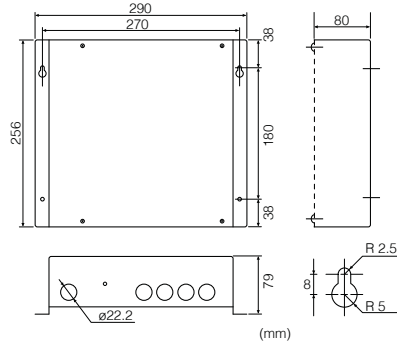


**Switch Box**

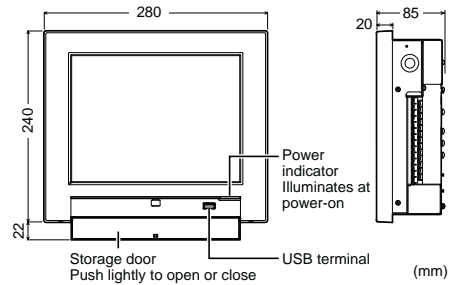


# Remote Controller External Dimensions

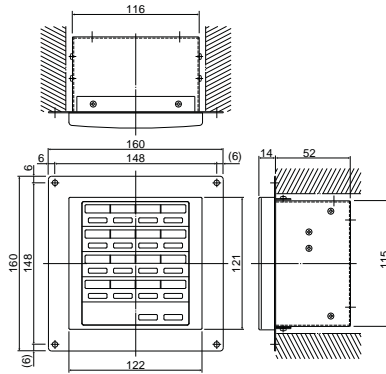
COMMUNICATION ADAPTOR  
(CZ-CFUNC2)



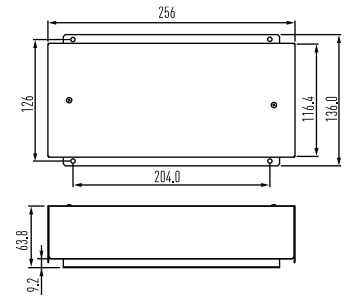
INTELLIGENT CONTROLLER  
(CZ-256ESMC3)



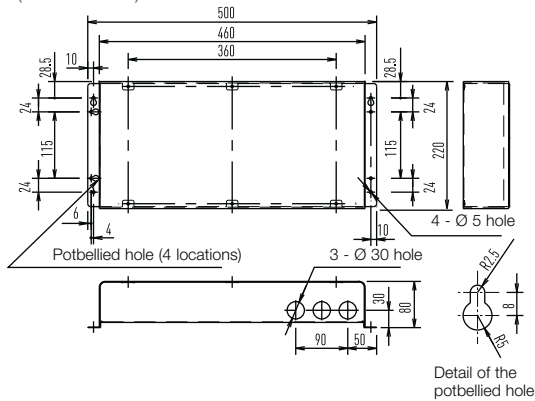
ON/OFF CONTROLLER  
(CZ-ANC3)



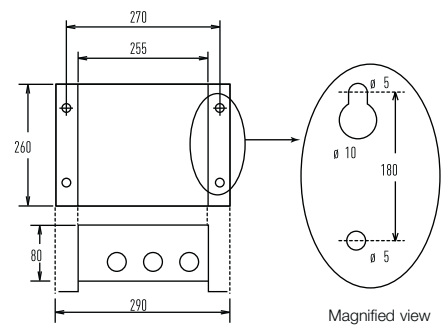
SERI-PARA I/O UNIT FOR EACH INDOOR UNIT  
(CZ-CAPBC2)



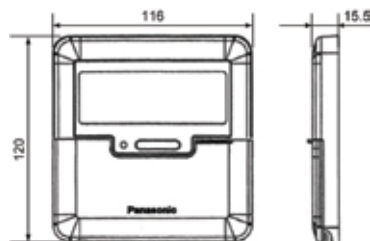
LONWORKS INTERFACE  
(CZ-CLNC2)

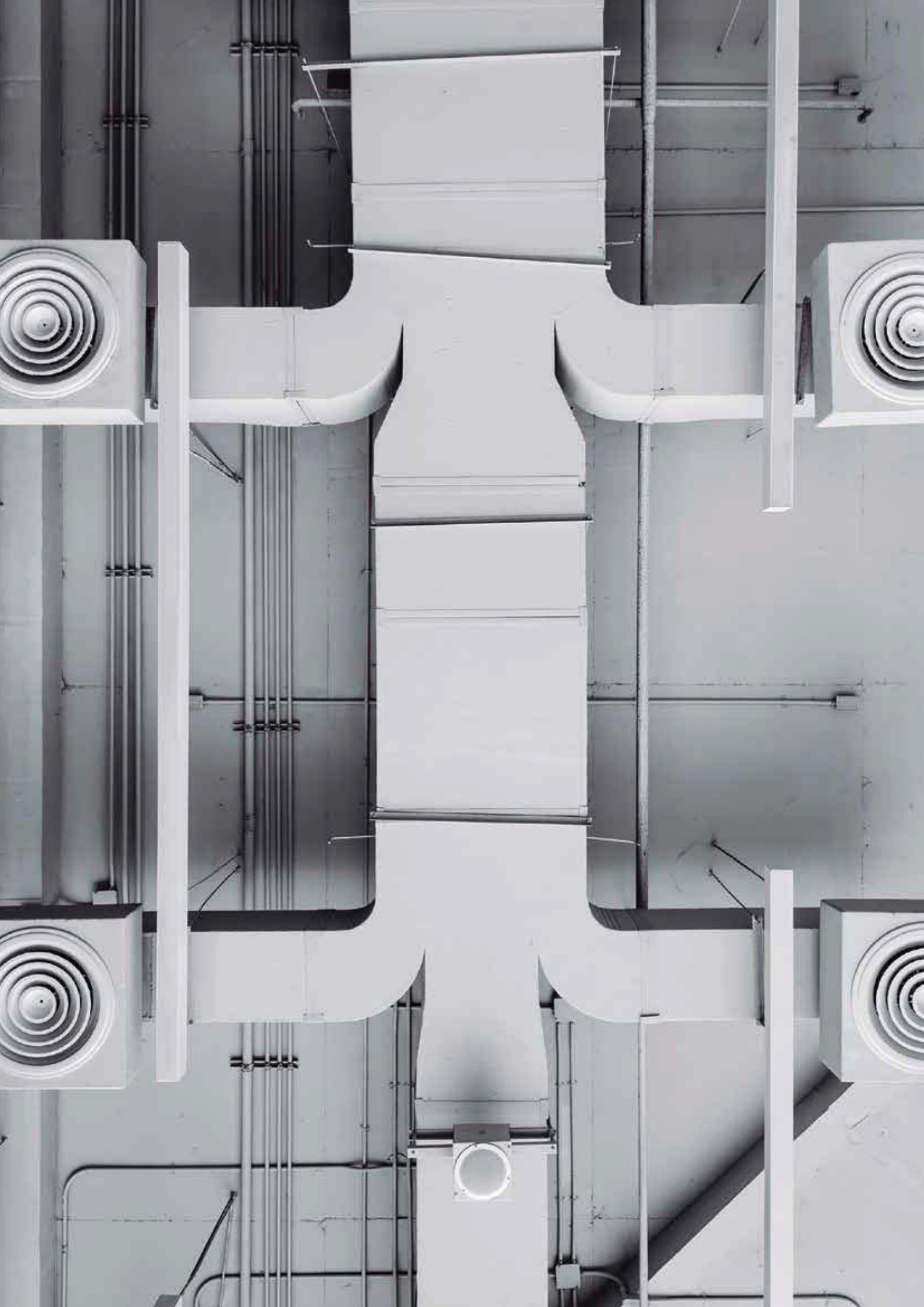


SERI-PARA I/O UNIT FOR OUTDOOR UNIT  
(CZ-CAPDC2)



WIRED REMOTE CONTROLLER  
FOR RESIDENTIAL MODEL  
(CZ-RD52CP)





# Panasonic

A Better Life. A Better World

- 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 July 2018.
- 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.

Authorised Dealer

18PAC0701

Panasonic Australia Pty. Limited.

Address: 1 Innovation Road, Macquarie Park, NSW 2113  
ACN 001 592 187 ABN 83 001 592 187

[www.panasonic.com.au](http://www.panasonic.com.au)



**Panasonic**  
Air Conditioning