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

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## Product Line-up

### Indoor Unit
- **For Small Sized Project**
  - **Ultra Slim Ducted**
    - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
    - Outdoor Unit: R410A Model
    - Indoor Unit: R410A Deluxe Model

- **Bulkhead Ducted**
  - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
  - Outdoor Unit: R410A Model
  - Indoor Unit: R410A Deluxe Model

- **Mini Cassette**
  - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
  - Outdoor Unit: R410A Model
  - Indoor Unit: R410A Deluxe Model

### Outdoor Unit
- **Ultra Slim Ducted**
  - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
  - R410A Deluxe Model

- **Bulkhead Ducted**
  - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
  - R32 Compact Model

- **Mini Cassette**
  - Cooling Capacity: 2.5/2.6 kW, 3.4/3.7 kW, 4.8/5.0 kW
  - R32 Compact Model
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.

R32 Refrigerant
R410A

Inverter
DREX ready

MEPS Compliant

<table>
<thead>
<tr>
<th>Compact Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>6.0/7.1kW Model</th>
<th>10.0 – 14.0kW Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Model</td>
<td>Conventional Model</td>
</tr>
<tr>
<td>Height 996mm</td>
<td>Height 1,416mm</td>
</tr>
<tr>
<td>Weight 68kg</td>
<td>Weight 98kg</td>
</tr>
<tr>
<td>301mm Shorter</td>
<td>420mm Shorter</td>
</tr>
<tr>
<td>24kg Lighter</td>
<td>8kg Lighter</td>
</tr>
</tbody>
</table>

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

* Comparison between U-100PZ2R5 and U-100PE1R5A
Precise Temperature Control

Constant Comfort Air Conditioning

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 model's 10.0kW Inverter High Static Pressure Ducted systems performance range during cooling.

Energy Saving Technology

High EER and COP Value

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
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
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
Quiet mode reduces outdoor operating sound by 2dB. External input signal is also available.
* 14.0kW or smaller capacity unit

Demand Response Compliant
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.

Outdoor Unit Dimensions
R32 Compact Model Dimensions (6.0kW – 7.1kW)
R32 Compact Model Dimensions (10.0kW – 14.0kW)

- Mounting hole (4-R6.5), anchor bolt: M10
- Refrigerant tubing (liquid tube), flared connection (ø12.7)
- Refrigerant tubing (gas tube), flared connection (ø19.05)
- Refrigerant tubing port
- Electrical wiring port (ø13)
- Electrical wiring port (ø22)
- Electrical wiring port (ø27)
- Electrical wiring port (ø35)
- 4×Ø32 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 Deluxe 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)

* (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 (brazeing), and connect as follows.

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)

4×Ø32 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.

Outdoor Unit Features
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.

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**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.

<table>
<thead>
<tr>
<th>Previous Model</th>
<th>1,200 l/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Model</td>
<td>1,400* l/s</td>
</tr>
</tbody>
</table>

* 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 Keyholes 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.

Greater Performance

1,200 l/s
1,400 l/s

* Comparison between S-224PE3R5 and S-224PE2R5B
Indoor Unit

High Static Pressure

Splittable Ducted

High static and large airflow ducted for exceptional installation flexibility.

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

18.0kW

- Refrigerant at shipping, Additional gas: 68,200 (19,100-76,400)
- EER : COP W/W: 3.02 : 3.53 | 3.02: 3.53
- Net weight kg: 85
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24
- Refrigerant at shipping, Additional gas: 68,200 (21,500-85,300)
- EER : COP W/W: 3.00 : 3.52 | 3.00 : 3.52
- Net weight kg: 88
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24

20.0kW

- Refrigerant at shipping, Additional gas: 76,400 (24,200-95,500)
- EER : COP W/W: 3.12 : 3.61 | 3.12 : 3.61
- Net weight kg: 86
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24

22.4kW

- Refrigerant at shipping, Additional gas: 76,400 (24,200-95,500)
- EER : COP W/W: 3.00 : 3.52 | 3.00 : 3.52
- Net weight kg: 88
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24

22.4kW

- Refrigerant at shipping, Additional gas: 85,300 (24200-95,500)
- EER : COP W/W: 3.12 : 3.61 | 3.12 : 3.61
- Net weight kg: 88
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24

22.4kW

- Refrigerant at shipping, Additional gas: 76,400 (21,500-85,300)
- EER : COP W/W: 3.00 : 3.52 | 3.00 : 3.52
- Net weight kg: 88
- Case H × W × D mm: 434 x 1,178 x 360
- Fan H × W × D mm: 377 x 1,150 x 427
- Dimensions H × W × D mm: 1500 x 980 x 370
- Elevation difference (OU located lower, OU located higher) m: 30, 30
- Operation ranges Cooling : Heating ˚C: -15 to 46 : -20 to 24
### Specifications of R410A Deluxe Model

<table>
<thead>
<tr>
<th>Capacity</th>
<th>18.0kW</th>
<th>20.0kW</th>
<th>22.4kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>Indoor Unit</td>
<td>Outdoor Unit</td>
<td>Indoor Unit</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>S-180PE3R5</td>
<td>U-180PE2R8A</td>
<td>S-200PE3R5</td>
</tr>
<tr>
<td><strong>Cooling capacity (kW)</strong></td>
<td>18.0 (6.4-20.0)</td>
<td>20.0 (6.3-22.4)</td>
<td>22.4 (6.3-24.0)</td>
</tr>
<tr>
<td><strong>Heating capacity (BTU/h)</strong></td>
<td>61,400 (18,400-86,200)</td>
<td>68,200 (21,500-76,400)</td>
<td>76,400 (24,200-85,300)</td>
</tr>
<tr>
<td><strong>Self-diagnosing function</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Automatic fan operation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mild dry restart function</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DC motor</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>Phase/Hz</td>
<td>3 Phase/ 50Hz</td>
<td>3 Phase/ 50Hz</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>230V</td>
<td>240V</td>
<td>230V</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>Cooling : Heating</td>
<td>1.10 : 0.30</td>
<td>3.30 : 3.00</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>H x W x D</td>
<td>986 x 1,456 x 916</td>
<td>986 x 1,456 x 916</td>
</tr>
<tr>
<td><strong>Heat exchanger</strong></td>
<td>H x W x D</td>
<td>986 x 1,456 x 558</td>
<td>986 x 1,456 x 558</td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td>H x W x D</td>
<td>1,987 x 1,150 x 427</td>
<td>1,987 x 1,150 x 427</td>
</tr>
<tr>
<td><strong>Case</strong></td>
<td>H x W x D</td>
<td>1,178 x 1,150 x 427</td>
<td>1,178 x 1,150 x 427</td>
</tr>
<tr>
<td><strong>Net weight (kg)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air volume</strong></td>
<td>Cooling : Heating</td>
<td>L/s</td>
<td>1,200 : 1,050</td>
</tr>
<tr>
<td><strong>External static pressure</strong></td>
<td>Pa</td>
<td>60 (Max.150)</td>
<td>75 (Max.180)</td>
</tr>
<tr>
<td><strong>Sound pressure level</strong> (dB(A))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sound power level</strong> (dB(A))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of fan speeds</strong></td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Drain pipe size (mm)</strong></td>
<td>VP-25</td>
<td>VP-25</td>
<td>VP-25</td>
</tr>
<tr>
<td><strong>Outdoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>Phase/Hz</td>
<td>3 Phase/ 50Hz</td>
<td>3 Phase/ 50Hz</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>400V</td>
<td>415V</td>
<td>400V</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>Cooling : Heating</td>
<td>5.35 : 4.85</td>
<td>8.65 : 8.20</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>H x W x D</td>
<td>1,500 x 370</td>
<td>1,500 x 370</td>
</tr>
<tr>
<td><strong>Net weight (kg)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air volume</strong></td>
<td>Cooling : Heating</td>
<td>L/s</td>
<td>2,733 : 2,733</td>
</tr>
<tr>
<td><strong>Sound pressure level</strong> (dB(A))</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sound power level</strong> (dB(A))</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

**Notes:**
- DC Motor
- In case of S-224PE3R5
System Example

Compact Body Size

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

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

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

Cold Drafts Reduced During Heating Operation

360 mm (S-71PE1R5B, S-100PER5B)
290 mm (S-60PE1R5B)

Air intake sensor E2 sensor E1 sensor

ECONAVI ready

High static and large airflow ducted for exceptional installation flexibility.

High Static Pressure Ducted Indoor Unit

Self-diagnosing Function

Automatic Fan Operation

Mild dry Automatic Restart Function

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.

Compact Body Size

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

Cold Drafts Reduced During Heating Operation

- Accurate temperature measurement by E1/E2 sensor to reduce cold drafts during heating operation.
### Specifications of R32 Compact Model

#### Capacity (6.0kW – 10.0kW)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S-60PE1R5B</td>
<td>U-60P2Z2R5</td>
</tr>
<tr>
<td></td>
<td>S-71PE1R5B</td>
<td>U-71P2Z2R5</td>
</tr>
<tr>
<td></td>
<td>S-100PE1R5B</td>
<td>U-100P2Z2R5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling capacity : Heating</td>
<td>8.0 (2.0 - 7.1)</td>
<td>8.0 (1.8 - 7.6)</td>
<td>10.5 (3.0 - 11.5)</td>
</tr>
<tr>
<td>BTU/h</td>
<td>20,500 (8,800 - 24,200)</td>
<td>24,200 (8,800 - 27,300)</td>
<td>34,100 (10,200 - 39,200)</td>
</tr>
<tr>
<td>EER / COP</td>
<td>4.23 / 3.92</td>
<td>4.23 / 3.92</td>
<td>4.23 / 3.92</td>
</tr>
<tr>
<td>Total power input</td>
<td>1.96 / 1.53</td>
<td>2.23 / 1.75</td>
<td>3.00 / 2.57</td>
</tr>
</tbody>
</table>

#### Indoor Unit

<table>
<thead>
<tr>
<th>Parameter</th>
<th>1 Phase/50Hz</th>
<th>1 Phase/50Hz</th>
<th>1 Phase/50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>230V</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Current</td>
<td>1.40 / 1.24</td>
<td>1.25 / 1.25</td>
<td>1.74 / 1.74</td>
</tr>
<tr>
<td>Dimensions</td>
<td>290 x 1,100</td>
<td>360 x 1,100</td>
<td>360 x 1,100</td>
</tr>
<tr>
<td>Net weight</td>
<td>35</td>
<td>42</td>
<td>44</td>
</tr>
<tr>
<td>Air volume</td>
<td>366 / 300</td>
<td>500 / 500</td>
<td>666 / 666</td>
</tr>
<tr>
<td>External static pressure</td>
<td>70 (10 - 100)</td>
<td>100 (10 - 150)</td>
<td>100 (10 - 150)</td>
</tr>
<tr>
<td>Sound power level (H/M/L)</td>
<td>43 / 41 / 40</td>
<td>45 / 44 / 43</td>
<td>48 / 46 / 44</td>
</tr>
<tr>
<td>Sound pressure level (H/M/L)</td>
<td>43 / 41 / 40</td>
<td>45 / 44 / 43</td>
<td>48 / 46 / 44</td>
</tr>
<tr>
<td>Number of fan speeds</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drain pipe size</td>
<td>VP-25</td>
<td>VP-25</td>
<td>VP-25</td>
</tr>
</tbody>
</table>

#### Outdoor Unit

<table>
<thead>
<tr>
<th>Parameter</th>
<th>1 Phase/50Hz</th>
<th>1 Phase/50Hz</th>
<th>1 Phase/50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>230V</td>
<td>230V</td>
<td>230V</td>
</tr>
<tr>
<td>Current</td>
<td>1.40 / 1.24</td>
<td>1.25 / 1.25</td>
<td>1.74 / 1.74</td>
</tr>
<tr>
<td>Dimensions</td>
<td>360 x 1,100</td>
<td>360 x 1,100</td>
<td>360 x 1,100</td>
</tr>
<tr>
<td>Net weight</td>
<td>44</td>
<td>44</td>
<td>44</td>
</tr>
<tr>
<td>Air volume</td>
<td>366 / 300</td>
<td>500 / 500</td>
<td>666 / 666</td>
</tr>
<tr>
<td>External static pressure</td>
<td>70 (10 - 100)</td>
<td>100 (10 - 150)</td>
<td>100 (10 - 150)</td>
</tr>
<tr>
<td>Sound power level (H/M/L)</td>
<td>43 / 41 / 40</td>
<td>45 / 44 / 43</td>
<td>48 / 46 / 44</td>
</tr>
<tr>
<td>Sound pressure level (H/M/L)</td>
<td>43 / 41 / 40</td>
<td>45 / 44 / 43</td>
<td>48 / 46 / 44</td>
</tr>
<tr>
<td>Number of fan speeds</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drain pipe size</td>
<td>VP-25</td>
<td>VP-25</td>
<td>VP-25</td>
</tr>
</tbody>
</table>

### HIGH STATIC PRESSURE DUCTED

#### Dimensions (6.0kW – 16.0kW)

![Diagram of dimensions](image)

- **2 Gas side** (O.D ø15.88 FLARE, ø19.05 FLARE*)
- **3 Drain pipe size** (O.D ø25)
- **1 Liquid side** (O.D ø6.35 FLARE)

#### Table (Dimensions)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-60PE1R5B</td>
<td>130</td>
<td>230</td>
<td>290</td>
<td>118</td>
</tr>
<tr>
<td>S-71PE1R5B</td>
<td>195</td>
<td>357</td>
<td>360</td>
<td>50</td>
</tr>
<tr>
<td>S-100PE1R5B</td>
<td>260</td>
<td>382</td>
<td>430</td>
<td>121.5</td>
</tr>
</tbody>
</table>

---

**Note:**
- *Only for 10.0kW*
### Dimensions (6.0kW – 16.0kW)

**HIGH STATIC PRESSURE DUCTED**

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling</th>
<th>Heating</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-100PE1R5B</td>
<td>10.0 (3.0 - 11.0)</td>
<td>15.0 (3.0 - 14.0)</td>
</tr>
<tr>
<td>S-125PE1R5B</td>
<td>12.5 (3.2 - 13.5)</td>
<td>15.0 (3.2 - 15.0)</td>
</tr>
<tr>
<td>S-140PE1R5B</td>
<td>14.0 (3.3 - 15.0)</td>
<td>14.0 (3.3 - 16.0)</td>
</tr>
<tr>
<td>S-160PE1R5A</td>
<td>14.0 (3.3 - 16.0)</td>
<td>14.0 (3.3 - 16.0)</td>
</tr>
</tbody>
</table>

#### Sound pressure level (Silent mode)

- **Cooling**: 46 (44) dB(A)
- **Heating**: 48 (46) dB(A)

#### Capacity

- **6.0kW**: 3.33 | 3.44 | 3.89
- **7.1kW**: 3.30 | 4.00 | 4.00
- **10.0kW**: 3.30 | 4.00 | 4.00

#### Piping connections

- **Liquid/Gas**: m Ø9.52 / Ø15.88

#### Pipe length min. - max.

- **3 - 40 m**

#### EER : COP W/W

- **3.23 : 3.92**
- **3.18 : 4.06**
- **3.33 : 3.89**

#### Elevation difference (OU located lower, OU located higher)

- **15, 30 m**

#### Maximum chargeless length

- **30 m**

#### Refrigerant at shipping, Additional gas amount g

- **R32, 1,450, 35 (g/m)**
- **R32, 2,600, 45 (g/m)**

#### Operation ranges

- **Cooling**: -10 to 43°C
- **Heating**: -15 to 24°C

#### Air volume

- **Cooling**: 366 L/s
- **Heating**: 500 L/s

#### Sound power level (H/M/L)

- **Cooling**: 60 / 58 / 57 dB(A)
- **Heating**: 62 / 61 / 60 dB(A)

#### Number of fan speeds

- **3**

#### Drain pipe size mm

- **VP-25**

#### Power source

- **Phase/Hz**: 1 Phase/ 50Hz

#### Current

- **Cooling**: 8.05 A
- **Heating**: 9.35 A

#### Dimensions H × W × D mm

- **290×1,100 (+100)×700**
- **360×1,100 (+100)×700**
- **360×1,100 (+100)×700**

#### Net weight kg

- **35 kg**
- **42 kg**
- **44 kg**

#### Electrical component box

- **1070**

### Indoor Unit

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

#### BTU/h

- **20,500 (6,800 - 24,200)**

#### V

- **230V | 240V**

#### 6.0 (1.8 - 7.6)

#### 260 38.2 430 121.5

#### 195 35.7 360 50

#### 130 33.1 290 118

#### 3.00 : 2.57 3.79 : 3.125 3.79 : 3.125 4.44 : 3.825 4.44 : 3.825

#### 48 48 48 53 53

#### 1,285 : 1,169 1,436 : 1,302 1,436 : 1,302 1,486 : 1,386 1,486 : 1,386

#### 5 - 50 5 - 50 5 - 50 5 - 50 5 - 50
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.

Technical focus

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

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

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.

ECONAVI ready

* Please refer to technical documents for detail.
Control all aspects of your environment with exceptional performance and quiet operation. A perfect solution when ceiling heights are restricted.

- S-100PF1E5B
- S-125PF1E5B
- S-140PF1E5B
- S-60PF1E5B
- S-71PF1E5B

**System example**

- Up to 300mm
- Up to 500mm
- 202mm

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

Using a high-lift built-in drain pump, drain piping can be elevated up to 702mm from the base of the unit. Optimal airflow set-up is possible for different ducting design and conditions. An inspection port (450 mm x 450mm or larger) is required at the lower side of the indoor unit body.

**Rectangle duct Canvas duct**

- Intake grille Inspection port (450 x 450mm or more)

**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.

**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.

**External electrical equipment box makes maintenance easy**

- Built-in filter
- Side removable filter

**Technical focus**

- More powerful drain pump
- Variable external static pressure control

For short ducting such as hotels
For long ducting or for usage with high density filter

**Optimal Control by DC Motor**

- 10Pa 150Pa

*Please refer to technical documents for detail.*

**Self-diagnosing Function**

- Automatic Fan Operation
- Mild dry Automatic Restart Function
- Built-in Drain Pump DC motor

**CZ-CENSC1 CZ-RTC5B CZ-RTC4**

**Mid Static Pressure Ducted Indoor Unit**

**ECONAVI ready**

**ECONAVI ready**

**Mid Static Pressure Ducted**
### Specifications of R32 Compact Model

<table>
<thead>
<tr>
<th>Capacity</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>Indoor Unit</td>
<td>S-60PF1E5B</td>
<td>S-71PF1E5B</td>
</tr>
<tr>
<td><strong>Outdoor Unit</strong></td>
<td>U-60PZ2R5</td>
<td>U-71PZ2R5</td>
<td>U-100PZ2R5</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kW</td>
<td>6.0 (2.0 - 7.1)</td>
<td>7.1 (2.0 - 8.0)</td>
</tr>
<tr>
<td><strong>Heating capacity</strong></td>
<td>BTU/h</td>
<td>20,500 (8,800 - 24,200)</td>
<td>24,200 (8,800 - 27,300)</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td>W</td>
<td>1,189</td>
<td>1,285</td>
</tr>
<tr>
<td><strong>Outdoor Unit</strong></td>
<td>U-125PZ2R5</td>
<td>U-125PZ2R8</td>
<td>U-140PZ2R5</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kW</td>
<td>6.0 (2.0 - 7.1)</td>
<td>7.1 (2.0 - 8.0)</td>
</tr>
<tr>
<td><strong>Heating capacity</strong></td>
<td>BTU/h</td>
<td>20,500 (8,800 - 24,200)</td>
<td>24,200 (8,800 - 27,300)</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td>W</td>
<td>1,189</td>
<td>1,285</td>
</tr>
</tbody>
</table>

### 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. 32mm)
4. Bottom drain port VP25 (O.D. 32mm)
5. Suspension lug (4-12 × 30 mm)
6. Power supply outlet
7. Fresh air intake port (Ø150 mm)
8. Flange for Flexible Air outlet duct
9. Electrical component box

---

**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. 32mm)
4. Bottom drain port VP25 (O.D. 32mm)
5. Suspension lug (4-12 × 30 mm)
6. Power supply outlet
7. Fresh air intake port (Ø150 mm)
8. Flange for Flexible Air outlet duct
9. Electrical component box
### Dimensions (10.0kW – 14.0kW)

1. Refrigerating piping joint (liquid tube) Ø9.52 Flare
2. Refrigerating piping joint (gas tube) Ø15.88 Flare
3. Upper drain port VP-25 (O.D. Ø32 mm)
4. Bottom drain port VP-25 (O.D. Ø32 mm)
5. Suspension lug (4-12 × 30 mm)
6. Power supply outlet
7. Fresh air intake port (Ø150 mm)
8. Flange for flexible air outlet duct
9. Electrical component box

---

### Refrigerant Specification

- **S-100PF1E5B**
  - Refrigerant: R32
  - Amount: 1,450 g/m

- **S-125PF1E5B**
  - Refrigerant: R32
  - Amount: 1,450 g/m

- **S-140PF1E5B**
  - Refrigerant: R32
  - Amount: 2,600 g/m

### Current and Net Weight

<table>
<thead>
<tr>
<th></th>
<th>12.0kW</th>
<th>14.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current (A)</td>
<td>7.05</td>
<td>9.35</td>
</tr>
<tr>
<td>Net Weight (kg)</td>
<td>44</td>
<td>90</td>
</tr>
<tr>
<td><strong>Heating</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current (A)</td>
<td>5.85</td>
<td>7.70</td>
</tr>
<tr>
<td>Net Weight (kg)</td>
<td>44</td>
<td>94</td>
</tr>
</tbody>
</table>

### Outdoor Unit

- **Drain piping**: VP-25
- **Number of fan speeds**: 3
- **Sound power level (H/M/L)**: 57 / 54 / 48 dB(A)
- **External static pressure**: 70 Pa (10 - 150)
- **Air volume**: 350 L/s
- **Net weight**: 35 kg

### Indoor Unit

- **Total power input (kW)**: 1.58
- **Heating capacity**: 6.0 (2.0 - 7.1)
- **Cooling capacity**: 7.1 (2.0 - 8.0)
- **Dimensions (6.0kW – 7.1kW)**
  - **Unit size**: 290 × 1,400 × 700 mm
  - **Total power input (kW)**: 2.08
  - **Heating capacity**: 7.1 (2.0 - 8.0)
  - **Cooling capacity**: 8.6 (2.0 - 10.0)
- **Model Name**: S-60PF1E5B, S-71PF1E5B, S-100PF1E5B

---

### Piping Connections

- **Liquid / Gas**: Ø9.52 / Ø15.88 mm

---

### Mid Static Pressure Ducted

<table>
<thead>
<tr>
<th></th>
<th>12.0kW</th>
<th>14.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current (A)</td>
<td>7.05</td>
<td>9.35</td>
</tr>
<tr>
<td>Net Weight (kg)</td>
<td>44</td>
<td>90</td>
</tr>
<tr>
<td><strong>Heating</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current (A)</td>
<td>5.85</td>
<td>7.70</td>
</tr>
<tr>
<td>Net Weight (kg)</td>
<td>44</td>
<td>94</td>
</tr>
</tbody>
</table>

---

### Dimensions (10.0kW – 14.0kW)

- **Unit size**: 290 × 1,400 × 700 mm
- **Total power input (kW)**: 2.08
- **Heating capacity**: 7.1 (2.0 - 8.0)
- **Cooling capacity**: 8.6 (2.0 - 10.0)

---

### Model Name

- **S-60PF1E5B**
- **S-71PF1E5B**
- **S-100PF1E5B**
Indoor Unit

4-WAY Cassette

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

Technical focus

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

360° Wide & Comfortable Airflow

Our design features wide-angle outlets and flaps that were designed through expert mechanics and prototype tests. Air from the 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.

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

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

Temperature distribution by thermograph (cooling operation)

Simulation conditions:
PT40 4-way ceiling mounted cassette type in cooling mode
Floor area of 225m² / Ceiling height of 3m

Wide Flap

<table>
<thead>
<tr>
<th>Width</th>
<th>Previous flap</th>
<th>New flap</th>
</tr>
</thead>
<tbody>
<tr>
<td>48mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Airflow turbulence is generated
Airflow turbulence is reduced

3D Turbo Fan

5 Speed Mode

<table>
<thead>
<tr>
<th>Speed</th>
<th>Conventional</th>
<th>New Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Airflow increased 9.5%

* Panasonic in-house data
Indoor Unit

4-WAY Cassette

Technical focus

Self-diagnosing Function

Automatic Fan Operation

Mild dry Intelligent Auto Swing

Automatic Restart Function

Auto Swing (Auto Flap Control)

Built-in Drain Pump

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

Comfort/ Quiet

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.

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.

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.

Ample airflow: 600 l/s

Wide Flap 3D Turbo Fan

Industry’s leading in the 140PU class.

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

3.0m

3.6m

Capacity

S-60PU2E5B, S-71PU2E5B

S-100PU2E5B, S-125PU2E5B, S-140PU2E5B

S-100PU2E5B - S-140PU2E5B

4.5m

4.7m

5m

Height

Capacity

4-way discharge
high ceiling setting 2

3-way discharge with the optional air-blocking materials

2-way discharge with the optional air-blocking materials

Ceiling height guidelines

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>4-way discharge</th>
<th>3-way discharge (optional air-blocking materials)</th>
<th>2-way discharge (optional air-blocking materials)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Factory settings 1</td>
<td>High ceiling setting 1</td>
<td>High ceiling setting 2</td>
</tr>
<tr>
<td>60PU-71PU</td>
<td>3.0</td>
<td>3.3</td>
<td>3.6</td>
</tr>
<tr>
<td>100PU, 125PU, 140PU</td>
<td>3.6</td>
<td>3.9</td>
<td>4.5</td>
</tr>
</tbody>
</table>

*1 When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow.

*2 Use air blocking materials (CZ-DFU3) to completely block two discharge outlets for 2-way airflow.
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**

- Cigarette
- Food
- Garbage
- Sweat

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

**Inhibits bacteria and viruses**

- Bacteria
- Viruses

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

---

1. Adhering odour of cigarette [Effectiveness]: Decrease by 1.7 level [Testing Institute]: Gunma Research Center [Test Report No]: No. 27055 [Result]: Decrease in odour intensity by 0.7 level after 2 hour of operation.  
2. Floating odour of cigarette [Effectiveness]: Decrease by 0.8 level [Testing 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 [Testing 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.  
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

Atomisation electrode

Multi-Leader

**Structure**

OH radical

Electron

Water

× 4.8 trillion

5-20nm

**How to Deodorise Odour**

1. nanoe™ particles reach odours deep inside fabrics
2. OH radicals decompose odour-causing substances
3. Odours are deodorised

**How to Inhibit Bacteria, Virus and Mould**

1. nanoe™ particles precisely reach allergens
2. OH radicals degenerate allergen proteins
3. Allergens are inhibited

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.

**Case Examples of nanoe™**

<table>
<thead>
<tr>
<th>Office</th>
<th>Restaurant</th>
<th>Gym</th>
<th>Residence</th>
</tr>
</thead>
</table>

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

**FAN Mode +** After closing shops and facilities, nanoe™ X can perform air purification while they are not in use.
### Specifications of R32 Compact Model

#### 6.0kW

**Model Name**
- Indoor Unit: S-60PU2E5B
- Outdoor Unit: U-60PZ2RS

**Circuit**
- Standard type C2-KPUS/ECONAVI

**Dimensions**
- H × W × D: 256 × 840 × 840
- Net weight Indoor: 20 kg

**Power source**
- Phase/Hz: 1 Phase/50Hz
- V: 230V / 240V

**Current**
- Cooling: 0.39 / 0.34 / 0.34
- Heating: 0.39 / 0.34 / 0.34

**Sound pressure level (Silent mode)**
- Cooling: 36 / 41 / 46 dB
- Heating: 37 / 41 / 41 dB

**Piping connections**
- len. of gas pipe: 0.92 / 0.1588
- len. of liquid pipe: 0.92 / 0.1588

**Net weight**
- Indoor: 20 kg

**Elevation difference ( OU located lower, OU located higher )**
- m: 15, 30

**Refrigerant gas amount**
- g: R32, 1.450, 35 g

**Operation range**
- Cooling: 10 to 43 / -15 to 24
- Heating: 10 to 43 / -15 to 24

---

#### 7.1kW

**Model Name**
- Indoor Unit: S-71PU2E5B
- Outdoor Unit: U-71PZ2RS

**Circuit**
- Standard type C2-KPUS/ECONAVI

**Dimensions**
- H × W × D: 319 × 840 × 840
- Net weight Indoor: 25 kg

**Power source**
- Phase/Hz: 1 Phase/50Hz
- V: 230V / 240V

**Current**
- Cooling: 0.39 / 0.34 / 0.34
- Heating: 0.39 / 0.34 / 0.34

**Sound pressure level (Silent mode)**
- Cooling: 36 / 41 / 46 dB
- Heating: 37 / 41 / 41 dB

**Piping connections**
- len. of gas pipe: 0.92 / 0.1588
- len. of liquid pipe: 0.92 / 0.1588

**Net weight**
- Indoor: 25 kg

**Elevation difference ( OU located lower, OU located higher )**
- m: 15, 30

**Refrigerant gas amount**
- g: R32, 1.450, 35 g

**Operation range**
- Cooling: 10 to 43 / -15 to 24
- Heating: 10 to 43 / -15 to 24

---

#### 10.0kW

**Model Name**
- Indoor Unit: S-100PU2E5B
- Outdoor Unit: U-100PZ2RS

**Circuit**
- Standard type C2-KPUS/ECONAVI

**Dimensions**
- H × W × D: 319 × 840 × 840
- Net weight Indoor: 25 kg

**Power source**
- Phase/Hz: 1 Phase/50Hz
- V: 230V / 240V

**Current**
- Cooling: 0.39 / 0.34 / 0.34
- Heating: 0.39 / 0.34 / 0.34

**Sound pressure level (Silent mode)**
- Cooling: 36 / 41 / 46 dB
- Heating: 37 / 41 / 41 dB

**Piping connections**
- len. of gas pipe: 0.92 / 0.1588
- len. of liquid pipe: 0.92 / 0.1588

**Net weight**
- Indoor: 25 kg

**Elevation difference ( OU located lower, OU located higher )**
- m: 15, 30

**Refrigerant gas amount**
- g: R32, 1.450, 35 g

**Operation range**
- Cooling: 10 to 43 / -15 to 24
- Heating: 10 to 43 / -15 to 24

---

#### 4-WAY CASSETTE

**Dimensions (6.0kW – 14.0kW)**

- **Unit:** mm
- **Filter dimension:** 520 x 520 x 15

---

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

---

*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.*
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U-100PZR8</td>
<td>12.5</td>
<td>3.2</td>
<td>13.5</td>
<td>3.2</td>
<td>13.5</td>
<td>3.2</td>
<td>13.5</td>
<td>3.2</td>
</tr>
<tr>
<td>U-125PZR8</td>
<td>12.5</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
</tr>
<tr>
<td>U-125PZR8</td>
<td>12.5</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
</tr>
<tr>
<td>U-140PZR8</td>
<td>12.5</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
<td>15.0</td>
<td>3.3</td>
</tr>
</tbody>
</table>

| U-100PZR8 | 12.5 | 3.2 | 13.5 | 3.2 | 13.5 | 3.2 | 13.5 | 3.2 |
| U-125PZR8 | 12.5 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 |
| U-125PZR8 | 12.5 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 |
| U-140PZR8 | 12.5 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 | 15.0 | 3.3 |

### Sound power level (H/M/L)

<table>
<thead>
<tr>
<th>Cooling</th>
<th>Heating dB(A)</th>
<th>51 / 46 / 43</th>
<th>52 / 46 / 43</th>
<th>60 / 53 / 47</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Phase</td>
<td>50 Hz</td>
<td>46 / 40 / 34</td>
<td>47 / 40 / 34</td>
<td>51 / 35 / 29</td>
</tr>
</tbody>
</table>

### Number of fan speeds

- 5* 5* 5*

### Power source Phase/Hz

- 1 Phase/ 50Hz

### Maximum chargeless length m

- 30

### Refrigerant at shipping, Additional gas amount g

- R32, 1,450, 35 (g/m)
- R32, 2,600, 45 (g/m)

### Dimensions H × W × D

- Indoor: 256×840 ×840
- 256×840 ×840
- 319×840 ×840

### Air volume Cooling : Heating L/s

- 350 / 266 / 216
- 366 / 266 / 216
- 600 / 433 / 300

### BTU/h

- 20,500 (6,800 - 24,200)

### U-60PZ2R5

- 515 (Air intake)

### U-71PZ2R5

- 860~910

### U-100PZ2R5

- 950

### U-125PZ2R8

- 950

### U-125PZ2R5

- 950

### U-140PZ2R5

- 950

### U-140PZ2R8

- 950

### BTU/h

- 20,500 (6,800 - 24,200)

### U-100PZ2R5

- 515 (Air intake)

### U-125PZ2R5

- 860~910

### U-125PZ2R5

- 950

### U-140PZ2R5

- 950

### U-140PZ2R8

- 950

### BTU/h

- 20,500 (6,800 - 24,200)

### U-100PZ2R5

- 515 (Air intake)

### U-125PZ2R5

- 860~910

### U-125PZ2R5

- 950

### U-140PZ2R5

- 950

### U-140PZ2R8

- 950

### BTU/h

- 20,500 (6,800 - 24,200)
**Indoor Unit**

**Under Ceiling**

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

---

**Compact Looking, Stylish, One-Motion Design**

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

---

**Energy-Saving Technology Delivering Top-Class Efficiency**

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

---

**New DC fan motor**

**Large Diagonal Air Flow Fan**

---

**ECONAVI ready**
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.

<table>
<thead>
<tr>
<th>High Ceiling Setting</th>
<th>Air flow distance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>130</td>
</tr>
</tbody>
</table>

- **100**
- **125**
- **140**
- **4.3m**
- **12m**
- **13m**
- **13m**

*Results are based on specific testing conditions*
### Specifications of R32 Compact Model

**Capacity**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>Indoor Unit</td>
<td>S-60PT2E5B</td>
<td>S-71PT2E5B</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor Unit</td>
<td>U-60PZ2R5</td>
<td>U-71PZ2R5</td>
<td>U-100PZ2R5</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>kW</td>
<td>6.0(0.7-1)</td>
<td>7.1(0.8-0)</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>BTU/h</td>
<td>20,900 (6,800-24,200)</td>
<td>24,200 (6,800-27,300)</td>
</tr>
<tr>
<td>EER : COP</td>
<td>W/W</td>
<td>3.64 : 4.24</td>
<td>3.32 : 3.89</td>
</tr>
<tr>
<td>Total power input</td>
<td>kW</td>
<td>1.48</td>
<td>1.90</td>
</tr>
</tbody>
</table>

**Indoor Unit**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Phase/Hz</th>
<th>V</th>
<th>1 Phase/50Hz</th>
<th>235</th>
<th>230V</th>
<th>240V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>Cooling</td>
<td>Heating</td>
<td>A</td>
<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H x W x D (mm)</td>
<td>696 x 875 x 320</td>
<td>896 x 980 x 370</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>kg</td>
<td>44</td>
<td>67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air volume</td>
<td>Cooling</td>
<td>Heating</td>
<td>L/s</td>
<td>333</td>
<td>333</td>
<td>333</td>
</tr>
<tr>
<td>Sound pressure level (H/M/L)</td>
<td>Cooling</td>
<td>Heating</td>
<td>dB(A)</td>
<td>38 / 34 / 30</td>
<td>39 / 35 / 35</td>
<td>40 / 37 / 40</td>
</tr>
<tr>
<td>Number of fan speeds</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Drain pipe size</td>
<td>mm</td>
<td>3P-20</td>
<td>3P-20</td>
<td>3P-20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Outdoor Unit**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Phase/Hz</th>
<th>V</th>
<th>1 Phase/50Hz</th>
<th>235</th>
<th>230V</th>
<th>240V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>Cooling</td>
<td>Heating</td>
<td>A</td>
<td>0.80</td>
<td>0.80</td>
<td>0.80</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H x W x D (mm)</td>
<td>696 x 875 x 320</td>
<td>896 x 980 x 370</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>kg</td>
<td>44</td>
<td>67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air volume</td>
<td>Cooling</td>
<td>Heating</td>
<td>L/s</td>
<td>333</td>
<td>333</td>
<td>333</td>
</tr>
<tr>
<td>Sound pressure level (H/M/L)</td>
<td>Cooling</td>
<td>Heating</td>
<td>dB(A)</td>
<td>38 / 34 / 30</td>
<td>39 / 35 / 35</td>
<td>40 / 37 / 40</td>
</tr>
<tr>
<td>Number of fan speeds</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Drain pipe size</td>
<td>mm</td>
<td>3P-20</td>
<td>3P-20</td>
<td>3P-20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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, ø6.0mm
4. Refrigerant gas tubing ø5.08mm, ø6.0mm
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

---

**Indoor Units:**

- S-60PT2E5B
- S-71PT2E5B
- S-100PT2E5B

**Outdoor Unit:**

- S-60PT2E5B
- S-71PT2E5B
- S-100PT2E5B

---

**Dimensions:**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>S-60PT2E5B</th>
<th>S-71PT2E5B</th>
<th>S-100PT2E5B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under Ceiling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>6.0kW</td>
<td>7.1kW</td>
<td>10.0kW</td>
<td></td>
</tr>
<tr>
<td>Model Name</td>
<td>Indoor Unit</td>
<td>S-60PT2E5B</td>
<td>S-71PT2E5B</td>
<td>S-100PT2E5B</td>
</tr>
<tr>
<td></td>
<td>Outdoor Unit</td>
<td>U-60PZ2R5</td>
<td>U-71PZ2R5</td>
<td>U-100PZ2R5</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>kW</td>
<td>6.0(0.7-1)</td>
<td>7.1(0.8-0)</td>
<td>10.0(0.8-1.1)</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>BTU/h</td>
<td>20,900 (6,800-24,200)</td>
<td>24,200 (6,800-27,300)</td>
<td>34,100 (10,200-47,800)</td>
</tr>
<tr>
<td>EER : COP</td>
<td>W/W</td>
<td>3.64 : 4.24</td>
<td>3.32 : 3.89</td>
<td>3.15 : 3.70</td>
</tr>
<tr>
<td>Total power input</td>
<td>kW</td>
<td>1.48</td>
<td>1.90</td>
<td>2.75</td>
</tr>
</tbody>
</table>

**Indoor Unit**

- **Power source**
  - Phase/Hz:
    - 1 Phase/50Hz
  - V:
    - 230V / 240V
  - Current:
    - Cooling: Heating A: 0.41
  - Dimensions:
    - H x W x D (mm): 696 x 875 x 320
  - Net weight: kg 44
  - Air volume:
    - Cooling: Heating L/s 333
  - Sound pressure level (H/M/L):
    - Cooling: Heating dB(A) 38 / 34 / 30
  - Number of fan speeds: 1
  - Drain pipe size: mm 3P-20

**Outdoor Unit**

- **Power source**
  - Phase/Hz:
    - 1 Phase/50Hz
  - V:
    - 230V / 240V
  - Current:
    - Cooling: Heating A: 0.80
  - Dimensions:
    - H x W x D (mm): 696 x 875 x 320
  - Net weight: kg 44
  - Air volume:
    - Cooling: Heating L/s 333
  - Sound pressure level (H/M/L):
    - Cooling: Heating dB(A) 38 / 34 / 30
  - Number of fan speeds: 1
  - Drain pipe size: mm 3P-20
### Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Unit</td>
<td>6.0kW</td>
<td>7.1kW</td>
<td>10.0kW</td>
</tr>
<tr>
<td>Net weight</td>
<td>44kg</td>
<td>44kg</td>
<td>90kg</td>
</tr>
<tr>
<td>Current</td>
<td>6.90A</td>
<td>5.80A</td>
<td>8.95A</td>
</tr>
<tr>
<td>Air volume</td>
<td>333L/s</td>
<td>333L/s</td>
<td>500L/s</td>
</tr>
<tr>
<td>Operation</td>
<td>Cooling: -10 to 43°C Heating: -15 to 24°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>50cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>50cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service space</td>
<td>1210mm x 370mm x 470mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>0.41A</td>
<td>0.41A</td>
<td>0.44A</td>
</tr>
<tr>
<td>Air volume</td>
<td>0.41L/s</td>
<td>0.41L/s</td>
<td>0.44L/s</td>
</tr>
<tr>
<td>Capacity</td>
<td>6.0kW</td>
<td>7.1kW</td>
<td>10.0kW</td>
</tr>
<tr>
<td>Outdoor Unit</td>
<td>6.0kW</td>
<td>7.1kW</td>
<td>10.0kW</td>
</tr>
<tr>
<td>Net weight</td>
<td>86kg</td>
<td>73kg</td>
<td>90kg</td>
</tr>
<tr>
<td>Current</td>
<td>6.60A</td>
<td>5.55A</td>
<td>8.60A</td>
</tr>
<tr>
<td>Air volume</td>
<td>500L/s</td>
<td>500L/s</td>
<td>500L/s</td>
</tr>
<tr>
<td>Operation</td>
<td>Cooling: -10 to 43°C Heating: -15 to 24°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>50cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>50cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service space</td>
<td>1210mm x 370mm x 470mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>0.40A</td>
<td>0.40A</td>
<td>0.43A</td>
</tr>
<tr>
<td>Air volume</td>
<td>0.40L/s</td>
<td>0.40L/s</td>
<td>0.43L/s</td>
</tr>
</tbody>
</table>

### Diagram

- **Indoor Unit Diagram**: Illustrates the indoor unit with dimensions and air flow. Includes labels for service space and air intake.
- **Outdoor Unit Diagram**: Illustrates the outdoor unit with dimensions and airflow. Includes labels for service space and air discharge.

---

**Note**: The measurements and diagrams are approximate and subject to minor variations.

---

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

Technical focus

- Closed discharge port when not in use
- Lighter and smaller units make installation easy
- Quiet operation
- Smooth and durable design

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.
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.

### Wall Mounted

#### Specifications

**Capacity**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-100PK2E5B</td>
<td>S-100PK2E5B</td>
<td>U-100PZ2R5</td>
</tr>
</tbody>
</table>

- **Cooling capacity (kW):** 9.0 (3.0 - 9.7)
- **Heating capacity (kW):** 9.0 (3.0 - 9.7)

**EER : COP**

- **W/W:** 3.47 : 3.93
- **W/W:** 3.47 : 3.93

**Total power input (kW):** 2.59 : 2.29

**Technical focus**

- Closed discharge port
- Lighter and smaller units make installation easy
- Quiet operation
- Washable front panel
- Air distribution is automatically adjusted depending on the operational mode of the unit

**Wall Mounted Units**

- **Model:** S-100PK2E5B

**Dimensions (10.0kW)**

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>Air outlet angle</th>
<th>Power source</th>
<th>Liquid/Gas connecting tube</th>
<th>Gas connecting tube</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Phase/Hz</td>
<td>m Ø9.52 / Ø15.88</td>
<td>m Ø9.52 / Ø15.88</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 Phase/50Hz</td>
<td>5 - 50</td>
<td>5 - 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Phase/50Hz</td>
<td>3.90 - 3.30</td>
<td>3.75 - 3.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phase/Hz</td>
<td>m Ø16 / Ø20</td>
<td>m Ø16 / Ø20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 Phase/50Hz</td>
<td>5 - 50</td>
<td>5 - 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Phase/50Hz</td>
<td>3.90 - 3.30</td>
<td>3.75 - 3.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Drain pipe size:**

- **mm:** VP-16

**Elevation difference (OU located lower, OU located higher):** 0 - 20

**Maximum chargeless length:** 30

**Cooling capacity (kW):**

- **9.0 (3.0 - 9.7)**
- **9.0 (3.0 - 10.5)**
- **9.0 (3.0 - 9.7)**
- **9.0 (3.0 - 10.5)**

**Cooling capacity (BTU/h):**

- **30,700 (10,200 - 33,100)**
- **30,700 (10,200 - 35,800)**
- **30,700 (10,200 - 33,100)**
- **30,700 (10,200 - 35,800)**

**EER : COP**

- **W/W:** 3.47 : 3.93
- **W/W:** 3.47 : 3.93

**Total power input (kW):** 2.59 : 2.29

**Indoor Unit**

- **Power source Phase/Hz:**
  - 1 Phase/50Hz
  - 3 Phase/50Hz
  - Phase/50Hz

- **V:** 230V | 240V
- **V:** 400V | 415V

- **Current (A):**
  - Cooling : Heating
  - 0.68 : 0.68 | 0.68 : 0.68
  - 0.66 : 0.66 | 0.66 : 0.66

- **Dimensions (mm):**
  - H x W x D: 302 x 1,120 x 236
  - 302 x 1,120 x 236

- **Net weight:** 14 kg

- **Air volume (L/s):**
  - Cooling : Heating
  - 367 / 308 / 250 : 367 / 308 / 250

- **Sound pressure level (DB):**
  - Cooling : Heating
  - 49 / 45 / 41 : 49 / 45 / 41

- **Sound power level (DB):**
  - Cooling : Heating
  - 65 / 61 / 57 : 65 / 61 / 57

- **Number of fan speeds:** 5

**Outdoor Unit**

- **Power source Phase/Hz:**
  - 1 Phase/50Hz
  - 3 Phase/50Hz

- **V:** 230V | 240V
- **V:** 400V | 415V

- **Current (A):**
  - Cooling : Heating
  - 11.5 : 10.1 | 11.0 : 9.7

- **Dimensions (mm):**
  - H x W x D: 996 x 980 x 370
  - 996 x 980 x 370

- **Net weight:** 90 kg

- **Air volume (L/s):**
  - Cooling : Heating
  - 1,285 : 1,169

- **Sound pressure level (DB):**
  - Cooling : Heating
  - 52 (50) : 52 (50)

- **Sound power level (DB):**
  - Cooling : Heating
  - 68 (66) : 67 (65)

- **Operation ranges (°C):**
  - Cooling : Heating
  - 10 to 43 : 15 to 24

- **Refrigerant at shipping, Additional gas amount (g/m):**
  - R32, 2,600, 45 (g/m)
**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

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

**Specifications**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2.60kW</th>
<th>3.70kW</th>
<th>5.00kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>Indoor Unit</td>
<td>Outdoor Unit</td>
<td>Indoor Unit</td>
</tr>
<tr>
<td>Model Name</td>
<td>CS-E9SD3RW</td>
<td>CU-E9SD3R</td>
<td>CS-E12SD3RW</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating capacity</td>
<td>Btu/h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.6</td>
<td>3.9</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>3.9</td>
<td>4.6</td>
<td>6.3</td>
<td>6.2</td>
</tr>
<tr>
<td>5.0</td>
<td>6.5</td>
<td>7.9</td>
<td>7.9</td>
</tr>
<tr>
<td><strong>T.E.R. / COP</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>Heating</td>
<td>3.9</td>
<td>3.9</td>
</tr>
<tr>
<td>Heating</td>
<td>Heating</td>
<td>3.2</td>
<td>3.2</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td>Cooling : Heating</td>
<td>kW</td>
<td>0.20</td>
</tr>
<tr>
<td><strong>Indoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Outdoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>Phase/Hz</td>
<td>V</td>
<td>1 Phase / 50Hz</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>Cooling : Heating</td>
<td>A</td>
<td>1.8</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>H x W x D</td>
<td>mm</td>
<td>200 x 750 x 640</td>
</tr>
<tr>
<td><strong>Net weight</strong></td>
<td>kg</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td><strong>Air volume</strong></td>
<td>Cooling : Heating</td>
<td>L/s</td>
<td>231</td>
</tr>
<tr>
<td><strong>External static pressure</strong></td>
<td></td>
<td>Pa</td>
<td>146</td>
</tr>
<tr>
<td><strong>EER : COP W/W</strong></td>
<td>Cooling : Heating</td>
<td>4.19 : 3.93</td>
<td>3.59 : 3.82</td>
</tr>
<tr>
<td><strong>Piping connections</strong></td>
<td>Liquid : Gas</td>
<td>m</td>
<td>9.0 / 0.75 / 0.55 / 0.35</td>
</tr>
<tr>
<td><strong>Pipe length</strong></td>
<td>min. - max.</td>
<td>m</td>
<td>3 - 15</td>
</tr>
</tbody>
</table>

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

Products for Small Sized Project

Ultra Slim Ducted

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

Ducted

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

Bulkhead Ducted

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

Ultra Slim Ducted

- 15°C to +46°C Operating Range
- Built-in Drain Pump (200mm lift*)
- Easy Installation
- Compact Design (260mm High)

Mini Cassette

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

4-Way Mini Cassette

Panel

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
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)

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.
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.

**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.

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: CO2, window/door, human presence.

User-/Owner-friendly.
- Colour touch screen
- Ease and simply of use
- 20 Languages
- Easy-to-understand error description

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

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 CO2 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.

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.

* Specifications are subject to change.

* Except for products for small sized project (Ultra Slim Ducted, Bulkhead Ducted, 4-Way Mini Cassette)
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 CO2 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
CO₂ sensors (option) and Humidity sensors
CO₂ sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.

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

* Except for products for small sized project (Ultra Slim Ducted, 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.

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.

Easy-to-Understand Error Description

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

Programmable Logic

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

Smart Connectivity Devices

Features

- Up to 5-year battery life, batteries included
- 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

<table>
<thead>
<tr>
<th>Remote Controller</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SER8150R0B1194</td>
<td>Panasonic Net Con, RH, No PIR, R1/R2 (Wired)</td>
</tr>
<tr>
<td>SER8150SRB1194</td>
<td>Panasonic Net Con, RH, PIR, R1/R2 (Wired)</td>
</tr>
</tbody>
</table>

Interface Description

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCM800V5094P</td>
<td>Panasonic wireless Zigbee Pro Com.card</td>
</tr>
<tr>
<td>VCM800R4408X*K</td>
<td>Panasonic R1/R2 (Wired) to Zigbee adaptor box No Brand</td>
</tr>
<tr>
<td>VCM800V5094S*K</td>
<td>Wireless Zigbee Pro / Green Com card</td>
</tr>
</tbody>
</table>

Sensor Description

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SED-WDS-P-5945</td>
<td>Window/Door sensor</td>
</tr>
<tr>
<td>SED-CMS-P-5945</td>
<td>Ceiling motion sensor</td>
</tr>
<tr>
<td>SED-WMS-P-5945</td>
<td>Wall motion temperature sensor</td>
</tr>
<tr>
<td>SED-CO2-G-5945</td>
<td>CO2 sensor</td>
</tr>
</tbody>
</table>

Fascia Description

<table>
<thead>
<tr>
<th>Fascia</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAS-00</td>
<td>Silver</td>
</tr>
<tr>
<td>FAS-01</td>
<td>White</td>
</tr>
<tr>
<td>FAS-03</td>
<td>Translucent White</td>
</tr>
<tr>
<td>FAS-05</td>
<td>Light Tan Wood</td>
</tr>
<tr>
<td>FAS-06</td>
<td>Brown Wood</td>
</tr>
<tr>
<td>FAS-07</td>
<td>Dark Brown Wood</td>
</tr>
<tr>
<td>FAS-10</td>
<td>Brushed Steel</td>
</tr>
</tbody>
</table>

Notes:
1. VCM800V5094P: Required in case wired solution connecting with Zigbee Sensors.
2. VCM800R4408X: 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.
Room Controller SER8150 - Dimensions & Wiring & Specifications

Dimensions
Height: 12cm/4.72in
Width: 6.6cm/3.35in
Depth: 7.4cm/2.91in
Power Requirements
10 Vdc from Panasonic R-R IDU connectors
50/60 Hz, 4mA, Class 2 Supply
Range from indoor unit:
Recommended: 50ft (150m)
Operating Conditions
-20°C to 50°C (-4°F to 122°F)
90% to 95% H.R. non-condensing
Storage Conditions
-30°C to 50°C (-22°F to 122°F)
90% to 95% H.R. non-condensing
Temperature Sensor
Local + 0.5 K thermostat
Temperature Sensor Resolution
± 0.1°C (± 0.1°F)
Temperature Sensor Accuracy
± 0.5°C (± 0.9°F) @ 21°C (70°F) typical
Calibrated
Humidity Sensor and Calibration
Single point calibrated both polymer type
sensor
Humidity Sensor Precision
Reading range from 10 to 90% H.R. non-condensing
10% to 90% precision: 10%
90% to 90% precision: 5%
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 #16 wire (0.27 mm²)
To refer to Panasonic W-f guidelines “Wiring System Diagram for Remote Controller” for this installation
Approximate Shipping Weight
0.34 kg (0.75 lb)
Safety Standards All Models
UL 8950-1-2007/CAUL 2013
UL 61077 (CSA C22.2 No24-05)
EMC Standards All Models
EN 61326-1:2006/A2:2013
IEC 61326-1:2006/A2:2013
IDBT 2014-10006/EC
R&TTE Directive 1999/5/EC
FCC 15 Subpart B:1, Class A
Class A
Class B
CERTIFICATIONS
THE FOLLOWING TWO CONDITIONS: (1) 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 UNDESIRED
OPERATION.

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 490ft (150m)
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 LR03MA)
Battery Life
Up to 5 years
Ambient Temperature
-10°C to +50 °C (+14 °F to +122 °F)

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

Dimensions
16mm H x 25mm W x 25mm D (0.64in H x 1.0in W x 1.0in D)
Colour
White
Weight
30g (1.06oz) with battery
Communication
Zigbee, HA1-2 Compatible
Communication Range
Up to 490ft (150m)
Detection Range
Maximum: 90 deg-cone, 16.5ft (5m)
Recommended: 47 deg, 16ft (4.9m)
Battery Voltage
3.0VDC Lithium
Battery Cell
CR2 (recommended Panasonic CR123A)
Battery Life
Up to 3 years
Operating Conditions
0% to 95% R.H. non-condensing
0 °C to 50°C (32°F to122°F)
0.34 kg  (0.75 lb)
Approximate Shipping Weight
System Diagram for Remote Controller” for

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

Sensor Dimensions
32mm wide x 20mm high x 11mm thick (1.26” wide x 0.78” high x 0.43” thick)
32mm wide x 20mm high x 6mm thick (1.26” wide x 0.78” high x 0.24” thick)
Magnetic Dimensions
15mm wide x 32mm high x 6mm thick (0.59” wide x 1.26” high x 0.24” thick)
Colour
White
Weight
11g (0.39oz) with battery
Communication
Zigbee, HA1-2 Compatible
Communication Range
Up to 490ft (150m)
Detection Range
Maximum: 90 deg-cone, 16.5ft (5m)
Recommended: 45 deg, 12ft (3.6m)
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)

*Except for products for small sized project (Ultra Slim Ducted, Bulkhead Ducted, 4-way Mint 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.

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.

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

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

Powerful statistics for energy savings.
- Power consumption, capacity, efficiency level can be compared according to variable parameters (Yearly / monthly / weekly / daily bases)

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

Flexible and Scalable Solution

Flexible solution for your business.
Anytime
Anywhere
Multi-platform
Internet browser

Scalable solution for your business.
Small to large
1 to multi sites
Upgrade features*
Multi PAC/VRF

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

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.

1. Connect Wires / Internet connection
2. Register Adapter in Cloud
3. Configure Units Structure

* 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.

<table>
<thead>
<tr>
<th>OPERATION SYSTEM</th>
<th>INDIVIDUAL CONTROL SYSTEMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements</td>
<td>High-spec operation</td>
</tr>
<tr>
<td>External appearance</td>
<td>![Image]</td>
</tr>
<tr>
<td>Type, model name</td>
<td>Deluxe Wired Remote Controller</td>
</tr>
<tr>
<td></td>
<td>CZ-RTC5B</td>
</tr>
<tr>
<td>Built-in thermostat</td>
<td>●</td>
</tr>
<tr>
<td>ECONAVI on/off control</td>
<td>●</td>
</tr>
<tr>
<td>Number of indoor units which can be controlled</td>
<td>1 group, 8 units</td>
</tr>
<tr>
<td>Use limitations</td>
<td>- Up to 2 controllers can be connected per group. (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)</td>
</tr>
<tr>
<td>Function ON/OFF</td>
<td>●</td>
</tr>
<tr>
<td>Mode setting</td>
<td>●</td>
</tr>
<tr>
<td>Fan speed setting</td>
<td>●</td>
</tr>
<tr>
<td>Temperature setting</td>
<td>●</td>
</tr>
<tr>
<td>Air flow direction</td>
<td>●</td>
</tr>
<tr>
<td>Permit/Prohibit switching</td>
<td>●</td>
</tr>
<tr>
<td>Weekly program</td>
<td>●</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Normal operation</th>
<th>Operation with various function from centre station</th>
<th>Only ON/OFF operation from centre station</th>
<th>Simplified load distribution ratio (LDR) for each tenant</th>
<th>Connection with 3rd Party Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Touch screen panel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wired Remote Controller</td>
<td>System Controller</td>
<td>ON/OFF Controller</td>
<td>Intelligent Controller</td>
<td></td>
</tr>
<tr>
<td>CZ-RD52CP</td>
<td></td>
<td>CZ-64ESMC3</td>
<td>CZ-ANC3</td>
<td>CZ-256ESMC3 (CZ-CFUNC2)</td>
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<tr>
<td></td>
<td>- Only 1 controller for 1 indoor unit.</td>
<td>- Up to 10 controllers, can be connected to one system.</td>
<td>- Main unit/sub unit (1 main unit + 1 sub unit) connection is possible.</td>
<td>- Use without remote controller is possible.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Up to 8 controllers (4 main units + 4 sub units) can be connected to one system.</td>
<td>- Use without remote controller is impossible.</td>
<td>- A communication adaptor (CZ-CFUNC2) must be installed for three or more links.</td>
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</tr>
</tbody>
</table>
# Individual Control Systems

## Control contents

- **Standard Control**
  - Control of the various operations of the indoor unit by wired or wireless remote controller.
  - Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller.
  - Switching between remote controller sensor and body sensor is possible.

<table>
<thead>
<tr>
<th>Control contents</th>
<th>Part name, model No.</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wired remote controller</td>
<td>CZ-RTC4 / CZ-RTC5B</td>
</tr>
<tr>
<td></td>
<td>Wireless remote controller</td>
<td>CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</td>
</tr>
</tbody>
</table>

- **Wired remote controller**
  - CZ-RTC4 / CZ-RTC5B

- **Wireless remote controller**
  - CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3

### (1) Group control
- Batch remote control on all indoor units.
- Operation of all indoor cells in the same mode.
- Up to 8 units can be connected.
- The sensor is the body sensor, and thermostat ON/OFF setting in regard to the temperature set by the remote controller is possible for each indoor unit.

<table>
<thead>
<tr>
<th>Control contents</th>
<th>Part name, model No.</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1) Group control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wired remote controller</td>
<td>CZ-RTC4 / CZ-RTC5B</td>
</tr>
<tr>
<td></td>
<td>Wireless remote controller</td>
<td>CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</td>
</tr>
</tbody>
</table>

### (2) Main/sub remote control
- Max 2 remote controllers per indoor unit. (Main remote controller can be connected)
- The button pressed last has priority.
- Timer setting is possible even with the sub remote controller. When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit.

<table>
<thead>
<tr>
<th>Control contents</th>
<th>Part name, model No.</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(2) Main/sub remote control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Main or sub Wired remote controller</td>
<td>CZ-RTC4 / CZ-RTC5B</td>
</tr>
<tr>
<td></td>
<td>Wireless remote controller</td>
<td>CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3</td>
</tr>
</tbody>
</table>

## SYSTEM EXAMPLE

- **Remote controller**
- **Standard control**
- **Main**
- **Sub**
- **(2) Main/sub remote control**
- **(1) Group control**

### Dimensions

- H 120 x W 120 x D 16 mm
- H 120 x W 120 x D 20 mm

* Depending on the model, some menus cannot be used.
Deluxe wired remote controller (CZ-RTC5B)

**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

**Dimensions**
H 120 x W 120 x D 16mm

---

Timer remote controller (CZ-RTC4)

**Basic remote controller ON/OFF**
- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
- Fan speed setting H/ M/ L and Auto.
- Air flow direction adjustment.
- ECONAVI on/ off*

**Time Function**
- Day of the week indicator.

**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.
Wireless 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.

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.

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).

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

- Example of wiring

1. 1-2 (pulse input): 300msec or more
2. 4-5 (output): +12
3. Unit condition: ON OFF ON

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)

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 when some errors occur / No output at normal.

- 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)
Reduction in air conditioning inefficiency

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

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

How 2 sensors work for human detection

Detection of the level of activity enables optimum power saving

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

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.

Sensors are remotely located to maximise the energy-saving effect

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

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)
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 June 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