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

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

Splittable Ducted

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

Smart Control Management Solutions

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

#### Indoor Unit

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<td>Ducted High Static Pressure Model</td>
<td>CS-E9SD3RW, CS-E12SD3RW, CS-E18SD3RW</td>
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<tr>
<td>Under Ceiling</td>
<td>CS-E9SD3R, CS-E12SD3R, CS-E18SD3R</td>
</tr>
<tr>
<td>Wall Mounted</td>
<td>CS-E9QD3R, CS-E12QD3R, CS-E18QD3R</td>
</tr>
<tr>
<td>R410A Model</td>
<td>CS-E9SD3R, CS-E12SD3R, CS-E18SD3R</td>
</tr>
<tr>
<td>R32 Compact Model</td>
<td>CS-E9SD3R, CS-E12SD3R, CS-E18SD3R</td>
</tr>
</tbody>
</table>

#### Outdoor Unit

**For Medium Sized Project**

- **Cooling Capacity**
  - 2.5/2.6 kW
  - 3.4/3.7 kW
  - 4.8/5.0 kW

- **Models**
  - Ultra Slim Ducted
    - CS-E9SD3RW, CS-E12SD3RW, CS-E18SD3RW
  - Bulkhead Ducted
    - CS-E9QD3RW, CS-E12QD3RW, CS-E18QD3RW
  - Mini Cassette
    - CS-E9SB4RW, CS-E12QB4RW, CS-E18QB4RW

- **R410A Model**
  - CU-E9SD3R, CU-E9QD3R, CU-E9SB4R
  - CU-E12SD3R, CU-E12QD3R, CU-E12QB4R
  - CU-E18SD3R, CU-E18QD3R, CU-E18QB4R

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

**For Small Sized Project**

- **Cooling Capacity**
  - 6.0 kW
  - 16.0 kW
  - 18 kW - 22.4 kW

- **Models**
  - 4-Way Cassette
    - CS-E9SD3R, CS-E12SD3R, CS-E18SD3R
  - Under Ceiling
    - CS-E9QD3R, CS-E12QD3R, CS-E18QD3R
  - Wall Mounted
    - CS-E9SD3R, CS-E12SD3R, CS-E18SD3R

- **R410A Model**
  - CU-E9SD3R, CU-E9QD3R, CU-E9SB4R
  - CU-E12SD3R, CU-E12QD3R, CU-E12QB4R
  - CU-E18SD3R, CU-E18QD3R, CU-E18QB4R
<table>
<thead>
<tr>
<th>Power (kW)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>S-60PE1R5B</td>
</tr>
<tr>
<td>7.1</td>
<td>S-71PF1E5B S-71PE1R5B</td>
</tr>
<tr>
<td>10.0</td>
<td>S-100PE1R5B S-100PF1E5B</td>
</tr>
<tr>
<td>12.5</td>
<td>S-125PE1R5B S-125PF1E5B</td>
</tr>
<tr>
<td>14.0</td>
<td>S-140PE1R5B S-140PF1E5B</td>
</tr>
<tr>
<td>16.0</td>
<td>S-160PE1R5B S-160PF1E5B</td>
</tr>
<tr>
<td>18.0</td>
<td>S-180PE2R8A* S-180PE1R5B</td>
</tr>
<tr>
<td>20.0</td>
<td>S-200PE2R8A* S-200PF1E5B</td>
</tr>
<tr>
<td>22.4</td>
<td>S-224PE2R8A* S-224PF1E5B</td>
</tr>
</tbody>
</table>

* 3 phase
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 spaces.

**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***

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.

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

6.0/7.1kW Model

<table>
<thead>
<tr>
<th></th>
<th>2018 Model</th>
<th>Conventional Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>996mm</td>
<td>695mm</td>
</tr>
<tr>
<td>Weight</td>
<td>68kg</td>
<td>44kg</td>
</tr>
</tbody>
</table>

* Approx. 40% Volume Decrease

10.0 – 14.0kW Model

<table>
<thead>
<tr>
<th></th>
<th>2018 Model</th>
<th>Conventional Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1,416mm</td>
<td>996mm</td>
</tr>
<tr>
<td>Weight</td>
<td>98kg</td>
<td>90kg</td>
</tr>
</tbody>
</table>

* Approx. 20% Volume Decrease

*Comparison between U-100P2Z5S and U-100PE1R5A

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*Up to 14.0kW
**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.

<table>
<thead>
<tr>
<th></th>
<th>Low Room Temp.</th>
<th>Mid Room Temp.</th>
<th>High Room Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Panasonic</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R32 Compact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comfort</td>
<td>3.0kW</td>
<td>11.5kW</td>
<td></td>
</tr>
<tr>
<td><strong>Brand X</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Over Cooling</td>
<td>5.0kW</td>
<td>10.0kW</td>
<td></td>
</tr>
<tr>
<td>Under Cooling</td>
<td>15.0kW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Graph shows each models’ 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.
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.

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)

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)

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.

4×Ø32 holes (holes for drain)

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 ø19.05, please be sure to use standard accessories joint piping B or A for connection (brazeing), and connect as follows.
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-180PE2R5

**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.
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 180 : ø9.52
   - Type 200/224 : ø12.7
2. Refrigerant gas tubing (Brazing)
   - ø19.05
   - Type 200/224 (30 – 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
### Specifications of R410A 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></td>
<td>S-180PE3R5</td>
<td>U-180PE2RSA</td>
<td>S-200PE3R5</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>kW</td>
<td>18.0 (5.4-20.0)</td>
<td>20.0 (6.3-22.4)</td>
</tr>
<tr>
<td></td>
<td>BTU/h</td>
<td>61,400 (18,400-68,200)</td>
<td>68,200 (19,100-76,400)</td>
</tr>
<tr>
<td><strong>Heating capacity</strong></td>
<td>kW</td>
<td>20.0 (5.6-22.4)</td>
<td>22.4 (7.1-25.0)</td>
</tr>
<tr>
<td></td>
<td>BTU/h</td>
<td>68,200 (21,500-76,400)</td>
<td>76,400 (24,200-85,300)</td>
</tr>
<tr>
<td><strong>EER:COP</strong></td>
<td>Cooling</td>
<td>3.02 : 3.54</td>
<td>3.12 : 3.61</td>
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<tr>
<td></td>
<td>Heating</td>
<td>3.96 : 5.66</td>
<td>3.95 : 6.22</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td>Cooling</td>
<td>5.96</td>
<td>5.99</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>5.66</td>
<td>6.20</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>1 Phase/ 50Hz</td>
<td>1 Phase/ 50Hz</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>240V</td>
<td>240V</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>Heating</td>
<td>3.00 : 3.00</td>
<td>3.20 : 3.20</td>
</tr>
<tr>
<td></td>
<td>Cooling</td>
<td>3.20 : 3.20</td>
<td>3.20 : 3.20</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>H x W x D mm</td>
<td>466 x 1,456 x 916</td>
<td>466 x 1,456 x 916</td>
</tr>
<tr>
<td></td>
<td>Fan H x W x D mm</td>
<td>377 x 1,150 x 427</td>
<td>377 x 1,150 x 427</td>
</tr>
<tr>
<td></td>
<td>Case H x W x D</td>
<td>434 x 1,178 x 360</td>
<td>434 x 1,178 x 360</td>
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<tr>
<td><strong>Net weight</strong></td>
<td>kg</td>
<td>86</td>
<td>86</td>
</tr>
<tr>
<td><strong>Air volume</strong></td>
<td>Cooling</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td><strong>External static pressure</strong></td>
<td>Pa</td>
<td>60 (Max.150)</td>
<td>75 (Max.180)</td>
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<tr>
<td><strong>Sound pressure level (H/M/L)</strong></td>
<td>Cooling</td>
<td>44 / 42 / 41</td>
<td>46 / 44 / 41</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>46 / 44 / 41</td>
<td>46 / 44 / 41</td>
</tr>
<tr>
<td><strong>Sound power level (H/M/L)</strong></td>
<td>Cooling</td>
<td>78 / 76 / 74</td>
<td>79 / 77 / 74</td>
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<tr>
<td></td>
<td>Heating</td>
<td>78 / 76 / 74</td>
<td>79 / 77 / 74</td>
</tr>
<tr>
<td><strong>Number of fan speeds</strong></td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Drain pipe size</strong></td>
<td>mm</td>
<td>VP-25</td>
<td>VP-25</td>
</tr>
</tbody>
</table>

| **Outdoor Unit** | | | |
| **Power source** | Phase/Hz | 1 Phase/ 50Hz | 1 Phase/ 50Hz | 1 Phase/ 50Hz |
| | V | 415V | 415V | 415V |
| **Current** | Heating | 8.25 : 7.80 | 8.75 : 8.55 | 9.90 : 9.50 |
| **Dimensions** | H x W x D mm | 1,700 x 880 x 370 | 1,500 x 980 x 370 | 1,500 x 980 x 370 |
| **Net weight** | kg | 138 | 138 | 138 |
| **Air volume** | Cooling | 2,734 | 2,466 | 2,466 |
| | Heating | 2,466 | 2,466 | 2,466 |
| **Sound pressure level (H/M/L)** | Cooling | 77 (75) : 79 (77) | 79 (77) : 81 (79) | 79 (77) : 81 (79) |
| | Heating | 79 (77) : 81 (79) | 79 (77) : 81 (79) | 79 (77) : 81 (79) |
| **Piping connections** | Liquid/Gas m | 63.52 / 61.91 | 57.2 / 53.90 | 57.2 / 53.90 |
| **Pipe length** | | 65 | 50 | 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 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| | Heating | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |

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**High Static Pressure Splittable Ducted**

**NEW**

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

CZ-RTC5B
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.

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

<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-60PZ2R5</td>
</tr>
<tr>
<td></td>
<td>S-71PE1R5B</td>
<td>U-71PZ2R5</td>
</tr>
<tr>
<td></td>
<td>S-100PE1R5B</td>
<td>U-100PZ2R5</td>
</tr>
</tbody>
</table>

**Cooling capacity:**  
- 6.0kW: 6.0 (2.0 - 7.1) kW, 20,500 (6,800 - 24,200) BTU/h  
- 7.1kW: 7.1 (2.0 - 8.6) kW, 24,200 (6,800 - 27,300) BTU/h  
- 10.0kW: 10.0 (3.0 - 11.5) kW, 34,100 (10,200 - 39,200) BTU/h

**Heating capacity:**  
- 6.0kW: 6.0 (1.8 - 6.8) kW, 1,23 - 3.92 kW  
- 7.1kW: 7.1 (1.8 - 8.6) kW, 3.18 - 4.06 kW  
- 10.0kW: 10.0 (3.0 - 14.0) kW, 3.44 - 3.89 kW

**Cooling capacity (kW):**  
- 6.0kW: 1.96 - 1.95  
- 7.1kW: 2.23 - 1.75  
- 10.0kW: 3.00 - 2.57

**EER : COP W/W:**  
- 6.0kW: 3.23 : 3.92  
- 7.1kW: 3.18 : 4.06  
- 10.0kW: 3.44 : 3.89

**Total power input:**  
- 6.0kW: 1.86 : 1.53  
- 7.1kW: 2.23 : 1.75  
- 10.0kW: 3.00 : 2.57

**Indoor Unit**

**Power source (V):**  
- 6.0kW: 240V  
- 7.1kW: 240V  
- 10.0kW: 240V

**Current (A):**  
- 6.0kW: 0.86 - 0.86  
- 7.1kW: 1.25 - 1.25  
- 10.0kW: 1.74 - 1.74

**Dimensions (H x W x D mm):**  
- 6.0kW: 290 x 1,100 (+100) x 700  
- 7.1kW: 360 x 1,100 (+100) x 700  
- 10.0kW: 360 x 1,100 x 700

**Net weight (kg):**  
- 6.0kW: 35  
- 7.1kW: 42  
- 10.0kW: 44

**Air volume (L/s):**  
- 6.0kW: 366  
- 7.1kW: 500  
- 10.0kW: 666

**External static pressure (Pa):**  
- 6.0kW: 70 (Max. 100)  
- 7.1kW: 100 (Max. 150)  
- 10.0kW: 100 (Max. 150)

**Sound pressure level (H/M/L) dB(A):**  
- 6.0kW: 43 / 41 / 40  
- 7.1kW: 45 / 44 / 43  
- 10.0kW: 48 / 46 / 44

**Sound power level (H/M/L) dB(A):**  
- 6.0kW: 60 / 58 / 57  
- 7.1kW: 62 / 61 / 60  
- 10.0kW: 65 / 63 / 62

**Number of fan speeds:**  
- 3

**Drain pipe size (mm):**  
- Indoor: VP-25  
- Outdoor: VP-25

**Outdoor Unit**

**Power source (V):**  
- 6.0kW: 240V  
- 7.1kW: 240V  
- 10.0kW: 240V

**Current (A):**  
- 6.0kW: 7.70 - 6.15  
- 7.1kW: 8.90 - 6.75  
- 10.0kW: 11.0 - 9.50

**Dimensions (H x W x D mm):**  
- 6.0kW: 695 x 875 x 320  
- 7.1kW: 695 x 875 x 320  
- 10.0kW: 996 x 980 x 370

**Net weight (kg):**  
- 6.0kW: 44  
- 7.1kW: 44  
- 10.0kW: 90

**Air volume (L/s):**  
- 6.0kW: 750  
- 7.1kW: 867  
- 10.0kW: 1,285

**Sound pressure level (Silent mode) dB(A):**  
- 6.0kW: 46 (44)  
- 7.1kW: 49 (47)  
- 10.0kW: 52 (50)

**Sound power level (Silent mode) dB(A):**  
- 6.0kW: 65 (63)  
- 7.1kW: 67 (65)  
- 10.0kW: 68 (65)

**Piping connections:**  
- Liquid/Gas: Ø9.52 / Ø15.88  
- Liquid/Gas: Ø9.52 / Ø15.88  
- Liquid/Gas: Ø9.52 / Ø15.88

**Pipe length (m):**  
- 6.0kW: 3 - 40  
- 7.1kW: 3 - 40  
- 10.0kW: 5 - 50

**Elevation difference (OU located lower, OU located higher) (m):**  
- 6.0kW: 15, 30  
- 7.1kW: 15, 30  
- 10.0kW: 15, 30

**Maximum chargeless length (m):**  
- 6.0kW: 30  
- 7.1kW: 30  
- 10.0kW: 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

### HIGH STATIC PRESSURE DUCTED

#### Dimensions (6.0kW – 16.0kW)

**2.Gas side**  
- (O.D. ø15.88 FLARE, ø19.05 FLARE*)  
- *Only for 16.0kW

**3.Drain pipe size**  
- (O.D. ø32)

---

**Panasonic**
### High Static Pressure Ducted

#### Dimensions (18.0kW – 22.4kW)

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Width x Height x Depth</th>
<th>Electrical Component Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-100PE1R5B</td>
<td>10.0 (3.0 - 11.5)</td>
<td>360 x 1,100 (+100) x 700</td>
<td>60</td>
</tr>
<tr>
<td>S-125PE1R5B</td>
<td>12.5 (3.2 - 13.5)</td>
<td>430 x 1,100 (+100) x 700</td>
<td>63</td>
</tr>
<tr>
<td>S-140PE1R5B</td>
<td>14.0 (3.4 - 15.0)</td>
<td>430 x 1,100 (+100) x 700</td>
<td>66</td>
</tr>
<tr>
<td>S-160PE1R5A</td>
<td>16.0 (5.4 - 18.0)</td>
<td>530 x 1,100 (+100) x 700</td>
<td>70</td>
</tr>
</tbody>
</table>

#### Refrigerant liquid tubing

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter</th>
<th>Length</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td>ø9.52</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Type 2</td>
<td>ø12.7</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

#### Refrigerant gas tubing

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 3</td>
<td>ø19.05</td>
<td></td>
</tr>
</tbody>
</table>

#### Power supply port

- 1 Phase/ 50Hz
- 3 Phase/ 50Hz

#### Communication port

- 3 hole

#### Drain port 25A

- 3 hole

#### Refrigeration capacity

- 15, 30, 60, 90, 120, 150, 180, 200 kg/m²

#### Other features

- High Static Pressure
- Ducted
- Dual Capacity
- Dual Compressor

---

**Note:** All dimensions and specifications are approximate and may vary slightly due to manufacturing tolerances. Always consult the latest manufacturer’s specifications for the most accurate information.
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.

For short ducting such as hotels

10Pa

For long ducting or for usage with high density filter

50Pa

* 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.
Built-in Drain pump (DC motor pump)

External electrical equipment box makes maintenance easy

Space saving height of 290mm for all models

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

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.
## 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>Outdoor Unit</td>
<td>Indoor Unit</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>S-60PF1E5B</td>
<td>U-60PZ2R5</td>
<td>S-71PF1E5B</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td><strong>kW</strong></td>
<td><strong>BTU/h</strong></td>
<td><strong>kW</strong></td>
</tr>
<tr>
<td>6.0</td>
<td>20,500</td>
<td>6,800</td>
<td>24,200</td>
</tr>
<tr>
<td>7.1</td>
<td>20,500</td>
<td>6,100</td>
<td>24,200</td>
</tr>
<tr>
<td><strong>Heating capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>20,500</td>
<td>10,200</td>
<td>24,200</td>
</tr>
<tr>
<td>7.1</td>
<td>20,500</td>
<td>10,200</td>
<td>24,200</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td><strong>Cooling</strong></td>
<td><strong>Heating</strong></td>
<td><strong>Cooling</strong></td>
</tr>
<tr>
<td>kW</td>
<td>1.58</td>
<td>1.33</td>
<td>2.08</td>
</tr>
</tbody>
</table>

### Indoor Unit

- **Power source**: Phase/Hz: 1 Phase/50Hz
- **Current**: Cooling: Heating A: 0.87 - 0.87, 1.27 - 1.29
- **Dimensions**: H × W × D mm: 290 × 1,000 × 700
- **Net weight**: kg: 30
- **Air volume**: Cooling: Heating L/s: 3.95 - 4.15
- **External static pressure**: Pa: 70 (10 - 150)
- **Sound pressure level**: Cooling: Heating dB(A): 35 / 32 / 26, 35 / 32 / 26, 35 / 32 / 26
- **Sound power level**: Cooling: Heating dB(A): 35 / 32 / 26, 35 / 32 / 26, 35 / 32 / 26
- **Number of fan speeds**: 3
- **Drain piping**: mm: VP-25
- **Air outlet duct**: 636 x 5 = 3,280

### Outdoor Unit

- **Power source**: Phase/Hz: 1 Phase/50Hz
- **Current**: Cooling: Heating A: 6.75 - 6.86, 8.85 - 7.95
- **Dimensions**: H × W × D mm: 695 × 875 × 320
- **Net weight**: kg: 44
- **Sound pressure level**: Cooling: Heating dB(A): 46 (44), 49 (47), 52 (50)
- **Sound power level**: Cooling: Heating dB(A): 66 (65), 67 (65), 67 (65)
- **Pipe length**: m: 3 - 40
- **Elevation difference**: (OU located lower, OU located higher) m: 15, 30
- **Refrigerant at shipping, Additional gas amount**: kg: R32, 1,450, 35 (g/m)
- **Operation ranges**: Cooling: Heating ℃: -10 to 43, -10 to 43, -10 to 43

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

---

### Diagrams

- [Diagram of Indoor Unit](image)
- [Diagram of Outdoor Unit](image)
### 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)
4. Bottom drain port VP25 (O.D. Ø32mm)
5. Suspension lug (4-12 × 30mm)
6. Power supply outlet
7. Fresh air intake port (Ø150mm)
8. Flange for flexible air outlet duct
9. Electrical component box

#### Roof Top Type Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection access</td>
<td>450 × 450</td>
</tr>
<tr>
<td>Refrigerant tubing Min.</td>
<td>250</td>
</tr>
<tr>
<td>Min.</td>
<td>650</td>
</tr>
<tr>
<td>Electrical component box</td>
<td></td>
</tr>
<tr>
<td>Indoors unit Min.</td>
<td>400</td>
</tr>
</tbody>
</table>

#### Side View Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange for flexible air outlet duct</td>
<td></td>
</tr>
</tbody>
</table>

#### Bottom View Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical component box</td>
<td></td>
</tr>
</tbody>
</table>

#### Front View Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection access (Field supply)</td>
<td>1192 (Flange O.D.)</td>
</tr>
<tr>
<td>Plumbing</td>
<td>20-ø3holes</td>
</tr>
<tr>
<td>Suspension bolt pitch</td>
<td>1467</td>
</tr>
</tbody>
</table>

#### Diagram

- Indoor unit
- Refrigerant piping joint (liquid tube) Ø9.52 Flare
- Refrigerant piping joint (gas tube) Ø15.88 Flare
- Upper drain port VP25 (O.D. Ø32mm)
- Bottom drain port VP25 (O.D. Ø32mm)
- Suspension lug (4-12 × 30mm)
- Power supply outlet
- Fresh air intake port (Ø150mm)
- Flange for flexible air outlet duct
- Electrical component box

---

**Additional Note:**

- **1.25 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.4 - 16.0)
- **1.50 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.3 - 15.0)
    - 14.0kW: 14.0 (3.6 - 16.0)
- **2.00 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.4 - 15.0)
    - 14.0kW: 14.0 (3.6 - 16.0)
- **3.15 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.3 - 15.0)
    - 14.0kW: 14.0 (3.4 - 16.0)
- **3.66 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.3 - 15.0)
- **4.35 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.3 - 15.0)
- **5.00 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.3 - 15.0)
- **5.86 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.3 - 15.0)
- **6.60 kW:**
  - Dimensions:
    - 10.0kW: 12.5 (3.2 - 13.5)
    - 14.0kW: 14.0 (3.3 - 15.0)
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.

![Temperature distribution by thermograph (cooling operation)](image)

Simulation conditions:
P140 4-way ceiling mounted cassette type in cooling mode
/ Floor area of 225m² / Ceiling height of 3m

Wide Flap

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

3D Turbo Fan

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

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Capacity</th>
<th>4-way discharge</th>
<th>3-way discharge</th>
<th>2-way discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-100PU2E5B - S-140PU2E5B</td>
<td>4.5m</td>
<td>high ceiling settings</td>
<td>with the optional air-blocking materials</td>
<td>with the optional air-blocking materials</td>
</tr>
</tbody>
</table>

Ceiling height guidelines

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Capacity</th>
<th>4-way discharge</th>
<th>3-way discharge</th>
<th>2-way discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-60PU2E5B, S-71PU2E5B</td>
<td>3.0m</td>
<td>Factory settings 1</td>
<td>high ceiling setting 1</td>
<td>high ceiling setting 2</td>
</tr>
<tr>
<td>S-100PU2E5B, S-125PU2E5B, S-140PU2E5B</td>
<td>3.6m</td>
<td>Factory settings 2</td>
<td>high ceiling setting 2</td>
<td>high ceiling setting 3</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-CFU3) to completely block two discharge outlets for 2-way airflow.
nано™ Technology

**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**

- Cigarette
- Food
- Garbage
- Sweat

**Inhibits bacteria and viruses**

- Bacteria
- Virus

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

- 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.
- Floating odour of cigarette (Effectiveness): Decrease by 1.7 level [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No]: AA03-11017-A01 [Result]: Decrease in odour intensity by 0.6 level after 2 hour of operation.
- Adhering odour of Meat Grilling (Effectiveness): Decrease by 0.9 level [Testing Institute]: Panasonic Corporation Product Analysis Center [Test Report No]: AA03-11012-A01 [Result]: Decrease in odour intensity by 0.9 level after 2 hour of operation.
- Mould (Effectiveness): Inhibit Mould Growth [Testing Institute]: Japan Food Research Laboratories [Test Report No]: 13044480002-01 [Result]: The growth of the subject was inhibited after 8-hour nanoe™ operation.
- Bacteria (Effectiveness): 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 14_0011_1 [Result]: 99% of deactivation after 4-hour nanoe™ operation.
- Viruses (Effectiveness): 99% [Testing Institute]: Kitasato Research Center for Environmental Science [Test Report No]: KRCES-Env. Test Report 14_0012_1 [Result]: 99% of deactivation after 6-hour nanoe™ operation.
- Bacteria (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

Atomisation electrode

Multi-Leader

**Structure**

OH radical

Electron

Water

x 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™**

- Office
- Restaurant
- Gym
- Residence
## Specifications of R32 Compact Model

### Capacity

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0kW</td>
<td>S-60PU2E5B</td>
<td>U-60P2ZRS</td>
</tr>
<tr>
<td>7.1kW</td>
<td>S-71PU2E5B</td>
<td>U-71P2ZRS</td>
</tr>
<tr>
<td>10.0kW</td>
<td>S-100PU2E5B</td>
<td>U-100P2ZRS</td>
</tr>
</tbody>
</table>

### Model Name

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>S-60PU2E5B</th>
<th>S-71PU2E5B</th>
<th>S-100PU2E5B</th>
</tr>
</thead>
</table>

### Cooling capacity

- **Heating capacity**
  - kW: 6.0 (1.8 - 7.6)
  - BTU/h: 20,500 (6,100 - 25,900)

### Heating capacity

- **Cooling capacity**
  - kW: 7.1 (2.0 - 8.0)
  - BTU/h: 24,200 (6,800 - 27,300)

### Indoor Unit

**Power source**
- Phase/Hz: 1 Phase / 50Hz
- V: 240V
- Current: 0.34 (Cooling) / 0.33 (Heating)
- Dimensions: H x W x D (Indoor): 256 x 840 x 840
- Net weight: Indoor kg 20
- Air volume: Cooling : 600 L/s
- Sound pressure level (H/M/L) Cooling : 36/31/28 dB(A)
- Sound power level (H/M/L) Cooling : 51/46/43 dB(A)
- Number of fan speeds: 5

### Outdoor Unit

**Power source**
- Phase/Hz: 1 Phase / 50Hz
- V: 240V
- Current: 6.70 (Cooling) / 5.60 (Heating)
- Dimensions: H x W x D (Outdoor): 695 x 875 x 320
- Net weight: 44 kg
- Air volume: Cooling : 750 L/s
- Sound pressure level (Silent mode) Cooling : 46 (44) dB(A)
- Sound power level (Silent mode) Cooling : 65 (63) dB(A)
- Pipe length: min. - max. m 3 - 40
- Elevation difference (OU located lower, OU located higher) m 15
- Maximum chargeless length m 30
- Refrigerant at shipping, Additional gas amount g 1,450 (g/m)
- Operation ranges: Cooling : 10 to 43 °C

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

### 4-WAY CASSETTE

#### Dimensions (6.0kW – 14.0kW)

- **Air intake**
- **Discharge outlet**
- **Refrigerant tubing (liquid tube)** ø9.52 mm / ø9.52 mm ( Liquid )
- **Refrigerant tubing (gas tube)** ø15.88 mm / ø15.88 mm ( Gas )
- **Pipe length** Liquid / Gas m
- **Pipe length** Liquid / Gas m
- **Height** mm
- **Piping connections** m
- **Maximum chargeless length** m
- **Refrigerant at shipping, Additional gas amount** g
- **Operation ranges** Cooling : 10 to 43 °C
- **Sound pressure level (Silent mode)** Cooling : 46 (44) dB(A)

*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 figures. When the suspension bolt length is long, it hits the ceiling panel and installation is not possible.
<table>
<thead>
<tr>
<th></th>
<th>12.5kW</th>
<th>14.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U-100PZ2R8</strong></td>
<td><strong>U-125PZ2R8</strong></td>
<td><strong>U-140PZ2R8</strong></td>
</tr>
<tr>
<td>Standard type</td>
<td>S-100PU2E5B</td>
<td>S-125PU2E5B</td>
</tr>
<tr>
<td>type:CZ-KPU3</td>
<td>12.5 (3.2 - 13.5)</td>
<td>12.5 (3.2 - 13.5)</td>
</tr>
<tr>
<td>type:CZ-KPU3A</td>
<td>12.5 (3.3 - 15.0)</td>
<td>12.5 (3.3 - 15.0)</td>
</tr>
<tr>
<td><strong>U-125PZ2R8</strong></td>
<td><strong>U-140PZ2R8</strong></td>
<td><strong>U-140PZ2R8</strong></td>
</tr>
<tr>
<td>Standard type</td>
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<td>42.700 (11.300 - 51.200)</td>
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### Specifications

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<tbody>
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<td>Phase</td>
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<td>319x840 x840</td>
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### Dimensions

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<tbody>
<tr>
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<td>616 x 616</td>
<td>616 x 616</td>
<td>616 x 616</td>
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<td>156 / 55 / 47</td>
<td>156 / 55 / 47</td>
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### Other Information

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<td>R32, 2,600, 45 (g/m)</td>
<td>R32, 2,980, 45 (g/m)</td>
<td>R32, 2,980, 45 (g/m)</td>
<td>R32, 2,980, 45 (g/m)</td>
<td>R32, 2,980, 45 (g/m)</td>
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<td>-10 to 43</td>
<td>-10 to 43</td>
<td>-10 to 43</td>
<td>-10 to 43</td>
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<td>25 (50)</td>
<td>25 (50)</td>
<td>25 (50)</td>
<td>25 (50)</td>
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<td>25</td>
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</table>
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

Self-diagnosing Function
Automatic Fan Operation
Automatic Restart Function
DC Motor
The shape of the outlet has been optimised to provide long-distance airflow distribution. Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.

### Comfortable, Long-Distance Airflow Distribution

The shape of the outlet has been optimised to provide long-distance airflow 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>
<th>100</th>
<th>125</th>
<th>140</th>
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<tr>
<td></td>
<td>4.3m</td>
<td>12m</td>
<td>13m</td>
<td>13m</td>
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</tbody>
</table>

*Results are based on specific testing conditions

---

S-60PT2E5B
S-71PT2E5B

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

ECONAVI ready

CZ-CENSC1
CZ-RTC5B
CZ-RTC4
### Specifications of R32 Compact Model

**Capacity**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
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<tr>
<td><strong>Model Name</strong></td>
<td><strong>Indoor Unit</strong></td>
<td><strong>Outdoor Unit</strong></td>
<td><strong>Indoor Unit</strong></td>
</tr>
<tr>
<td></td>
<td>S-60PT2E5B</td>
<td>U-60FD2R5</td>
<td>S-61PT2E5B</td>
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<tr>
<td><strong>Cooling capacity : Heating capacity :</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>6.0(2.0-7.1)</td>
<td>6.0(2.0-7.6)</td>
<td>7.1(2.0-7.1)</td>
</tr>
<tr>
<td>BTU/h</td>
<td>20,500 (6,800 - 24,200)</td>
<td>24,200 (6,800 - 27,300)</td>
<td>24,200 (6,800 - 29,300)</td>
</tr>
<tr>
<td><strong>EER : COP</strong></td>
<td></td>
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<tr>
<td><strong>Total power input</strong></td>
<td></td>
<td></td>
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<tr>
<td>Cooling : Heating</td>
<td>1.48 : 1.25</td>
<td>1.93 : 1.62</td>
<td>2.75 : 2.36</td>
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**Indoor Unit**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Phase/Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
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<td>Voltage</td>
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<td>240V</td>
<td>240V</td>
<td>240V</td>
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<tr>
<td>Current</td>
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<td>0.40 - 0.44</td>
<td>0.43 - 0.45</td>
<td>0.65 - 0.65</td>
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<tr>
<td>Dimensions</td>
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<td>950 x 1,275 x 690</td>
<td>950 x 1,275 x 690</td>
<td>950 x 1,590 x 690</td>
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<td>39</td>
<td>40</td>
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<tr>
<td>Air volume</td>
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<td>333 - 333</td>
<td>350 - 350</td>
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<td>Sound pressure level (H/M/L)</td>
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<td>32 / 34 / 30</td>
<td>32 / 34 / 30</td>
<td>32 / 34 / 30</td>
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<tr>
<td>Number of fan speeds</td>
<td></td>
<td>3</td>
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<td>Drain pipe size</td>
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**Outdoor Unit**

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<th>1 Phase/ 50Hz</th>
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<td>240V</td>
<td>240V</td>
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<tr>
<td>Current</td>
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<td>6.60 - 5.55</td>
<td>8.60 - 7.25</td>
<td>11.7 - 10.0</td>
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<td>950 x 875 x 320</td>
<td>950 x 875 x 320</td>
<td>950 x 980 x 370</td>
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<td>Net weight</td>
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<td>44</td>
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<td>Air volume</td>
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<td>145 - 750</td>
<td>1,250 - 1,169</td>
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<td>45 / 46 / 48 (46)</td>
<td>49 / 51 / 49 (49)</td>
<td>52 / 54 / 55 (53)</td>
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<tr>
<td>Sound power level</td>
<td></td>
<td>65 / 66 / 68 (66)</td>
<td>67 / 69 / 69 (69)</td>
<td>68 / 69 / 69 (69)</td>
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<tr>
<td>Pipe length</td>
<td></td>
<td>40</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Elevation difference (OU located lower, OU located higher)</td>
<td></td>
<td>15, 30</td>
<td>15, 30</td>
<td>15, 30</td>
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<tr>
<td>Maximum chargeless length</td>
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<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Refrigerant at shipping, Additional gas amount</td>
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<td>1,450, 35 (g/m)</td>
<td>1,450, 35 (g/m)</td>
<td>2,600, 45 (g/m)</td>
</tr>
<tr>
<td>Operation ranges</td>
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<td>10 to 43.5 to 15 to 24</td>
<td>10 to 43.5 to 15 to 24</td>
<td>10 to 43.5 to 15 to 24</td>
</tr>
</tbody>
</table>

**CEILING**

**Dimensions (6.0kW – 14.0kW)**

1. Drain port VP20 (inside diameter ø20mm, drain hose supplied)
2. Left drain position
3. Refrigerant liquid tubing ø9.52mm, (re connection)
4. Refrigerant gas tubing ø15.88mm, (re 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

---

**Diagram**

[Diagram showing dimensions and installation details]
### Indoor Units:

**S-100PT2EB**
- **U-100PZ2R5**
  - 12.5kW: 12.5 (3.2-13.5)
  - 14.0kW: 12.5 (3.3-15.0)
- **S-125PT2E5B**
  - 12.5kW: 13.6 (3.3-15.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **S-125PT2E5B**
  - 12.5kW: 13.6 (3.3-15.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **S-140PT2EB**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **S-140PT2EB**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)

**U-125PZ2R5**
- 12.5kW: 13.6 (3.3-15.0)
- 14.0kW: 14.0 (3.4-16.0)

**U-125PZ2R5**
- 12.5kW: 14.0 (3.4-16.0)
- 14.0kW: 14.0 (3.4-16.0)

**U-140PZ2R5**
- 12.5kW: 14.0 (3.4-16.0)
- 14.0kW: 14.0 (3.4-16.0)

**U-140PZ2R8**
- 12.5kW: 14.0 (3.4-16.0)
- 14.0kW: 14.0 (3.4-16.0)

**S-100PT2EB**
- **U-100PZ2R5**
  - 12.5kW: 13.6 (3.3-15.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **U-125PZ2R5**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **U-125PZ2R8**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **U-140PZ2R5**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)
- **U-140PZ2R8**
  - 12.5kW: 14.0 (3.4-16.0)
  - 14.0kW: 14.0 (3.4-16.0)

### Table of Specifications

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<th>12.5kW</th>
<th>14.0kW</th>
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<td>13.6</td>
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<td>13.6</td>
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<td>S-140PT2EB</td>
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<td>14.0</td>
</tr>
<tr>
<td>U-140PZ2R8</td>
<td>13.6</td>
<td>14.0</td>
</tr>
</tbody>
</table>

**Under Ceiling**

- **Air intake**
- **Air discharge**
- **Minimum 50cm**
- **Approx. 2°**
- **Service space Over 250**
- **Tubing hole position on wall surface**
  - **Indoor Units:**
    - S-100PT2EB
    - S-125PT2E5B
    - S-140PT2EB

---

*Notes:*
- Dimensions are approximate.
- Service space dimensions vary depending on model.
- All units are designed for under-ceiling installation.
- Specifications are subject to change without notice.
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

Technical focus

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

Closed discharge port

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

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.
### Specifications of R32 Compact Model

<table>
<thead>
<tr>
<th>Capacity</th>
<th>9.0kW</th>
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<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td><strong>Indoor Unit</strong></td>
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<tr>
<td></td>
<td>S-100PK2E5B</td>
</tr>
<tr>
<td></td>
<td>S-100PK2E5B</td>
</tr>
<tr>
<td><strong>Cooling capacity</strong></td>
<td>9.0 (3.0 - 9.7)</td>
</tr>
<tr>
<td><strong>Heating capacity</strong></td>
<td>9.0 (3.0 - 10.5)</td>
</tr>
<tr>
<td><strong>Electric input</strong>, <strong>W/W</strong></td>
<td>3.47 : 3.93</td>
</tr>
<tr>
<td><strong>Total power input</strong></td>
<td>2.59 : 2.29</td>
</tr>
</tbody>
</table>

#### Indoor Unit

- **Power source**: Phase/Hz 1 Phase/50Hz
- **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 307 : 367
- **Sound pressure level (H/ML)** Cooling/Heating dB(A) 49 / 45 / 41 : 49 / 45 / 41
- **Sound power level (H/ML)** 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
- **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 model)** Cooling/Heating dB(A) 52 (50) : 52 (50)
- **Sound pressure level**: Liquid/Gas dB(A) 68 (66) : 67 (65)
- **Pipe length**: m 3.5
- **Elevation difference**: m 15
- **Maximum chargeless length**: m 30
- **Refrigerant at shipping, Additional gas amount**: g 2,600, 45 (g/m)
- **Operation ranges**: Cooling/Heating 10 to 43 / 15 to 24

---

### WALL MOUNTED

**Dimensions (10.0kW)**

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<th>Dimension</th>
<th>Value</th>
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<td>Width</td>
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<tr>
<td>Depth</td>
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**Minimum space requirements for installation**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>Diameter</td>
<td>Ø29 - 1 + 2</td>
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<tr>
<td>Length</td>
<td>235 - 4-Ø5.3 hole</td>
</tr>
<tr>
<td>Height</td>
<td>233.5 (223.5)</td>
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**Cutting position when tubing from left side**

<table>
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<tr>
<th>Dimension</th>
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<td>Width</td>
<td>562.5</td>
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<tr>
<td>Depth</td>
<td>62</td>
</tr>
</tbody>
</table>

---

**Unit**: mm
Ultra Slim 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

Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>2.60KW</th>
<th>3.70KW</th>
<th>5.00KW</th>
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</tr>
<tr>
<td>Outdoor Unit</td>
<td>CU-E9SD3R</td>
<td>CU-E12SD3R</td>
<td>CU-E18SD3R</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>kW</td>
<td>2.6 (0.85 - 3.20)</td>
<td>3.70 (0.85 - 4.00)</td>
</tr>
<tr>
<td></td>
<td>BTU/h</td>
<td>8,870 (2,900 - 10,900)</td>
<td>12,600 (2,900 - 13,600)</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>kW</td>
<td>3.59</td>
<td>3.82</td>
</tr>
<tr>
<td></td>
<td>BTU/h</td>
<td>11,300 (2,900 - 15,300)</td>
<td>14,300 (2,900 - 17,400)</td>
</tr>
<tr>
<td>EER : COP</td>
<td>Cooling : Heating</td>
<td>4.19 : 3.93</td>
<td>3.33 : 3.59</td>
</tr>
<tr>
<td>Total power input</td>
<td>kW</td>
<td>0.62 (0.23 - 0.97)</td>
<td>1.03 (0.23 - 1.15)</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power source</td>
<td>Phase/Hz</td>
<td>1 Phase / 50Hz</td>
<td>1 Phase / 50Hz</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>240V</td>
<td>240V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>200 x 750 x 640</td>
<td>200 x 750 x 640</td>
</tr>
<tr>
<td>Net weight</td>
<td>kg</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Air volume</td>
<td>L/s</td>
<td>231</td>
<td>241</td>
</tr>
<tr>
<td>External static pressure</td>
<td>Pa</td>
<td>0 - 78</td>
<td>0 - 84</td>
</tr>
<tr>
<td>Sound power level (H/M/L)</td>
<td>Cooling : Heating</td>
<td>48 / 43 / 40 : 50 / 44 / 41</td>
<td>49 / 43 / 40 : 51 / 44 / 41</td>
</tr>
</tbody>
</table>

Outdoor Unit

| Power source | Phase/Hz | 1 Phase / 50Hz | 1 Phase / 50Hz | 1 Phase / 50Hz |
| Dimensions | mm | 619 x 824 x 299 | 619 x 824 x 299 | 795 x 875 x 320 |
| Net weight | kg | 33 | 33 | 52 |
| Piping connections | Liquid / Gas | 0.635 (1/4) / 0.952 (3/8) | 0.635 (1/4) / 0.952 (3/8) | 0.635 (1/4) / 0.952 (3/8) |
| | Pipe length | m | > 15 | > 15 | > 15 |
| | Elevation difference (CU located lower, OU located higher) | m | 15 | 15 | 20 |
| Operation ranges | Cooling : Heating | 46 / 16 - 24 | 46 / 16 - 24 | 46 / 16 - 24 |

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

<table>
<thead>
<tr>
<th>Bulkhead Ducted</th>
<th>Mini Cassette</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50kW</td>
<td>3.40kW</td>
</tr>
<tr>
<td>CS-E9QD3RW</td>
<td>CS-E12QD3RW</td>
</tr>
<tr>
<td>2.50 (0.85 - 3.10)</td>
<td>3.20 (0.85 - 4.40)</td>
</tr>
</tbody>
</table>

| 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 - 18,400) | 17,100 (3,070 - 20,400) | 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) | 20,000 (3,070 - 24,200) |

| 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) |

<table>
<thead>
<tr>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
<th>1 Phase/ 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>240V</td>
<td>240V</td>
<td>240V</td>
<td>240V</td>
<td>240V</td>
<td>240V</td>
</tr>
</tbody>
</table>


| 38 / 43 / 40 - 50 / 44 / 41 | 40 / 43 / 40 - 51 / 44 / 41 | 42 / 46 / 40 - 48 / 48 / 45 | 44 / 47 / 40 - 51 / 44 / 41 | 46 / 49 / 40 - 53 / 44 / 41 | 48 / 51 / 40 - 55 / 44 / 42 |

<table>
<thead>
<tr>
<th>4-Way Mini Cassette</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Market-leading Energy Efficiency</td>
</tr>
<tr>
<td>• Compact Design (260mm High)</td>
</tr>
<tr>
<td>• Easy Installation</td>
</tr>
<tr>
<td>• Built-in Drain Pump (600mm lift*)</td>
</tr>
<tr>
<td>• -15°C to +46°C Operating Range</td>
</tr>
</tbody>
</table>

* 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)

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.
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.

**Advantages**

**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

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

**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

**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.
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.
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.

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.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Sensor</th>
<th>Fascia</th>
</tr>
</thead>
<tbody>
<tr>
<td>SER8150R0B1194 Panasonic Net Con, RH, No PIR, R1/R2 (Wired)</td>
<td>SED-WDS-P-5045 Window/Door sensor</td>
<td>FAS-00 Silver</td>
</tr>
<tr>
<td>SER8150R5B1194 Panasonic Net Con, RH, PIR, R1/R2 (Wired)</td>
<td>SED-CMS-P-5045 Ceiling motion sensor</td>
<td>FAS-01 White</td>
</tr>
<tr>
<td>VCM8000V5094P Panasonic wireless Zigbee Pro Com.card</td>
<td>SED-WMS-P-5045 Wall motion temperature sensor</td>
<td>FAS-03 Translucent White</td>
</tr>
<tr>
<td>VCM8000R94BOX * Panasonic R1/R2 (Wired) to Zigbee adaptor box No Brand</td>
<td>SED-CO2-G-5045 * Wireless Zigbee Green CO2 sensor</td>
<td>FAS-05 Light Tan Wood</td>
</tr>
<tr>
<td>VCM8000K0945 * Wireless Zigbee Pro / Green Com card</td>
<td></td>
<td>FAS-06 Brown Wood</td>
</tr>
</tbody>
</table>

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.

Schneider Electric brand - SER8150

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**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Humidity Sensor Precision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height: 12cm/4.72in</td>
<td>Reading range from 10% to 90% RH, non-condensing. 10% to 20% precision: 10%</td>
</tr>
<tr>
<td>Width: 8.6cm/3.39in</td>
<td>20% to 80% precision: 5%</td>
</tr>
<tr>
<td>Depth: 2.7cm/1.06in</td>
<td>80% to 95% precision: 5%</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>Humidity Sensor Stability</td>
</tr>
<tr>
<td>16 Vdc from Panasonic R-R IDU connectors</td>
<td>Less than 1% yearly (typical)</td>
</tr>
<tr>
<td>RS-485 +</td>
<td>Wiring</td>
</tr>
<tr>
<td>RS-485 -</td>
<td>Maximum length between last indoor unit to SER8150 is 114.4 equal 490ft (150m) with AWG #18 wire (0.82 mm²).</td>
</tr>
<tr>
<td>RS-485 REF</td>
<td>Refer to Panasonic VRF guidelines “Wiring System Diagram for Remote Controller” for this limitation.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>75mm diameter x 20mm thick (2.94in diameter x 0.75in thick)</td>
<td>Zigbee, HA1.2 Compatible</td>
</tr>
<tr>
<td>Diameter: 75mm</td>
<td>Communication Range</td>
</tr>
<tr>
<td>Width: 20mm</td>
<td>Up to 40ft (12m), open field 300ft (100m)</td>
</tr>
<tr>
<td>Height: 75mm</td>
<td>Detection Range</td>
</tr>
<tr>
<td>Communication Range</td>
<td>Maximum: 90 deg cone, 16.5ft (5m)</td>
</tr>
<tr>
<td>0.57°C (+0.9°F)</td>
<td>Recommended: 45 deg, 12ft (3.6m)</td>
</tr>
<tr>
<td>Temperature Accuracy</td>
<td>Battery Voltage</td>
</tr>
<tr>
<td>±0.1°C (+0.2°F)</td>
<td>1.5VDC Alkaline</td>
</tr>
<tr>
<td>Temperature Resolution</td>
<td>Battery Cell</td>
</tr>
<tr>
<td>±0.5°C (+0.9°F)</td>
<td>2 x AAA (recommended Panasonic LN330WA)</td>
</tr>
<tr>
<td>Calibrated</td>
<td>Battery Life</td>
</tr>
<tr>
<td>Humidity Sensor and Calibration</td>
<td>Up to 5 years</td>
</tr>
<tr>
<td>Single point calibrated dual polystyrene type sensor</td>
<td>Ambient Temperature</td>
</tr>
<tr>
<td></td>
<td>-10°C to +50°C (+14 °F to +122 °F)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>65mm H x 28mm W x 25mm D (2.56in H x 1.14in W x 0.99in D)</td>
<td>Zigbee, HA1.2 Compatible</td>
</tr>
<tr>
<td>Color</td>
<td>Communication Range</td>
</tr>
<tr>
<td>White</td>
<td>Up to 40ft (12m), open field 300ft (100m)</td>
</tr>
<tr>
<td>Weight</td>
<td>Detection Range</td>
</tr>
<tr>
<td>90g (3.18oz) with battery</td>
<td>Maximum: 90 deg cone, 16.5ft (5m)</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>Recommended: 47 deg, 14ft (4.3m)</td>
</tr>
<tr>
<td>3.0VDC Lithium</td>
<td>Battery Life</td>
</tr>
<tr>
<td>Battery Cell</td>
<td>Up to 5 years</td>
</tr>
<tr>
<td>CR2 (recommended Panasonic CR15H270)</td>
<td>Ambient Temperature</td>
</tr>
<tr>
<td>Battery Life</td>
<td>-10°C to +50°C (+14 °F to +122 °F)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>32mm wide x 32mm high x 11mm thick (1.26in wide x 1.26in high x 0.43in thick)</td>
<td>Zigbee, HA1.2 Compatible</td>
</tr>
<tr>
<td>Color</td>
<td>Communication Range</td>
</tr>
<tr>
<td>White</td>
<td>Up to 40ft (12m), open field 300ft (100m)</td>
</tr>
<tr>
<td>Weight</td>
<td>Detection Range</td>
</tr>
<tr>
<td>11g (0.38oz) with battery</td>
<td>Maximum: 90 deg cone, 16.5ft (5m)</td>
</tr>
<tr>
<td>Battery Voltage</td>
<td>Recommended: 47 deg, 14ft (4.3m)</td>
</tr>
<tr>
<td>3.0VDC Lithium</td>
<td>Battery Life</td>
</tr>
<tr>
<td>Battery Cell</td>
<td>Up to 5 years</td>
</tr>
<tr>
<td>CR2032 (recommended Panasonic CR2032)</td>
<td>Ambient Temperature</td>
</tr>
<tr>
<td>Battery Life</td>
<td>-13°C to +50°C (+14 °F to +122 °F)</td>
</tr>
</tbody>
</table>

*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.

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

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

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.

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>Advanced operation</td>
</tr>
<tr>
<td></td>
<td>Normal operation</td>
</tr>
<tr>
<td></td>
<td>Operation from anywhere in the room</td>
</tr>
<tr>
<td>External appearance</td>
<td>Deluxe Wired Remote Controller</td>
</tr>
<tr>
<td></td>
<td>Timer Remote Controller (Wired)</td>
</tr>
<tr>
<td></td>
<td>Wireless Remote Controller</td>
</tr>
<tr>
<td>Type, model name</td>
<td>CZ-RTC5B</td>
</tr>
<tr>
<td></td>
<td>CZ-RTC4</td>
</tr>
<tr>
<td></td>
<td>CZ-RWSU3</td>
</tr>
<tr>
<td></td>
<td>CZ-RWST3N</td>
</tr>
<tr>
<td></td>
<td>CZ-RWSK2 + CZ-RWSK3</td>
</tr>
<tr>
<td>Built-in thermostat</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>●</td>
</tr>
<tr>
<td>ECONAVI on/off control</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>○</td>
</tr>
<tr>
<td>Number of indoor units which can be controlled</td>
<td>1 group, 8 units</td>
</tr>
<tr>
<td></td>
<td>1 group, 8 units</td>
</tr>
<tr>
<td></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></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></td>
<td>- Up to 2 controllers can be connected per group.</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

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<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>
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<td>System Controller</td>
<td>ON/OFF Controller</td>
<td>Intelligent Controller</td>
<td>Touch screen panel</td>
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<tr>
<td>CZ-RD52CP</td>
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<td>Seri-Para I/O unit for outdoor unit</td>
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<td>Communication Adaptor</td>
<td>CZ-CFUNC2</td>
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<td></td>
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<td></td>
<td>LonWorks Interface</td>
<td>CZ-CLNC2</td>
</tr>
</tbody>
</table>

- **Normal operation**
  - Operation with various function from centre station
  - Only ON/OFF operation from centre station

- **Wired Remote Controller**
  - System Controller
  - ON/OFF Controller
  - Intelligent Controller

- **Simplified load distribution ratio (LDR) for each tenant**
  - Touch screen panel

- **Connection with 3rd Party Controller**
  - Seri-Para I/O unit for outdoor unit
  - Interface adaptor
  - Seri-Para I/O unit for each indoor unit
  - Communication Adaptor
  - LonWorks Interface
# Individual Control Systems

<table>
<thead>
<tr>
<th>Control contents</th>
<th>Part name, model No.</th>
<th>Quantity</th>
</tr>
</thead>
</table>
| 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.  | Wired remoted controller CZ-RTC4 / CZ-RTC5B  
Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3 | 1 unit each   |
| (1) Group control  
- Batch remote control on all indoor units.  
- Operation of all indoor cells in the same mode.  
- Up to 8 units can be connected.  
- The sensor is the body sensor, and thermostat ON/OFF setting in regard to the temperature set by the remote controller is possible for each indoor unit.  | Wired remoted controller CZ-RTC4 / CZ-RTC5B  
Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3 | As required  |
| (2) Main/sub remote control  
- Max 2 remote controllers per indoor unit. (Main remote controller can be connected)  
- The button pressed last has priority.  
- Timer setting is possible even with the sub remote controller. When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit.  | Main or sub Wired remoted controller CZ-RTC4 / CZ-RTC5B  
Wireless remote controller CZ-RWSU3 / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3 | As required  |

## SYSTEM EXAMPLE

![System Diagram](image-url)
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

**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

**Backup control by using CZ-RTC5B**

Group wiring of 2 systems of PAC can do auto individual control
- Rotation operation
- Backup operation
- Support operation

Timer remote controller (CZ-RTC4)

**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**
- 24 hours real time clock
- 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

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

Condition

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

2. Usage Example

- Forced OFF control

```
Example of wiring
```

- Operation ON/OFF signal output

```
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)

Note: The wire length from indoor unit to the Relay must be within 2.0m.
Reducing inefficient air conditioning

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

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

How 2 sensors work for human detection

Detection of the level of activity enables optimum power saving

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

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.

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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)

---

INTELLIGENT CONTROLLER (CZ-256ESMC3) has dimensions of 280 x 240 x 50 mm. Features include a storage door that can be pushed lightly to open or close, a USB terminal, and a power indicator that illuminates at power-on.

ON/OFF CONTROLLER (CZ-ANC3) has dimensions of 116 x 148 x 6 mm. It includes a 3 - Ø 30 hole and a 4 - Ø 5 hole.

LONWORKS INTERFACE (CZ-CLNC2) has dimensions of 92 x 105 x 25 mm. It includes a potbellied hole (4 locations) and a 3 - Ø 30 hole.

SERI-PARA I/O UNIT FOR EACH INDOOR UNIT (CZ-CAPBC2) has dimensions of 76 x 76 x 5 mm. It includes 4 - Ø 5 hole and a Magnified view.

SERI-PARA I/O UNIT FOR OUTDOOR UNIT (CZ-CAPDC2) has dimensions of 79 x 100 x 10 mm.

WIRED REMOTE CONTROLLER FOR RESIDENTIAL MODEL (CZ-RD52CP) has dimensions of 116 x 50 x 11.4 mm. It includes a USB terminal, storage door, and a detail of the potbellied hole.