EVERY BUILDING MATTERS

RESIDENTIAL & LIGHT COMMERCIAL
AIR CONDITIONERS 2015 / 2016

EVERY BUILDING MATTERS

www.panasonicair.com.au

Panasonic Australia Pty. Limited.
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A Better Life, A Better World

As we move towards our Centenary in 2018, our new brand slogan encapsulates Panasonic’s vision of expanding and pursuing a better life for each of our customers. Working with our many partners, we operate in a wide range of fields such as the home, community, business and travel realising a better world globally through its contribution to the environment and other activities, in both its B2C and B2B businesses.
For Future Generations

Panasonic aims to become the No.1 green innovation company in the electronics industry

The 2014 Best Global Green Brands

Interbrand has announced its 2014 ranking of Best Global Green Brands. In this year’s ranking Panasonic was ranked number five, fulfilling our eco pledge “For future generations, Panasonic aims to become the No.1 Green Innovation Company in the Electronics Industry.”

At Panasonic, our eco pledge is more than just a tagline; it’s a harmonious way of life that we take very seriously. Panasonic was founded based on the philosophy of contributing to progress in society and to enriching people’s lives through business activities. By offering products that help people lead better, greener lives, we are making good on our strong commitment to continuous environmental sustainability management.

Interbrand’s Best Global Green Brands 2014 report is a look at sustainability with performance data powered by Deloitte and consumer perception data. Interbrand evaluates organisations based on market perception, actual environmental performance, and products and services.

Go to www.bestglobalgreenbrands.com for more information.

Panasonic Eco City
Tianjin, China

2014 Brand Ranking Top 10
1 FORD
2 TOYOTA
3 HONDA
4 NISSAN
5 Panasonic
6 NOKIA
7 SONY
8 ADIDAS
9 DANONE
10 DELL
Panasonic Air Conditioning
Designed To Care For Your Projects

With more than 30 years of experience, exporting to more than 120 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning sector. The company is also a world leader in innovation as it has filed more than 91,539 patents to improve its customers’ lives. Moreover, Panasonic is determined to remain at the forefront of its market. In all, the company has produced more than 200 million compressors and its products, particularly residential air conditioners, now hold the No. 1 market share in Japan and other major countries in Asia. You can be assured of the extremely high quality of Panasonic’s air conditioners.

This wish to excel has made Panasonic the international leader in air conditioning solutions. The company’s industrial capacity and firm commitment to the environment has enabled it to open new avenues of research and to develop innovative technologies which enhance its customers’ way of life. Panasonic offers a range of turnkey air conditioning solutions for homes, medium-sized buildings such as offices and restaurants. These offer maximum effectiveness, comply with the strictest environmental standards and meet the most avant-garde construction requirements of our time.

At Panasonic we know what a great responsibility it is to install cooling and heating systems. Because offering you the best solutions in cooling and heating matters.

EVERY BUILDING MATTERS

WHAT’S NEW

Exclusive Feature 1
Using sensors and precise control programs, ECONAVI analyses room conditions and adjusts cooling and heating power to reduce wasted electricity.

Exclusive Feature 2
Deluxe Wired Remote Controller
Features a large LCD and touch keys for easy operation, and multiple energy-saving functions.

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ECONAVI reduces 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.

Detection of the level of activity enables optimum power saving

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

Sensors are remotely located to maximise the energy-saving effect

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

Case study at coffee shop

In the morning

A sensor is remotely set to maximise the detection area.

Installation flexibility ready for indoor unit layout changes.

Wide detection area

Thorough cooling in areas of high activity

Gentle cooling in areas of low activity

In the afternoon

With the set temperature increased by 2°C during cooling.

Up to 28% verified energy-saving*

With the set temperature increased by 2°C during cooling.

ECONAVI sensor allows energy saving by allowing set temperature to increase by up to 2°C during times when lower levels of human activity is normal consumption detected. Tested with a coffee shop model where indoor units were opened and closed a uniform number of times. At each set temperature between 24°C and 28°C, cumulative power consumption over 3 hours and measured set temperature. Maximum possible energy saving is 28% based upon the power consumption difference.

Test method

ECONAVI sensor allows energy saving by allowing set temperature to increase by up to 2°C during times when lower levels of human activity is normal consumption detected. Tested with a coffee shop model where indoor units were opened and closed a uniform number of times. At each set temperature between 24°C and 28°C, cumulative power consumption over 3 hours and measured set temperature. Maximum possible energy saving is 28% based upon the power consumption difference.

Test conditions

1. Panasonic test room (29m²). Indoor unit: S-100PU1 (Single 4-way Cassette 10kW) Outdoor unit: U-100PE1 (Single DLX 10kW). Cooling operation, set temperature of 24 to 28°C, Hi airflow setting.

EXAMPLE 1

In a coffee shop power is reduced to match the number of customers in each area.

EXAMPLE 2

In an apartment, power output is adjusted to match the number of people present in each room.

Panasonic

Applicable to all 4 types of indoor units*

*Except 20.0kW
Deluxe Wired Remote Controller

Easy-to-use, with multiple energy saving functions at your fingertips.

1. Large 3.5” Full-dot LCD with White LED Backlight
   - Characters and icons are clearly displayed for improved visibility. The display is also large enough to provide a wide range of information for easy confirmation of operation conditions.

2. Stylish, Easy-to-use Touch Key Design
   - The elegant, flat design features large touch keys in a simple layout enabling easy, intuitive operation.

Energy consumption display and Log function

Energy Consumption Monitoring Display
- Graphs of daily, weekly and annual power consumption are displayed. A visual representation of power consumption lets you confirm the energy-saving effect and quickly detect energy-wasting operation. This helps to further improve energy saving.

Multiple control settings to meet a wide range of air conditioning needs

Temperature Auto Return
- Even if you change the temperature setting, after a set time it automatically returns to the original temperature setting. You can set temperature auto return time in 10-minute intervals within a period of 4 hours.

Temperature Setting Range Limitation
- You can set the upper and lower temperature limits. Doing this helps reduce power consumption due to over cooling or heating. Setting is possible in the Cooling, Heating and Dry modes.

Auto Shutoff
- Air conditioning automatically stops after a set time, so you don’t have to worry about forgetting to switch the unit off. Even if you manually switch the unit back on after it has stopped, it automatically switches off again after the set time.
Wide range of controls for extra convenience

Individual Louver Control
(For 4-way cassette U1 type)
One of the 4-directional outlets can be selected and locked to provide efficient air distribution that matches the indoor unit layout. Indoor units can be set individually.

Weekly Timer
This lets you specify 8 Start/Stop times and temperature presets for each day of the week.

Service Contact Address
Once you have registered service contact details, they are automatically displayed if a problem with the air conditioner occurs. This helps you quickly deal with the situation.

Convenient Controls

Operation Lock
Operation keys can be locked to prevent users accidentally changing the temperature setting, airflow rate, airflow direction and other settings.

Filter Information
Filter information is indicated for cleaning after a set time of operation has passed. The number of hours can be adjusted.

Quiet Operation Mode
There's a Quiet mode that reduces the outdoor unit's operating noise. The mode can be switched On/Off and the Start/End times can be set with the remote controller.

Maintenance Function
Display of outdoor malfunction data, service contact details, filter cleaning remaining time and other data enables at-a-glance verification of maintenance information with the remote controller.

Repeat OFF Timer
You can set the unit to switch off after a desired period of time.

Setting Information Lists
Information concerning current settings is displayed in the remote controller’s LCD for easy confirmation.

Function List

<table>
<thead>
<tr>
<th>Control Item</th>
<th>Menu items</th>
<th>Energy Saving</th>
<th>Maintenance Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic instructions</td>
<td>Temperature auto return</td>
<td>Outdoor unit error data</td>
<td>Test run</td>
</tr>
<tr>
<td>FLAP</td>
<td>Temperature setting range</td>
<td>Service Contact address</td>
<td>Sensor information</td>
</tr>
<tr>
<td>Individual louver control (Lock individual flap for 4-way cassette)</td>
<td>Auto shut/off</td>
<td>Initial settings</td>
<td>Service check</td>
</tr>
<tr>
<td>ON/OFF timer</td>
<td>Schedule peak cut</td>
<td>ECONAVI on/off</td>
<td>Simpler/ Detailed Settings</td>
</tr>
<tr>
<td>Weekly timer</td>
<td>Repeat off timer</td>
<td></td>
<td>Auto address</td>
</tr>
<tr>
<td>Filter information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quiet operation mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption monitor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy saving</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial settings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventilation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Panasonic provides ideal solutions for large-capacity air conditioning needs.

### Indoor Unit

#### Ducted

- **High Static Pressure Model**
  - S-60PE1R5A
  - S-71PE1R5A
  - S-100PE1R5A
  - S-125PE1R5A
  - S-140PE1R5A
  - S-200PE2R5A

#### Ducted

- **Mid Static Pressure Model**
  - S-60PF1R5A
  - S-71PF1R5A
  - S-100PF1R5A
  - S-125PF1R5A
  - S-140PF1R5A

#### 4-Way Cassette

- S-60PU1R5A
- S-71PU1R5A
- S-100PU1R5A
- S-125PU1R5A
- S-140PU1R5A

#### Under Ceiling

- S-60PT2R5A
- S-71PT2R5A
- S-100PT2R5A
- S-125PT2R5A
- S-140PT2R5A

### Outdoor Unit

<table>
<thead>
<tr>
<th>CAPACITY (kW)</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
<th>12.5kW</th>
<th>14.0kW</th>
<th>20.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-60PE1R5A</td>
<td>U-71PE1R5A</td>
<td>U-100PE1R5A</td>
<td>U-125PE1R5A</td>
<td>U-140PE1R5A</td>
<td>U-200PE1R8*</td>
<td></td>
</tr>
</tbody>
</table>

(*3-phase)
Outdoor Unit

DC Inverter allows better comfort and energy savings

- Complies with all necessary Safety Approvals to ensure quality and safety
- Top-class EER:4.20 / COP:4.31
(4 Way Cassette type:10.0kW)
- Demand Response (DRED) compatible
- Cooling operation is possible when outdoor temperature as high as 46°C
- DC inverter technology combined with R410A for excellent efficiency
- Maximum piping length:180m
- Cooling operation is possible when outdoor temperature as low as -15°C*1
- Heating operation is possible when outdoor temperature as low as -25°C*2
- One ampere starting current
- Auto restart from outdoor unit

*1 Except 20.0kW
*2 20.0kW only

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.

Energy-saving concept
The use of energy saving design for the structure of fans, fan motors, compressors and heat exchangers resulted in high COP value which ranked as one the top class in the industry. In addition, use of highly efficient R410A refrigerant reduces CO2 emission and lowers operating costs.

- Compact & High-Efficient Compressor
A large inverter compressor has been adopted. The inverter compressor is superior in performance with improved partial-load capacity.

- Printed Circuit Board (S-LINK)
The number of PCB was reduced from 3 into 2 pieces to improve maintenance work.

- DC Fan Motor
Checking load and outside temperature, the DC motor is controlled for optimum air volume.

- New Large Diagonal (520mm) Air Flow Fan
The newly designed fan has been developed to inhibit air turbulence and to increase efficiency. As fan diameter has been increased to 520mm*, the air volume has been increased whilst maintaining a low sound level.

- High-Efficiency Heat Exchanger
The heat exchanger and the size of the copper tube in the heat exchanger has been redesigned to increase efficiency.

*Except for 20.0kW
Outdoor Unit

Increased Piping Length for Greater Design Flexibility
Adaptable to various building types and sizes
Max. piping length : 50m (6.0kW, 7.1kW), 75m (10.0kW, 12.5kW, 14.0kW), 180m (20.0kW)

Improved Energy Saving
The operation efficiency has been improved using highly efficient R410A refrigerant, new DC inverter compressor, new DC motor and new design of heat exchanger.

Wide Operating Range
- Cooling operation is possible when outdoor temperature as low as -15°C*1
- Cooling operation is possible when outdoor temperature as high as 46°C
- Heating operation is possible when outdoor temperature as low as -25°C*2

The remote controller temperature setting offers a range from 16°C to 30°C.
*1 Except 20.0kW
*2 20.0kW only

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. This ensures that Panasonic products that you are installing today are compliant with the demand response standards that are likely to be implemented shortly.

The Equipment Energy Efficiency (E3) program has been supporting the development of Demand Response Enabling Device (DRED) standards for air-conditioners which should comply with AS 4755. DRED functionality is not compulsory today, however, this capability will be required for all installations in the very near future.

Compact and Lightweight
The weight is only 98 kg. (10.0kW, 12.5kW, 14.0kW) Hence it is easy to carry, easy to install.

Compact & Flexible-design
The slim and lightweight design can be installed in various places. *1 14.0kW or smaller capacity unit

Quiet Mode
Quiet mode reduces outdoor operating sound by 5dB. External input signal is also available. *1 14.0kW or smaller capacity unit
Indoor Unit
High Static Pressure
Ducted
High static and large airflow ducted for exceptional installation flexibility.

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

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

Cold Drafts Reduced During Heating Operation
- Accurate temperature measurement by E1/E2 sensor to reduce cold drafts during heating operation.
### Dimensions

<table>
<thead>
<tr>
<th>Model/Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.0kW</td>
<td>S-60PE1R5A</td>
<td>U-60PE1R5A</td>
</tr>
<tr>
<td>7.1kW</td>
<td>S-71PE1R5A</td>
<td>U-71PE1R5A</td>
</tr>
<tr>
<td>10.0kW</td>
<td>S-100PE1R5A</td>
<td>U-100PE1R5A</td>
</tr>
<tr>
<td>12.0kW</td>
<td>S-125PE1R5A</td>
<td>U-125PE1R5A</td>
</tr>
<tr>
<td>16.0kW</td>
<td>S-140PE1R5A</td>
<td>U-140PE1R5A</td>
</tr>
</tbody>
</table>

#### Power source

- **Power source**
  - **Voltage (V)**: 230V, 240V
  - **Phase/Hz**: 1 Phase/50Hz, 3 Phase/50Hz
  - **Frequency (Hz)**: 50Hz
  - **Power factor**: 0.85, 0.86
  - **Current (A)**: 0.85, 1.24, 1.72, 1.72, 1.82, 1.82, 2.62

#### Cooling capacity / Heating capacity

- **Capacity**: 20,500 (8,500 - 24,200)
- **Capacity**: 23,900 (6,800 - 27,300)
- **Capacity**: 27,300 (6,800 - 30,700)
- **Capacity**: 34,100 (11,300 - 42,700)
- **Capacity**: 38,200 (14,000 - 47,800)

<table>
<thead>
<tr>
<th>Model/Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Width (W)</strong></td>
<td>130</td>
<td>195</td>
</tr>
<tr>
<td><strong>Depth (D)</strong></td>
<td>33.1</td>
<td>35.7</td>
</tr>
<tr>
<td><strong>Height (H)</strong></td>
<td>290</td>
<td>360</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>118</td>
<td>50</td>
</tr>
</tbody>
</table>

**Optional Controller**

- **CZ-RWSK2 + CZ-RWSC3**
- **NEW**
- **Simplified remote controller**
- **Deluxe Wired**
- **High Static Pressure Ducted**

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2. **Gas side** (O.D. ø32 FLARE)
3. **Drain pipe size** (O.D. ø9.52)
1. **Liquid side** (O.D. ø32 FLARE)
Indoor Unit
High Static Pressure
Ducted
NEW
High static and large airflow ducted for exceptional installation flexibility.

Technical focus
- Design flexibility thanks to high static pressure and large air volume
- DC motor equipped
- Low power input
- Discharge air temperature control to reduce cold drafts during heating operation
- Configurable air temperature control

3-step static pressure set up
You can select between the three Static Pressure modes of 270 Pa / 140 Pa / 72 Pa for extra installation flexibility.

Max. 270 Pa static pressure setting
A maximum static pressure setting of a high 270 Pa enables the use of long ducts for installation in a wide range of spaces, ideal for large-scale offices, restaurants and other facilities.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>kW</td>
<td></td>
</tr>
<tr>
<td>Heating capacity</td>
<td>kW</td>
<td></td>
</tr>
<tr>
<td>Max. COP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static power input</td>
<td>Cooling / Heating</td>
<td>kW</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H × W × D (mm)</td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>kg</td>
<td></td>
</tr>
<tr>
<td>Air volume</td>
<td>Cooling / Heating</td>
<td>L/s</td>
</tr>
<tr>
<td>External static pressure</td>
<td>Pa</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level (H/M/L)</td>
<td>Cooling / Heating</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Sound power level (H/M/L)</td>
<td>Cooling / Heating</td>
<td>dB(A)</td>
</tr>
</tbody>
</table>

Sensible cooling 5-10% improved
New heat exchanger with ø7mm pipe that increases the heat transfer surface to improve sensible cooling (5-10% improvement)

Discharge air temperature control
- Equipped with 4 sensors (Intake/Discharge)
- Able to control discharge air temperature for accurate room temperature control.
- Possible to reduce cold drafts during heating operation.

HIGH STATIC DUCTED Dimensions
Indoor Unit

Mid Static Pressure

Ducted

Provides exceptional performance, super quiet operation and the ultimate in control. 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 (450 mm x 450 mm or larger) is required at the lower side of the indoor unit body.

**More powerful drain pump**

Using a high-lift built-in drain pump, drain piping can be elevated up to 702 mm from the base of the unit.

**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.

**Discharge air temperature control**

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

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

**V-shaped heat exchanger**

To improve heat exchange efficiency, an original V-shaped heat exchanger was developed incorporating a conventional high-efficiency fan and high-efficiency grooved heat transfer tubes. This increases the heat exchange surface area by about 80%.

*Please refer to technical databook for detail.*
### MID STATIC DUCTED Dimensions

**SIZE 60, 71 PF1R15A**

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

---

**Capacity**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>6.0kW</th>
<th>7.1kW</th>
<th>10.0kW</th>
<th>12.5kW</th>
<th>14.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant piping joint</td>
<td>Liquid</td>
<td>Gas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
</tr>
<tr>
<td>Power source</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor Unit</td>
<td>1 Refrigerant piping joint (liquid tube) Ø9.52 Flare</td>
<td>2 Refrigerant piping joint (gas tube) Ø15.88 Flare</td>
<td>3 Upper drain port VP25 (O.D. Ø32 mm)</td>
<td>4 Refrigerant piping joint (liquid tube) Ø9.52 Flare</td>
<td>5 Suspension lug (12 × 30 mm)</td>
</tr>
<tr>
<td>Drain piping</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
</tr>
<tr>
<td>Elevation difference (OU located lower, OU located higher)</td>
<td>Min. 650</td>
<td>Min. 150</td>
<td>Min. 250</td>
<td>Min. 150</td>
<td>Min. 250</td>
</tr>
<tr>
<td>Power supply outlet</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td>3-Phase/50Hz</td>
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<tr>
<td>Power supply outlet</td>
<td>3-Phase/50Hz</td>
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<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td>3-Phase/50Hz</td>
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<tr>
<td>Current</td>
<td>0.87</td>
<td>0.87</td>
<td>0.89</td>
<td>0.89</td>
<td>0.89</td>
</tr>
<tr>
<td>BTU/h</td>
<td>20,500 (8,500 - 24,200)</td>
<td>23,900 (6,800 - 27,300)</td>
<td>34,100 (11,300 - 42,700)</td>
<td>47,800 (14,000 - 54,600)</td>
<td>54,600 (14,000 - 61,400)</td>
</tr>
<tr>
<td>kVA</td>
<td>6.0 (2.5 - 7.1)</td>
<td>8.0 (2.0 - 9.0)</td>
<td>11.2 (4.1 - 14.0)</td>
<td>14.0 (3.3 - 16.0)</td>
<td>16.0 (4.1 - 18.0)</td>
</tr>
<tr>
<td>kW</td>
<td>6.0 (2.5 - 7.1)</td>
<td>8.0 (2.0 - 9.0)</td>
<td>12.5 (3.3 - 14.0)</td>
<td>14.0 (3.3 - 15.5)</td>
<td>16.0 (3.3 - 15.5)</td>
</tr>
<tr>
<td>EER : COP</td>
<td>3.90 : 3.87</td>
<td>3.84 : 3.85</td>
<td>4.10 : 4.31</td>
<td>4.10 : 4.31</td>
<td>3.50 : 4.02</td>
</tr>
<tr>
<td>Net weight</td>
<td>68</td>
<td>69</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Dimensions</td>
<td>996 × 940 × 340</td>
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<td>1,416 × 940 × 340</td>
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</tr>
</tbody>
</table>

---

**Size 100, 125, 140 PF1R15A**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>10.0kW</th>
<th>12.5kW</th>
<th>14.0kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant piping joint</td>
<td>Liquid</td>
<td>Gas</td>
<td></td>
</tr>
<tr>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
<td></td>
</tr>
<tr>
<td>Power source</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td></td>
</tr>
<tr>
<td>Outdoor Unit</td>
<td>1 Refrigerant piping joint (liquid tube) Ø9.52 Flare</td>
<td>2 Refrigerant piping joint (gas tube) Ø15.88 Flare</td>
<td>3 Upper drain port VP25 (O.D. Ø32 mm)</td>
</tr>
<tr>
<td>Drain piping</td>
<td>VP25</td>
<td>VP25</td>
<td>VP25</td>
</tr>
<tr>
<td>Elevation difference (OU located lower, OU located higher)</td>
<td>Min. 650</td>
<td>Min. 150</td>
<td>Min. 250</td>
</tr>
<tr>
<td>Power supply outlet</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td>3-Phase/50Hz</td>
</tr>
<tr>
<td>Power supply outlet</td>
<td>3-Phase/50Hz</td>
<td>1-Phase/50Hz</td>
<td>3-Phase/50Hz</td>
</tr>
<tr>
<td>Current</td>
<td>0.89</td>
<td>0.87</td>
<td>0.89</td>
</tr>
<tr>
<td>BTU/h</td>
<td>20,500 (8,500 - 24,200)</td>
<td>23,900 (6,800 - 27,300)</td>
<td>34,100 (11,300 - 42,700)</td>
</tr>
<tr>
<td>kW</td>
<td>6.0 (2.5 - 7.1)</td>
<td>11.2 (4.1 - 14.0)</td>
<td>16.0 (4.1 - 18.0)</td>
</tr>
<tr>
<td>EER : COP</td>
<td>3.90 : 3.87</td>
<td>4.10 : 4.31</td>
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</tbody>
</table>
Technical focus

• Compact design
• Low sound levels
• DC fan motor for increased efficiency
• Powerful drain pump gives 850 mm lift
• Lightweight design
• Fresh air knockout
• Branch duct connection
• Optional air-intake plenum CZ-FDU2

Wide & Comfortable Airflow

A proprietary design features wide-angle discharge outlets and flaps that are larger in the middle, featuring a shape that was selected based on numerical mechanics and testing of actual prototype units. Air coming out of the centre of the discharge outlets travels farther. From the sides of each outlet, where the openings are larger, airflow spreads out to reach the corners of the room. Air is discharged across a wide area from the four sides of the unit. The curves on the room temperature distribution graph expand gently out through 360° in a circle centred on the indoor unit.

Ample airflow: 36 m³/min
Industry’s leading in the 140PU class.

Temperature distribution by thermograph (cooling operation)

- 360° Wide
- 5m

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

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

<table>
<thead>
<tr>
<th>Capacity</th>
<th>New model</th>
</tr>
</thead>
<tbody>
<tr>
<td>60PU, 71PU</td>
<td>3.0m</td>
</tr>
<tr>
<td>100PU, 125PU, 140PU</td>
<td>3.6m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capacity</th>
<th>100PU-140PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5m</td>
<td>4.7m</td>
</tr>
<tr>
<td>5m</td>
<td>3.8m</td>
</tr>
</tbody>
</table>

Ceiling height guidelines

- When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow.
- For the air-blocking materials (CZ-CFU2), it is necessary to block two discharge outlets for 2-way airflow.
### Easy Maintenance and Cleaning

The flap can be removed easily for cleaning.

### Low-Profile 33.5 mm Panel

The square panel integrates seamlessly with the ceiling. Discharge outlets close to the ceiling. The square panel integrates seamlessly with the ceiling. Discharge outlets close to the ceiling.

A lightweight unit at 24 kg, the unit is also very slim with a height of only 256 mm.

**Capacity**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor unit</th>
<th>7-W/W</th>
<th>10.0-W</th>
<th>12.5-W</th>
<th>14.0-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-60P0U15A</td>
<td>996 x 940 x 340</td>
<td>6.0 (2.5 - 8.0)</td>
<td>7.1 (2.0 - 8.5)</td>
<td>10.0 (3.3 - 12.5)</td>
<td>12.5 (3.3 - 14.0)</td>
</tr>
<tr>
<td>S-75P0U15A</td>
<td>1,416 x 940 x 340</td>
<td>9.8 (3.5 - 12.0)</td>
<td>11.2 (3.5 - 14.0)</td>
<td>14.0 (3.5 - 16.0)</td>
<td>16.0 (3.5 - 18.0)</td>
</tr>
<tr>
<td>S-100P0U15A</td>
<td>1,416 x 940 x 340</td>
<td>13.1 (4.5 - 16.5)</td>
<td>15.1 (4.5 - 18.5)</td>
<td>17.6 (4.5 - 20.5)</td>
<td>19.6 (4.5 - 22.5)</td>
</tr>
<tr>
<td>S-125P0U15A</td>
<td>1,416 x 940 x 340</td>
<td>18.1 (5.5 - 22.0)</td>
<td>20.8 (5.5 - 24.5)</td>
<td>23.6 (5.5 - 27.5)</td>
<td>25.3 (5.5 - 29.5)</td>
</tr>
</tbody>
</table>

**Optional Controller**

- **ECONAVI sensor**
  - CZ-_STATC2
- **Timer remote controller**
  - CZ-RTC1
- **Simplified remote controller**
  - CZ-RE2C2
- **NEW**
  - **NEW**

**Dimensions**

- **Indoor Unit / 4-Way Cassette**
- **Dimensions (mm)**
  - Width: 265
  - Height: 850
  - Depth: 256

**A Drain Height of Approx. 850 mm from the Ceiling Surface**

The drain height can be increased by approximately 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.

**Drain Pump of project or 33.5 mm**

*1: Air inlet kit is necessary. Filter size: 500 x 500 x 16
Indoor Unit
Under Ceiling

Providing outstanding energy-saving performance, comfort and long-distance air flow 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
Optimization 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

Comfortable, Long-Distance Air Flow 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>Ceiling height</th>
<th>Air flow distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3m^2</td>
<td>100m</td>
</tr>
<tr>
<td>4.3m</td>
<td>125m</td>
</tr>
<tr>
<td>4.3m</td>
<td>140m</td>
</tr>
</tbody>
</table>

* Results are based on specific testing conditions

ECONAVI ready
CZ-CENSC1
CZ-RTC3
CZ-RTC4
NEW
### Dimensions

1. Drain port V02 (inside diameter 80mm, drain hose supplied)
2. Left drain position
3. Refrigerant liquid tubing (outside diameter 15.88mm, flare connection)
4. Refrigerant gas tubing (outside diameter 15.88mm, flare connection)
5. Left side drain hose outlet port (cutout)
6. Tubing hole on wall surface (drawn)
7. Right side drain hose outlet port (cutout)
8. Wireless remote controller receiver installation location

### Dimensions Table

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>6.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Power source</td>
<td>Single-phase</td>
<td>1-phase/50Hz</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>kW</td>
<td>6.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>kW</td>
<td>7.1</td>
<td>4.0</td>
</tr>
<tr>
<td>BTU/h</td>
<td>23,900</td>
<td>12,100</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Cooling / Heating</td>
<td>Cooling / Heating</td>
</tr>
<tr>
<td>kW</td>
<td>6.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Net height</td>
<td>mm</td>
<td>mm</td>
</tr>
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<tr>
<td>Net height</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>Outdoor Unit</td>
<td>Cooling / Heating</td>
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<td>4.0</td>
</tr>
<tr>
<td>Net height</td>
<td>mm</td>
<td>mm</td>
</tr>
</tbody>
</table>

### Optional Controller

- ECONAVI sensor
- Deluxe Wired remote controller: CZ-RTC3
- Wired remote controller: CZ-RWST3N
- Wireless remote controller: CZ-RWST8M
- Simplified remote controller: CZ-RWST4
## Controllers

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

### ECONAVI Sensor [CZ-CENSC1]

Utilizes ECONAVI Sensor and Control Program technologies to detect where energy is normally wasted and self-adjust cooling power to reduce energy waste.

- Activity detection
- Absence detection

### Operation System

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Individual Control Systems</th>
<th>Timer Operation</th>
<th>Centralised Control Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-spec operation</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
</tr>
<tr>
<td>Normal operation</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
</tr>
<tr>
<td>Operation from anywhere in the room</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
</tr>
<tr>
<td>Quick and easy operation</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
<td>CZ-RTC3, CZ-RTC4</td>
</tr>
<tr>
<td>Daily and weekly program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation with various functions from centre station</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Only ON/OFF operation from centre station</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simplified load distribution ratio (LDR) for each tenant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touch screen panel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### External Appearance

- Deluxe Wired Remote Controller
- Timer Remote Controller (Wired)
- Wireless Remote Controller
- Simplified Remote Controller
- Schedule Timer
- System Controller
- ON/OFF Controller
- Intelligent Controller

### Built-in thermostat

<table>
<thead>
<tr>
<th>Type, model name</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in thermostat</td>
<td>CZ-RTC3, CZ-RTC4</td>
</tr>
</tbody>
</table>

### Number of indoor units which can be controlled

<table>
<thead>
<tr>
<th>Number of indoor units which can be controlled</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 group, 8 units</td>
<td>Function ON/OFF</td>
</tr>
<tr>
<td>1 group, 8 units</td>
<td>Mode setting</td>
</tr>
<tr>
<td>1 group, 8 units</td>
<td>Fan speed setting</td>
</tr>
<tr>
<td>1 group, 8 units</td>
<td>Temperature setting</td>
</tr>
<tr>
<td>64 units, max. 64 units</td>
<td>Air flow direction</td>
</tr>
<tr>
<td>64 units, max. 64 units</td>
<td>Permit/Prohibit switching</td>
</tr>
<tr>
<td>64 units x 4 links, max. 256 units</td>
<td>Weekly program</td>
</tr>
</tbody>
</table>

### Use Limitations

- Up to 2 controllers can be connected per group.
- Up to 2 controllers can be connected per group.
- Up to 2 controllers can be connected per group.
- Required power supply from the system controller.
- Connection is possible to the T10 terminal of an indoor unit.
- A communication adaptor (CZ-CFUNC2) must be installed for three or more links.

### Function

<table>
<thead>
<tr>
<th>Function</th>
<th>ON/OFF</th>
<th>Mode setting</th>
<th>Fan speed setting</th>
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</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.

---

**Panasonic**

**controllers**

**ECONAVI Sensor [CZ-CENSC1]**

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- Wireless Remote Controller
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- System Controller
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<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.
Individual Control Systems

Control contents | Part name, model No | Quantity |
--- | --- | ---
Standard Control | Timer remote controller CZ-RTC4 / CZ-RTC3 | 1 unit each
| Simplified remote controller CZ-RE2C2 | |
| Wireless remote controller CZ-RWSU2N / CZ-RWST3N / CZ-RWSK2 + CZ-RWSC3 | |

(1) Group control
- Each 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.

(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 all indoor unit.

---

SYSTEM EXAMPLE

**Deluxe wired remote controller (CZ-RTC3)**

- **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
  - PC setting mode
  - Test Run
  - Sensor Information*
  - Service check
  - Simple/ Detailed Settings
  - Auto address

* Subject to the connected model

**Timer remote controller (CZ-RTC4)**

- **Basic remote controller ON/OFF**
  - Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
  - Temperature setting (Cooling/Dry: 18-30 deg, Heating: 16-30 deg).
  - 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.

- **Max. 8 indoor units can be controlled from one remote controller**
  - Remote control by main remote controller and sub controller is possible

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

When CZ-RWSC3 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).

Dimensions
H 120 x W 70 x D 17 mm

For 4-Way cassette type CZ-RWGS2/3N

For all Ducted types CZ-RWSC2 + CZ-RWSC3

For under ceiling type CZ-RWST3N

Simplified remote controller (CZ-RE2C2)

A remote controller with simple functions and basic operation
- Suitable for open rooms or hotels where detailed functions are not required.
- ON/OFF, operation mode switching, temperature setting, wind velocity switching, wind direction setting, alarm display, and remote controller self-diagnosis can be performed.
- Batch group control for up to 8 indoor units.
- Remote control by main remote controller and sub controller is possible with a simplified remote controller or a wired remote controller (up to two units).

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

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.
  4-5 (Static output): 12V output when some errors occur / No output at normal.

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

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)
Remote Controller External Dimensions

**DELUXE WIRED REMOTE CONTROLLER (CZ-RTC3)**

**TIMER REMOTE CONTROLLER (CZ-RTC4)**

**WIRELESS REMOTE CONTROLLER**

**SEPARATE RECEIVER FOR WIRELESS REMOTE CONTROLLER (CZ-RWSC3)**

**SYSTEM CONTROLLER (CZ-64ESMC2)**

**Simplified Remote Controller (CZ-RE2C2)**

**Remote Sensor (CZ-CSRC3)**

**ECONAVI SENSOR (CZ-CENSC1)**

**Communication Adaptor (CZ-CFUNC2)**

**Intelligent Controller (CZ-256ESMC2)**

**On/Off Controller (CZ-ANC2)**

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

**LONWORKS INTERFACE (CZ-CLNC2)**

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