### **Panasonic**®

#### Building Passion, Building Solutions. Panasonic Air Conditioning Systems

We face a time in which "quality air" differentiates business. It's a time for Panasonic to fully display its strengths. Our ability to assemble and build superior systems isn't just due to the rich resources we have as a comprehensive electronics manufacturer, but also to Panasonic's 100 years of tradition, where each person thinks and acts on their own initiative while working in a team to reach further heights. We do not compromise. Each of our independent selves is a one stop solution. We face our customers' challenges together with our customers and do all that we can to build effective systems. As a true partner for our customers, we strive to always be at the forefront of business.

Authorised Dealer

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of March 2021.
- $\blacksquare$  Due to printing considerations, actual colours may vary slightly from those shown.
- $\blacksquare$  All graphics are provided solely for the purpose of illustrating a point.



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

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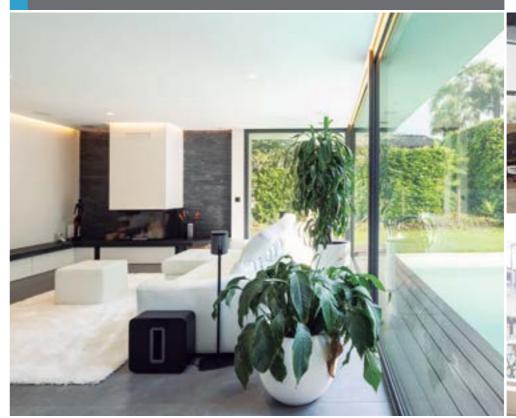
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aircon.panasonic.com.au

### **Panasonic**

R32 RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING 2021 / 2022













A Better Life, A Better World

QUALITY AIR FOR LIFE

# The new Panasonic NX series The next generation is now

The new CONEX remote controller (CZ-RTC6BLW/CZ-RTC6Z) multiplies the benefits of a standard nanoe<sup>™</sup> X installation, letting you create clean, healthy air in your living spaces 24 hours a day, anytime, anywhere. Choose your quality of air - a new era in

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24-hour\*
nanoe™ X Air purification

# **B**•nanoe<sup>\*</sup>



#### 24-hour nanoe™ X Air purification

air conditioning solutions is here.

Unlike the general filters found in an air purifier, nanoe  $^{\text{TM}}$  X achieves a powerful inhibiting effect on not only airborne, but also adhered bacteria and viruses.

#### Make comfort more accessible with CONEX

CONEX goes beyond simple remote control to combine sophistication with simplicity, offering IoT integration that connects directly to a variety of apps for next-generation solutions.



#### Maximum versatility adaptive ducted unit

Designed to deliver flexibility, performance, and comfort, Panasonic introduces an industry-leading horizontal/vertical design featuring powerful 150Pa static pressure in a compact unit.

### Product Line-up

		Cooling Capacity	У	2.5 kW	3.6 kW	5.0 kW	6.0 kW	7.1 kW	10.0 kW	12.5 kW	14.0 kW	16.0 kW	18.0 kW	20.0 kW	22.4 kW
		Ducted	NX Series High Static Ducted High Static Pressure Model  Page 42-45 for 6.0kW to 16.0kW  Page 42-45 for 6.0kW to 16.0kW				S-60PE3R	S-71PE3R	S-100PE3R	S-125PE3R	S-140PE3R	S-160PE3R			
			Splittable Ducted High Static Pressure Model  Page 46-47 for 18kW - 22.4kW										S-180PE3R5B	S-200PE3R5B	
			NX Series Adaptive Ducted High Static Pressure Model  Page 48-51  Page 48-51		S-3650PF3E	S-3650PF3E		S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E				
_	Indoor Unit Cassette	Cassette	NX Series 4-WAY Cassette Panel is provided as an option (CZ-KPU3H/CZ-KPU3A)  Page 54-57  RONAL PROPERTY OF THE				S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E				
For Medium Sized Project			NX Series Low Profile Mini Cassette Page 58-59	S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E								
	Under	Under Ceiling	NX Series  Page 60-63  Page 60-63  Range X Generator Mark 2 ECONAVI ready					S-6071PT3E	S-1014PT3E		S-1014PT3E				
		Wall Mounted	NX Series  Page 64-65  Page 64-65  Page 64-65  Conance X Generator Mark 2  ECONAVI ready						S-100PK3R						
	Outdoor	NX Series*1 *1 Except 16kW onwards	R32 Deluxe Model  Page 32-41  Control of the contro					U-71PZH3R5	U-100PZH3R5 U-100PZH3R8* <sup>2</sup>	U-125PZH3R5 U-125PZH3R8* <sup>2</sup>			U-180PZH2R8*2	U-200PZH2R8*2	U-224PZH2R8*2
	Unit		R32 Compact Model Page 32-41  R32  CREENING Page 32-41	U-25PZ3R5	U-36PZ3R5	U-50PZ3R5	U-60PZ3R5	U-71PZ3R5	U-100PZ3R5 U-100PZ3R8* <sup>2</sup>	U-125PZ3R5 U-125PZ3R8*2	U-140PZ3R5 U-140PZ3R8* <sup>2</sup>				* <sup>2</sup> 3 phase
For	Indoor	Ducted	Ultra Slim Ducted Page 52-53	CS-Z25UD3RAW (	CS-Z35UD3RAW CS	S-Z50UD3RAW	CS-Z60UD3RAW								
Small Sized Project	Unit	Floor Console	Page 66-67  • nance X  nance X Generator Mark 1	CS-Z25UFRAW	CS-Z35UFRAW C	S-Z50UFRAW									
	Outdoor Unit	R32 Model	Page 38-41	CU-Z25UBRA	CU-Z35UBRA C	U-Z50UBRA	CU-Z60UBRA								

**Panasonic** nanoe™ X

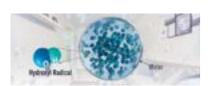
# 24-hour nanoe™ X Air purification\*

While the general filters in air purifiers are effective against airborne bacteria and viruses, nanoe™ X also works to inhibit longer-living, adhered bacteria and viruses. As well as this, the CONEX remote control (CZ-RTC6BLW/CZ-RTC6Z) gives you access to your air conditioner anywhere, anytime, so you can turn



\*1 The nanoe™ X mode can be run independently from cooling or heating mode, and needs to be on for the 24 hour air purification to function.

#### How does nanoe<sup>™</sup> X technology work against viruses?



#### Huge Quantity

9.6 trillion hydroxyl radicals are generated per second, inhibiting bacteria and adhered viruses. (nanoe X Generator Mark 1 generates 4.8 trillion hydroxyl radicals/ sec)



#### **2** Longer lifespan

By creating hydroxyl radicals contained in water, nanoe™ X technology, increasing hydroxyl radicals lifetime so that nanoe™ X can spread over long

https://www.panasonic.com/global/consumer/



#### Actively fill the room

Going beyond standard filter technology, hydroxyl radicals circulate throughout rooms inhibiting both airborne and adhered bacteria

#### Effective on Adhered Pollutants

nanoe™ X penetrates deep into fabrics and deodorises. inhibits bacteria, viruses, mould, allergens, pollen and hazardous substances.

nanoe™ X extensively spread out through the room to inhibit adhered pollutants adhering to surfaces, while air filters only collect airborne dust but adhered substances.





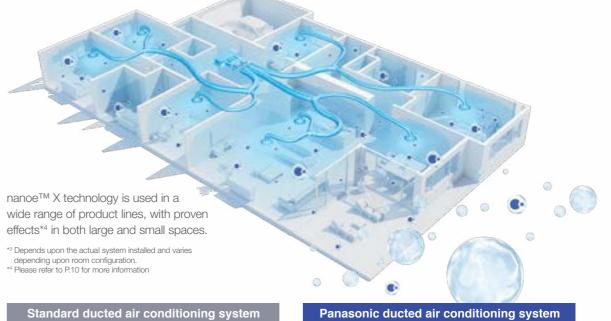


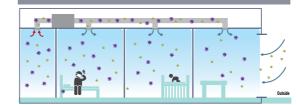




#### **R**•nanoe<sup>™</sup>X

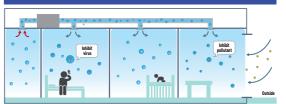
#### nanoe<sup>™</sup> X works even in larger space<sup>\*</sup>





Viruses or bacteria carried by a room's occupants, as well as external pollutants from open windows, may actually be circulated around a home by conventional air conditioning.

#### with nanoe™ X



With a nanoe™ X-equipped ducted unit, it's not only viruses and bacteria that are circulated, the ducted unit itself produces a massive 9.6 trillion hydroxyl radicals per second which are delivered to rooms throughout the house, inhibiting viruses and bacteria.

#### 24hr nanoe<sup>™</sup> X comfort, wherever you are, anywhere, anytime

Get 24 hr Quality Air for you and your loved ones by turning nanoe™ X on using Panasonic Comfort Cloud\*<sup>5</sup> even when you're out, and enjoying clean air when you're at home. nanoe™ X functions in both cooling and heating modes and is maintenance-free, helping you keep your costs down with cleaner air.



- Wireless LAN Remote Control for Internet Connection required optional network adapto
- ndoor temperature display and some special function are not available through the App for some models Energy consumption may vary depending on models and the external static pressure

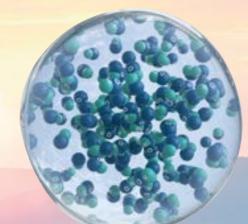
**Panasonic** nanoe™ X

# Bringing nature's balance indoors

nanoe™X technology with the benefits of hydroxyl radicals

The well-being benefits of nature are well known - but do you know the power of hydroxyl radicals?

Abundant in nature, hydroxyl radicals (also known as OH radicals) inhibit pollutants, viruses and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a clean and pleasant place to be, whether at home, at work, visiting hotels, shops or restaurants.

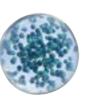


Hydroxyl radicals contained in water

#### A naturally occurring process

Hydroxyl radicals are unstable molecules looking to react with other elements like hydrogen molecules of pollutants. Thanks to this reaction, hydroxyl radicals inhibit the growth of pollutants such as viruses, bacteria, moulds, and odours, breaking them down and neutralising the unpleasant effects. This naturally occurring process has major benefits to improve indoor air quality.





Bringing nature's balance indoors nanoe™ X technology with the benefits of hydroxyl radicals

#### nanoe<sup>™</sup> X technology with the benefits of hydroxyl radicals

Panasonic's nanoe<sup>™</sup> X technology takes a step further and brings nature's detergent - hydroxyl radicals - indoors to help create an ideal environment.

By creating hydroxyl radicals contained in water, nanoe™ X technology significantly boosts their effectiveness, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds - 10 minutes.

https://www.panasonic.com/global/consumer/clean/hydroxyl/technology.html





Hydroxyl radicals in nature

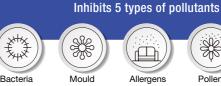
Hydroxyl radicals contained in water

#### **R**•nanoe<sup>™</sup>X

#### Effectiveness of nanoe<sup>™</sup> X

nanoe™ X deodorises, inhibits bacteria & viruses, mould, allergens, pollen and hazardous substances, as well as moisturising the whole room for smoother skin and hair.













For further details and validation data, please refer to the following website: https://aircon.panasonic.com/introducing/whats\_nanoe/nanoex.html











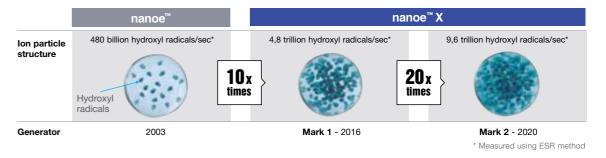
nanoe™ X reliably reaches pollutants.

Hydroxyl radicals transform pollutants' proteins

Pollutants activity is inhibited.

#### The evolution of nanoe<sup>™</sup> X technology

Through continuous research and development, nanoe™ X is the latest generation of Panasonic nanoe technology.



#### Sensitive Choice (National Asthma Council Australia) Approved

Sensitive Choice is a community service program that aims to educate people on the importance of managing asthma and allergies. Developed by the National Asthma Council Australia in 2006, the program also encourages companies to produce products and services that are more asthma and allergy aware. Panasonic and Sensitive Choice have partnered to introduce nanoe™ X to the Australian market.



**Panasonic** nanoe™ X



#### Verification tests for nanoe™ X effects in large spaces



#### The nanoe™ X inhibited hexadecane, a chemical contained in PM2.5 (267 m<sup>2</sup>)

3rd party

A third-party certification organization SIRIM Berhad (SIRIM)\*1, conducted the performance experiment using a 4-Way Cassette equipped with a nanoe™ X device to inhibit hexadecane\*2, a chemical contained in PM2.5.

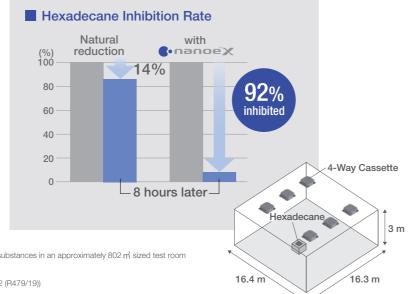


\*1 SIRIM is a premier industrial research and technology organisation in Malaysia, a wholly-owned company of the Malaysian Government under the Ministry of International Trade and Industry (MITI). <sup>2</sup> Hexadecane is a hazardous substance

contained in gasoline and diesel exhaust gas

Testing method: Measured the amount of attached organic substances in an approximately 802 m<sup>3</sup> sized test room Inhibition method: nanoe X Generator Mark 1 released Test substance: Hexadecane

Test result: Broken down 92% in 8 hours (FTBC257/16/1402 (B479/19))



#### The nanoe™ X reduced the odours adhering to fibers such as curtains and carpets (139m<sup>2</sup>)

#### 3rd party

#### Cigarette smoke odour

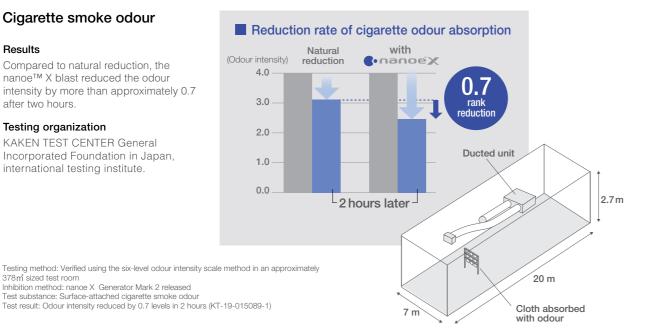
#### Results

Compared to natural reduction, the nanoe™ X blast reduced the odour intensity by more than approximately 0.7 after two hours.

#### Testing organization

378 m sized test room

KAKEN TEST CENTER General Incorporated Foundation in Japan, international testing institute.



#### The effects of nanoe™X are recognised by experts in each field



Masafumi Mukamoto

Osaka Prefecture University Veterinary Infectious Disease Studies











Various types of moulds enter houses along with people and air. Even if preventive action is taken in our everyday lives, it is often very difficult to inhibit the growth of mould, especially in humid environments. With nanoe™ X, we have experimental results\*\*\* that show we can inhibit the growth of the types of mould and bacteria commonly found in various places in the house.

#### Hope for the creation of more comfortable spaces for those who have problems with asthma or atopic dermatitis



Professor Masahiro Sakaguchi

Azabu University School of Veterinary Medicine Laboratory of Veterinary Microbiology I









We have experimental results that show nance™ X is capable of inhibiting allergens, such as pollen and dust mites. It is important to take precautions against the allergens that we inadvertently inhale in our daily lives.

As nanoe™ X is effective in inhibiting invisible allergens, we can expect it will create a cleaner environment. As the safety of nanoe™ X has also been verified, nanoe™ X gives peace of mind to families with small children.

<sup>\*3</sup> Experimental results show that nanoe™ X is effective in inhibiting the growth of the following types of mould and bacteria commonly found in homes:

Mould: Trichophyton, Cladosporium, Malassezia furfur, Sporothrix schenckii, Exophiala jeanselmei, Absidia corymbifera, Rhodotorula rubra, Neurospora sitophila, Schizophyllum communeBacteria: Methicillin-resistant Staphylococcus aureus (MRSA), Listeria monocytogenes, Bacillus subtilis, Mycobacterium smegmatis, Nocardia asteroids, Neisseria gonorrhoeae, Salmonella enterica subsp. Enterica, Haemophilus influenza, Campylobacter jejuni.

This verification was designed to generate basic research data on the effects of nanoeTMX on the mould and bacteria in laboratory conditions different from those found in living spaces. It was not designed to evaluate product performance.

**Panasonic** Panasonic IoT Solution

# Provide a New Gateway that Creates New Value for the Air Conditioning Business

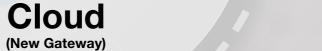
Panasonic utilises advanced IoT technology and cloud service to provide new values that go beyond just cooling and heating solutions.







**Panasonic** 





**Bldg. Owner** 







**Controller/Adaptor** 



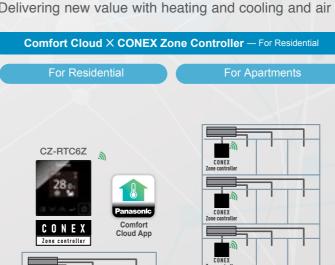
For Home Owners

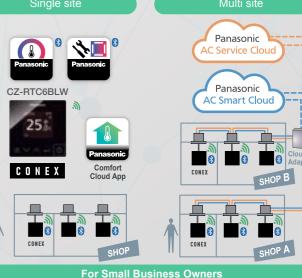


#### Panasonic IoT Solution (Remote Controllers & App)

For Small Business Owners

Delivering new value with heating and cooling and air quality solutions.





Comfort Cloud X CONEX — For Light commercial





#### Comfort Cloud x CONEX — For Light commercial

#### Comfort Cloud x CONEX Zone Controller — For Residential



#### **Pre-Cool Your Office Before Arriving**

Purifies Your Office with nanoe™ X

anytime, anywhere.



To enjoy the most comfortable day at work, pre-cool it before reaching and be greeted with a cool and pleasant



With the Comfort Cloud App, you

can easily turn on the nanoe™ mode



24-hour

#### **Conveniently Turn All OFF/ON Easily**



Never have to worry about individually switching OFF/ON your air conditioner units. With a tap, you can turn all your air conditioner OFF/ON.





#### **Group Status**



#### **Statistics**



#### **Requirements for Connecting** with Panasonic **Comfort Cloud App**







**External Adapter, Remote Controller** 

#### **Individual Comfort and Energy Saving Airflow Volume Control**

The damper opening can be controlled with the CFC app. Adjust the air volume conveniently according to your daily life.







doesn't get too cold.

### Weekly timer

Able to set 6 timers/day. Realise optimal control day & night for your lifestyle with timers.

**Auto-optimised Comfort for Your Lifestyle** 







zone off 30 minutes later. your oversleep.

Cool your bedroom on before going to bed, living weekend mornings to suit

**Statistics** 

#### Purifies Your Room with nanoe™ X 24hr Clean air



When you go out, clean the air with the nanoe™ mode. Pre-cool the living zone according to the time you return home.





#### **Zone Status**











Network

#### Other Hardware Requirements\*





Compatible Device and Browsers 1. iOS 9.0 or above 2. Android™ 5.0 Lollipop App Store Google Play

**Download Free App** Panasonic Comfort Cloud app

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Note: Product images not to scale. Note: Product images not to scale.



User friendly interface with stylish design measuring just 86 x 86 mm, CONEX is an extremely compact remote controller which looks great in any room.

# Easy control and access for end users, installers, and service partners with just one remote

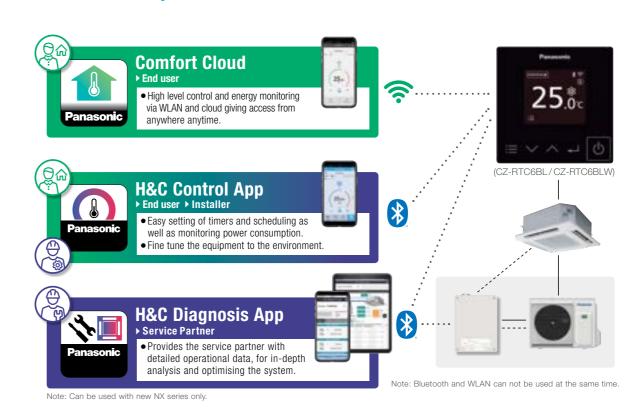
User-friendly day-to-day operation for end users, simplified set up for installers, and convenient after-sales service access for service partners - all with one remote control.





(CZ-RTC6BL/CZ-RTC6BLW)

A next-generation remote control solution optimised for usability, whatever your needs



#### True-comfort for end user— Comfort Cloud App

Panasonic

With Comfort Cloud, even when you are out, at anytime, you can maintain air quality as you please.



#### .



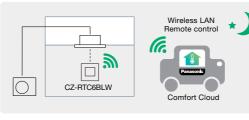
For restaurant owners

Remote control makes 24-hr nanoe™X

air purification\*1 in restaurants a

reality, even when they're closed.

Air conditioning before opening and give visitors a more comfortable experience.





Air conditioning before your guests arrive and give them the welcome they deserve.

<sup>\*1</sup> The nanoeTM X mode can be run independently from cooling or heating mode, and needs to be on for the 24 hour air purification to function.

#### ■ True-comfort for end user and installer — H&C Control App

H&C Control App makes complex initial set-up easy and allows you to respond swiftly to clients' requests via Bluetooth using a smartphone or tablet.





#### Advantages

#### Comfort day-to day operations

It's now simpler than ever for end users to further customise settings to meet their needs and perform operations including basic settings.

### Straightforward suggestions to clients

Share a single screen with your customer and together tailor everything to meet their needs, from basic setup to weekly timers, all in real time.

### Intuitive operation for easy configuration

Simplified initial controller configuration together with easy access to comprehensive settings including weekly timer and maintenance.

### Quicker configuration for multiple controllers

Save time with templates - Copy weekly timers and settings to multiple controllers.





#### ■ True-comfort for service partners — H&C Diagnosis App

The H&C Diagnosis app allows users to intuitively browse current stats and information about an air conditioner via Bluetooth® using a smartphone or tablet and without the need to use a PC.





#### Advantages

#### Acquire diagnostic information from both outside and inside

Outdoor diagnosis is now possible via a new service checker interface\*1. With CONEX, operation status can be checked and failure can be diagnosed from indoors too. The information you need is now available via both indoor and outdoor units even when site access may be difficult for either indoor or outdoor unit.

 $^{\star \rm 1}$  Available as a spare part, compatible with new NX series only.

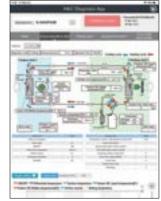
### Acquire the information you need intuitively and quickly

Easy access to real-time service parameters and service checker data allows for more accurate repairs. Actual real-time operation data can be toggled between system and refrigerant circuit views, and previously recorded data can be viewed in the history.

A comprehensive error code table and guide gives details of error codes and how to handle them.



Refrigerant circuit view



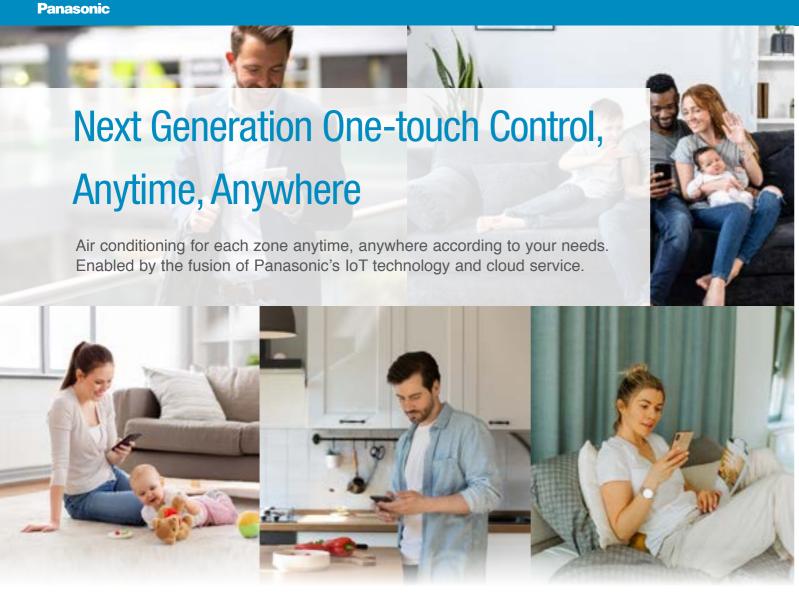
Real time data



History data



New service checker interface (Details are written in P.81)



## Comfortable Zone Air Conditioning with Stress-free Operation



#### **Individual comfort**

Airflow volume control

The damper opening can be controlled with the Comfort Cloud App.
Easily adjust airflow volume according to your







### Auto optimised comfort for your lifestyle

Weekly Timer

You can set 6 timers per day.
Use timers to enjoy optimal control day and night to match your lifestyle.

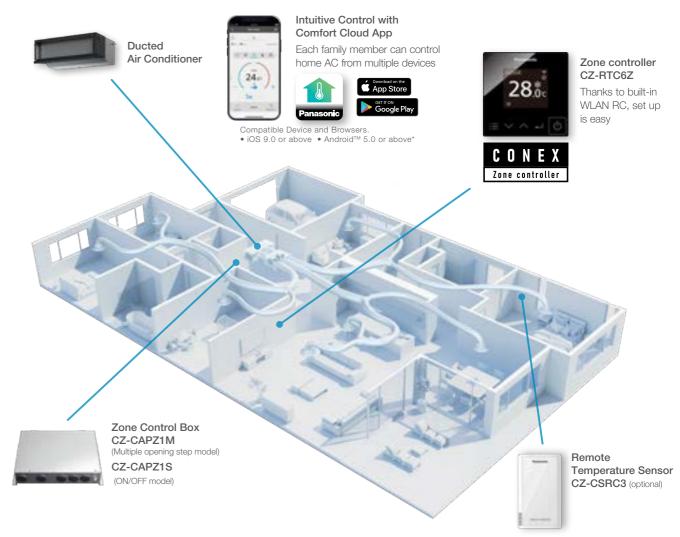


### Enable comfort for whole family

•Target temperature control

The temp targeted zone can be switched easily according to how you and your family spend time, making the whole family comfortable.

#### Manage Up to 8 Zones with an Advanced Zone Control System



#### •The following equipment is required for use

Damper and Damper Motor (locally supplied) /Transformer (locally supplied)

- \* iOS is the name of the OS of Apple Inc. iOS is a trademark or registered trademark of Cisco in the US and other countries where it is licensed for use.
- Apple and the Apple logo are trademarks of Apple Inc. that are registered in the US and other countries. App Store is a service mark of Apple Inc.
- \* Android™, Google Play™ and Google Play™ logos are registered trademarks of Google LLC.

#### **Usable indoor units**

Zone Controller can be connected with 3.6 kW to 22.4 kW Ducted (PE3 and PF3) Indoors and VRF Ducted units (M1, E1, E2, E1R, F2, F3 and Z1).



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\*Connectable to selected Panasonic ducted models only, please consult Panasonic for more details.

Series	PE3	PF3	MM1	ME1	ME2	ME1R	MF2	MF3	MZ1
Capacity	6.0 kW- 22.4 kW				18.0 kW- 28.0 kW		2.2 16.0		2.2 kW- 7.3 kW

Note: Product images not to scale.

#### Various Operations for Each Zone via Comfort Cloud App. 🕮 📖





#### **Damper Position Control**

The damper opening of each zone can be controlled with the Comfort Cloud App to achieve both individual zone comfort and energy saving.

#### **Adjust Damper Position**



#### ON/OFF nanoe™ X

With the Comfort Cloud App, you can easily turn on nanoe™ anytime, anywhere.



Clean the room air even while you're away from home

Turn ON the nanoe™ Mode with Cooling or Heating ON





Turn ON the nanoe™ Mode

Main screen

Main screen nanoe™ mode

#### **Weekly Timer**

Setting timers according to your lifestyle for a week automatically provides comfortable air conditioning.

#### Add/Delete/Edit Timer



Possible operations

Add new timer Select the day of the - Edit each timer

#### Target Temperature Control

Easy switching temp targeted zone makes whole family comfortable.

#### **Control Multi Temperature**



From a max 5 temp sensors, you can choose the Master temp sensor, and use it to set the targeted zone for AC control.

#### Auto mode

AC runs to reach to the lowest temp sensor (cooling) among all sensors. Possible to change aster sensor manually.

When shipped from the factory, Indoor unit sensor is set as the



#### **Statistics**

Displays approximate power consumption, room temperature or outdoor temperature.

#### **Track Energy Consumption**



Check in 4 periods

#### **Notification**

Identify errors by checking error notifications to inform your technician to quickly repair your air conditioner.

#### **Error Notification**



Peace of mind just in case

You can contact the service immediately after being notified on your

Main screen

#### Various Operations for Each Zone via CONEX Zone Controller



#### **Basic Operation**

With the CONEX Zone Controller, as with the Comfort Cloud App, you can easily set the temperature, mode, and fan speed.



**Zone List** 



displayed, you cannot operate the zone.



The spill zone is set at the time of installation, and the damper automatically opens to reduce the static pressure when the static pressure is likely to exceed the

#### ON/OFF nanoe™ X

The CONEX Zone Controller lets you easily turn ON the nanoe<sup>TM</sup> mode anytime. Thanks to nanoe<sup>TM</sup> X, several types of pollutants are inhibited.



**Target Temperature Control** 

Target temperature control enables ideal temperature control with a temperature sensor. With the CONEX Zone Controller, you can easily select the remote temperature sensor.









Controllable Function List RC and App	Zone Controlle	er (CZ-RTC6Z)	Comfort Cloud
Controllable Full Cuoti List no and App	ON/OFF (CAPZ1S)	Multiple (CAPZ1M)	APP
Function			Panasonic
Power ON/OFF	✓	✓	✓
Temperature setting	✓	✓	✓
Fun Speed Setting	✓	✓	✓
Mode Selection	✓	✓	✓
Zone ON/OFF	✓	✓	✓
Damper Step Settings	_	✓	✓
Weekly Timer	_	_	✓
nanoe™ X ON/OFF	✓	✓	✓
WLAN Settings	✓	✓	_
Enter Zone Names	✓	✓	✓
Temperature Zone Setting	✓	✓	✓
Auto Sensor	✓	✓	_
Spill Zone Settings	✓	✓	✓
Spill Zone Notification	✓	✓	✓
Field Settings	✓	✓	✓
Test Run	✓	✓	_
Operate from Outside	<u>-</u>	_	✓
Operate from Any Room	_	_	✓
Multiple Users	<u>-</u>	_	✓

**Panasonic** Adaptive Ducted

# Maximum versatility adaptive ducted unit

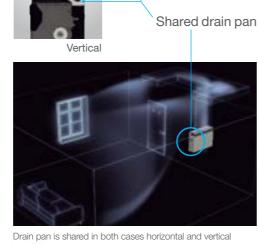
Designed to deliver flexibility, performance, and comfort, Panasonic introduces an industry-leading horizontal/ vertical design featuring powerful 150Pa static pressure in a compact unit. Leading-class noise level performance and nanoe™X technology provide comfort that's carried right the way through the ductwork.

#### Powerful 150Pa ESP in an industry-leading vertical installation

Our groundbreaking drain pan design delivers a ducted unit that can be mounted horizontally or vertically without the need for alterations\*1. Even when ceiling space for ductwork is limited, the slim design and powerful 150Pa static pressure allow for discrete placement away from rooms for total installation flexibility.

\*1 Please refer to Installation Manual for full details





Horizontal

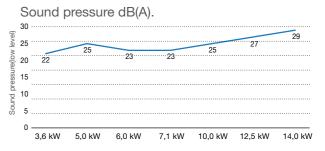
#### Top-class noise level performance

A proprietary improved casing design realises an even smoother airflow and low noise (22dB -29dB) operation while effortlessly maintaining enough pressure\*2 to deliver quiet comfort ideal for hotel and guest rooms.

\*2 Operating at 50Pa static pressure in Low fan mode.







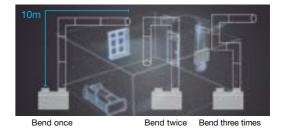
Note: Silent operation in full rated capacity

#### Superior Air Quality



The new ducted models are equipped with nanoe™ X as standard, an unique air quality improvement technology producing twice the amount of hydroxyl radicals compared to previous generations. Combined with the strong static pressure this ensures pristine nanoe™ X air travels unaffected even through multiple duct shapes at lengths of 10m, as well as making them ideal for use in larger spaces.

Note: PF3 and PE3 (16.0kW and below) ranges only.



Based on in-house test result, even with a total ductwork length up to 10m, effectiveness of nanoe™ X is maintained.

#### Power-packed lower profile body

The indoor units have also been completely renewed, offering a 40mm height reduction to only 250mm\*3 and a weight reduction of up to 10%, all while maintaining the same powerful 150 Pa.

\*3 Compared to previous PF range.





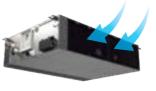


Height 290mm Weight \* 33kg

Height 250mm Weight \* 30kg Note: In the case of 6.0kW and 7.0kW.

#### Selectable air inlet position

The air inlet position is adjustable via a removable panel to allow both rear or bottom entry, depending on the duct installation.





Note: PF3 range only. Note: PF3 range only Panasonic Splittable Ducted



#### Even cooling for all rooms

#### Top Grade of Airflow Volume

Providing powerful air, Panasonic's splittable ducted has increased the rate of airflow by  $16\%^{*1}$ , reaching up to 1,400 L/s $^{*2}$ . Its powerful airflow enables faster room temperature control.





#### \*1 Comparison between S-224PE3R5B and S-224PE2R5B \*2 In case of S-224PE3R5B

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#### 3-step Static Pressure Set Up

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



#### Max.200 Pa Static Pressure Setting

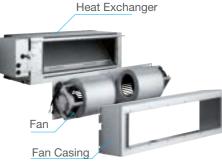
A maximum static pressure setting of a powerful 200Pa enables the use of long ducts for installation in a wide range of spaces. Ideal for large-scale houses, offices and restaurants.



#### Easy Installation Design

#### 3 Components For Easy In-Ceiling Assembly

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



#### New Ducted Model Key Factors



#### **Bell Shaped Keyhole for Weight Support**

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





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







#### 12 Bolts & Screws for Easy Assembly

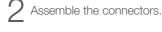
Only 12 screws and bolts need to be attached, allowing for a shorter installation time.

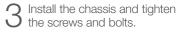
#### Easy Assembly Steps

Assembly takes three easy steps, even in limited spaces.



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











Panasonic CONEX Zone Controller

### **Component Parts Specifications & Dimensions**

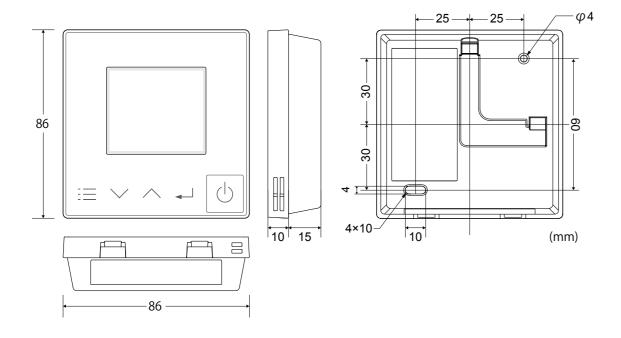
#### **Zone Remote Controller**

# 28.0c



#### Spec & dimensions

Model No.	CZ-RTC6Z
Dimensions	(H) 86 mm x (W) 86 mm x (D) 25 mm
Weight	0.10 kg
Temperature / Humidity range	0°C to 40°C / 20% to 80% (No condensation) • Indoor use only.
Power Source	DC16 V (supplied from indoor unit)
Wireless LAN standard	IEEE 802.11 b/g/n
Frequency range	2.4 GHz band
Encryption	WPA2-PSK (TKIP/AES)
OS version on the mobile device for CFC	iOS: 9.0 or later Android™: 5.0 or later



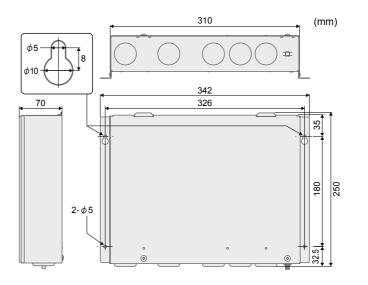
- iOS is the name of the OS of Apple Inc. iOS is a trademark or registered trademark of Cisco in the US and other countries where it is licensed for use.
- Apple and the Apple logo are trademarks of Apple Inc. that are registered in the US and other countries. App Store is a service mark of Apple Inc.
- $\bullet \ \mathsf{Android}^\mathsf{TM}, \ \mathsf{Google} \ \mathsf{Play}^\mathsf{TM} \ \mathsf{and} \ \mathsf{Google} \ \mathsf{Play}^\mathsf{TM} \ \mathsf{logos} \ \mathsf{are} \ \mathsf{registered} \ \mathsf{trademarks} \ \mathsf{of} \ \mathsf{Google} \ \mathsf{LLC}.$

#### **Zone Control Box**

#### Spec & dimensions



Model No.	CZ-CAPZ1S/CZ-CAPZ1M
Dimensions	(H) 250 mm x (W) 342 mm x (D)70 mm
Weight	1.9 kg



#### Symbols on the controller

This symbol refers to "Protective earth".

This symbol refers to "Functional earthing".

#### Damper and Damper Motor

(locally supplied)

Only drive open, drive close dampers motor can be connected. (Spring motor damper cannot be used.)

A maximum of 8 can be connected.

#### Transformer

(locally supplied)

Use models suitable for the damper motors.

Panasonic CONEX Zone Controller

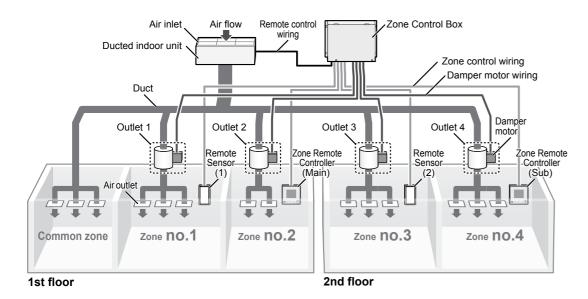
### **Zone System Outline**

#### **DUCT WORK DESIGN**

Flexible ducted design is possible. Choose between below two duct designs.

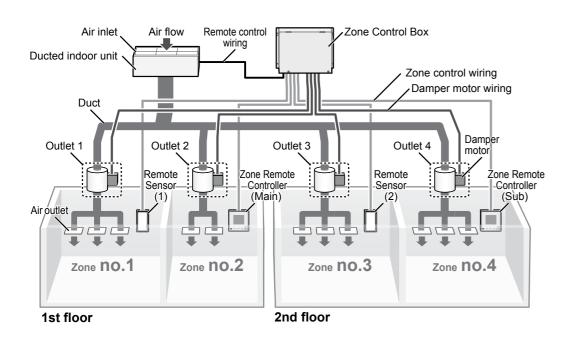
#### Using the Common Zone

Install a common zone that is always open so that the static pressure is within the indoor fan curve (the PQ diagram) range regardless of the open/closed state of the damper.

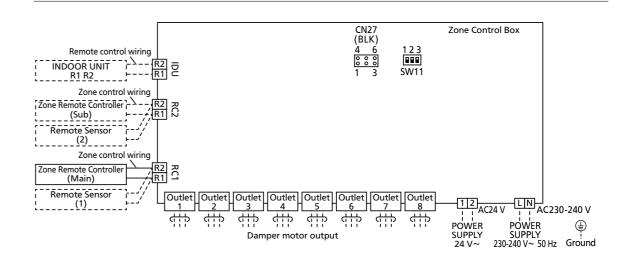


#### Using the Spill Zone

This is the installation method in which the damper specified by the installer is automatically opened fully according to the load conditions to release the air to avoid excessive static pressure.



#### **WIRING DIAGRAM**



#### DAMPER MOTOR WIRING SPECIFICATIONS

	Voltage	24 V ~		
Damper motor	Frequency	50-60 Hz		
Bumper motor	Maximum Operation Current (per damper)	360 mA or less		
	Maximum Electric Power (per damper)	7 VA or less		
	Wire diameter (mm²)	0.48 mm <sup>2</sup> or more (Min. 0.48 mm <sup>2</sup> )		
Damper motor cable	Maximum wiring length	30 m or less		
	Туре	RJ12 6-poler, 6-core		
Transformer	Input Voltage	240 ~		
Transionnel	Output Voltage	24 V ~		

<sup>\*</sup>Minimum 0.36A for one damper motor.

#### WIRE LENGTH & WIRE DIAMETER MOTOR WIRING SPECIFICATIONS

Power supply cable	Time delay fuse or circuit capacity  10-16 A			
2 mm <sup>2</sup> (Min. 2 mm <sup>2</sup> )	Time delay fuse of circuit capacity			
Max. 30 m	10-16 A			

<sup>•</sup> Remote control wiring & Zone control wiring

No polarity

Remote control wiring & Zone control wiring
0.75 mm <sup>2</sup> to 1.25 mm <sup>2</sup> (AWG#18 to AWG#16) (Min. 0.75 mm <sup>2</sup> )
Max. 50 m

Note: With ring-type wire terminal.

**Panasonic Outdoor Unit Features** 

# All side discharge R32 outdoor units

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















#### More Efficient, Less Space

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

#### All side discharge from 6.0kw to 22.4kW







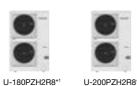














U-125PZH3R5

Industry-leading Small Body with All 1-fan Models

R32 Compa

















#### 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.



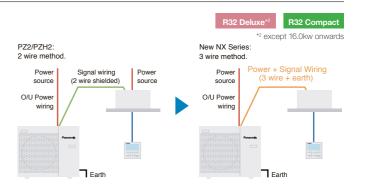
R32 Deluxe



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

#### NX Series - Refurbishing Made Easy

The new NX series has been developed to use 3-wired communication, making it simple to replace the three wire systems often used in older installations.



#### R22 Renewal. Fast, easy to install and cost-effective

Panasonic refrigerant oil is engineered to avoid the damage to units that can happen when oil types commonly found in air-conditioning systems react with each other. As well as preventing damage, this makes replacing R22 systems with the latest R32 model as simple as reusing the existing piping and replacing the indoor and outdoor unit. Switching to the latest R32 system also improves energy efficiency by approximately 30% compared to the R22 system.

Only need to replace the indoor unit. outdoor unit and some accessories Outdoor Unit

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Note: Only use existing piping after checking "IN CASE OF REUSING EXISTING REFRIGERANT PIPING" in the installation manual.

**Panasonic Outdoor Unit Features** 

#### **Outdoor Unit**

#### **Outdoor Unit Dimensions**

#### Next Generation Refrigerant: R32

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



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

R32 Deluxe

#### **Energy Saving Technology**

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



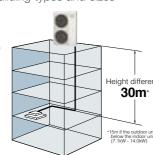
\* The graph shows 4-WAY Cassette R32 Deluxe models values \* TCSPF/HSPF is based on Commercial (Average)

#### Other Advanced Technology

#### **Increased Piping** Length for Greater Design Flexibility

Adaptable to various building types and sizes Max. piping length:

50m (7.1kW), 85m (10.0kW-14.0kW), 75m (16.0kW, 18.0kW) 60m (20.0kW, 22.4kW)



#### **Product Quality** and Safety

R32 Compact R32 Deluxe

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

#### Quiet Mode

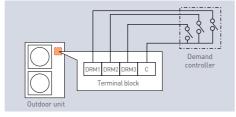
R32 Compact R32 Dela

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

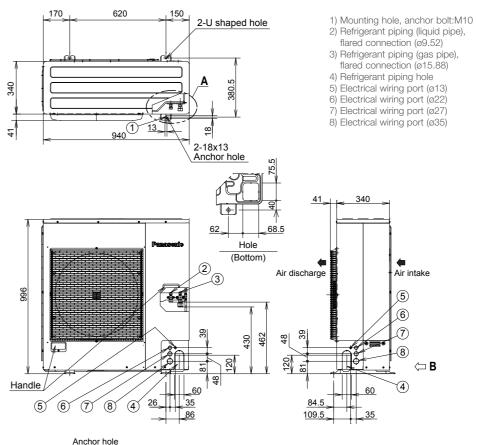


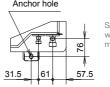
Demand control terminal is available to control 0-50-75-100% of capacities.

#### **Deluxe Model**

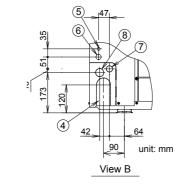
#### R32 Deluxe Model Dimensions (7.1kW)

U-71PZH3R5





Enlarged view A Refrigerant piping end connection



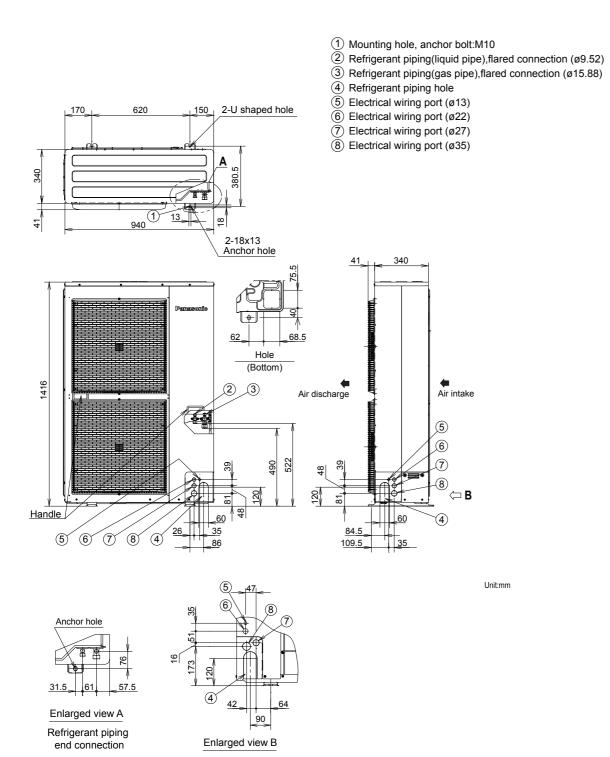
Panasonic Outdoor Unit Features

#### **Outdoor Unit Dimensions**

#### **Deluxe Model**

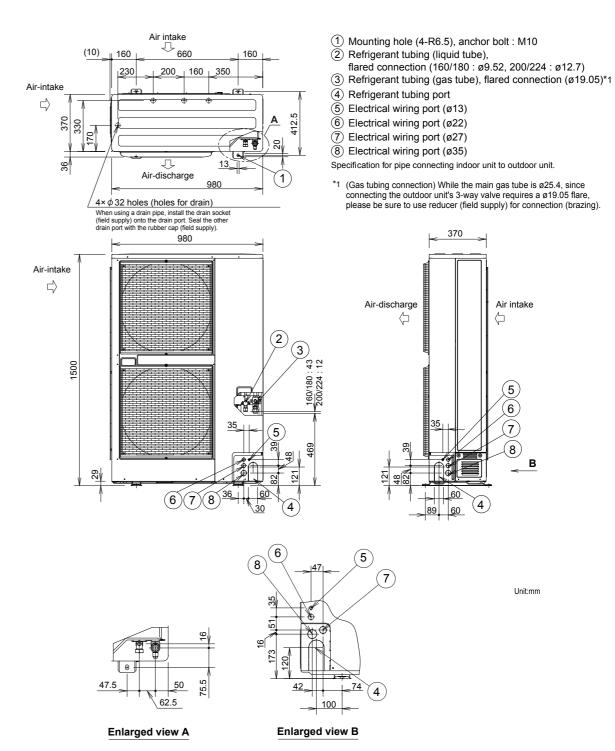
#### R32 Deluxe Model Dimensions (10.0kW – 14.0kW)

U-100PZH3R5 / U-100PZH3R8 / U-125PZH3R5 / U-125PZH3R8 / U-140PZH3R5 / U-140PZH3R8



#### R32 Deluxe Model Dimensions (16.0kW – 22.4kW)

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



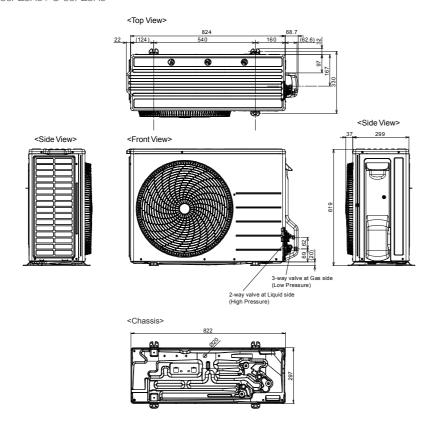
Panasonic Outdoor Unit Features

### **Outdoor Unit Dimensions**

#### **Compact Model**

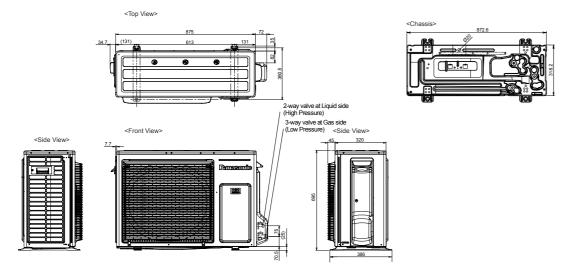
#### R32 Compact Model Dimensions (2.5kW – 5.0kW)

U-25PZ3R5/ U-36PZ3R5 / U-50PZ3R5



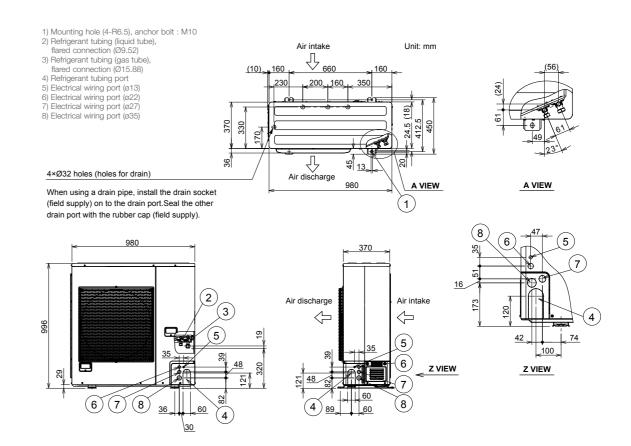
#### R32 Compact Model Dimensions (6.0kW - 7.1kW)

U-60PZ3R5 / U-71PZ3R5



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

U-100PZ3R5 / U-100PZ3R8 / U-125PZ3R5 / U-125PZ3R8 / U-140PZ3R5 / U-140PZ3R8



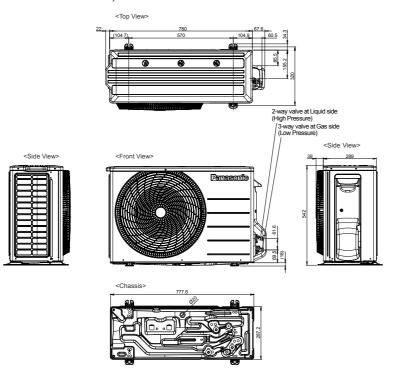
unit: mm

**Panasonic** Outdoor Unit Features

### **Outdoor Unit Dimensions**

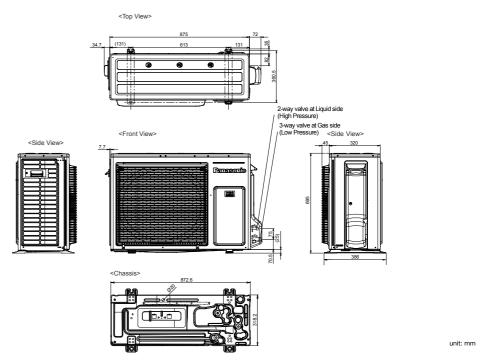
#### R32 Model

### Dimensions (2.5kW – 2.6kW) CU-Z25UBRA



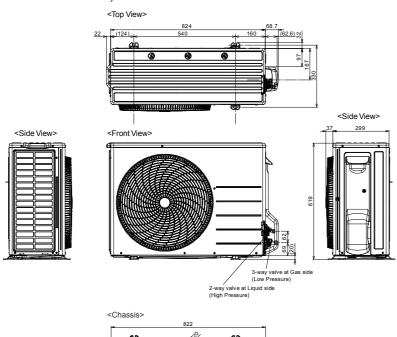
#### Dimensions (4.8kW – 5.7kW)

CU-Z50UBRA / CU-Z60UBRA



Dimensions (3.5kW – 3.7kW)
CU-Z35UBRA

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**Panasonic** High Static Pressure Ducted

# **Indoor Unit** High Static Pressure

High static and large airflow ducted for exceptional installation flexibility.











Automatic DC Motor\*1
Restart Function DC Motor\*1
\*1 only for 6.0-12.5kw





#### Technical focus

- Design flexibility thanks to high static pressure and large air volume
- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

#### 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.



S-100PE3R

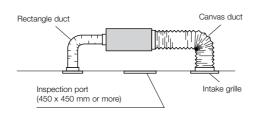




S-140PE3R S-160PE3R

#### System Example

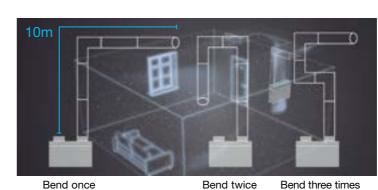
An inspection port (450 mm x 450 mm or more) is required at the control-box side of the indoor unit body.



#### Clean air. Ducts that deliver

Testing has verified that even with three bends and a total length of up to 10m, the effectiveness of nanoe™ X is maintained right through the duct to deliver clean, fresh air where it's needed.



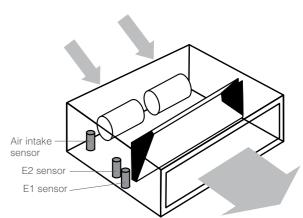


As the experiments demonstrate; even with a total ductwork length of up to 10 m, effectiveness of nanoe $^{\text{TM}}$  X is maintained.

Note: PF3 and PE3 (16.0kW and below) ranges only.

#### Cold Drafts Reduced During Heating Operation

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



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**Panasonic** High Static Pressure Ducted

#### Indoor Unit: High Static Pressure Ducted

#### High Static Pressure Duct R32 Deluxe model R32

Capacity				7.1kW	10.0kW		12.5kW		14.0kW		16.0kW	
Model Name		Indoor Unit		S-71PE3R	S-100PE3R	S-100PE3R	S-125PE3R	S-125PE3R	S-140PE3R	S-140PE3R	S-160PE3R	S-160PE3R
wodei Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5	U-125PZH3R8	U-140PZH3R5	U-140PZH3R8	U-160PZH2R5	U-160PZH2R8
			kW	7.1 (2.2 - 9.0)	10.0 (3.1 - 12.5)	10.0 (3.1 - 12.5)	12.5 (3.2 - 14.0)	12.5 (3.2 - 14.0)	14.0 (3.3 - 16.0)	14.0 (3.3 - 16.0)	16.0 (5.5 - 18.0)	16.0 (5.5 - 18.0)
Cooling capacity:			KVV	8.0 (2.0 - 9.0)	11.2 (3.1 - 14.0)	11.2 (3.1 - 14.0)	14.0 (3.2 - 16.0)	14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)	18.0 (5.5 - 20.0)	18.0 (5.5 - 20.0)
Heating capacity			BTU/h	24,200 (7,500 - 30,700)	34,100 (10,600 - 42,700)	34,100 (10,600 - 42,700)	42,700 (10,900 - 47,800)	42,700 (10,900 - 47,800)	47,800 (11,300 - 54,600)	47,800 (11,300 - 54,600)	54,600 (18,800 - 61,400)	54,600 (18,800 - 61,400
			DIU/II	27,300 (6,800 - 30,700)	38,200 (10,600 - 47,800)	38,200 (10,600 - 47,800)	47,800 (10,900 - 54,600)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)	61,400 (18,800 - 68,200)	61,400 (18,800 - 68,200
EER : COP			W/W	3.48 : <b>3.88</b>	3.79:3.78	3.79 : <b>3.78</b>	3.57: 3.80	3.57 : <b>3.80</b>	3.26 : <b>3.68</b>	3.26 : <b>3.68</b>	3.29: 3.53	3.29 : <b>3.53</b>
COP@H2 condition			W/W	2.80	2.77	2.77	2.72	2.72	2.65	2.65	2.81	2.81
Total power input		Cooling : Heating	kW	2.04 : <b>2.06</b>	2.64 : <b>2.96</b>	2.64 : <b>2.96</b>	3.50 : 3.68	3.50 : <b>3.68</b>	4.30 : 4.35	4.30 : 4.35	4.86 : 5.10	4.86 : 5.10
		Hot Climate		4.68 : <b>4.82</b>	5.04 : <b>5.10</b>	5.04 : 5.10	4.92 : 5.17	4.92 : 5.17	4.29 : 4.69	4.29 : 4.69	4.21:4.61	4.21 : <b>4.61</b>
Re	sidential	Average Climate		4.11 : 4.22	4.46:4.34	4.46:4.34	4.49 : 4.40	4.49 : 4.40	3.92 : 4.07	3.92:4.07	3.80 : 3.99	3.80 : 3.99
TCSPF : HSPF		Cold Climate		4.19 : 3.79	4.54 : 3.93	4.54 : 3.93	4.60 : 3.90	4.60 : 3.90	4.03 : 3.62	4.03 : 3.62	3.85 : 3.55	3.85 : <b>3.55</b>
ICOFF. HOFF		Hot Climate		5.15 : <b>4.85</b>	5.55 : 5.15	5.55 : 5.15	5.36 : 5.23	5.36 : 5.23	4.63 : 4.74	4.63 : 4.74	4.53 : 4.63	4.53 : <b>4.63</b>
Cor	mmercial	Average Climate		5.00 : 4.52	5.47 : 4.73	5.47:4.73	5.55 : 4.80	5.55 : 4.80	4.60 : 4.39	4.60 : 4.39	4.54 : 4.28	4.54:4.28
		Cold Climate		5.37 : 4.11	5.87 : 4.32	5.87:4.32	5.97 : 4.31	5.97 : <b>4.31</b>	4.91 : <b>3.96</b>	4.91 : 3.96	4.80 : <b>3.88</b>	4.80 : <b>3.88</b>
Indoor Unit												
Dower course			Phase/H	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Current (rated)		Cooling : Heating		_*1	_*1	_*1	_*1	_*1	_*1	_*1	2.41 : 2.41   2.38 : 2.38	2.41 : 2.41   2.38 : 2.38
Dimension H x	WxD	Indoor	mm	360 X 1,200 X 700	360 X 1,200 X 700	360 X 1,200 X 700	430 X 1,200 X 700	430 X 1,200 X 700	430 X 1,200 X 700	430 X 1,200 X 700	430 X 1,200 X 700	430 X 1,200 X 700
Net weight		Indoor	kg	36	37	37	41	41	50	50	50	50
Air volume (H/M/L)		Cooling : Heating	L/s	501 / 434 / 367 : 501 / 434 / 367	668 / 584 / 484 : 668 / 584 / 484	668 / 584 / 484 : 668 / 584 / 484	835 / 768 / 601 : 835 / 768 / 601	835 / 768 / 601 : 835 / 768 / 601	1,002 / 835 / 701 : 1,002 / 835 / 701	1,002 / 835 / 701 : 1,002 / 835 / 701	1,002 / 835 / 701 : 1,002 / 835 / 70	1,002 / 835 / 701 : 1,002 / 835 /
External static pressure			Pa	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (50 - 150*2)	100 (50 - 150*2)	100 (50 - 150*2)	100 (50 - 150*2)
Sound pressure level (H/N	M/L)	Cooling : Heating	dB(A)	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 4
Sound power level (H/M/L	L)	Cooling : Heating	dB	62 / 61 / 60 : 62 / 61 / 60	70 / 68 / 66 : 70 / 68 / 66	70 / 68 / 66 : 70 / 68 / 66	71 / 69 / 67 : 71 / 69 / 67	71 / 69 / 67 : 71 / 69 / 67	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 6
Number of fan speeds				3	3	3	3	3	3	3	3	3
Drain piping			mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Outdoor Unit												
Power source			Phase/H	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
rower source			V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	Α	9.85 : <b>9.95</b>   9.55 : <b>9.65</b>	12.8 : 14.3   12.2 : 13.7	4.25 : 4.75   4.15 : 4.60	16.7 : <b>17.6</b>   16.0 : <b>16.8</b>	5.60 : <b>5.90</b>   5.40 : <b>5.70</b>	19.7 : 19.9   18.9 : 19.1	6.60 : <b>6.70</b>   6.35 : <b>6.45</b>	20.0 : <b>21.1</b>   19.1 : <b>20.1</b>	6.95 : 7.30   6.65 : 7.00
Dimension		$H \times W \times D$	mm	996 x 940 x 340	1,416 x 940 x 340	1,416 × 940 × 340	1,416 x 940 x 340	1,416 × 940 × 340	1,416 x 940 x 340	1,416 × 940 × 340	1,500 x 980 x 370	1,500 x 980 x 370
Net weight			kg	66	99	99	99	99	99	99	117	115
Air volume		Cooling : Heating	L/s	1,018 : 1,002	1,970 : <b>1,803</b>	1,970 : <b>1,803</b>	2,087 : 1,870	2,087:1,870	2,154 : <b>1,937</b>	2,154: 1,937	2,738 : 2,738	2,738 : 2,738
Sound pressure level (Sile	ent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : <b>52 (50)</b>	52 (50) : <b>52 (50)</b>	53 (51) : <b>53 (51)</b>	53 (51) : <b>53 (51)</b>	54 (52) : <b>54 (52)</b>	54 (52) : <b>54 (52)</b>	58 (56) : <b>60 (58)</b>	58 (56) : 60 (58)
Sound power level (Silent	mode)	Cooling : Heating	dB	64 (62) : 66 (64)	68 (66) : <b>68 (66)</b>	68 (66) : <b>68 (66)</b>	69 (67) : <b>69 (67)</b>	69 (67) : <b>69 (67)</b>	70 (68) : <b>70 (68)</b>	70 (68) : <b>70 (68)</b>	76 (74) : <b>78 (76)</b>	76 (74) : <b>78 (76)</b>
Piping connections		Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø19.05	Ø9.52 / Ø19.05
Pipe length range		min max.	m	5 - 50	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 75	5 - 75
Elevation difference (OU lo	ocated lower	r, OU located higher)	m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	30, 30	30, 30
Maximum chargeless leng	gth		m	30	30	30	30	30	30	30	30	30
Refrigerant at shipping / A	Additional ga	is amount	g	R32 1,950 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,200 / 45 (g/m)	R32 3,200 / 45 (g/m)
Operating range		Cooling : Heating	°C	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 46 : -20 to 24	-15 to 46 : -20 to 24

#### D22

Capacity			6.0kW	7.1kW	10.0kW		12.5kW		14.0kW		
		Indoor Unit		S-60PE3R	S-71PE3R	S-100PE3R	S-100PE3R	S-125PE3R	S-125PE3R	S-140PE3R	S-140PE3R
Model Name		Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
			kW	6.0 (2.0 - 7.1)	7.1 (2.6 - 7.7)	10.0 (3.0 - 11.5)	10.0 (3.0 - 11.5)	12.5 (3.2 - 13.5)	12.5 (3.2 - 13.5)	14.0 (3.3 - 15.0)	14.0 (3.3 - 15.0)
Cooling capacity:			KVV	6.0 (1.8 - 7.0)	7.1 (2.1 - 8.1)	10.0 (3.0 - 14.0)	10.0 (3.0 - 14.0)	12.5 (3.3 - 15.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)
leating capacity			BTU/h	20,500 (6,800 - 24,200)	24,200 (8,900 - 26,300)	34,100 (10,200 - 39,200)	34,100 (10,200 - 39,200)	42,700 (10,900 - 46,100)	42,700 (10,900 - 46,100)	47,800 (11,300 - 51,200)	47,800 (11,300 - 51,200)
			DTO/II	20,500 (6,100 - 23,900)	24,200 (7,200 - 27,600)	34,100 (10,200 - 47,800)	34,100 (10,200 - 47,800)	42,700 (11,300 - 51,200)	42,700 (11,300 - 51,200)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)
ER : COP			W/W	3.26 : 4.08	3.21:4.25	3.58 : 4.08	3.58 : 4.08	3.55 : 4.03	3.55 : 4.03	3.25 : 3.76	3.25 : 3.76
COP@H2 condition	l .		W/W	3.00	3.11	2.88	2.88	2.56	2.56	2.68	2.68
otal power input		Cooling : Heating	kW	1.84 : <b>1.47</b>	2.21:1.67	2.79 : <b>2.45</b>	2.79 : <b>2.45</b>	3.52 : <b>3.10</b>	3.52 : 3.10	4.31:3.72	4.31:3.72
		Hot Climate		3.98 : 3.95	3.96 : 4.05	4.64 : 3.95	4.64 : 3.95	4.60 : 3.93	4.60 : 3.93	4.27 : 3.79	4.27 : <b>3.79</b>
TCSPF: HSPF —	Residential	Average Climate		3.56 : 3.88	3.59 : 4.00	4.17 : 3.81	4.17 : 3.81	4.16 : 3.79	4.16 : 3.79	3.92 : 3.64	3.92 : <b>3.64</b>
		Cold Climate		3.58 : 3.59	3.63:3.70	4.23 : <b>3.55</b>	4.23 : 3.55	4.26 : 3.47	4.26 : <b>3.47</b>	4.03 : 3.34	4.03 : 3.34
		Hot Climate		4.25 : 3.83	4.22 : 3.91	4.99:3.90	4.99 : 3.90	4.96:3.84	4.96 : 3.84	4.56 : 3.70	4.56 : 3.70
	Commercial	Average Climate		4.16 : 3.74	4.19 : 3.83	4.98 : 3.80	4.98 : 3.80	4.88: 3.73	4.88 : 3.73	4.53 : 3.58	4.53 : <b>3.58</b>
		Cold Climate		4.38 : 3.58	4.41 : 3.67	5.28 : <b>3.61</b>	5.28 : <b>3.61</b>	5.20 : 3.52	5.20 : <b>3.52</b>	4.81 : 3.40	4.81 : 3.40
door Unit									,		
ower source				1 Phase / 50Hz	1 Phase / 50Hz						
			V	230V   240V	230V   240V	230V   240V	230V   240V	230V 240V	230V   240V	230V   240V	230V 240V
imensions	$H \times W \times D$	Indoor	mm	290 x 1,200 x 700	360 x 1,200 x 700	360 x 1,200 x 700	360 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700
let weight		Indoor / Panel	kg	31	36	37	37	41	41	50	50
ir volume (H/M/L)		Cooling : Heating	L/s	367 / 334 / 267 : 367 / 334 / 267	501 / 434 / 367 : 501 / 434 / 367	668 / 584 / 484 : 668 / 584 / 484	668 / 584 / 484 : 668 / 584 / 484	835 / 768 / 601 : 835 / 768 / 601	835 / 768 / 601 : 835 / 768 / 601	1,002 / 835 / 701 : 1,002 / 835 / 701	1,002 / 835 / 701 : 1,002 / 835 /
xternal static press			Pa	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (50 - 150*2)	100 (50 - 150*2)
ound pressure leve		Cooling : Heating	dB(A)	43 / 41 / 40 : 43 / 41 / 40	45 / 44 / 43 : 45 / 44 / 43	48 / 46 / 44 : 48 / 46 / 44	48 / 46 / 44 : 48 / 46 / 44	49 / 47 / 45 : 49 / 47 / 45	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 4
ound power level (		Cooling : Heating	dB	60 / 58 / 57 : 60 / 58 / 57	62 / 61 / 60 : 62 / 61 / 60	70 / 68 / 66 : 70 / 68 / 66	70 / 68 / 66 : 70 / 68 / 66	71 / 69 / 67 : 71 / 69 / 67	71 / 69 / 67 : 71 / 69 / 67	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 6
lumber of fan spee	eds			3	3	3	3	3	3	3	3
rain piping			mm	VP-25	VP-25						
utdoor Unit											
ower source				1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
			V	230V 240V	230V 240V	230V   240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
urrent (rated)		Cooling : Heating	Α	8.50 : 6.85   8.15 : 6.60	10.3 : 8.00   9.90 : 7.65	13.9 : 12.4   13.4 : 11.9	4.45 : 3.90   4.25 : 3.70	17.0 : 15.0   16.3 : 14.4	5.40 : 4.80   5.20 : 4.55	19.7 : 17.0   18.9 : 16.3	6.60 : 5.70   6.40 : 5.50
imensions		$H \times W \times D$	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370				
et weight			kg	43	50	83	83	87	87	87	87
ir volume		Cooling : Heating	L/s	701 : 701	746 : <b>766</b>	1,219 : 1,219	1,219 : <b>1,219</b>	1,369 : <b>1,336</b>	1,369 : <b>1,336</b>	1,402 : 1,369	1,402 : <b>1,369</b>
ound pressure leve		Cooling : Heating	dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : <b>52 (50)</b>	52 (50) : <mark>52 (50)</mark>	55 (53) : <mark>55 (53)</mark>	55 (53) : <b>55 (53)</b>	56 (54) : <mark>56 (54)</mark>	56 (54) : <b>56 (54)</b>
ound power level (		Cooling : Heating	dB	66 (64) : 67 (65)	67 (65) : <b>67 (65)</b>	70 (68) : <b>70 (68)</b>	70 (68) : <b>70 (68)</b>	73 (71) : <b>73 (71)</b>	73 (71) : 73 (71)	74 (72) : <b>74 (72)</b>	74 (72) : <b>74 (72)</b>
iping connections		Liquid / Gas	mm	Ø6.35 / Ø12.7*3	Ø6.35 / Ø15.88*4	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88				
ipe length range		min max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
	1	er, OU located higher)		15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
laximum chargeles			m	30	30	30	30	30	30	30	30
efrigerant at shipp	ing, Additional ga		g	R32 1,130 / 15 (g/m)	R32 1,320 / 17 (g/m)	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)
Operating range		Cooling: Heating	°C	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24						

- Notes:

  In the case of nanoe X OFF

  In case it is necessary to indicate the air flow volume in (//s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

  AEER and ACOP classification is at 230V(400V) only in accordance with GEMS2019.

  TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.

  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.

- installed due to ambient conditions.

  1 Outdoor power supply.

  2 Not adjustable, refer to "Indoor Fan Performance" section of technical data.

  3 For pipining connection for 6.0kW unit, connect the gas socket tube (012.7-015.88) to the gas tubing side indoor unit and connect the liquid socket tube (06.35-09.52) to the liquid tubing side indoor unit.

  4 For piping connection for 7.1kW unit, connect the liquid socket tube (06.35-09.52) to the liquid tubing side indoor unit.

High Static Pressure Šplittable Ducted

# **Indoor Unit** High Static Pressure

High static and large airflow ducted for exceptional installation flexibility.

















#### Technical focus

- Easy installation with splittable chassis design
- Max. 200Pa static pressure setting\*1
- Design flexibility thanks to high static pressure and large air volume
- DC motor equipped
- \*1 In case of S-224PE3R5B

- Low power input
- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

#### Easy Installation with Light Component

Compared to conventional models, the new Panasonic splittable ducted weighs in at approximately 10%\*2 lighter. This notion is further emphasised by the unit's ability to split into three components, the heaviest of which totals at 48kg.

\*2 Comparison between S-180PE3R5B and S-180PE2R5B



#### **Dimensions of Each Component**

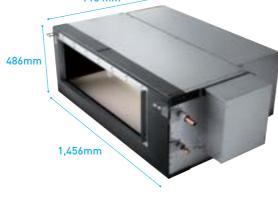


Heat Exchanger

\*3 The weight is for the 18.0kW model. (20.0/22.4kW: 48kg)



\*4 The weight is for the 18.0/20.0kW model. (22.4kW: 29kg)



360 mm

Fan Casing

11kg

### Specifications of R32 Deluxe Model R32



Capacity				18.0kW	20.0kW	22.4kW
		Indoor Unit		S-180PE3R5B	S-200PE3R5B	S-224PE3R5B
Model Name		Outdoor Unit		U-180PZH2R8	U-200PZH2R8	U-224PZH2R8
Cooling capacity:			kW	18.0 (5.5-20.0) 20.0 (5.5-22.4)	20.0 (5.7-22.4) 22.4 (5.0-25.0)	22.4 (5.7-25.0) 25.0 (4.9-28.0)
Heating capacity			BTU/h	61,400 (18,800-68,200) 68,200 (18,800-76,400)	60,000 (19,400-76,400) 76,400 (17,100-85,300)	76,400 (19,400-85,300 85,300 (16,700-95,500
EER : COP			W/W	3.20 : <b>3.75</b>	3.33 : 3.67	3.09 : 3.52
COP@H2 condition			W/W	2.90	2.70	2.60
Total power input		Cooling : Heating	kW	5.63 : <b>5.33</b>	6.00 : 6.10	7.24 : <b>7.10</b>
		Hot Climate		4.35 : 5.00	4.33 : 4.35	3.99 : 4.53
	Residential	Average Climate		3.92 : <b>4.27</b>	3.96 : 3.87	3.67 : <b>3.86</b>
		Cold Climate		4.02 : 3.74	4.03 : 3.43	3.76 : 3.38
TCSPF: HSPF		Hot Climate		4.75 : 5.03	4.64 : 4.35	4.27 : 4.65
	Commercial	Average Climate		4.77 : 4.62	4.72 : 4.08	4.30 : 4.27
		Cold Climate		5.11 : 4.12	5.00 : 3.70	4.56 : 3.77
Indoor Unit						
			Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	1 Phase / 50Hz
Power source			V	230V 240V	230V 240V	230V 240V
Current (rated)		Cooling : Heating	Α	3.10 : 3.10   3.00 : 3.00	3.30 : 3.30   3.20 : 3.20	4.20 : 4.20   4.10 : 4.1
Dimensions		H×W×D	mm	486 x 1,456 x 916	486 x 1,456 x 916	486 x 1,456 x 916
Heat exchanger		$H \times W \times D$	mm	486 x 1,456 x 558	486 x 1.456 x 558	486 x 1.456 x 558
Fan		$H \times W \times D$	mm	377 x 1.150 x 427	377 x 1.150 x 427	377 x 1,150 x 427
Case		$H \times W \times D$	mm	434 x 1,178 x 360	434 x 1,178 x 360	434 x 1,178 x 360
Net weight			kg	85	86	88
Air volume		Cooling : Heating	L/s	1,200 / 1,050 / 883 1,200 / 1,050 / 883	1,200 / 1,050 / 883 1,200 / 1,050 / 883	1,400 / 1,200 / 983 1,400 / 1,200 / 983
External static pressu	ıre		Pa	60 (60 - 150)	75 (75 - 180)	75 (75 - 200)
Sound pressure level		Cooling : Heating	dB(A)	46 / 44 / 41 : 46 / 44 / 41	46 / 44 / 41 : 46 / 44 / 41	47 / 45 / 42 : 47 / 45 /
Sound power level (H	. ,	Cooling : Heating	dB(A)	78 / 76 / 73 : 78 / 76 / 73	78 / 76 / 73 : 78 / 76 / 73	79 / 77 / 74 : 79 / 77 /
Number of fan speed			( )	3	3	3
Drain pipe size	.0		mm	VP-25	VP-25	VP-25
Outdoor Unit				*** 20	V. 20	VI 20
			Phase/Hz	3 Phase / 50Hz	3 Phase / 50Hz	3 Phase / 50Hz
Power source			V	400V 415V	400V 415V	400V 415V
Current (rated)		Cooling : Heating	A	8.00 : 7.55   7.70 : 7.25	8.45 : 8.60   8.15 : 8.30	9.95 : 9.75   9.60 : 9.4
Dimensions		H × W × D	mm	1,500 x 980 x 370	1,500 x 980 x 370	1,500 x 980 x 370
Net weight			kg	115	128	128
Air volume		Cooling : Heating	L/s	2,733 : 2,733	2,667 : 2,667	2,667 : <b>2,667</b>
Sound pressure level	(Silent mode)	Cooling : Heating	dB(A)	58 (56) : 60 (58)	58 (56) : 62 (60)	58 (56) : 62 (60)
Sound power level (S	(	Cooling : Heating	dB(A)	76 (74) : 78 (76)	77 (75) : 81 (79)	77 (75) : 81 (79)
Piping connections		Liquid / Gas	mm	Ø9.52 / Ø19.05*5	Ø12.70 / Ø19.05*5	Ø12.70 / Ø19.05*5
Pipe length		min max.	m	5 - 75	5 - 60	5 - 60
Elevation difference (	OLI located lower		m	30, 30	30, 30	30, 30
Maximum chargeless		CO .Soutou riigi loi)	m	30	30	30
Refrigerant at shippin	5	amount	g	R32 3,400 / 45/60*6 (g/m)	R32 5,200 / 80 (g/m)	R32 5,200 / 80 (g/m)
	ig / Additional gas	uniount	y	1102 0,700 / 70/00 (g/111)	1102 0,200 / 00 (g/111)	1102 0,200 / 00 (g/111)

- In the case of nance X OFF
  In case it is necessary to indicate the air flow volume in (I/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

- AEER and ACOP classification is at 230V(400V) only in accordance with GEMS2019.

  TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.

  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
- \*5 Tubing size is Ø25.40 when the piping length is over 50m for U-180PZH2R8 and 30m for U-200PZH2R8 and U-224PZH2R8.
- Also, joint needs to be prepared by the site for U-180PZH2R8 when the piping length is over 50m. Please refer to technical documents for more details.

  \*6 Additional gas amount is 45g/m when the piping length is under 50m and 60g/m when the piping length is over 50m.

#### **Indoor Unit**

High Static Pressure

# Adaptive Ducted

Control all aspects of your environment with exceptional performance and quiet operation. Vertical installation flexibility offers the perfect solution when ceiling heights are restricted.



















ECONAVI ready



#### **Technical focus**

- Space saving 250mm height
- DC fan motor for variable external static pressure control
- Easy to install and maintain

- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

#### Variable external static pressure control

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

For short ducting such as hotels

For long ducting or for usage with high density filter

Note: Please refer to technical documents for detail.

#### Powerful 150Pa external static pressure in an industry-leading vertical installation design

Delivering static pressure up to 150Pa external static pressure, the industry-leading horizontal/vertical design offers the power you need in a compact form factor.



#### Selectable air inlet position

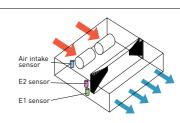
A removable panel allows air inlet position to be adjusted to enable rear or bottom entry, depending on ductwork installation.



#### Discharge air temperature control

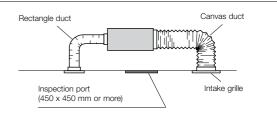
- Possible to control discharge air temperature for accurate room temperature control.
- Possible to reduce cold drafts during heating operation.

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



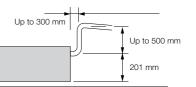
#### System example

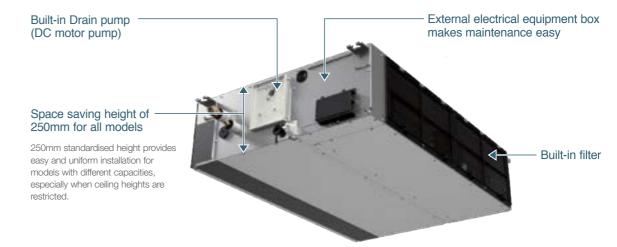
An inspection port (450 mm x 450 mm or larger) is required at the lower side of the indoor unit body.



#### More powerful drain pump

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





### Indoor Unit: High Static Pressure Adaptive Ducted

#### Specifications of R32 Deluxe Model R32

Capacity				6.8kW	9.5kW		12.1kW		13.4kW	
Madal Name		Indoor Unit		S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
Model Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5	U-125PZH3R8	U-140PZH3R5	U-140PZH3R8
			kW	6.8 (2.2 - 7.8)	9.5 (3.1 - 11.4)	9.5 (3.1 - 11.4)	12.1 (3.2 - 13.6)	12.1 (3.2 - 13.6)	13.4 (3.3 - 15.3)	13.4 (3.3 - 15.3)
Cooling capacity:			KVV	7.5 (2.0 - 9.0)	10.8 (3.1 - 13.5)	10.8 (3.1 - 13.5)	13.5 (3.2 - 15.4)	13.5 (3.2 - 15.4)	15.5 (3.3 - 17.4)	15.5 (3.3 - 17.4)
Heating capacity			BTU/h	23,200 (7,500 - 26,600)	32,400 (10,600 - 38,900)	32,400 (10,600 - 38,900)	41,300 (10,900 - 46,400)	41,300 (10,900 - 46,400)	45,700 (11,300 - 52,200)	45,700 (11,300 - 52,200)
			DI U/II	25,600 (6,800 - 30,700)	36,800 (10,600 - 46,100)	36,800 (10,600 - 46,100)	46,100 (10,900 - 52,500)	46,100 (10,900 - 52,500)	52,900 (11,300 - 59,400)	52,900 (11,300 - 59,400)
EER : COP			W/W	3.74 : 4.03	4.17 : 3.97	4.17:3.97	3.58 : 3.46	3.58 : <b>3.46</b>	3.38 : 3.44	3.38 : 3.44
COP@H2 condition	l .		W/W	2.96	2.90	2.90	2.60	2.60	2.68	2.68
Total power input		Cooling: Heating	kW	1.82 : 1.86	2.28 : <b>2.72</b>	2.28 : 2.72	3.38 : 3.90	3.38: 3.90	3.96 : 4.51	3.96 : 4.51
		Hot Climate		5.40 : 5.49	5.93 : <b>5.57</b>	5.93 : <b>5.57</b>	5.37 : 5.32	5.37 : 5.32	4.98 : <b>4.97</b>	4.98 : 4.97
	Residential	Average Climate		4.75 : 4.67	5.21 : 4.70	5.21 : 4.70	4.86 : 4.32	4.86 : <b>4.32</b>	4.55 : <b>4.15</b>	4.55 : <b>4.15</b>
TCSPF: HSPF		Cold Climate		4.82 : 4.13	5.29 : <b>4.21</b>	5.29:4.21	5.03:3.79	5.03:3.79	4.72 : <b>3.65</b>	4.72 : <b>3.65</b>
ICOFF . HOFF		Hot Climate		6.02 : 5.54	6.59 : <b>5.61</b>	6.59 : <b>5.61</b>	5.95 : <b>5.44</b>	5.95 : <b>5.44</b>	5.49 : <b>5.05</b>	5.49 : <b>5.05</b>
	Commercial	Average Climate		6.25 : 5.08	6.75 : 5.13	6.75 : 5.13	6.30 : 4.87	6.30 : 4.87	5.74 : <b>4.58</b>	5.74 : <b>4.58</b>
		Cold Climate		6.76 : <b>4.56</b>	7.28 : <b>4.65</b>	7.28 : 4.65	6.88 : <b>4.31</b>	6.88 : 4.31	6.25 : <b>4.08</b>	6.25 : <b>4.08</b>
Indoor Unit										
Dower course			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
Dimension	$H \times W \times D$	Indoor	mm	250 x 1,000 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 x 1,400 x 730	250 X 1,400 X 730	250 X 1,400 X 730	250 X 1,400 X 730
Net weight		Indoor	kg	30	39	39	39	39	39	39
Air volume (H/M/L)		Cooling : Heating	L/s	350 / 317 / 250 : 350 / 317 / 250	534 / 434 / 350 : 534 / 434 / 350	534 / 434 / 350 : 534 / 434 / 350	567 / 484 / 384 : <b>567 / 484 / 384</b>	567 / 484 / 384 : 567 / 484 / 384	601 / 534 / 417 : 601 / 534 / 417	601 / 534 / 417 : 601 / 534 / 417
External static press	sure		Pa	30 (10 - 150)	40 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Sound pressure leve	el (H/M/L)	Cooling : Heating	dB(A)	30 / 26 / 23 : 30 / 26 / 23	33 / 29 / 25 : 33 / 29 / 25	33 / 29 / 25 : 33 / 29 / 25	35 / 31 / 27 : 35 / 31 / 27	35 / 31 / 27 : 35 / 31 / 27	39 / 35 / 29 : 39 / 35 / 29	39 / 35 / 29 : 39 / 35 / 29
Sound power level (	(H/M/L)	Cooling : Heating	dB	53 / 49 / 46 : 53 / 49 / 46	56 / 52 / 48 : 56 / 52 / 48	56 / 52 / 48 : 56 / 52 / 48	58 / 54 / 50 : 58 / 54 / 50	58 / 54 / 50 : 58 / 54 / 50	62 / 58 / 52 : 62 / 58 / 52	62 / 58 / 52 : 62 / 58 / 52
Number of fan spee	eds			5	5	5	5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit										
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
rower source			V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	А	8.60 : 8.60   8.25 : 8.35	10.8 : 12.7   10.3 : 12.2	3.60 : 4.30   3.50 : 4.15	15.8 : 18.2   15.1 : 17.5	5.30 : 6.10   5.15 : 5.90	18.7 : 21.1   17.9 : 20.2	6.30 : <b>7.15</b>   6.05 : <b>6.90</b>
Dimensions		$H \times W \times D$	mm	996 x 940 x 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340
Net weight			kg	66	99	99	99	99	99	99
Air volume		Cooling : Heating	L/s	1,018 : 1,002	1,970 : <b>1,803</b>	1,970 : <b>1,803</b>	2,087 : 1,870	2,087 : 1,870	2,154 : 1,937	2,154:1,937
Sound pressure leve	el (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : <b>52 (50)</b>	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : <b>53 (51)</b>	54 (52) : 54 (52)	54 (52) : <b>54 (52)</b>
Sound power level (	(Silent mode)	Cooling: Heating	dB	64 (62) : <b>66 (64)</b>	68 (66) : <b>68 (66)</b>	68 (66) : <b>68 (66)</b>	69 (67) : 69 (67)	69 (67) : <b>69 (67)</b>	70 (68) : 70 (68)	70 (68) : <b>70 (68)</b>
Piping connections		Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length range		min max.	m	5 - 50	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85
Elevation difference	(OU located low	er, OU located higher)	m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeles	ss length		m	30	30	30	30	30	30	30
Refrigerant at shipp		gas amount	g	R32 1,950 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)
Operation ranges			°C	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24			

- In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
  • In the case of nanoe X OFF

- In case it is necessary to indicate the air flow volume in (I/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
   AEER and ACOP classification is at 230V(400V) only in accordance with

- AEER and ACOP classification is at 230V(400V) only in accordance with GEMS2019.
  TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.
  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
  H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode.
- \*1 For piping connection for 6.0kW unit, connect the gas socket tube (Ø12.7-015.88) to the gas tubing side indoor unit and connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.
  \*2 For piping connection for 7.1kW unit, connect the liquid socket tube
- (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.

#### Specifications of R32 Compact Model R32

Capacity			3.4kW	4.6kW	5.7kW	6.8kW	9.5kW		12.1kW		13.4kW	
	Indoor Unit		S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
Model Name	Outdoor Unit		U-36PZ3R5	U-50PZ3R5	U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
		kW	3.4 (1.3 - 4.0)	4.6 (1.5 - 5.3)	5.7 (2.0 - 6.3)	6.8 (2.6 - 7.7)	9.5 (3.0 - 11.4)	9.5 (3.0 - 11.4)	12.1 (3.2 - 13.5)	12.1 (3.2 - 13.5)	13.4 (3.3 - 15.0)	13.4 (3.3 - 15.0)
Cooling capacity:		KVV	3.6 (1.3 - 4.6)	5.0 (1.5 - 5.9)	5.7 (1.8 - 7.0)	6.8 (2.1 - 8.1)	9.5 (3.0 - 13.5)	9.5 (3.0 - 13.5)	12.1 (3.3 - 15.0)	12.1 (3.3 - 15.0)	13.4 (3.4 - 16.0)	13.4 (3.4 - 16.0)
Heating capacity		BTU/h	11,600 (4,400 - 13,600)	15,700 (5,100 - 18,100)	19,400 (6,800 - 21,500)	23,200 (8,900 - 26,300)	32,400 (10,200 - 38,900)	32,400 (10,200 - 38,900)	41,300 (10,900 - 46,100)	41,300 (10,900 - 46,100)	45,700 (11,300 - 51,200)	45,700 (11,300 - 51,200)
			12,300 (4,400 - 15,700)	17,100 (5,100 - 20,100)	19,400 (6,100 - 23,900)	23,200 (7,200 - 27,600)	32,400 (10,200 - 46,100)	32,400 (10,200 - 46,100)	41,300 (11,300 - 51,200)	41,300 (11,300 - 51,200)	45,700 (11,600 - 54,600)	45,700 (11,600 - 54,600)
EER : COP		W/W	3.78 : 4.29	3.19: 3.62	3.54 : 4.04	3.18 : 4.00	3.57 : <b>4.09</b>	3.57:4.09	3.40 : <b>3.56</b>	3.40 : 3.56	3.16 : 3.76	3.16 : 3.76
COP@H2 condition		W/W	3.09	3.33	3.09	2.84	2.88	2.88	2.82	2.82	2.73	2.73
Total power input	Cooling : Heating	kW	0.900 : 0.840	1.44 : 1.38	1.61 : 1.41	2.14:1.70	2.66 : <b>2.32</b>	2.66 : 2.32	3.56 : 3.40	3.56 : 3.40	4.24 : 3.56	4.24 : 3.56
	Hot Climate		5.11 : 5.05	4.67 : 5.09	5.19 : 5.76	4.57 : 5.26	5.24 : <b>5.04</b>	5.24 : <b>5.04</b>	4.90 : 5.01	4.90 : 5.01	4.75 : 4.93	4.75 : 4.93
Residential	Average Climate		4.36 : 4.57	4.23 : 4.31	4.67:4.83	4.23:4.42	4.52 : <b>4.52</b>	4.52 : <b>4.52</b>	4.42 : <mark>4.21</mark>	4.42 : <mark>4.21</mark>	4.33 : 4.18	4.33 : 4.18
TCSPF : HSPF	Cold Climate		4.36 : 4.06	4.29 : 3.79	4.82 : 4.13	4.34 : 3.82	4.62 : <b>4.06</b>	4.62 : <b>4.06</b>	4.52 : 3.68	4.52 : 3.68	4.47 : 3.63	4.47:3.63
	Hot Climate		5.77 : <b>5.01</b>	5.22 : 5.13	5.69 : 5.77	5.01 : 5.33	5.87 : <b>4.99</b>	5.87:4.99	5.40 : <b>5.06</b>	5.40 : <b>5.06</b>	5.26 : 5.01	5.26 : <b>5.01</b>
Commercial			5.84 : <b>4.72</b>	5.96: 4.69	6.00 : 5.23	5.53 : <b>4.86</b>	5.91 : <b>4.68</b>	5.91 : <b>4.68</b>	5.81 : 4.60	5.81 : 4.60	5.78 : 4.59	5.78 : <b>4.59</b>
	Cold Climate		6.41 : 4.31	6.69 : 4.19	6.54 : <b>4.60</b>	6.11 : <b>4.27</b>	6.49 : 4.31	6.49 : <b>4.31</b>	6.36 : 4.10	6.36 : 4.10	6.40 : <b>4.05</b>	6.40 : <b>4.05</b>
Indoor Unit												
Power source		Phase/H	z 1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
		V	230V   240V									
Dimensions $H \times W \times D$		mm	250 x 800 x 730	250 x 800 x 730	250 x 1,000 x 730	250 x 1,000 x 730	250 x 1,400 x 730					
Net weight	Indoor	kg	25	25	30	30	39	39	39	39	39	39
Air volume (H/M/L)	Cooling : Heating	L/s	233 / 217 / 167 : 233 / 217 / 167	267 / 250 / 200 : 267 / 250 / 200	350 / 317 / 250 : 350 / 317 / 250	350 / 317 / 250 : 350 / 317 / 250	534 / 434 / 350 : 534 / 434 / 350	534 / 434 / 350 : 534 / 434 / 350	567 / 484 / 384 : 567 / 484 / 384	567 / 484 / 384 : 567 / 484 / 384	601 / 534 / 417 : 601 / 534 / 417	601 / 534 / 417 : 601 / 534 / 417
External static pressure		Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Sound pressure level (H/M/L)	Cooling : Heating		30 / 27 / 22 : 30 / 27 / 22	34 / 30 / 25 : 34 / 30 / 25	30 / 26 / 23 : 30 / 26 / 23	30 / 26 / 23 : 30 / 26 / 23	33 / 29 / 25 : 33 / 29 / 25	33 / 29 / 25 : 33 / 29 / 25	35 / 31 / 27 : 35 / 31 / 27	35 / 31 / 27 : 35 / 31 / 27	39 / 35 / 29 : 39 / 35 / 29	39 / 35 / 29 : 39 / 35 / 29
Sound power level (H/M/L)	Cooling : Heating	dB	53 / 50 / 45 : 53 / 50 / 45	57 / 53 / 48 : 57 / 53 / 48	53 / 49 / 46 : 53 / 49 / 46	53 / 49 / 46 : 53 / 49 / 46	56 / 52 / 48 : 56 / 52 / 48	56 / 52 / 48 : 56 / 52 / 48	58 / 54 / 50 : 58 / 54 / 50	58 / 54 / 50 : 58 / 54 / 50	62 / 58 / 52 : 62 / 58 / 52	62 / 58 / 52 : 62 / 58 / 52
Number of fan speeds			5	5	5	5	5	5	5	5	5	5
Drain piping		mm	VP-20									
Outdoor Unit												
Power source		Phase/H	z 1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
		V	230V   240V	400V   415V	230V   240V	400V   415V	230V   240V	400V   415V				
Current (rated)	Cooling : Heating	A	4.00 : 3.80   3.85 : 3.55	6.40 : 6.20   6.10 : 5.95	7.15 : 6.25   6.85 : 6.00	9.50 : 7.55   9.10 : 7.25	12.7 : 11.1   12.2 : 10.6	4.20 : 3.70   4.05 : 3.55	16.5 : 15.7   15.8 : 15.1	5.45 : 5.20   5.25 : 5.05	19.6 : 16.5   18.8 : 15.8	6.50 : 5.45   6.30 : 5.25
Dimensions	$H \times W \times D$	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370					
Net weight		kg	31	35	43	50	83	83	87	87	8/	87
Air volume		L/s	561 : <del>5</del> 67	546 : 532	701 : 701	746 : 766	1,219 : 1,219	1,219 : 1,219	1,369 : 1,336	1,369 : 1,336	1,402 : 1,369	1,402 : 1,369
Sound pressure level (Silent mode			48 (46) : 49 (47)	48 (46) : 49 (47)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level (Silent mode)	Cooling : Heating	dB	66 (64) : <b>67 (65)</b>	66 (64) : 67 (65)	66 (64) : <b>67 (65)</b>	67 (65) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
Piping connections	Liquid / Gas	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7*1	Ø6.35 / Ø15.88*2	Ø9.52 / Ø15.88					
Pipe length range	min max.	m	3 - 20	3 - 30	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lo	wer, OU located higher)		15, 15	15, 15	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length		m	7.5	10	30	30	30	30	30	30	30	30
Refrigerant at shipping, Additional	<u></u>	g	R32 870 / 10 (g/m)	R32 1,140 / 15 (g/m)	R32 1,130 / 15 (g/m)	R32 1,320 / 17 (g/m)	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)			
Operating range	Cooling : Heating	C	-10 to 46 : -15 to 24									

Ultra Slim Ducted

## **Indoor Unit** Ultra Slim Ducted

With a height of only 200 mm, it provides greater flexibility and adaptability for various applications. In addition, high efficiency and extreme low noise level make it highly suitable for apartments and hotels.





















Note: Product image not to scale

#### Technical focus

- Space saving 200mm height
- Rear or Bottom Return Air Options
- Built-in Drain Pump
- DC fan motor greatly reduces power consumption
- Easy maintenance and service by external electrical box
- 40 Pa static pressure enables ductwork to be fitted.

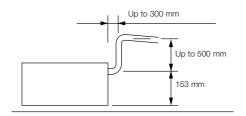
#### Ultra-slim profile for all models

200mm height for all models allows installation in very narrow ceilings.



#### Drain pump with increased power

Using the built-in high-lift drain pump, the drain piping rise height can be increased to 653 mm from the lower surface of the body.



#### Specifications

Capacity			2.5KW	3.6KW	5.0KW	6.0KW
	Indoor Unit		CS-Z25UD3RAW	CS-Z35UD3RAW	CS-Z50UD3RAW	CS-Z60UD3RAW
model Name	Outdoor Unit		CU-Z25UBRA	CU-Z35UBRA	CU-Z50UBRA	CU-Z60UBRA
Cooling capacity:		kW	2.60 (0.85 - 3.20) 3.30 (0.85 - 4.90)	3.70 (0.85 - 4.00) 4.20 (0.85 - 5.60)	5.00 (0.90 - 5.70) 6.10 (0.90 - 7.20)	5.60 (0.90 - 6.50) 7.00 (0.90 - 8.00)
Heating capacity		BTU/h	8,870 (2,900 - 10,900) 11,300 (2,900 -16,700)	12,600 (2,900 - 13,600) 14,300 (2,900 -19,100)	17,100 (3,070 - 19,400) 20,800 (3,070 - 24,600)	19,100 (3,070 - 22,200) 23,900 (3,070 - 27,300)
EER : COP		W/W	4.48 : 4.23	3.85 : 4.08	3.57 : <b>3.63</b>	3.29 : 3.24
Power input (min - max)	Cooling : Heating	kW	0.58 (0.24 - 0.85) : 0.78 (0.23 - 1.25)	0.96 (0.24 - 1.12) : 1.03 (0.23 - 1.57)	1.40 (0.26 - 1.78) : 1.68 (0.26 - 2.20)	1.70 (0.26 - 2.30) : 2.16 (0.26 - 2.60)
Indoor Unit						
Davisar a a viva a		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
Power source		V	230V   240V	230V   240V	230V   240V	230V   240V
Dimensions	$H \times W \times D$	mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640
Net weight		kg	19	19	19	19
Air volume	Cooling : Heating	L/s	175 : <b>175</b>	187 : <b>187</b>	255 : <b>255</b>	262 : <mark>262</mark>
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	33 / 27 / 24 : 34 / 27 / 24	33 / 26 / 23 : 35 / 27 / 24	39 / 29 / 26 : 39 / 30 / 27	41 / 30 / 27 : 41 / 32 / 29
Sound power level (H/M/L)	Cooling : Heating	dB(A)	49 / 43 / 40 : 50 / 43 / 40	49 / 42 / 39 : 51 / 43 / 40	55 / 45 / 42 : 55 / 46 / 43	57 / 46 / 43 : 57 / 48 / 45
Outdoor Unit						
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
rower source		V	230V   240V	230V   240V	230V   240V	230V   240V
Current (rated)	Cooling : Heating	А	2.80 : 3.50   2.70 : 3.40	4.30 : 4.70   4.20 : 4.50	6.30 : 7.40   6.10 : 7.20	7.50 : 9.50   7.30 : 9.30
Dimensions	$H \times W \times D$	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320
Net weight		kg	33	35	42	43
Piping connections	Liquid / Gas	mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.70	Ø6.35 / Ø12.70
Pipe length	min max.	m	3 - 20	3 - 20	3 - 30	3 - 30
Elevation difference		m	15	15	20	20
Operation ranges	Cooling: Heating	°C	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	-10 ~ +46 : <b>-15</b> ~ <b>+24</b>	-10 ~ +46 : -15 ~ +24

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

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

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

  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
- Sound levels are measured in default status which is rear return air, when changing to bottom return air, sounds levels may be higher.

  Ultra Slim Ducted is not supported by PAC Smart Connectivity+.

<sup>\*1</sup> If you connect WLAN adaptor (CZ-TACG1) to an indoor unit other than wall mounted type and operate from the smartphone with Panasonic Comfort Cloud App, airflow direction may not be operated as it is shown on the display

**Panasonic** 4-WAY Cassette

### **Indoor Unit** 4-WAY Cassette

Featuring uniform cooling, easy installation, and with a sleek exterior, this unit is the perfect match for all commercial applications.

Intelligent Auto Swing

Automatic









Comfort/Quiet



#### **Technical focus**

Dry mode

Compact design

Automatic

- Low sound levels
- DC fan motor for increased efficiency
- Powerful drain pump gives 850 mm lift
- Lightweight design

ADC motor

DC Motor

Auto Swing (Auto Flap

Built-in

- Fresh air knockout
- Branch duct connection

Ample airflow: 600 l/s

• Optional air-intake plenum CZ-FDU3

#### 360° Wide & Comfortable Airflow

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

Industry's leading in the 140PU class.

Temperature distribution by thermograph (cooling operation)

P140 4-WAY Ceiling Mounted Cassette type in cooling mode / Floor area of 225 m²/ Ceiling height of 3 m

# 360° Wide

#### Wide Flap

is generated

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.

#### Conventional **New Model** Width 48mm Width 70mm Φ490 Sub Flap Airflow turbulence Airflow turbulence

is reduced

# Conventional



# increased

**New Model** 

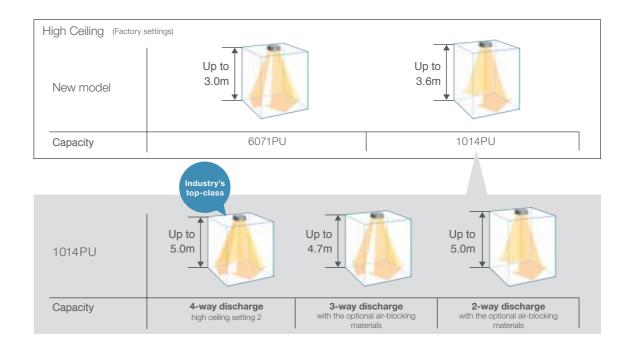
5 level fan mode: Except for CZ-RTC4

Twisted

3D Blade

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

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



#### Ceiling height guidelines

*3 settings	4-way discharge		3-way	2-way	
Indoor unit	Standard (Factory setting)	High ceiling setting 1	High ceiling setting 2	discharge (optional air- blocking materials)	discharge (optional air-blocking materials) *4
6071PU	3.0	3.3	3.6	3.8	4.2
1014PU	3.6	4.3	5.0	4.7	5.0

55

\*3 When using the unit in a configuration other than the factory settings, it is necessary to make settings on site to increase airflow.

\*4 Use air-blocking materials (CZ-CFU3) to completely block two discharge outlets for 2-way airflow

### Indoor Unit: 4-WAY Cassette

#### Specifications of R32 Deluxe Model R32



Capacity				7.1kW	10.0kW		12.5kW		14.0kW	
Capacity		Indoor Unit		S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5	U-125PZH3R8	U-140PZH3R5	U-140PZH3R8
Model Name		Panel		Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A
				7.1 (2.2 - 9.0)	10.0 (3.1 - 12.5)	10.0 (3.1 - 12.5)	12.5 (3.2 - 14.0)	12.5 (3.2 - 14.0)	14.0 (3.3 - 16.0)	14.0 (3.3 - 16.0)
Cooling capacity			kW	8.0 (2.0 - 9.0)	11.2 (3.1 - 14.0)	11.2 (3.1 - 14.0)	14.0 (3.2 - 16.0)	14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)
Heating capacity	•		BTU/h	24,200 (7,500 - 30,700) 27,300 (6,800 - 30,700)	34,100 (10,600 - 42,700) 38,200 (10,600 - 47,800)	34,100 (10,600 - 42,700) 38,200 (10,600 - 47,800)	42,700 (10,900 - 47,800) 47,800 (10,900 - 54,600)	42,700 (10,900 - 47,800) 47,800 (10,900 - 54,600)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)	47,800 (11,300 - 54,600) 54,600 (11,300 - 61,400)
EER : COP			W/W	4.06 : 4.30	4.41 : 5.00	4.41 : 5.00	3.80 : 4.61	3.80 : 4.61	3.41 : 4.30	3.41 : 4.30
COP@H2 condit	ion		W/W	2.60	2.90	2.90	2.70	2.70	2.50	2.50
Total power inpu		Cooling: Heating	kW	1.75 : 1.86	2.27 : 2.24	2.27 : 2.24	3.29 : 3.04	3.29 : 3.04	4.11 : 3.72	4.11 : 3.72
	·,	Hot Climate		5.86:5.68	6.24 : 5.68	6.24 : 5.68	5.71 : 5.63	5.71 : 5.63	5.35 : 5.60	5.35 : 5.60
	Residential	Average Climate		5.10:4.77	5.53 : 5.15	5.53 : 5.15	5.20 : 4.88	5.20 : 4.88	4.93 : 4.71	4.93 : 4.71
		Cold Climate		5.16 : 4.11	5.64 : 4.63	5.64 : 4.63	5.39 : 4.28	5.39 : 4.28	5.17 : 4.01	5.17 : 4.01
TCSPF: HSPF		Hot Climate		6.58 : 5.81	6.96 : 5.66	6.96 : 5.66	6.36 : 5.74	6.36 : 5.74	5.96 : 5.76	5.96 : 5.76
	Commercial	Average Climate		6.83 : 5.30	7.09 : 5.35	7.09 : 5.35	6.72 : 5.32	6.72 : 5.32	6.43 : 5.25	6.43 : 5.25
		Cold Climate		7.41 : 4.63	7.69 : 4.92	7.69: 4.92	7.37 : 4.72	7.37 : 4.72	7.10 : 4.53	7.10 : 4.53
Indoor Unit										
D			Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
Power source			V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V
Discounting	$H \times W \times D$	Indoor	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Dimensions	H × W × D	Panel	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight		Indoor / Panel	kg	20 / 5	25 / 5	25 / 5	25 / 5	25 / 5	25 / 5	25 / 5
Air volume (H/M/	/L)	Cooling : Heating	L/s	367 / 267 / 217 : 367 / 267 / 217	601 / 434 / 300 : 601 / 434 / 300	601 / 434 / 300 : 601 / 434 / 300	617 / 450 / 317 : 617 / 450 / 317	617 / 450 / 317 : 617 / 450 / 317	634 / 484 / 334 : 634 / 484 / 334	634 / 484 / 334 : 634 / 484 / 334
Sound pressure	level (H/M/L)	Cooling : Heating	dB(A)	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 46 / 39 / 33	46 / 39 / 33 : 46 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
Sound power lev	/el (H/M/L)	Cooling : Heating	dB	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
Number of fan s	peeds			5	5	5	5	5	5	5
Drain pipe size			mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
<b>Outdoor Unit</b>										
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
rower source			V	230V   240V	230V   240V	400V   415V	230V   240V	400V   415V	230V   240V	400V   415V
Current (rated)		Cooling : Heating	A	8.25 : 8.70   7.95 : 8.35	10.7 : 10.6   10.3 : 10.1	3.60 : 3.55   3.45 : 3.40	15.4 : 14.2   14.7 : 13.6	5.15:4.80   5.00:4.65	19.2 : 17.4   18.4 : 16.7	6.45 : 5.90   6.20 : 5.65
Dimension	$H \times W \times D$		mm	996 x 940 x 340	1,416 × 940 × 340					
Net weight			kg	66	99	99	99	99	99	99
Air volume		Cooling: Heating	m³/min	1,018 : 1,002	1,970 : <b>1,803</b>	1,970 : 1,803	2,087 : 1,870	2,087:1,870	2,154:1,937	2,154 : 1,937
Sound pressure I	level (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : <b>52 (50)</b>	52 (50) : 52 (50)	53 (51) : 53 (51)	53 (51) : <b>53 (51)</b>	54 (52) : 54 (52)	54 (52) : 54 (52)
Sound power lev	vel (Silent mode)	Cooling: Heating	dB	64 (62) : 66 (64)	68 (66) : <b>68 (66)</b>	68 (66) : 68 (66)	69 (67) : 69 (67)	69 (67) : <b>69 (67)</b>	70 (68) : <b>70 (68)</b>	70 (68) : <b>70 (68)</b>
Piping connectio	ns	Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length range		min max.	m	5 - 50	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85
Elevation differen	nce (OU located lower, o	OU located higher)	m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum charge			m	30	30	30	30	30	30	30
Refrigerant at sh	ipping, Additional gas a	amount	g	R32 1,950 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)
Operating range		Cooling: Heating	°C	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24

- In the case of nanoe X OFF
  In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
  • AEER and ACOP classification is at 230V(400V)

- AEEH and ACUP classification is at 230V(400V) only in accordance with GEMS2019.

   TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.

  Indoor and outdoor sound levels are determined in
- indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
   H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)
- \*\*For pipining connection for 6.0kW unit, connect the gas socket tube (Ø12.7-Ø15.88) to the gas tubing side indoor unit and connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit. \*\*2 For piping connection for 7.1kW unit, connect the liquid socket tube (Ø6.35-Ø9.52) to the liquid tubing side indoor unit.
- tubing side indoor unit.

#### Specifications of R32 Compact Model R32



Capacity				6.0kW	7.1kW	10.0kW		12.5kW		14.0kW	
		Indoor Unit		S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
		Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
Model Name		Panel		Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A	Standard type:CZ-KPU3H ECONAVI type:CZ-KPU3A
Cooling consoits			kW	6.0 (2.0- 7.1) 6.0 (1.8 - 7.0)	7.1 (2.6 - 7.7) 7.1 (2.1 - 8.1)	10.0 (3.0 - 11.5) 10.0 (3.0 - 14.0)	10.0 (3.0-11.5) 10.0 (3.0-14.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	12.5 (3.2 - 13.5) 12.5 (3.3 - 15.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)	14.0 (3.3 - 15.0) 14.0 (3.4 - 16.0)
Cooling capacity Heating capacity			BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 23,900)	24,200 (8,900 - 26,300) 24,200 (7,200 - 27,600)	34,100 (10,200 - 39,200) 34,100 (10,200 - 47,800)	34,100 (10,200-39,200) 34,100 (10,200 - 47,800)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	42,700 (10,900 - 46,100) 42,700 (11,300 - 51,200)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)	47,800 (11,300 - 51,200) 47,800 (11,600 - 54,600)
EER : COP			W/W	3.82 : 4.48	3.40 : 4.23	3.82:4.93	3.82 : 4.93	3.58 : 4.43	3.58 : 4.43	3.23 : 4.18	3.23 : 4.18
COP@H2 condition			W/W	3.19	3.30	3.27	3.27	2.88	2.88	2.70	2.70
Total power input		Cooling: Heating	kW	1.57 : 1.34	2.09 : 1.68	2.62 : 2.03	2.62 : 2.03	3.49 : 2.82	3.49 : 2.82	4.34 : 3.35	4.34 : 3.35
Total power impat		Hot Climate	LVAA	5.65 : 6.69	5.12 : 5.75	5.78 : 5.43	5.78 : 5.43	5.27 : 5.56	5.27 : 5.56	4.94 : 5.52	4.94 : 5.52
	Residential	Average Climate		5.04 : 5.44	4.64 : 4.85	5.00 : 5.06	5.00 : 5.06	4.73 : 4.87	4.73 : 4.87	4.54 : 4.72	4.54 : 4.72
	i iosidoi itidi	Cold Climate		5.23 : 4.45	4.83 : 4.14	5.10 : 4.62	5.10 : 4.62	4.85 : 4.17	4.85 : 4.17	4.69 : 3.97	4.69 : 3.97
TCSPF: HSPF		Hot Climate		6.17 : 6.71	5.73 : 5.78	6.60 : 5.34	6.60 : 5.34	5.84 : 5.51	5.84 : 5.51	5.46 : 5.51	5.46 : 5.51
	Commercial	Average Climate		6.29 : 5.97	6.05 : 5.26	7.05 : 5.11	7.05 : 5.11	6.29 : 5.11	6.29 : 5.11	6.19 : 5.03	6.19 : 5.03
	Commercial	Cold Climate		6.75 : 5.06	6.79 : 4.61	7.94 : 4.78	7.94 : 4.78	6.95 : 4.53	6.95 : 4.53	6.89 : 4.40	6.89 : 4.40
Indoor Unit		Cold Cilifiate		0.75 . 5.06	0.79 . 4.01	7.94 . 4.76	7.94 . 4.78	0.93 . 4.53	0.93 . 4.55	0.89 . 4.40	0.69 . 4.40
indoor Onit			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V	230V   240V
Dimensions H	$H \times W \times D$	Indoor	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
DITTELISIONS	II X W X D	Panel	mm	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950	33.5 x 950 x 950
Net weight		Indoor / Panel	ka	20 / 5	20 / 5	25 / 5	25 / 5	25 / 5	25 / 5	25 / 5	25 / 5
Air volume (H/M/L)		Cooling: Heating	L/s		367 / 267 / 217 : 367 / 267 / 217		601 / 434 / 300 : 601 / 434 / 30		7 617 / 450 / 317 : 617 / 450 / 31		634 / 484 / 334 : 634 / 484 / 33
Sound pressure lev		Cooling: Heating	dB(A)	36 / 31 / 28 : 36 / 31 / 28	37 / 31 / 28 : 37 / 31 / 28	45 / 38 / 32 : 45 / 38 / 32	45 / 38 / 32 : 45 / 38 / 32	46 / 39 / 33 : 46 / 39 / 33	46 / 39 / 33 : 46 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
Sound power level		Cooling: Heating	dB(A)	51 / 46 / 43 : 51 / 46 / 43	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
Number of fan spec	1 /	Cooling . Heating	UD	51740743.51740743	52 / 40 / 43 . 52 / 40 / 43	60733747.00733747	60733747.60733747	61734748.01734748	61 / 34 / 46 . 61 / 34 / 46	62 / 55 / 49 . 62 / 55 / 49	62 / 55 / 49 . 62 / 55 / 49
	eus		mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
Drain pipe size Outdoor Unit			mm	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25	VP-25
			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source			V	230V   240V	230V   240V	230V   240V	400V   415V	230V   240V	400V   415V	230V   240V	400V   415V
Current (rated)		Cooling : Heating	A	7.20 : 5.95   6.90 : 5.70	9.65 : 7.45   9.25 : 7.15	12.5 : 9.70   12.0 : 9.30	4.15:3.20   4.00:3.10	16.1 : 13.0   15.4 : 12.5	5.35 : 4.35   5.15 : 4.15	20.0 : 15.5   19.2 : 14.8	6.65 : 5.15   6.40 : 4.95
Dimensions I	$H \times W \times D$		mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight			kg	43	50	83	83	87	87	87	87
Air volume		Cooling : Heating	m³/min	701 : <b>701</b>	746 : <b>766</b>	1,219 : 1,219	1,219 : 1,219	1,369 : 1,336	1,369 : 1,336	1,402 : 1,369	1,402 : 1,369
Sound pressure leve	el (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level		Cooling : Heating	dB	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
Piping connections	1 /	Liquid / Gas	mm	Ø6.35 / Ø12.7*1	Ø6.35 / Ø15.88*2	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length range		min max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
	e (OU located lower, C		m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeles			m	30	30	30	30	30	30	30	30
	oing, Additional gas a	mount	q	R32 1,130 / 15 (g/m)	R32 1,320 / 17 (g/m)	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)
Operation ranges	J,	Cooling: Heating	°C	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24

**Panasonic** Low Profile Mini Cassette

#### **Indoor Unit**

# Low Profile Mini Cassette

Redesigned for a lower vertical profile, it fits easily into a standard 60 x 60cm ceiling grid without the need to alter bar configuration. This makes the Low Profile Mini Cassette ideal for small commercial and retrofit applications, in particular those with lower ceilings.

































- Compact Design (230mm High)
- Easy Installation
- Built-in Drain Pump

**Technical focus** 

- Mini cassette fits into a 60 x 60 cm ceiling grid
- Powerful drain pump gives 850 mm lift
- DC fan motor with variable speed and a new heat exchanger ensures efficient power consumption
- Multi-directional air flow

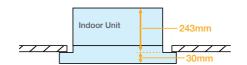
#### Compact, stylish design

Thanks to advanced Panasonic design the panel is a compact 625 x 625mm, offering elegant, unobtrusive installation even where space is limited.



#### Lighter and slimmer for easier installation

When only 230mm of indoor body height, it can easily fit in limited spaces and tight spots. (Required 243mm from bottom of panel to top of the unit)



#### Individual flap control

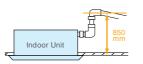
Keep everyone comfortable by directing air where it's needed and away from where it isn't with individual flap control.

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#### A drain height of up to 850 mm from the ceiling surface

The internal pump allows the drain pipe to be elevated up to 850mm above the base of the unit.



Capacity			2.5KW	3.5KW	5.0KW	6.0KW
	Indoor Unit		S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
	Outdoor Unit		U-25PZ3R5	U-36PZ3R5	U-50PZ3R5	U-60PZ3R5
model Name	Panel		CZ-KPY4	CZ-KPY4	CZ-KPY4	CZ-KPY4
	Receiver		CZ-RWRY3	CZ-RWRY3	CZ-RWRY3	CZ-RWRY3
Cooling capacity:		kW	2.5 (1.3-3.9) 3.2 (1.3-4.6)	3.6 (1.5-4.0) 3.6 (1.3-4.6)	5.0 (1.5-6.4) 5.0 (1.5-6.4)	6.0 (2.0-7.0) 6.0 (1.8-7.0)
Heating capacity		BTU/h	8,500 (4,400-13,300) 10,900 (4,400-15,700)	12,300 (5,100-13,600) 12,300 (4,400-15,700)	17,100 (5,100-21,800) 17,100 (5,100-21,800)	20,500 (6,800-23,900) 20,500 (6,100-23,900)
EER : COP		W/W	4.46 : <b>4.44</b>	4.55 : 4.29	3.50 : <b>3.94</b>	3.39 : <b>3.61</b>
Power input (min - max)	Cooling : Heating	kW	0.56(0.27-1.10):0.72(0.25-1.35)	0.91(0.28-1.12):0.84(0.25-1.36)	1.43(0.27-2.20):1.27(0.27-2.20)	1.77(0.34-2.53):1.66(0.39-2.45
Indoor Unit						
		Phase/Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
Power source		V	230V   240V	230V   240V	230V   240V	230V   240V
Current	Cooling, Heating A	4	2.55, 3.25   2.45, 3.10	4.05, 3.75   3.85, 3.60	6.35, 5.70   6.10, 5.45	8.10, 7.35   7.75, 7.05
Dimensions	$H \times W \times D$	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
Net weight		kg	15	15	15	15
Air volume	Cooling : Heating	L/s	141 : 141	158 : <b>158</b>	200 : 200	233 : 233
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	31/28/25 : 31/28/25	34/30/25 : 34/30/25	39/34/27 : 39/34/27	43/37/31 : 43/37/31
Sound power level (H/M/L)	Cooling : Heating	dB(A)	46/43/40 : 46/43/40	49/45/40 : 49/45/40	54/49/42 : 54/49/42	58/52/46 : 58/52/46
Outdoor Unit						
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
-ower source		V	230V   240V	230V   240V	230V   240V	230V   240V
Dimensions	$H \times W \times D$	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320
Net weight		kg	31	31	35	43
Piping connections	Liquid / Gas	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7
Pipe length	min max.	m	3 - 20	3 - 20	3 - 30	3 - 40
Elevation difference		m	15	15	15	30
Operation ranges	Cooling: Heating	°C	-10 - +46 : -15 - +24	-10 - +46 : -15 - +24	-10 - +46 : - <del>15 - +24</del>	-10 - +46 : -15 - +24

S-25PY3E S-36PY3E S-50PY3E CZ-KPY4

CZ-RTC5B

Note: Product image not to scale.

CZ-RTC6BLW

POI

CZ-RTC4 CZ-CAPWFC1 CZ-CENSC1

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

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

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

#### Specifications

NEW ///

**Panasonic Under Ceiling** 

# **Indoor Unit** Under Ceiling

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











**ECONAVI** ready











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CZ-RTC5B CZ-RTC6BLW Note: Product image not to scale.

CZ-RTC4 CZ-CAPWFC1 CZ-CENSC1

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

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room.

When not operating, the louver closes to provide an elegant look while also keeping the unit clean.



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

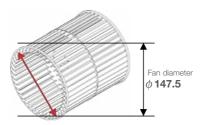
Top Class Energy Saving

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

#### New DC fan motor

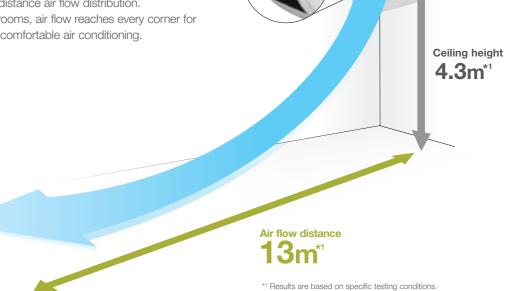


#### Large Diagonal Air Flow Fan



#### Comfortable, Long-Distance Airflow Distribution

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



LPate Oalling Oalling #2	Air flow distance						
High Ceiling Setting*2	100	125	140				
4.3m	Up to 12m	Up to 13m	Up to 13m				

<sup>\*2</sup> Dedicated fan speed setting required.



**Panasonic** Under Ceiling

### Indoor Unit: Under Ceiling

### Specifications of R32 Deluxe Model R32



Capacity				6.8kW	9.5kW		12.1kW		13.4kW	
		Indoor Unit		S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Model Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5	U-125PZH3R8	U-140PZH3R5	U-140PZH3R8
			134/	6.8 (2.2 - 9.0)	9.5 (3.1 - 12.5)	9.5 (3.1 - 12.5)	12.1 (3.2 - 14.0)	12.1 (3.2 - 14.0)	13.4 (3.3 - 16.0)	13.4 (3.3 - 16.0)
Cooling capacity:			kW	8.0 (2.0 - 9.0)	11.2 (3.1 - 14.0)	11.2 (3.1 - 14.0)	14.0 (3.2 - 16.0)	14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)
Heating capacity			DTI I	23,200 (7,500 - 30,700)	32,400 (10,600 - 42,700)	32,400 (10,600 - 42,700)	41,300 (10,900 - 47,800)	41,300 (10,900 - 47,800)	45,700 (11,300 - 54,600)	45,700 (11,300 - 54,600)
			BTU/h	27,300 (6,800 - 30,700)	38,200 (10,600 - 47,800)	38,200 (10,600 - 47,800)	47,800 (10,900 - 54,600)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)
EER : COP			W/W	3.91 : 3.96	4.15 : 4.09	4.15 : 4.09	3.51 : 3.78	3.51 : 3.78	3.21 : 3.48	3.21 : 3.48
COP@H2 condition			W/W	2.60	2.72	2.72	2.52	2.52	2.37	2.37
Total power input		Cooling : Heating	kW	1.74:2.02	2.29 : <b>2.74</b>	2.29 : 2.74	3.45 : 3.70	3.45 : <b>3.70</b>	4.17:4.60	4.17:4.60
		Hot Climate		5.96 : <b>5.61</b>	6.07 : <b>5.59</b>	6.07 : 5.59	5.42 : <b>5.37</b>	5.42 : 5.37	5.07 : <b>5.26</b>	5.07 : <b>5.26</b>
R	Residential	Average Climate		5.13 : 4.63	5.25 : 4.74	5.25 : 4.74	4.85 : 4.44	4.85 : <b>4.44</b>	4.61 : 4.22	4.61 : 4.22
TOODE , LIODE		Cold Climate		5.24 : <b>4.00</b>	5.33 : 4.21	5.33 : 4.21	5.03 : <b>3.84</b>	5.03 : 3.84	4.82 : <b>3.58</b>	4.82 : <b>3.58</b>
TCSPF: HSPF —		Hot Climate		6.74 : 5.74	6.84 : <b>5.66</b>	6.84 : <b>5.66</b>	6.07 : 5.50	6.07 : <b>5.50</b>	5.66 : <b>5.45</b>	5.66 : <b>5.45</b>
С	commercial	Average Climate		6.92 : 5.18	6.95 : <b>5.18</b>	6.95 : 5.18	6.41 : 4.97	6.41 : 4.97	6.10 : 4.83	6.10 : 4.83
	-	Cold Climate		7.55 : <b>4.53</b>	7.54 : <b>4.66</b>	7.54 : <b>4.66</b>	7.03 : <b>4.35</b>	7.03 : <b>4.35</b>	6.71 : <b>4.13</b>	6.71 : 4.13
Indoor Unit										
Davies agrissa			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz				
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V	230V   240V	230V 240V	230V 240V
Dimension H	I x W x D	Indoor	mm	235 X 1,275 X 690	235 X 1,590 X 690	235 X 1,590 X 690	235 X 1,590 X 690			
Net weight		Indoor	kg	34	40	40	40	40	40	40
Air volume (H/M/L)		Cooling : Heating	L/s	350 / 300 / 258 : 350 / 300 / 258	501 / 417 / 384 : 501 / 417 / 384	501 / 417 / 384 : 501 / 417 / 384	567 / 467 / 400 : 567 / 467 / 400	567 / 467 / 400 : 567 / 467 / 400	584 / 484 / 417 : 584 / 484 / 417	584 / 484 / 417 : 584 / 484 / 41
Sound pressure level (H	H/M/L)	Cooling : Heating	dB(A)	39 / 35 / 30 : 39 / 35 / 30	42 / 37 / 34 : 42 / 37 / 34	42 / 37 / 34 : 42 / 37 / 34	46 / 40 / 35 : 46 / 40 / 35	46 / 40 / 35 : 46 / 40 / 35	47 / 41 / 36 : 47 / 41 / 36	47 / 41 / 36 : 47 / 41 / 36
Sound power level (H/N	Λ/L)	Cooling : Heating	dB	57 / 53 / 48 : 57 / 53 / 48	60 / 55 / 52 : 60 / 55 / 52	60 / 55 / 52 : 60 / 55 / 52	64 / 58 / 53 : 64 / 58 / 53	64 / 58 / 53 : 64 / 58 / 53	65 / 59 / 54 : 65 / 59 / 54	65 / 59 / 54 : 65 / 59 / 54
Number of fan speeds				5	5	5	5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
Outdoor Unit										
Power course			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source			V	230V 240V	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	А	8.20 : 9.45   7.90 : 9.05	10.8 : 12.9   10.4 : 12.4	3.65 : 4.35   3.45 : 4.15	16.1:17.3 15.5:16.6	5.40 : <b>5.85</b>   5.20 : <b>5.65</b>	19.5 : 21.5   18.7 : 20.6	6.55 : 7.30   6.30 : 6.95
Dimension		$H \times W \times D$	mm	996 x 940 x 340	1,416 x 940 x 340	1,416 × 940 × 340	1,416 x 940 x 340	1,416 × 940 × 340	1,416 x 940 x 340	1,416 × 940 × 340
Net weight			kg	66	99	99	99	99	99	99
Air volume		Cooling : Heating	L/s	1,018 : 1,002	1,970 : 1,803	1,970 : 1,803	2,087 : 1,870	2,087 : <b>1,870</b>	2,154 : <b>1,937</b>	2,154 : <b>1,937</b>
Sound pressure level (S	Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : <b>52 (50)</b>	52 (50) : <b>52 (50)</b>	53 (51) : <b>53 (51)</b>	53 (51) : 53 (51)	54 (52) : <b>54 (52)</b>	54 (52) : <b>54 (52)</b>
Sound power level (Sile	nt mode)	Cooling : Heating	dB	64 (62) : <b>66 (64)</b>	68 (66) : <mark>68 (66)</mark>	68 (66) : <b>68 (66)</b>	69 (67) : 69 (67)	69 (67) : <b>69 (67)</b>	70 (68) : 70 (68)	70 (68) : 70 (68)
Piping connections		Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88				
Pipe length range		min max.	m	5 - 50	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85	5 - 85
Elevation difference (OU	J located lower	r, OU located higher)	m	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless le	ength		m	30	30	30	30	30	30	30
Refrigerant at shipping	/ Additional ga	s amount	g	R32 1,950 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)			
Operating range		Cooling: Heating	°C	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24				

### Specifications of R32 Compact Model R32



Capacity			6.0kW	6.8kW	10.0kW		12.5kW		13.6kW	
Madal Nama	Indoor Unit		S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Model Name	Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
		134/	6.0 (2.0 - 7.1)	6.8 (2.6 - 7.7)	10.0 (3.0 - 11.5)	10.0 (3.0 - 11.5)	12.5 (3.2 - 13.5)	12.5 (3.2 - 13.5)	13.6 (3.3 - 15.0)	13.6 (3.3 - 15.0)
Cooling capacity:		kW	6.0 (1.8 - 7.0)	6.8 (2.1 - 8.1)	10.0 (3.0 - 14.0)	10.0 (3.0 - 14.0)	12.5 (3.3 - 15.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)
Heating capacity		DTI I/I-	20,500 (6,800 - 24,200)	23,200 (8,900 - 26,300)	34,100 (10,200 - 39,200)	34,100 (10,200 - 39,200)	42,700 (10,900 - 46,100)	42,700 (10,900 - 46,100)	46,400 (11,300 - 51,200)	46,400 (11,300 - 51,200)
		BTU/h	20,500 (6,100 - 23,900)	23,200 (7,200 - 27,600)	34,100 (10,200 - 47,800)	34,100 (10,200 - 47,800)	42,700 (11,300 - 51,200)	42,700 (11,300 - 51,200)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)
EER : COP		W/W	3.82 : 4.41	3.33 : 4.22	3.64 : 4.24	3.64 : 4.24	3.32 : 3.89	3.32 : 3.89	3.15 : 3.70	3.15 : 3.70
COP@H2 condition		W/W	3.19	3.24	2.70	2.70	2.57	2.57	2.53	2.53
Total power input	Cooling : Heating	kW	1.57 : 1.36	2.04 : 1.61	2.75 : 2.36	2.75 : 2.36	3.76 : <b>3.21</b>	3.76 : 3.21	4.32 : 3.78	4.32 : 3.78
·	Hot Climate		5.18 : 5.97	5.02 : 5.60	5.24 : 5.58	5.24 : 5.58	4.98 : 5.36	4.98 : 5.36	4.81 : 5.25	4.81 : 5.25
Residential	Average Climate		4.54 : 4.88	4.45 : <b>4.76</b>	4.63 : 4.78	4.63 : 4.78	4.44 : 4.45	4.44 : 4.45	4.33 : 4.25	4.33 : 4.25
	Cold Climate		4.61 : 4.12	4.60 : 4.09	4.70 : 4.15	4.70 : 4.15	4.57 : 3.76	4.57 : 3.76	4.48 : 3.55	4.48 : 3.55
TCSPF: HSPF	Hot Climate		5.63 : 6.03	5.57 : 5.63	5.84 : 5.60	5.84 : 5.60	5.52 : 5.44	5.52 : 5.44	5.35 : 5.39	5.35 : 5.39
Commercial			5.63 : 5.40	5.69 : 5.14	6.12 : 5.14	6.12 : 5.14	5.76 : 4.91	5.76 : 4.91	5.67 : 4.80	5.67 : 4.80
	Cold Climate		5.98 : 4.66	6.18 : 4.53	6.63 : 4.57	6.63 : 4.57	6.25 : 4.25	6.25 : 4.25	6.20 : 4.09	6.20 : 4.09
ndoor Unit										
		Phase/H	z 1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source		V	230V 240V	230V 240V						
Dimension H x W x D	Indoor	mm	235 X 1,275 X 690	235 X 1,275 X 690	235 X 1,590 X 690					
Net weight	Indoor	kg	34	34	40	40	40	40	40	40
Air volume (H/M/L)	Cooling : Heating	L/s	334 / 283 / 242 : 334 / 283 / 242	350 / 300 / 258 : 350 / 300 / 258	501 / 417 / 384 : 501 / 417 / 384	501 / 417 / 384 : 501 / 417 / 384	567 / 467 / 400 : 567 / 467 / 400	567 / 467 / 400 : 567 / 467 / 400	584 / 484 / 417 : 584 / 484 / 417	584 / 484 / 417 : 584 / 484 / 41
Sound pressure level (H/M/L)	Cooling : Heating	dB(A)	38 / 34 / 29 : 38 / 34 / 29	39 / 35 / 30 : 39 / 35 / 30	42 / 37 / 34 : 42 / 37 / 34	42 / 37 / 34 : 42 / 37 / 34	46 / 40 / 35 : 46 / 40 / 35	46 / 40 / 35 : 46 / 40 / 35	47 / 41 / 36 : 47 / 41 / 36	47 / 41 / 36 : 47 / 41 / 36
Sound power level (H/M/L)	Cooling : Heating	dB	56 / 52 / 47 : 56 / 52 / 47	57 / 53 / 48 : 57 / 53 / 48	60 / 55 / 52 : 60 / 55 / 52	60 / 55 / 52 : 60 / 55 / 52	64 / 58 / 53 : 64 / 58 / 53	64 / 58 / 53 : 64 / 58 / 53	65 / 59 / 54 : 65 / 59 / 54	65 / 59 / 54 : 65 / 59 / 54
Number of fan speeds			5	5	5	5	5	5	5	5
Drain piping		mm	VP-20	VP-20						
Outdoor Unit										
		Phase/H	z 1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source		V	230V 240V	230V   240V	230V 240V	400V   415V	230V   240V	400V   415V	230V   240V	400V 415V
Current (rated)	Cooling : Heating	A	7.20 : 6.05   6.90 : 5.80	9.45 : 7.15   9.05 : 6.85	13.1 : 11.3   12.6 : 10.8	4.35 : 3.75   4.20 : 3.60	17.4 : 14.8   16.7 : 14.2	5.75 : 4.95   5.55 : 4.75	20.0 : 17.5   19.1 : 16.8	6.65 : 5.80   6.40 : 5.60
Dimension	H × W × D	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370				
Net weight		ka	43	50	83	83	87	87	87	87
Air volume	Cooling : Heating	L/s	701 : 701	746 : <b>766</b>	1.219 : 1.219	1.219 : 1.219	1.369 : 1.336	1.369 : 1.336	1.402 : 1.369	1.402 : 1.369
Sound pressure level (Silent mode		dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
Sound power level (Silent mode)	Cooling: Heating	dB(r)	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
Piping connections	Liquid / Gas	mm	Ø6.35 / Ø12.7*1	Ø6.35 / Ø15.88*2	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88				
Pipe length range	min max.	m	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
Elevation difference (OU located lo			15. 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30	15, 30
Maximum chargeless length	vioi, oo loodtod Higher	m	30	30	30	30	30	30	30	30
Refrigerant at shipping / Additiona	l dae amount	a	R32 1.130 / 15 (g/m)	R32 1.320 / 17 (g/m)	R32 2.400 / 45 (a/m)	R32 2.400 / 45 (g/m)	R32 2.800 / 45 (a/m)	R32 2.800 / 45 (a/m)	R32 2.800 / 45 (a/m)	R32 2,800 / 45 (g/m)
Reingerant at snipping / Additiona Operating range	Cooling: Heating	<u>9</u> ℃	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24						
operating range	Cooling . Healing	U	-10 (0 4010 (0 24	-10 (0 4010 (0 24	1-10 10 4010 10 24	1-10 (0 4010 (0 24	1-10 (0 4010 (0 24	1-10 (0 4010 (0 24	1-10 (0 4010 (0 24	- 10 (0 40 10 (0 24

- Notes:

  In the case of nance X OFF

  In case it is necessary to indicate the air flow volume in (I/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

  AEER and ACOP classification is at 230V(400V) only in accordance with GEMS2019.

  TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.

  For pipinng connection for 6.0kW unit, connect the gas socket tube (Ø12.7-Ø15.88) to the gas tubing side indoor unit and connect the liquid socket tube (Ø6.35-09.52) to the liquid tubing side indoor unit.

Wall Mounted

# Wall Mounted

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









Note: Product image not to scale.

CZ-RTC6BLW







65

CZ-CAPWFC1 CZ-CENSC1

CZ-RTC4























#### **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.

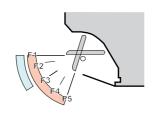
#### Washable front panel

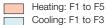
The indoor unit's front panel can be easily cleaned for trouble-free maintenance.



#### 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

	<b>R32</b>	
5	REFRIGERANT	

Capacity			9.5kW			9.0kW		
Model Name		Indoor Unit Outdoor Unit		S-100PK3R	S-100PK3R	S-100PK3R		
				U-100PZH3R5	U-100PZH3R8	U-100PZ3R5		
Cooling capacity:		kW	9.5 (3.1 - 10.5) 9.5 (3.1 - 11.5)	9.5 (3.1 - 10.5) 9.5 (3.1 - 11.5)	9.0 (3.0 - 9.7) 9.0 (3.0 - 10.5)	9.0 (3.0 - 9.7) 9.0 (3.0 - 10.5)		
Heating capacity			BTU/h	32,400 (10,600 - 35,800) 32,400 (10,600 - 39,200)	32,400 (10,600 - 35,800) 32,400 (10,600 - 39,200)	30,700 (10,200 - 33,100) 30,700 (10,200 - 35,800)	30,700 (10,200 - 33,1 30,700 (10,200 - 35,8	
EER : COP			W/W	3.26 : <b>3.97</b>	3.26 : <b>3.97</b>	3.47 : <b>3.93</b>	3.47 : 3.93	
COP@H2 conditi	ion		W/W	2.50	2.50	2.53	2.53	
Total power input	t	Cooling : Heating	kW	2.91 : 2.39	2.91 : 2.39	2.59 : <b>2.29</b>	2.59 : <b>2.29</b>	
		Hot Climate		5.07 : <b>5.70</b>	5.07 : <b>5.70</b>	4.85 : 5.29	4.85 : 5.29	
	Residential	Average Climate		4.52 : 4.74	4.52 : 4.74	4.21 : 4.55	4.21 : 4.55	
TCSPF : HSPF		Cold Climate		4.72 : 4.10	4.72 : 4.10	4.27:3.99	4.27:3.99	
TOSEF . HOPE		Hot Climate		5.68 : <b>5.77</b>	5.68 : 5.77	5.39 : <b>5.31</b>	5.39 : <b>5.31</b>	
	Commercial	Average Climate		5.85 : 5.20	5.85 : 5.20	5.42 : <b>4.87</b>	5.42 : 4.87	
		Cold Climate		6.42 : 4.59	6.42 : 4.59	5.82 : 4.37	5.82 : 4.37	
Indoor Unit								
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase/ 50Hz	
Power source			V	230V   240V	230V   240V	230V   240V	230V   240V	
Dimensions	$H \times W \times D$	Indoor	mm	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	
Net weight			kg	14	14	14	14	
Air volume (H/M/	′L)	Cooling : Heating	L/s	367 / 308 / 250 367 / 308 / 250	367 / 308 / 250 367 / 308 / 250	367 / 308 / 250 367 / 308 / 250	367 / 308 / 250 367 / 308 / 250	
Sound pressure	level (H/M/L)	Cooling : Heating	dB(A)	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45 / 41	49 / 45 / 41 : 49 / 45	
Sound power lev	rel (H/M/L)	Cooling : Heating	dB	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61 / 57	65 / 61 / 57 : 65 / 61	
Number of fan s	peeds			5	5	5	5	
Drain pipe size			mm	VP-16	VP-16	VP-16	VP-16	
Outdoor Unit								
Power source		Phase/Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz		
			V	230V   240V	400V   415V	230V   240V	400V   415V	
Current (rated)		Cooling : Heating	А	13.8 : 11.3   13.2 : 10.8	4.60 : 3.80   4.40 : 3.60	12.4 : 10.9   11.9 : 10.5	4.10:3.65   3.95:3	
Dimensions		$H \times W \times D$	mm	1,416 x 940 x 340	1,416 x 940 x 340	996 x 980 x 370	996 x 980 x 370	
Net weight			kg	99	99	83	83	
Air volume		Cooling : Heating	m³/min	1,970 : 1,803	1,970 : 1,803	1,219 : 1,219	1,219 : 1,219	
Sound pressure (Silent mode)	level	Cooling : Heating	dB(A)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)	52 (50) : 52 (50)	
Sound power lev (Silent mode)	rel	Cooling : Heating	dB	68 (66) : 68 (66)	68 (66) : 68 (66)	70 (68) : 70 (68)	70 (68) : 70 (68)	
Piping connectio	ns	Liquid / Gas	mm	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	
Pipe length range min max.		m	5 - 85	5 - 85	5 - 50	5 - 50		
Elevation difference (OU located lower, OU located higher)			15, 30	15, 30	15, 30	15, 30		
			m	30	30	30	30	
			g	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/n	
Operating range Cooling: Heating			°C	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 2	

- In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
   AEER and ACOP classification is at 230V(400V) only in accordance with GEMS2019.

- TCSPF, HSPF and Total Energy consumption indicate the value of average temperature zone.

  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.

  H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1).

Floor Console

# Floor Console

This floor-type console's slender profile integrates unobtrusively into any interior, in a position that's also ideal when you want to warm your feet when it's cold.











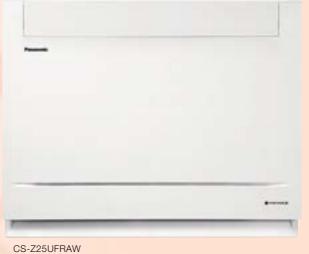




DC Motor



**C**•nanoe<sup>™</sup>X







CS-Z35UFRAW CS-Z50UFRAW

Note: Product image not to scale.

#### **Technical focus**

- A breakthrough design that integrates perfectly with the most modern environments.
- Compact design fits 50mm wall recess

#### Upper & Lower Vane Blow

Optimum air flow from the top and bottom of the unit assures that even your feet are kept comfortably warm. (Only during heating)





Compact Design

The design features a flat, elegant front panel that provides a neat appearance and the unit can be recessed into a wall up to 50 mm.



#### Super Quiet

The indoor and outdoor units deliver quiet operation and pressing the Quiet mode button lowers operation noise even further to just 19dB for indoor unit with low fan speed.



<sup>\*1</sup> CS-Z25UFRAW & CS-Z35UFRAW: In the Quiet mode during heating operation with low fan speed.

Dag	
K321	

Capacity				2.5kW	3.5kW	5.0kW
Model Name Indoor Unit Outdoor Unit		Indoor Unit		CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
		Outdoor Unit		CU-Z25UBRA	CU-Z35UBRA	CU-Z50UBRA
Cooling capacity : Heating capacity			kW	2.50 (0.85~3.40) 3.40 (0.85~5.00)	3.50 (0.85~3.80) 4.30 (0.85~6.00)	5.00 (0.90~5.70) 5.60 (0.90~8.10)
			BTU/h	8,530 (2,900~11,600) 11,600 (2,900~17,100)	11,900 (2,900~13,000) 14,700 (2,900~20,500)	17,100 (3,070~19,400) 19,100 (3,070~27,600)
EER : COP			W/W	5.00 : 4.59	4.07 : 4.06	3.65 : 3.81
Power input (min-max)	1	Cooling : Heating	kW	0.50 (0.24-0.90) 0.74 (0.24-1.35)	0.86 (0.24-1.02) 1.06 (0.24-1.75)	1.37(0.26-1.81) : 1.47 (0.26-2.60)
		Hot Climate		5.70 : <b>4.12</b>	5.46 : 4.49	5.51 : 4.48
	Residential	Average Climate		5.05 : <b>4.21</b>	5.01 : 4.29	5.20 : 4.18
TOODE , LICOE		Cold Climate		4.97 : 3.94	5.07 : 3.78	5.37 : 3.69
TCSPF: HSPF		Hot Climate		6.22 : 3.89	6.01 : 4.18	6.16 : 4.20
	Commercial	Average Climate		6.40 : <b>3.85</b>	6.60 : 4.00	7.34 : 3.99
		Cold Climate		6.97 : 3.78	7.31 : 3.80	8.46 : 3.76
Indoor Unit						
Dower course			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V   240V	230V   240V	230V   240V
Dimensions		$H \times W \times D$	mm	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
Net weight			kg	13	13	13
Air volume		Cooling : Heating	L/s	163 : 173	170 : 182	198 : <b>227</b>
Sound pressure level (	H/M/L)	Cooling : Heating	dB(A)	38 / 25 / 20 : 38 / 25 / 19	39 / 26 / 20 : 39 / 25 / 19	44 / 31 / 27 : 46 / 33 / 29
Sound power level (H/	M/L)	Cooling : Heating	dB(A)	54 / 41 / 36 : 54 / 41 / 35	55 / 42 / 36 : 55 / 41 / 35	60 / 47 / 43 : 62 / 49 / 45
Outdoor Unit						
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V   240V	230V   240V	230V   240V
Current (rated) Cooling : Heating		А	2.40 : 3.40   2.30 : 3.25	3.90 : 4.80   3.70 : 4.60	6.20 : 6.60   6.00 : 6.40	
Dimensions H x W x D		mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	
Net weight		kg	33	35	42	
Piping connections Liquid / Gas		m	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	
Pipe length min max.		m	3 - 20	3 - 20	3 - 30	
Elevation difference		m	15	15	20	
Piping connections Cooling : Heating		°C	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	

- Notes:

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

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

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

  Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.

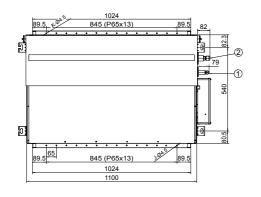
- Floor console is not supported by PAC Smart Connectivity+.
- \*1 If you connect WLAN adaptor (CZ-TACG1) to an indoor unit other than wall mounted type and operate from the smartphone with Panasonic Comfort Cloud App, airflow direction may not be operated as it is shown on the display

#### **Indoor Unit Dimensions**

#### HIGH STATIC PRESSURE DUCTED

#### Dimensions (6.0kW – 16.0kW)

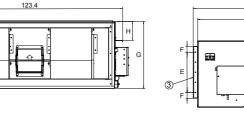
S-60PE3R / S-71PE3R / S-100PE3R / S-125PE3R / S-140PE3R / S-160PE3R



TYPE	E	F	G	Н	J	K
S-60PE3R	130 (P65x2)	33.1	290	118	34	34
S-71PE3R S-100PE3R	195 (P65x3)	35.7	360	50	36	36
S-125PE3R S-140PE3R S-160PE3R	260 (P65x4)	38.2	430	121.5	38	38

- ① Refrigerant liquid tubing (Flare) ø9.52
- Refrigerant gas tubing (Flare) ø15.88
- Air intake High Static Pressure duct connecting side flange
   Air discharge High Static Pressure duct connecting side flange
- (5) Drain port
- The PZ3 series type 60 and 71 outdoor unit refrigerant pipe is different dimention from indoor unit.

  Refer to technical data for more details.



#### HIGH STATIC PRESSURE SPLITTABLE DUCTED

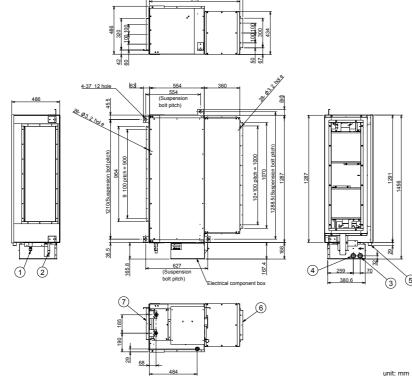
#### Dimensions (18.0kW – 22.4kW)

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

1 Refrigerant liquid tubing (Flare) Type 180 : ø9.52 Type 200/224 : ø12.7

2 Refrigerant gas tubing (Brazing) ø19.05 ø19.05
(Type 180 (50 - 75m):
Connection tubing ø19.05 → ø25.4
Type 200/224 (30 - 60m):
Connection tubing ø19.05 → ø25.4)
3 Power supply port
4 Communication port

- 5 Drain port 6 Air intake duct connecting side flange
- 7 Air discharge duct connecting side flange



#### HIGH STATIC PRESSURE ADAPTIVE DUCTED

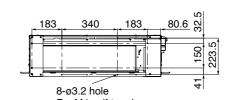
#### Dimensions (3.6kW – 14.0kW)

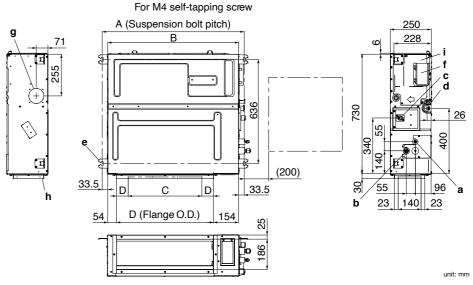
S-3650PF3E / S-6071PF3E / S-1014PF3E

#### Detailed dimensions of indoor unit

Туре	Α	В	С	D	E	F
3650	867	800	450 (Pitch 150 x 3)	71	592	12
6071	1,067	1,000	750 (Pitch 150 x 5)	21	792	16
1014	1,467	1,400	1,050 (Pitch 150 x 7)	71	1,192	20

- a) Refrigerant tubing joint (liquid tube)b) Refrigerant tubing joint (gas tube)
- c) Upper drain port VP20 (ø26 mm) 200 mm flexible hose supplied d) Bottom drain port VP20 (ø26 mm)
- e) Suspension lug (4 12 x 30 mm)
- f) Power supply outlet
- g) Fresh air intake port (ø100 mm)
- h) Flange for flexible air outlet duct
  i) Electrical component box





Panasonic Indoor Unit Dimensions

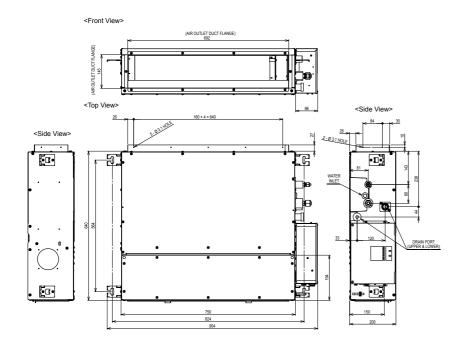
#### **Indoor Unit Dimensions**

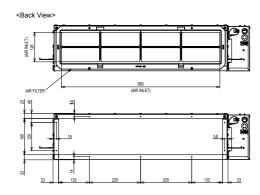
#### **ULTRA SLIM DUCTED**

70

#### Dimensions (2.6kW – 5.6kW)

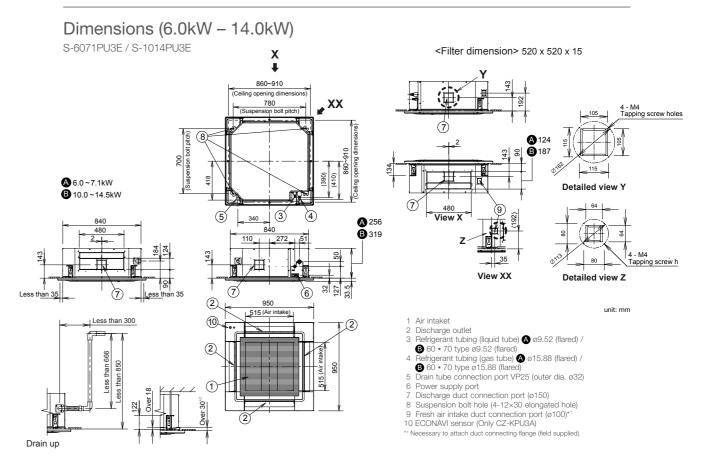
CS-Z25UD3RAW / CS-Z35UD3RAW / CS-Z50UD3RAW / CS-Z60UD3RAW





unit: mm

#### **4-WAY CASSETTE**

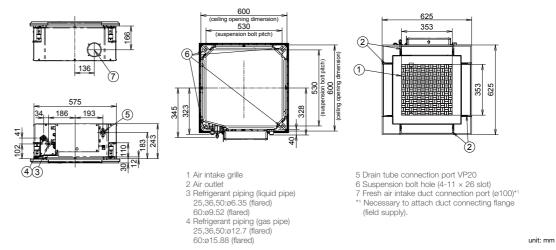


\*2 Adjust the suspension bolt length so that the gap from the lower ceiling surface becomes 30 mm or more (18 mm or more from the lower surface of the body) as shown in the figure. When the suspension bolt length is long, it hits the ceiling panel and installation is not possible.

#### **LOW PROFILE MINI CASSETTE**

#### Dimensions (2.5kW – 6.0kW)

S-25PY3E / S-36PY3E / S-50PY3E / S-60PY3E



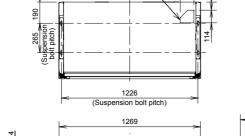
**Panasonic Indoor Unit Dimensions** 

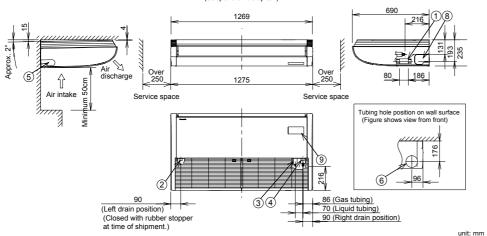
# **Indoor Unit Dimensions**

#### **UNDER CEILING**

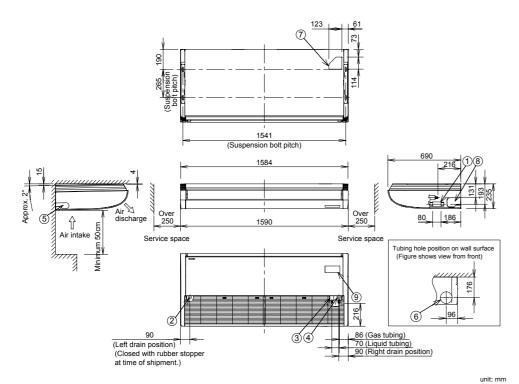
#### Dimensions (6.0kW – 14.0kW)

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





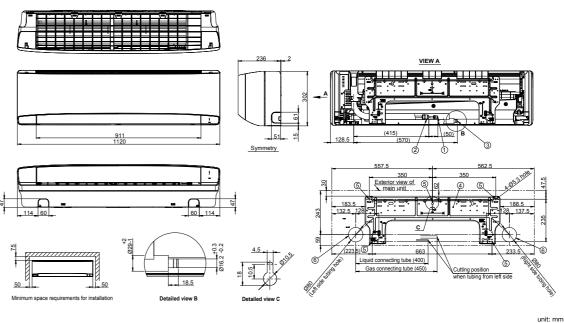
#### S-1014PT3E



#### **WALL MOUNTED**

#### Dimensions (9.5kW)

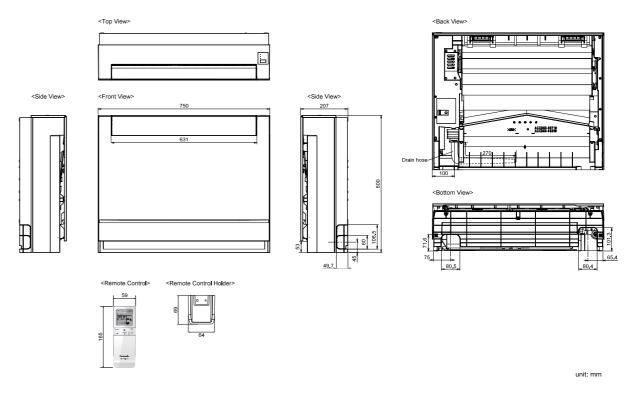
S-100PK3R



#### **FLOOR CONSOLE**

#### Dimensions (2.5kW – 5.0kW)

CS-Z25UFRAW / CS-Z35UFRAW / CS-Z50UFRAW





# For Residential The state of t

# Panasonic Home Comfort Cloud Automation Ready

# Personal Control Solutions Panasonic Comfort Cloud

Remotely manage and monitor multiple air conditioning units in your home

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

Intuitive voice control

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





#### **PLUG & PLAY FOR HOME AUTOMATION**

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



Note: For further information, please check  ${\sf CLIPSAL}^{\otimes}$  webs



#### For Light Commercial



Panasonic Comfort Cloud

PAC Smart Connectivity+

# Cost effective Energy Management Solution



Multiple location control at your convenience with Comfort Cloud

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

- Indoor Air Quality(IAQ) and efficient energy usage with PAC Smart Connectivity<sup>+</sup>
  - Ultimate cooling comfort with sensing technology and automatic IAQ control.
  - Simplified Plug & Play installation with BMS connection for better energy consumption.

# Wide Range of Smart Control Solutions for All Needs

Whether you're a contractor or service provider looking for solutions to streamline everything from configuration to repair diagnosis, a facility manager overseeing multiple sites or a single office, or you're simply managing a home system, we offer a range of innovative, next-generation smart control solutions to suit your needs.

#### For end users and facility managersr



Panasonic Comfort Cloud

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

# 23.5

PAC Smart Connectivity+

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



Monitor and manage energy consumption of multiple location through

a cloud computing system

#### For contractors/service providers



Connect to APP via Bluetooth for greatly improved convenience during configuration and repair diagnosis.

## For Multiple Building Management



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

- Manage and monitor energy consumption patterns
- Analyse energy usage, running time and optimise temperatures to reduce energy costs.
- Centralised control solution with zero downtime
- Receive real-time status updates to prevent breakdowns.

  Flexible and scalable solution for expanding
- businesses and multi sites

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

<sup>\*</sup>¹ CZ-TACG1 or CZ-CAPWFC1 Network Adaptor required per unit. Requires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available. To use Amazon Alexa to control your air conditioner, you will need an Google Assistant device. Google ILC. Amazon, Alexa and all related logos are trademarks of Amazon. Con, Inc. or its affiliates. Google Hone and Alexa are compatible with the air conditioning systems shown on pages 4 and 5. Google and Alexa functionality is only available with complete air conditioning systems (including Panasonic controllers).

# Panasonic Comfort Cloud

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

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



#### For Residential

Remotely manage and monitor air conditioning units from anywhere anytime.

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## **For Light Commercial**

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

## Panasonic Comfort Cloud features

#### Voice Control

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





#### Multiple User

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



#### From 1 to 200 units

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



#### **Energy Monitor**

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



#### Easy Scheduling

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



#### **Error Codes**

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



# Application Examples



Centralised control from reception.

Multiple location control for small business.

# System configuration

#### **Network Adaptor** CZ-TACG1 CZ-CAPWFC1

CZ-TACG1: For products for small sized project.





CZ-CAPWFC1: Available for all types of VRF and PAC indoor unit.



Indoor Unit

Connection Diagram

LAN





Panasonic Cloud Server

In conformity with IEEE 802.11

# WLAN Smart Adaptor specification

	CZ-TACG1	CZ-CAPWFC1
Input Voltage	DC 12V (Supplie	ed from indoor unit)
Power Consumption	Maximum 0.66W	Maximum 2.4W
Size [H x W x D]	66 x 36 x 12mm	120 x 70 x 25mm
Weight	Approx. 85g	190g (including
		communications lines

VVCIGITE	Approx. 00g	100g (Including
		communications lines
Interface	Wireless LAI	V
Wireless LAN Standard	IEEE 802.11	b/g/n
Frequency range	2.4GHz ban	d
Encryption	WPA2-PSK(	TKIP/AES)
Operation range	0-55°C, 20	- 80RH%





Comfort Cloud App

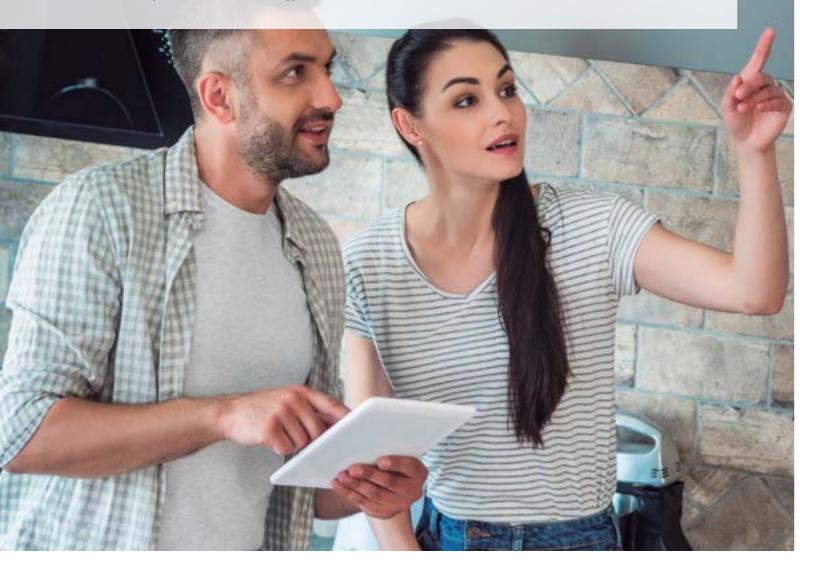
#### Compatible Device and Browsers

- 1. IOS 9.0 or above
- 2. Android 5.0 or above
- Z-TACG1 or CZ-CAPWFC1 Network Adaptor required per unit.
  lequires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available.
  o use Google Assistant to control your air conditioner, you will need an Amazon Echo device.
  o use Google Assistant to control your air conditioner, you will need an Google Assistant device.
  ioogle is a trademark of Google LLC.
  mazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.
  ioogle Home and Alexa are compatible with the air conditioning systems shown on pages 4 and 5.
  ioogle and Alexa functionality is only available with complete air conditioning systems (including Panasonic controllers).
  iunction available depending on the model.

**Smart Home Automation Panasonic** 

# Plug & Play for Home Automation

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





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

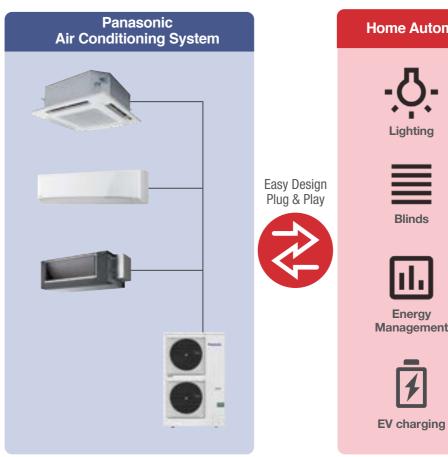


Note: For further information please check CLIPSAL® website

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# Easy Design / Plug & Play

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





# Case study

Panasonic VRF system was selected for the smart apartments, Lilydale Grove, which integrates robust automation technology to simplify your life. While other air conditioner brands need a adaptor to connect to HEMS, Panasonic can seamlessly connect with Schneider's Home automation, one of the market leaders in the HEMS industry.

 Air conditioning system FSV Heat Recovery (20 systems)

FSV Heat Pump (4 systems) 742kW Cooling Capacity

•Indoor units 278 units

SE8000 series 278units Control System



Note: System combination as of July 2020

PAC Smart Connectivity+

# PAC Smart Connectivity+

Through thorough energy management,
Panasonic's PAC Smart Connectivity+\*1 is a completely new,
state-of-the-art solution providing energy saving and
comfort as well as simple installation, operation and
maintenance.



# PAC Smart Connectivity+

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

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

Management System for the Entire Building

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

## Advantages



# Dramatic Reduction of OpEx with Outstanding IAQ.

- $\cdot$  3 Built-in sensors: Temperature, RH and
- Occupancy
- · ZigBee wireless sensors: CO<sub>2</sub>/Temperature/ RH%, window/door, ceiling/wall



#### User-/Owner-friendly.

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



#### Ultimate Customisation.

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



# Easy Design and Plug and Play to Reduce CapEx.

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



# PAC Smart Connectivity+ ~New SE8000 series~

## 1. Quality Air Control

Optimum IAQ is realized using the CO<sub>2</sub> & humidity sensors. The interior remains comfortable, while heating and cooling costs are minimized.

The CO<sub>2</sub> sensor controls ventilation systems which contributes to improving the room's air quality.



# 2. Room Key Card or Key Cardless Solutions for Hotels

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

## 3. Other Equipment Control

One room controller manages various devices including lighting and the blinds. A ventilation system and other external connection devices can be connected by using HRC\*2 or SE8350 so that various control is possible with this controller alone, even without BMS.

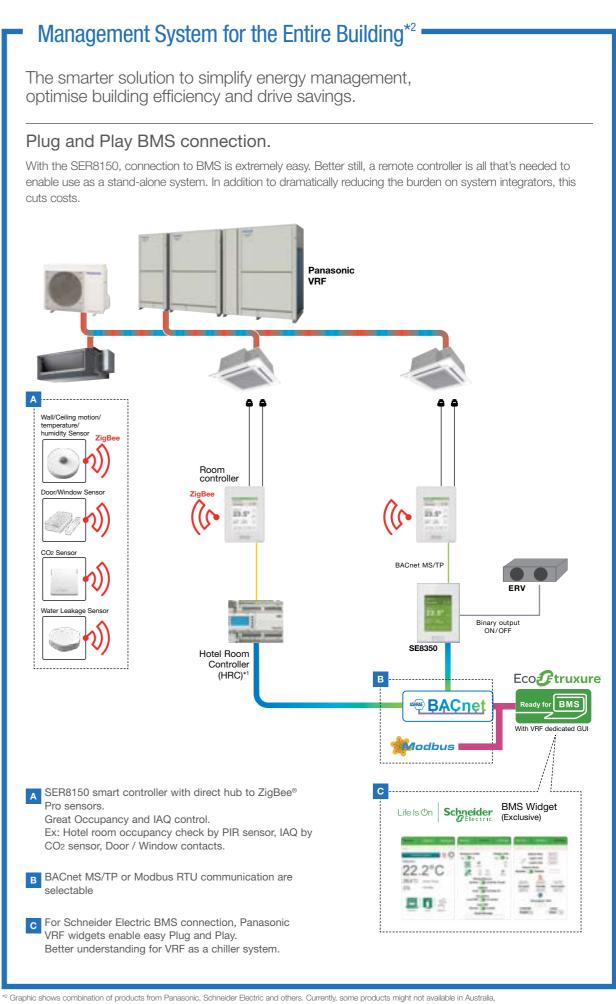


\*1 Not compatible with Ultra Slim Ducted, 4-Way Mini Cassette and Floor Console systems

 $^{\star 2}$  Available through a Schneider Electric distribution channel.

**Panasonic** PAC Smart Connectivity+

# **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. BACnet MS/TP OR Sensing & Control technology Using sensors from Schneider Electric, high-quality occupancy control and automatic IAQ control were realised. The sensors detect the presence or absence of occupants, and the opening and closing of doors and windows to achieve the most efficient energy management for exceptional air-conditioned comfort. Flexible installation is possible to match different applications and building features such as walls, ceilings and proximity to doors and windows. No wiring means extra installation versatility. Batteries last for up to five years (10-year battery for ${\rm CO_2}$ sensor) and are easy to install and replace. CO<sub>2</sub> Sensor Door/Window Sensor



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<sup>\*1</sup> Available through a Schneider Electric distribution channel.

**Panasonic** PAC Smart Connectivity+

# Smart Management Solutions

#### 1 Hotels

#### **Room Key Card or Key Cardless Solutions for Hotels**

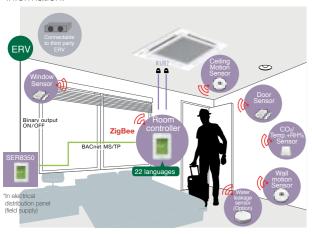
The SER8150 and ZigBee Sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect.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



#### 1. Remote sensing & IAQ contorol

In addition to detecting a room's temperature, humidity and CO2 concentration, ZigBee remote sensors detect the opening/closing of windows and doors, and the presence/ absence of people in a room.

Various IAQ controls and detailed energy savings are possible by using SE8350 based on this detected information.



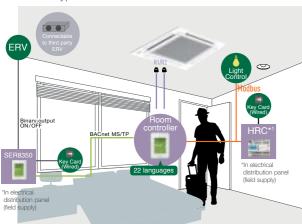
#### 2. BMS Connectivity

By setting HRC\*1 as the guestroom controller, sensing, control and BMS connection can be realized in coordination with SER8150!



#### 3. Key Cardless control

The introduction of SE8350 and HRC enables conventional wired keycards to be connected to the system so that it is possible to meet the specific requirements of various hotel and room types



#### 4. Other control

The introduction of SE8350 and HRC enables the on/off control of devices having dry contact input, such as ventilation, lighting and blinds.



#### 2 Small and Medium Offices



#### CO<sub>2</sub> 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.

# Innovative and Unrivalled Advantages

#### **Colour and Design to Match Office Interiors**

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



#### **Customisation in 22 Languages Possible**

The display can be customised to match the native

languages of guests to enable smooth, stress-free communication for hospitality at its finest.



#### **Easy-to-Understand Error Description**

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



#### **Programmable Logic**

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



## **Smart Connectivity Devices**







#### Features

- · Up to 5-year battery life batteries included (CO2 sensor is 10 years)
- · Battery level is a point
- Sensor points visible when SER8150 is integrated via BACnet MS/TP
- · Sensor status and battery level visible when SER8150 is integrated via ZigBee® Pro

\*1 Available through a Schneider Electric distribution channel.

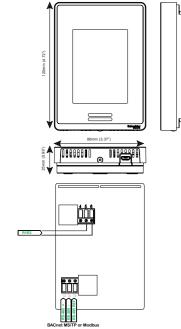
Reference	Description
SER8150R0B1194	Pana Net Con, RH, No PIR, SE Brand, R1R2
SER8150R5B1194	Pana Net Con, RH, PIR, SE Brand, R1R2
VCM8000V5094P	Wireless ZigBee Pro communication card
050050	
SE8350	
SE8350U0B00	BACnet MS/TP, 24VAC, 7UI/4U0/4D0
HRC*1	
HRCEP14R	Hotel Room Expansion Module 1410
HRCPBG28R	Hotel Room Controller 2810
HRCPDG42R	Hotel Room Controller w/Display 4210

Reference	Description	
ZigBee Sensors		
SED-C02-G-5045	Sensor with Room CO2, Temperature and Humidity	
SED-TRH-G-5045	Sensor with Room Temperature and Humidity	
SED-WDC-G-5045	Door/Window Sensor	
SED-MTH-G-5045	Wall/Ceiling motion/temperature/humidity Sensor	
SED-WLS-G-5045	Water Leakage Sensor	

#### PAC Smart Connectivity+ controller external dimensions

#### Room Controller for SER8150



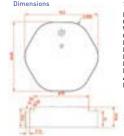


#### Specifications

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

THIS PRODUCT FOR COMMERCIAL USE ONLY

#### Water Leakage Sensor



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Specifications
Dimensions
Colour
Weight
Communication
Battery Voltage
Battery Cell
Battery Life
Rated Power
Maximum Transmitted
Ambient Temperature
Frequency Band White 64g ZigBee 3.0 HA I R03 AAA (2ncs) Up to 5 years ≧ 90 mW

Humidity Sensor and Calibration Single point calibrated bulk polymer type

Single Points
sensor
Humidity Sensor Precision
Reading range from 10 to 90 % R.H. noncondensing 10 to 20% precision: 10%
20% to 80% precision: 5%
80% to 90% precision: 10%
Humidity Sensor Stability
Less than 1.0 % yearly (typical drift)
Wiring

Wiring
Maximum wire length between last indoor
unit to SER8150RxB1194 equals 490ft
[150m] with AWG #18 wire [0.82 mm²].

Refer to Panasonic VRF guidelines "Wiring System Diagram for Remote Controller" for this limitation.

Approximate Shipping Weight 0.34 kg (0.75 lb)

Certification FC (( & X

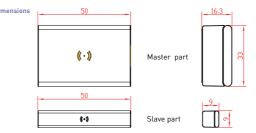
Check with your local government for instruction on disposal of these products.

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

Specifications Dimensions Colour Weight Communication Detection Range 70mm diam..x26.6mm R5m (installation height 1.2m) Battery Voltage Battery Cell Battery Life Ambient Temperature 3V LR03 AAA (2pcs)

FC (( & 3 Check with your local government for instruction on disposal of these products.

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

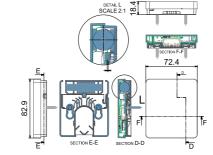


Certification

Master part: 50mmx33mmx16.3mm Slave part: 50mmx9mmx9mm White/transp. white/transp.
30g
ZigBee 3.0 HA
Trigger 'close': wood 30mm, metal 18mm
Tigger 'open': wood 32mm, metal 20mm
3V
CR2450 Battery Voltage Battery Cell Battery Life Ambient Temperature

FC (( @ \( \bar{\sigma} \)

# CO<sub>2</sub> Sensor SED-CO<sub>2</sub>-G-5045



#### Specifications

Specifica...

Dimensions

82.9 m...

0°C to 50°C [32...

Temperature Accuracy ±0.3°C (0.54 °F1 typical w...

0% to 100%

Measurement Range
Measurement/
Transmission Intervals

Sommutes [404, 10 minutes [evening]
Note: Battery life will be reduced should interval be shortened [i.e. using remote temperature/humidity functions]

±60ppr - 3% of reading [400 - 2,000ppm range - 3.0 Green Power [encrypted, bi-directive]

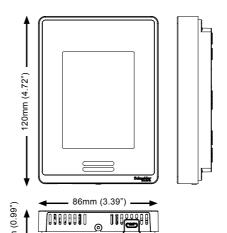
Communication Battery Voltage Battery Cell Battery Life

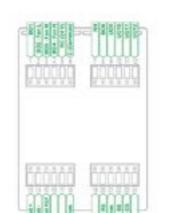
temperature/humidity functions]
±60ppm +3% of reading (400 - 2,000ppm range)
Zigbee 3.0 Green Power (encrypted, bi-directionat)
3.6 V
AA Lithium ion
10+ years (non-replaceable)
Note: Battery life can be reduced when sensor is operated at
temperatures approaching the operating limits.
-30°C to 70°C

Ambient Temperature FC (( @ \bar{\bar{\lambda}{\bar{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\lambda}{\bar{\bar{\lambda}{\bar{\bar{\lambda}{\bar{\lambda}{\bar{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\bar{\bar{\ambda}{\bar{\ambda}{\bar{\bar{\bar{\bar{\ambda}{\bar{\bar{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\bar{\ambda}{\bar{\ambda}{\bar{\ambda}{\bar{\ambar{\ambda}{\bar{\ambda}{\bar{\ambda}{\bar{\ambda}{\bar{\ambda}{\bar{\ambda}{\

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

#### SE8350\*



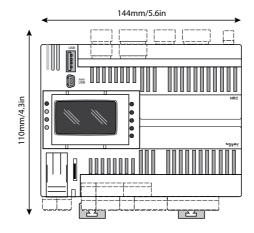


#### Main Specifications

Item	Description
Dimensions	12cm/4.72in (H) x 8.6cm/3.38in (W) x 2.5cm/1in (D)
Power Requirements	Input: 24NAC ±15% recommended, Absolute Max 29.5NAC, 50/60Hz or 24Vdc ±15% Peak device consumption: up to 6VA with CO2 sensor or Wi-Fi module Plus Output Load (max total 94WA) Transformer maximum rating: 100VA, 4.17 A
Output Ratings	Nine Electronic Relays : 24VAC or 24Vdc ±15% same as input power 1.0 Amp, in-rush = 3.0 Amps; Four Analog Outputs : 0-10 Vdc, 5mA maximum, (2 kilo-ohm resistance) Configurable Output Analog/Electronic Relay
Operating Conditions	0 °C to 50 °C (32 °F to 122 °F) 0% to 95% R.H. non-condensing
Storage Conditions	-30 °C to 50 °C (-22 °F to 122 °F) 0% to 95% R.H. non-condensing
Temperature Sensor	Local 10 K NTC type 2 thermistor
Temperature Sensor Resolution	± 0.1 °C (± 0.2 °F)
Temperature Control Accuracy	±0.5 ° C (± 0.9 °F) @ 21 °C (70 °F) typical
Humidity Sensor Precision	Reading range from 10-90 % R.H. non-condensing 10 to 20% precision: 10% 20% to 70% precision: 50% 70% to 90% precision: 10%
Humidity Sensor Stability	Less than 0.25 % yearly (typical drift)
Dehumidification Setpoint Range	30% to 95% R.H.
Occ, Unocc and Standby Cooling Setpoint Range	12.0 °C to 37.5 °C (54 °F to 100 °F)
Occ, Unocc and Standby Heating Setpoint Range	4.5 °C to 32 °C (40 °F to 90 °F)
Room and Outdoor Air Temperature Display Range	-40 °C to 50 °C (-40 °F to 122 °F)
Proportional Band for Room Temperature Control	Cooling and Heating: Default: 1.8°C (3.2°F)
Analog Inputs	Modulating 0-10 VDC across UI19, UI24 to Common
Binary Inputs	Dry contact across terminals UI16, UI17 to Common
Remote Temperature Sensor	10 K NTC type 2 thermistor UI20, UI22, UI23
Wire Gauge	Power supply: 16 or 18 gauge Communications: 22 gauge typical, 24 gauge minimum
Shipping Weight	0.34 kg (0.75 lb)

\*2 SE8350 does not connect directly to the air conditioner itself

#### Hotel Room Controller HRC\*



Specifications

Dimensions 5.6in x 4.3in x 2.4in 144m x 110mm x 60.5mm Digital Inputs High Voltage Relay Digital Outputs Analog Inputs 10 x 3 A SPST +250 VAC relays

12 x configurable analog inputs
DI: voltage free DI, 10 kΩ input impedance
0-20mA: range 0.1000, < 150 Ω impedance
0-10V: range 0.1000 > 10 kΩ impedance
6 x 0-10 V outputs. Load impedance > 700 Ω
24 VAC + 10% NOT ISOLATED
+20...38 Vdc NOT ISOLATED
50/60 Hz
35 VA / 15 W
-20 to 60 °C (-4 to 140 °F) conforming to UL 60730-1

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

\*1 Available through a Schneider Electric distribution channel.

Panasonic AC Smart Cloud **Panasonic** 



#### Flexible solution for your business.





#### Scalable solution for your business.





Small to large

1 to multi sites Upgrade features\*

#### \*1 Customised to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management

## Panasonic AC Smart Cloud offers continuous improvement always thinking about users

#### New e-CUT function

· Energy saving · Zero downtime

· Site(s) management

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

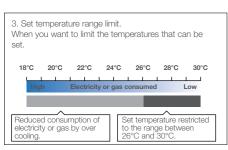
5 energy saving settings reduces automatically its energy consumption.

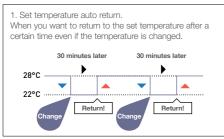
Flexible and scalable solution

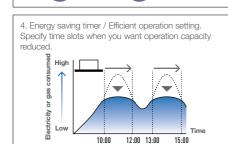
It doesn't matter how many sites you have, or where they are!

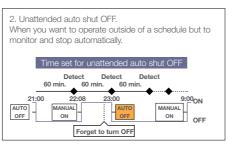
Centralise control of your business premises, from wherever you are, 24/7/365.

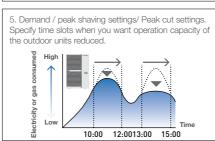
The AC Smart Cloud system from Panasonic allows you to have complete control of all your installations, from your tablet or from your computer. In a simple click, all your units from several locations, receive status updates in real-time of all your installations, preventing breakdowns and optimising costs.











# Key functions and uniqueness

#### Multi site monitoring

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

#### Schedule setting

• Yearly / weekly / holiday timer setting as you want



#### Powerful statistics for energy savings

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

#### Maintenance notification

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



**Panasonic AC Smart Cloud** 

#### User customisation\*2

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





Administrator has a full acc



Energy optimisation





# Main functions per user type

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

Function / Main Tab	Sub-Tab	Basic type (Eg.: Owners, facility managers)	Professional type (Eg.: Installers, maintenance companies)
	Notification overview / details	V	<b>V</b>
Maintanana 6 matian	Maintenance settings	V	V
Maintenance function	Map view	V	V
	Remote service checker		~
User account *2	New / update user registration	V	
	Distribution group overview / details	V	
System setting	Cut OFF request	V	
	Map editor		V

<sup>\*2</sup> Cloud service fee is additionally required. Please contact an authorised Panasonic dealer.

## Remote service checker function

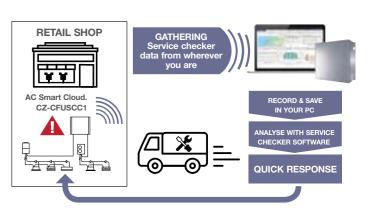


#### Zero down time

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

#### Recording service checker parameters from wherever you are!

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



# Panasonic AC Smart Cloud parts lists

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

Note: Please contact an authorized Panasonic dealer.

# Controllers

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

## **Next Generation Control Solutions**









WLAN Control

CENTRALISED CONTROL SYSTEMS

**Smart Cloud Control** 

BMS Plug & Play

Note: Additional accessories or devices are required. Please consult Panasonic for details.

SMART CONTROL SYSTEMS

OPERATION SYSTEM			INDIVIDUAL CO	NTROL SYSTEMS		
Requirements	Simplified high-spec operation	Zone controller for residential	High-spec operation	Normal operation	Operation from anywhere in the room	Normal operation
External appearance	28	28.0	1 28 a	A see	# T - 1   1   1   1   1   1   1   1   1   1	_
	Simplified high-spec Wired Remote Controller	Zone controller	Deluxe Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller	Wired Remote Controller
Type, model name	CZ-RTC6BL CZ-RTC6BLW	CZ-RTC6Z	CZ-RTC5B	CZ-RTC4	Controller: CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRL3 CZ-RWRD3 CZ-RWRT3 CZ-RWRC3	CZ-RD52CP
Built-in thermostat	•	•	•	•		
nanoe™ X on/off control *not applies to Floor Console	•	•	•		•	_
ECONAVI on/off control	•	_	•	•	•	
Number of indoor units which can be controlled	1 group, 8 units	1 Unit	1 group, 8 units	1 group, 8 units	1 group, 8 units	1 unit
Use limitations	CZ-RTC6BL: Up to 2 controllers can be connected per group(no combination possible with CZ-RTC6BL or CZ-RTC6BLW): CZ-RTC6BLW: Up to 1 controller can be connected per group	Up to 2 controllers can be connected Main/ sub	Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	Up to 2 controllers can be connected per group. (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit)	Up to 2 controllers can be connected per group.	Only 1 controller for 1 indoor unit.
Function ON/OFF	•	•	•	•	•	•
Mode setting	•	•	•	•	•	•
Fan speed setting	•	•	•	•	•	•
Temperature setting	•	•	•	•	•	•
Air flow direction	•		•	•	<b>●</b> *1	•
Permit/Prohibit switching	_	_	_	_	_	_
Weekly program	<b>●</b> *2	Comfort Cloud APP Only.	•	•	_	_

Operation with various function from centre station	Only ON/OFF operation from centre station	Simplified load distribution ratio (LDR) for each tenant  Touch screen panel	Connection with 3rd Party Controller	Cloud connectivity, operation from anywhere	Schneider Electric room controller
	おからか かかかか かからか かからか できた	Alak	Seri-Para I/O unit for outdoor unit		23.5
System Controller	ON/OFF Controller	Intelligent Controller	CZ-CAPDC2	WLAN Smart Adaptor Comfort Cloud App	PAC smart connectivity+
CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	Interface adaptor	CZ-TACG1 / CZ-CAPWFC1	SER8150 (room controller)
		_	1		•
_	_	_	CZ-CAPC3	•	_
•	_	•	Seri-Para I/O unit for each indoor unit	•	_
64 groups, max. 64 units	16 groups, max. 64 units	64 units x 4 links, max. 256 units	1	1 adaptor : 1 group, 8 units. Multiple adaptors for each indoor units : 200 units(10 location x 20 units)	1 group, 8 units
Up to 10 controllers, can be connected to one system. Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. Use without remote controller is possible.	Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. Use without remote controller is impossible.	A communication adaptor (CZ-CFUNC2) must be installed for three or more links.	CZ-CAPBC2  Communication Adaptor	Mobile device, free App and internet router is required separatelly.     Wired remote controller (master) required.	Comparing to RTC5B, up to 1 controller can be connected per IDU. Wired to R1/R2. VRF and PAC(S-link) model only.
•	•	•	CZ-CFUNC2	•	•
•	_	•	LonWorks Interface	•	•
•	_	•		•	•
•	_	•	***	•	•
*1	_	<b>●</b> *1	CZ-CLNC2	•	•
•	•	•		_	_
•		•		•	

Note: Product images not to scale.

Setting is not possible when a remote controller unit is present (use the remote controller for setting).
 CZ-RTC6BL with H&C Control App, CZ-RTC6BLW with H&C Control App or Comfort Cloud App.

Simplified high-spec wired remote controller (CZ-RTC6BL / CZ-RTC6BLW)



#### Deluxe wired remote controller (CZ-RTC5B)



Dimensions H 120 x W 120 x D 16 mm

	CZ-RTC6BL(W) + H&C CONTROL APP	CZ-RTC6Z ZONE CONTROLLER	CZ-RTC5B
Energy Saving			
ECONAVI on/off	•	_	•
Temperature Auto Return	<b>•</b> *1	_	•
Temperature Setting range	<b>•</b> *1	_	•
Auto Shutoff	<b>●</b> *1	_	•
Schedule peak cut	<b>•</b> *1	_	•
Repeat off timer	<b>●</b> *1	_	•
Basic Operation			
Individual Louver Control(Lock individual flap for for 4-WAY cassette)	<b>●</b> *1	_	•
ON/OFF timer	<b>●</b> *1	_	•
Weekly timer	<b>●</b> *1	From Comfort Cloud APP	•
Filter information	●*1*2	_	<b>•</b> *2
Outing function	•	•	•
Quiet operation mode	*1*2	_	<b>●</b> *2
Power consumption monitor	●*1*2	From Comfort Cloud APP *2	<b>•</b> *2
Energy saving	●*1*2	_	<b>●</b> *2
initial settings	_	_	•
Ventilation	<b>●</b> *1	_	•
nanoe <sup>TM</sup> X	●*1*2	<b>●</b> *2	<b>●</b> *2
Maintenance Function			
Outdoor unit error data	_	_	_
Service Contact address	<b>●</b> *1	_	_
RC setting mode	•	•	•
Test run	•	•	•
Sensor information	●*²	<b>●</b> *2	<b>●</b> *2
Service check	•	•	•
Simple/Detailed Settings	•	•	•
Auto address	<b>●</b> *3	•	•
Initial Settings			
Rotation operation	<b>●</b> *1	_	•
Backup operation	●*¹	_	•
Support operation	<b>●</b> *1	_	•

 $<sup>^{\</sup>star 1}$  Only with H&C Control App  $^{\star 2}$  Subject to the connected model  $^{\star 3}$  Only with remote controller operation

#### New service checker interface



The new service checker interface provides easy access to service parameters and service checker data via Bluetooth®.

- A new service checker interface\*4 for Temperature / Humidity PAC NX Series
- Bluetooth® connection
- Panasonic H&C Diagnosis App
- \*4 Available as a spare part, compatible with new PAC NX Series.

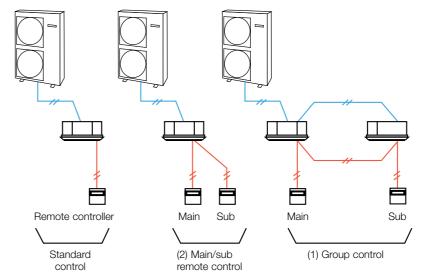
Input voltage	220-240 V ~ 50-60 Hz (supplied from outdoor unit)		
Power consumption	Maximum 2,4 W (including outdoor units)		
Size (H x W x D)	175 x 125 x 50 mm		
Weight	_		
Interface	Bluetooth® 4.2 or later		
Frequency range	2,4 GHz band		
Operation range -	0 ~ 40 °C / 20 ~ 80 % (no condensation)		

- \* Frequency band in which the ratio equipment operates;
- 2402 2480 MHz.
- \* Maximum radio-frequency power transmitted in the frequency bands in which the ratio equipment operates; +0 dBm.

# **Individual Control Systems**

Control contents	Part name, model No.	Quantity
Standard Control  Control of the various operations of the indoor unit by wired or wireless remote controller.	Wired remoted controller CZ-RTC4 / CZ-RTC5B / CZ-RTC6BL / CZ-RTC6BLW	1 unit each
<ul> <li>Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller.</li> </ul>	Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted / Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	
(1) 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 / CZ-RTC6BL / CZ-RTC6BLW Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted / Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	As required
(2) Main/sub remote control  Max 2 remote controllers per indoor unit. (Main remote controller can be connected)  The button pressed last has priority.  Timer setting is possible even with the sub remote controller. When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit.	Main or sub Wired remoted controller CZ-RTC4 / CZ-RTC5B / CZ-RTC6BL Wireless remote controller + Receiver CZ-RWS3 (Wall Mounted / Mini Cassette) CZ-RWS3 + CZ-RWRU3 (4-WAY Cassette) CZ-RWS3 + CZ-RWRT3 (Under Ceiling) CZ-RWS3 + CZ-RWRC3 (All split type)	As required

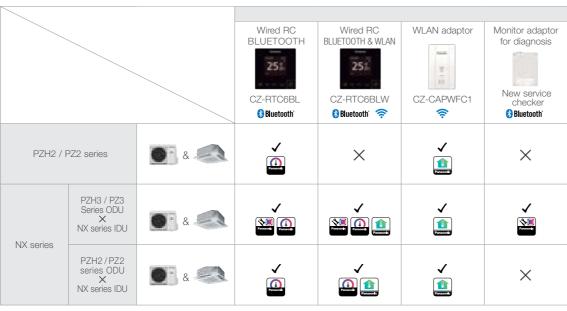
#### SYSTEM EXAMPLE



Note: Conectable number of controllers, controller conbination, conectable indoor units, remote control maximum wiring length are different between the controller. Please confirm the Installation Instructions of controller or consult with Panasonic service

#### New wired RC & Monitor adaptor & App compatibility\*

\*1 End User App Recommendation CZ-RTC6BL - H&C Control App CZ-RTC6BLW – Comfort Cloud App



Note: Power supply is available only when using NX IDU

\*New Zone controller (CZ-RTC6Z) can be connected with 3.6 kW to 22.4 kW Ducted (PE3 and PF3) Indoors and VRF Ducted (M1, E1, E2, E1R, F2, F3 and Z1) Indoors. \*Connectable to selected Panasonic ducted models only, please consult Panasonic for more details

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



Dimensions H 120 x W 120 x D 20 mm

#### Basic remote controller ON/OFF

- Operation mode changeover (Cooling, Heating, Dry, Auto, Fan).
- Temperature setting
- (Cooling / Dry: 18-30 °C Heating: 16-30 °C).
- Fan speed setting H / M / L and Auto.
- Air flow direction adjustment.
- ECONAVI on / off\*2

#### 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.

#### Wireless remote controller



Cassette type CZ-RWS3 +CZ-RWRU3



For all Ducted types CZ-RWS3 +CZ-RWRC3



Remote control by main remote controller and sub controller is possible

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

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

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

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)



Note: Product images not to scale. Note: Product images not to scale.

 $<sup>^{\</sup>star 2}$  Depending on the model, some menus cannot be used.

# T10 Terminal for External Control (Digital Connection)

Connecting an indoor unit to an external device is easy.

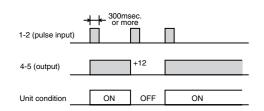
The T10 Terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.



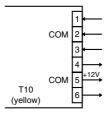


#### 1. T10 Terminal Specification (T10:CN061 at indoor unit PCB)

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



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



#### Condition

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

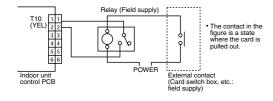
## 2. Usage Example

#### 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

#### Example of wiring

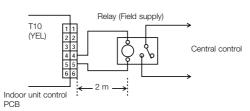


Note: The wire length from indoor unit to the Relay must be within 2.0m

#### Operation ON/OFF signal output

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

#### Example of wiring



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

#### Reducing inefficient air conditioning

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

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



FCONAVI Sensor CZ-CENSC1

Sensors are remotely located

When sensors are built into the indoor

the area of detection and lowering the

can be located any where in the room

which enables the optimum layout for

sensors in any location.

energy-saving effect. Panasonic sensors

fittings can obstruct the sensors, reducing

unit, pillars, walls, cabinets and other

to maximise the energy-

saving effect

• please check specific models for compatibility

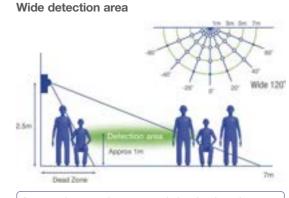
#### How 2 sensors work for human detection

## 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



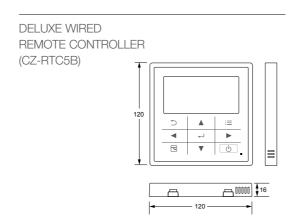


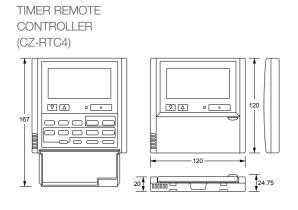
A sensor is remotely set to maximise the detection area.

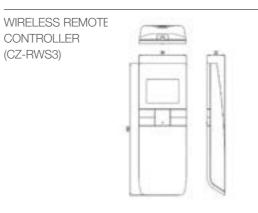
Installation flexibilitydy for indoor unit layout changes.

# Remote Controller External Dimensions

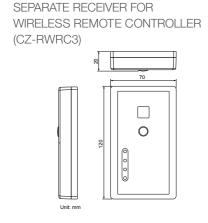
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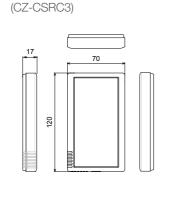




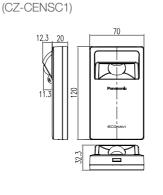


ECONAVI SENSOR





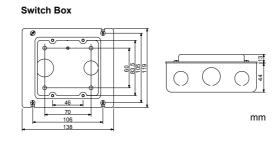
REMOTE SENSOR



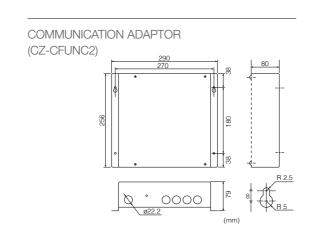
SYSTEM CONTROLLER (CZ-64ESMC3)

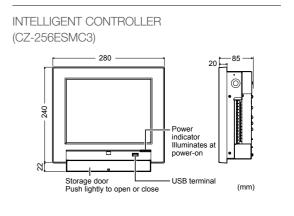
System Controller

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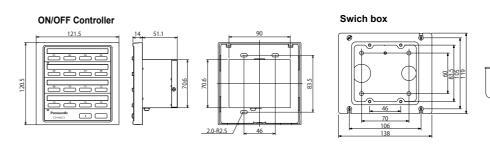


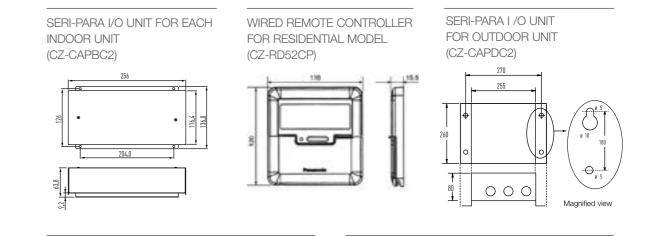
# Remote Controller External Dimensions

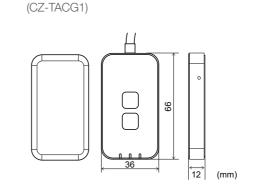




ON/OFF CONTROLLER (CZ-ANC3)







WLAN ADAPTOR

