Panasonic

R32 RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING

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The new Panasonic NX series The next generation is now

The new CONEX remote controller (CZ-RTC6WBLW*¹/CZ-RTC6BLW/CZ-RTC6WZ*¹/CZ-RTC6Z) multiplies the benefits of a standard nanoe[™]X installation, letting you create clean, healthy air in your living spaces 24 hours a day, anytime, anywhere.



^{*1} Scheduled release date of 4th Quarter in CY23. Black models (CZ-RTC6BL/CZ-RTC6BLW/CZ-RTC6Z) are also available.

^{*2} The nance™ X mode can be run independently from cooling or heating mode, and needs to be on for the 24 hour air purification to function.

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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.

Note: PF3 range only.

Product Line-up

		Cooling Capacity	1		2.5 k	W 3.6	kW 5.	0 kW
		Ducted	NX Series High Static Ducted High Static Pressure Model Page 22-25 for 6.0kW to 16.0kW	Generator Mark2				
	Indoor Unit		NX Series Splittable Ducted High Static Pressure Model Page 26-27 for 18kW - 22.4kW	Generator Mark3				
			NX Series Adaptive Ducted High Static Pressure Model Page 28-31	Generator Mark2			S-3650PF3E	S-3650PF3E
For Medium Sized Project		Cassette	NX Series 4-WAY Cassette * Panel is provided as an option (CZ-KPU3H/CZ-KPU3. Page 34-37	Generator Mark1				
			NX Series Low Profile Mini Cassette	Generator Mark2	S-25PY3E	S-36PY3E	S-50PY3	E
		Under Ceiling	NX Series Page 40-43	Generator Mark2				
		Wall Mounted	NX Series Page 44-45	Generator Mark2				
	Outdoor	NX Series	R32 Deluxe Model Page 20-21	R32 REFERENCE Tready				
	Unit		R32 Compact Model Page 20-21	R32 DRED Weready	U-25PZ	3R5	U-36PZ3R5	U-50PZ3R5
For	Indoor	Ducted	Ultra Slim Ducted		CS-Z25UD3F	RAW CS-Z35UD3R/	AW CS-Z50UD	BRAW
Small Sized Project	Unit	Floor Console	Page 46-47	ۥnanoe X Generator Mark1	CS-Z25UFRA	AW CS-Z35UFRA	AW CS-Z50UF	RAW
	Outdoor Unit	R32 Model		R32 ERREGAN DRED TO THE PROPERTY TO THE PROPER	CU-Z25UBR	CU-Z35UBRA	A CU-Z50UE	BRA

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	
	S-60PE3R	S-71PE3R	S-100PE3R	S-125PE3R	S-140PE3R	S-160PE3R				
							S-180PE4R	S-200PE4R	S-224PE4R	
S-	6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E					
S-6	6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E					
S-60PY3E										
		S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E					
			S-100PK3R							
		U-71PZH3R5	U-100PZH3R5 U-100PZH3R8*1	U-125PZH3R5 U-125PZH3R8*1	U-140PZH3R5 U-140PZH3R8*1	U-160PZH3R5 U-160PZH3R8*1	U-180PZH3R5 U-180PZH3R8*1	U-200PZH3R8*1	U-224PZH3R8*1	
	U-60PZ3R5	U-71PZ3R5	U-100PZ3R5 U-100PZ3R8*1	U-125PZ3R5 U-125PZ3R8*1	U-140PZ3R5 U-140PZ3R8*1				*1 3 phase	
CS-Z60UD3	BRAW		Residence of the second							
CU-Z60UBF	RA									

24-hour nanoe™X Air Purification*



nanoe™ X works to inhibit longer-living, adhered bacteria and viruses. The CONEX remote control (CZ-RTC6WBLW*2/CZ-RTC6BLW/CZ-RTC6WZ*2/ CZ-RTC6Z) gives you access to your air conditioner anywhere, anytime, so you can turn nanoe™ X on even while you're out and enjoy 24-hour quality air in your home.



Viruses

Last up to 3 hours

Glass surface

Virus lifespan up to 4 days

Adhered **Viruses**

Last up to 2-7 days

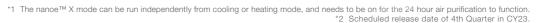
Wood

Virus lifespan up to 2 days

Electrostatic atomisation

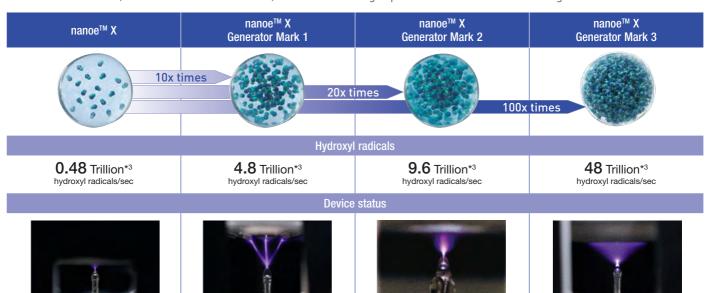
Circular discharge

Fabrics Virus lifespan up to 2 days



nanoe™ X Device Evolution

Dramatically increased release of hydroxyl radicals and making the high concentration of nanoe™ X in the space. The latest device, nanoe™ X Generator Mark 3, can be used in large spaces of more than 100 m² with greater effectiveness.

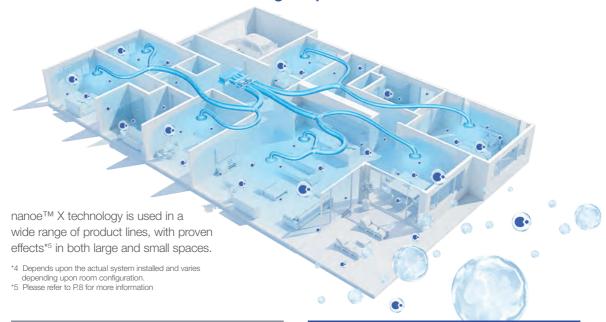


Electrostatic atomisation

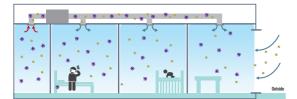
Multi-leader discharge



nanoe[™]X works even in larger spaces[™]

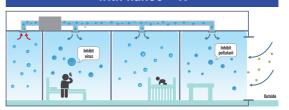


Standard ducted air conditioning system without nanoe™ X



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.

Panasonic ducted air conditioning system 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™ 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*6 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 adaptor
- Indoor 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.

Verification tests for nanoe™ X effects in large spaces



The nanoe™ X inhibited hexadecane, a chemical contained in PM2.5 (267 m²)

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).
- *2 Hexadecane is a hazardous substance contained in gasoline and diesel exhaust gas.

Hexadecane Inhibition Rate Natural **c**∙nanoeX reduction 14% 80 60 40 20 4-Way Cassette 8 hours later-Hexadecane 3 m 16.3 m 16.4 m

Testing method: Measured the amount of attached organic substances in an approximately 802 m³ sized test room Inhibition method: nanoe™ X Generator Mark 1 released Test substance: Hexadecane
Test result: Broken down 92% in 8 hours (ETRC257/16/1402 (R479/19))



The nanoe™ X reduced the odours adhering to fibres such as curtains and carpets (139m²)

3rd party

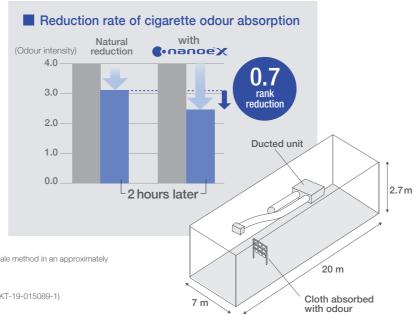
Cigarette smoke odour

Results

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

Testing organization

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



Testing method: Verified using the six-level odour intensity scale method in an approximately $378~{\rm m^3}$ sized test room Inhibition method: nanoeTM X Generator Mark 2 released

Test substance: Surface-attached cigarette smoke odour Test result: Odour intensity reduced by 0.7 levels in 2 hours (KT-19-015089-1)



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



Professor

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*3*4 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 nanoeTM 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 nanoeTM X is effective in inhibiting invisible allergens, we can expect it will create a cleaner environment. As the safety of nanoeTM X has also been verified, nanoeTM X gives peace of mind to families with small children.

^{*3} 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
commune Bacteria: Methicillin-resistant Staphylococcus aureus (MRSA), Listeria monocytogenes, Bacillus subtilis, Mycobacterium smegmatis, Nocardia asteroids, Neisseria
gonorrhoeae, Salmonella enterica subsp. Enterica, Haemophilus influenza, Campylobacter jejuni.

^{*}d This verification was designed to generate basic research data on the effects of nanoeTM X on the mould and bacteria in laboratory conditions different from those found in living spaces. It was not designed to evaluate product performance.

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.



Employee







Controller*/Adaptor









Shop Owner



Panasonic AC Service Cloud



Bldg. Owner





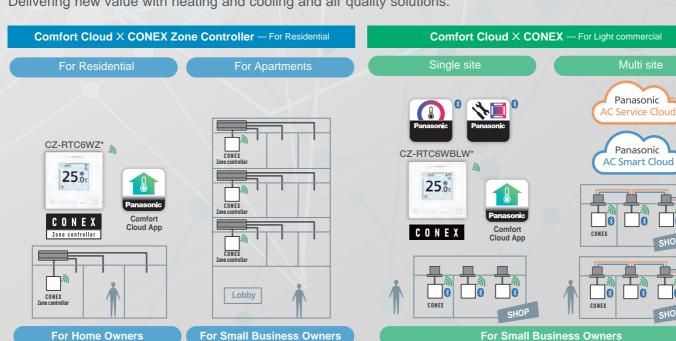
Owner's family



House Owner

Panasonic IoT Solution (Remote Controllers & App)

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



^{**} If owners have a multisite business, they can also use Smart/Service Cloud for total management.

Comfort Cloud x CONEX* — For Light Commercial



Pre-Cool Your Office Before Arriving



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





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.





Purifies Your Office with nanoe™ X



With the Comfort Cloud App, you can easily turn on the nanoe $^{\text{TM}}$ mode anytime, anywhere.





Group Status



Statistics



Requirements for Connecting with Panasonic Comfort Cloud App



External Adapter, Remote Controller Network

Comfort Cloud x CONEX Zone Controller* — For Residential



Individual Comfort and Energy Saving Airflow Volume Control

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



The living room damper opening is increased.



For daily naps, reduce the air volume so that it doesn't get too cold

Auto-optimised Comfort for Your Lifestyle Weekly Timer

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





Pre-cool 30 minutes before going to bed, living weekend mornings to suit zone off 30 minutes later.



Cool your bedroom on your oversleep.

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



Statistics





Other Hardware Requirements*

Router - Internet - Smartphone (Required 2.4GHz transmission channel)

*Purchase and subscribe separately



Compatible Device and Browsers

1. iOS 9.0 or above 2. Android™ 5.0 Lollipop or later





Download Free App

Panasonic Comfort Cloud app











(CZ-RTC6WBL*/CZ-RTC6WBLW*)

(CZ-RTC6BL/CZ-RTC6BLW)

CONEX

Simple and sophisticated design in-and-out

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

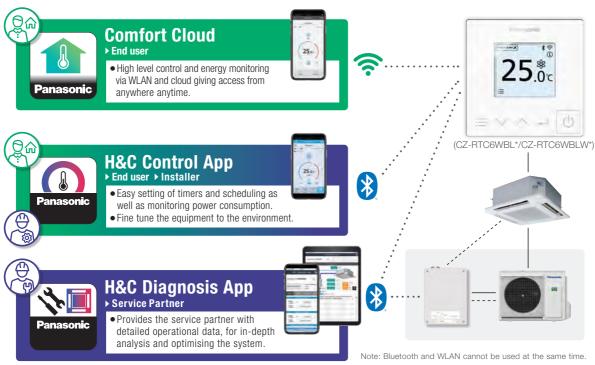
Easy control and access for end users, installers, and service partners with just one remote

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.





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



Note: Can be used with new NX series only.

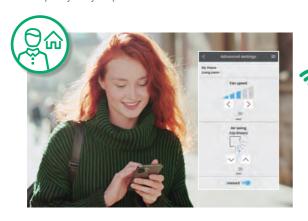
 * New white model's scheduled release date is 4th Quarter in CY23.

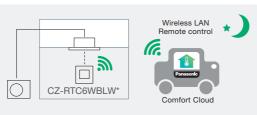
True-comfort for end user— Comfort Cloud App

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



Air Purificat





For restaurant owners

Remote control makes 24-hr nanoe™X air purification*¹ in restaurants a reality, even when they're closed. 24-hours

For shop owners

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

For boutique hotel owners

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

^{*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.

Note: Product images not to scale.

■ 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.









Indoors

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.

*1 Available as a spare part, compatible with new NX series only.

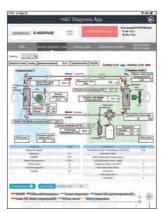
Acquire the information you need intuitively and quickly

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



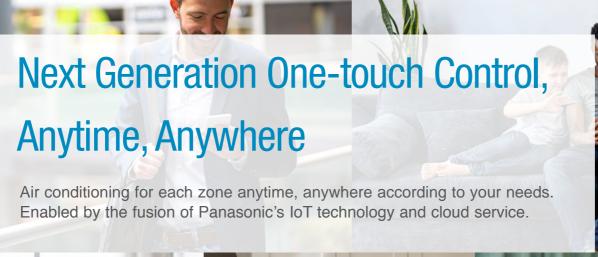
Real time data



History data



New service checker interface





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 lifestyle.





CONEX

Zone controller



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.

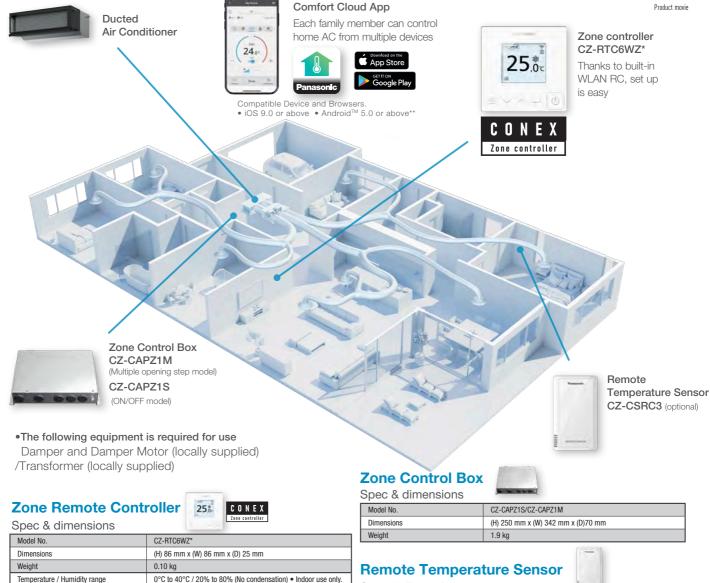
Manage Up to 8 Zones with an Advanced Zone Control System

Intuitive Control with





Product movie



Spec & dimensions

Temperature / Humidity range

CZ-CSRC3

(H) 120 mm x (W) 70 mm x (D) 17 mm

Model No.

Dimensions

Weight

Usable indoor units

OS version on the mobile device for CFC

Power Source

Frequency range

Encryption

Wireless LAN standard

Zone Controller can be connected with 3.6 kW to 22.4 kW Ducted (PE3, PF3 and PE4) Indoors and VRF Ducted units (M1, E1, E2, E1R, F2, F3 and Z1).



0°C to 40°C / 20% to 80% (No condensation) • Indoor use only.

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

DC16 V (supplied from indoor unit)

iOS: 9.0 or later AndroidTM: 5.0 or later

IEEE 802.11 b/g/n

WPA2-PSK (TKIP/AES)

2.4 GHz band

Series	PE4	PE3	PF3	MM1	ME1	ME2	ME1R	MF2	MF3	MZ1
Capacity	18.0 kW-22.0 kW	6.0 kW- 22.4 kW	3.6 kW- 14.0 kW	2.2 kW- 5.6 kW	7.3 kW- 14.0 kW		9.0 kW- 16.0 kW	2.2 16.0		2.2 kW- 7.3 kW

Note: Product images not to scale.

^{**} 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

 $^{^{\}star\star} \text{ Android}^{\text{TM}}, \text{ Google Play}^{\text{TM}} \text{ and Google Play}^{\text{TM}} \text{ logos are registered trademarks of Google LLC}.$



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-71PZH3R5











U-180P7H3R8*





Industry-leading Small Body with All 1-fan Models

R32 Compact



11-36P73R5

11-50P73R5



11_60P73B5





U-100PZ3R5 U-100PZ3R8*



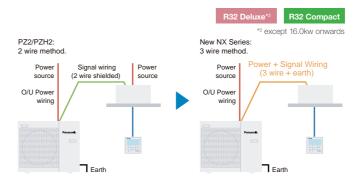
II-125P73R5 U-125PZ3R8*



11-1/0P73B5 U-140PZ3R8

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.



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.

R32 Compac

- 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.

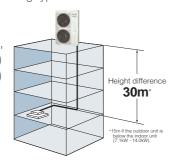
Other Advanced Technology

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

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 Compact R32 Deluxe

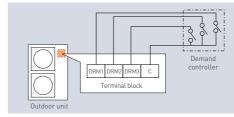
Quiet mode reduces outdoor operating sound by 2dB. External input signal is also available.

Demand Response Compliant

R32 Compact R32 Delu

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.

Indoor Unit High Static Pressure ucted

High static and large airflow ducted for exceptional installation flexibility.











Function





Operation

*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

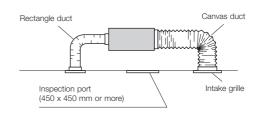
Hidden in the ceiling, ideal when interior decor is an important consideration such as in residences with many rooms and light commercial buildings.



1200mm 700mm 290mm S-60PE3R 1200mm 700mm 430mm S-125PE3R 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.

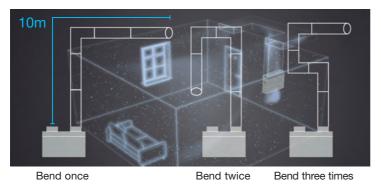




Clean air. Ducts that deliver

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



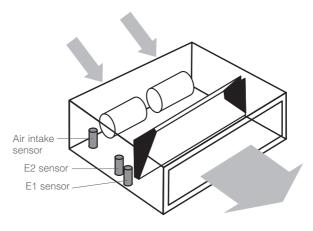


As the experiments demonstrate; even with a total ductwork length of up to 10 m, effectiveness of nanoe $^{\text{TM}}$ X is maintained.

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.



Indoor Unit: High Static Pressure Ducted

High Static Pressure Duct R32 Deluxe model R32

Capacity				7.1kW	10.0kW		12.5kW
MadalNama		Indoor Unit		S-71PE3R	S-100PE3R	S-100PE3R	S-125PE3R
Model Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5
			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)
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)
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)
			BTU/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)
EER : COP			W/W	3.48 : 3.88	3.79 : 3.78	3.79 : 3.78	3.57 : 3.80
COP@H2 condition			W/W	2.80	2.77	2.77	2.72
Total power input		Cooling : Heating	kW	2.04 : 2.06	2.64 : 2.96	2.64 : 2.96	3.50 : 3.68
		Hot Climate		4.68 : 4.82	5.04 : 5.10	5.04 : 5.10	4.92 : 5.17
	Residential	Average Climate		4.11 : 4.22	4.46 : 4.34	4.46 : 4.34	4.49 : 4.40
TCSPF: HSPF -		Cold Climate		4.19:3.79	4.54 : 3.93	4.54 : 3.93	4.60 : 3.90
TCSPF: HSPF -		Hot Climate		5.15 : 4.85	5.55 : 5.15	5.55 : 5.15	5.36 : 5.23
	Commercial	Average Climate		5.00 : 4.52	5.47 : 4.73	5.47:4.73	5.55 : 4.80
		Cold Climate		5.37 : 4.11	5.87 : 4.32	5.87:4.32	5.97 : 4.31
Indoor Unit							
Power source			Phase/Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V
Current (rated)		Cooling : Heating		-*1	-*1	-*1	-*1
Dimension	HxWxD	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
Net weight		Indoor	kg	36	37	37	41
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
External static pressur	re		Pa	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure level ((H/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
Sound power level (H/	/M/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
Number of fan speeds	3			3	3	3	3
Drain piping			mm	VP-25	VP-25	VP-25	VP-25
Outdoor Unit							
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V 240V	230V 240V	400V 415V	230V 240V
Current (rated)		Cooling : Heating	А	9.85 : 9.95 9.55 : 9.65	12.8 : 14.3 12.2 : 13.7	4.25 : 4.75 4.15 : 4.60	16.7 : 17.6 16.0 : 16.8
Dimension		$H \times W \times D$	mm	996 x 940 x 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
Air volume		Cooling : Heating	L/s	1,018 : 1,002	1,970 : 1,803	1,970 : 1,803	2,087 : 1,870
Sound pressure level ((Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)
Sound power level (Sil	lent mode)	Cooling : Heating	dB	64 (62) : 66 (64)	68 (66) : <mark>68 (66)</mark>	68 (66) : 68 (66)	69 (67) : 69 (67)
Piping connections		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 - 50	5 - 85	5 - 85	5 - 85
Elevation difference (C	U located lower	er, OU located higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum chargeless	length		m	30	30	30	30
Refrigerant at shipping	/ Additional g	as 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			

Specifications of R32 Compact Model R32

Capacity				6.0kW	7.1kW	10.0kW	
Madal Name		Indoor Unit		S-60PE3R	S-71PE3R	S-100PE3R	S-100PE3R
Model Name		Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8
			1.147	6.0 (2.0 - 7.1)	7.1 (2.6 - 7.7)	10.0 (3.0 - 11.5)	10.0 (3.0 - 11.5)
Cooling capacity:			kW	6.0 (1.8 - 7.0)	7.1 (2.1 - 8.1)	10.0 (3.0 - 14.0)	10.0 (3.0 - 14.0)
Heating capacity			DTI I/	20,500 (6,800 - 24,200)	24,200 (8,900 - 26,300)	34,100 (10,200 - 39,200)	34,100 (10,200 - 39,200)
			BTU/h	20,500 (6,100 - 23,900)	24,200 (7,200 - 27,600)	34,100 (10,200 - 47,800)	34,100 (10,200 - 47,800)
EER : COP			W/W	3.26 : 4.08	3.21 : 4.25	3.58 : 4.08	3.58 : 4.08
COP@H2 conditio	n		W/W	3.00	3.11	2.88	2.88
Total power input		Cooling : Heating	kW	1.84 : 1.47	2.21 : 1.67	2.79 : 2.45	2.79 : 2.45
		Hot Climate		3.98 : 3.95	3.96: 4.05	4.64 : 3.95	4.64:3.95
	Residential	Average Climate		3.56 : 3.88	3.59 : 4.00	4.17 : 3.81	4.17:3.81
TOODE LIONS		Cold Climate		3.58 : 3.59	3.63: 3.70	4.23 : 3.55	4.23 : 3.55
TCSPF : HSPF		Hot Climate		4.25 : 3.83	4.22 : 3.91	4.99 : 3.90	4.99:3.90
	Commercial	Average Climate		4.16:3.74	4.19 : 3.83	4.98 : 3.80	4.98:3.80
		Cold Climate		4.38 : 3.58	4.41 : 3.67	5.28 : 3.61	5.28 : 3.61
Indoor Unit							
			Phase/Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V
Dimensions	$H \times W \times D$	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
Net weight		Indoor / Panel	kg	31	36	37	37
Air 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
External static pres	ssure		Pa	70 (10 - 150)	100 (10 - 150)	100 (10 - 150)	100 (10 - 150)
Sound pressure le	vel (H/M/L)	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
Sound power level	I (H/M/L)	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
Number of fan spe	eeds			3	3	3	3
Drain piping			mm	VP-25	VP-25	VP-25	VP-25
Outdoor Unit							
D			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source			V	230V 240V	230V 240V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	А	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
Dimensions		$H \times W \times D$	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370
Net weight			kg	43	50	83	83
Air volume		Cooling : Heating	L/s	701 : 701	746 : 766	1,219 : 1,219	1,219 : 1,219
Sound pressure le	vel (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)
Sound power leve	(Silent mode)	Cooling : Heating	dB	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)
Piping connections	3	Liquid / Gas	mm	Ø6.35 / Ø12.7*3	Ø6.35 / Ø15.88*4	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
Pipe length range		min max.	m	3 - 40	3 - 40	5 - 50	5 - 50
Elevation difference	e (OU located lowe	er, OU located higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum chargele	ess length		m	30	30	30	30
	ping, Additional ga	as amount	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)
		Cooling : Heating	°C	-10 to 46 : -15 to 24			

	14.0kW		16.0kW	
S-125PE3R	S-140PE3R	S-140PE3R	S-160PE3R	S-160PE3R
U-125PZH3R8	U-140PZH3R5	U-140PZH3R8	U-160PZH3R5	U-160PZH3R8
12.5 (3.2 - 14.0)	14.0 (3.3 - 16.0)	14.0 (3.3 - 16.0)	16.0 (5.2-18.0)	16.0 (5.5 - 18.0)
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)
42,700 (10,900 - 47,800)	47,800 (11,300 - 54,600)	47,800 (11,300 - 54,600)	54,600 (17,700-61,400)	54,600 (17,700 - 61,400)
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)
3.57: 3.80	3.26 : 3.68	3.26 : 3.68	3.29: 3.53	3.29 : 3.53
2.72	2.65	2.65	2.81	2.81
3.50 : 3.68	4.30 : 4.35	4.30 : 4.35	4.86:5.10	4.86:5.10
4.92 : 5.17	4.29 : 4.69	4.29:4.69	4.48 : 4.43	4.48 : 4.43
4.49 : 4.40	3.92 : 4.07	3.92:4.07	4.03:3.89	4.03:3.89
4.60 : 3.90	4.03 : 3.62	4.03:3.62	4.08:3.49	4.08 : 3.49
5.36 : 5.23	4.63 : 4.74	4.63:4.74	5.03:4.43	5.03:4.43
5.55 : 4.80	4.60 : 4.39	4.60 : 4.39	5.22 : 4.13	5.22 : 4.13
5.97:4.31	4.91 : 3.96	4.91 : 3.96	5.79:3.77	5.79:3.77
1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1Phase / 50Hz	1 Phase / 50Hz
230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
_*1	_*1	_*1	2.41 : 2.41 2.38 : 2.38	2.41 : 2.41 2.38 : 2.38
430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1200 x 700	430 x 1,200 x 700
41	50	50	50	50
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 / 701	1,002 / 835 / 701 : 1,002 / 835 / 701
100 (10 - 150)	100 (50 - 150*2)	100 (50 - 150*2)	100 / (Max 150)	100 (Max 150)
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 / 47
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 / 69
3	3	3	3	3
VP-25	VP-25	VP-25	VP-25	VP-25
3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1Phase / 50Hz	3 Phase / 50Hz
400V 415V	230V 240V	400V 415V	230V / 240V	400V 415V
5.60 : 5.90 5.40 : 5.70	19.7 : 19.9 18.9 : 19.1	6.60 : 6.70 6.35 : 6.45	22.5 : 23.6 21.5 : 22.6	7.80 : 8.20 7.50 : 7.90
1,416 × 940 × 340	1,416 x 940 x 340	1,416 x 940 x 340	1500 x 980 x 370	1,500 x 980 x 370
99	99	99	117	115
2,087 : 1, <mark>870</mark>	2,154 : 1,937	2,154:1,937	2,738 : 2,738	2,738 : 2,738
53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)	58 : 60	58 : 60
69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)	76 : <mark>78</mark>	76 : <mark>78</mark>
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø19.05	Ø9.52 / Ø19.05
5 - 85	5 - 85	5 - 85	5 - 100	5 - 100
15, 30	15, 30	15, 30	30, 30	30, 30
30	30	30	30	30
R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,200 / 63.5 (g/m)	R32 3,200 / 63.5 (g/m)
-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 52 : -20 to 24	-15 to 52 : -20 to 24

12.5kW		14.0kW	
S-125PE3R	S-125PE3R	S-140PE3R	S-140PE3R
U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
12.5 (3.2 - 13.5)	12.5 (3.2 - 13.5)	14.0 (3.3 - 15.0)	14.0 (3.3 - 15.0)
12.5 (3.3 - 15.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)
42,700 (10,900 - 46,100)	42,700 (10,900 - 46,100)	47,800 (11,300 - 51,200)	47,800 (11,300 - 51,200)
42,700 (11,300 - 51,200)	42,700 (11,300 - 51,200)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)
3.55 : 4.03	3.55 : 4.03	3.25 : 3.76	3.25 : 3.76
2.56	2.56	2.68	2.68
3.52 : 3.10	3.52 : 3.10	4.31:3.72	4.31 : 3.72
4.60 : 3.93	4.60 : 3.93	4.27:3.79	4.27:3.79
4.16 : 3.79	4.16:3.79	3.92 : 3.64	3.92 : 3.64
4.26 : 3.47	4.26 : 3.47	4.03:3.34	4.03 : 3.34
4.96 : 3.84	4.96 : 3.84	4.56:3.70	4.56 : 3.70
4.88 : 3.73	4.88: 3.73	4.53 : 3.58	4.53 : 3.58
5.20 : 3.52	5.20 : 3.52	4.81 : 3.40	4.81 : 3.40
1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
230V 240V	230V 240V	230V 240V	230V 240V
430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700	430 x 1,200 x 700
41	41	50	50
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
100 (10 - 150)	100 (10 - 150)	100 (50 - 150*2)	100 (50 - 150*2)
49 / 47 / 45 : 49 / 47 / 45	49 / 47 / 45 : 49 / 47 / 45	51 / 49 / 47 : 51 / 49 / 47	51 / 49 / 47 : 51 / 49 / 47
71 / 69 / 67 : 71 / 69 / 67	71 / 69 / 67 : 71 / 69 / 67	73 / 71 / 69 : 73 / 71 / 69	73 / 71 / 69 : 73 / 71 / 69
3	3	3	3
VP-25	VP-25	VP-25	VP-25
1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
230V 240V	400V 415V	230V 240V	400V 415V
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
996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
87	87	87	87
1,369 : 1,336	1,369 : 1,336	1,402 : 1,369	1,402 : 1,369
55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
5 - 50	5 - 50	5 - 50	5 - 50
15, 30	15, 30	15, 30	15, 30
30	30	30	30
R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)	R32 2,800 / 45 (g/m)
-10 to 46 : -15 to 24	-10 to 46 : -15 to 24	-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 (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.

- installed due to ambient conditions.
- *1 Outdoor power supply.
 *2 Not adjustable, refer to "Indoor Fan Performance" section of technical data.
- section of technical data.

 *For piping 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.

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

Indoor Unit

High Static Pressure

able Ducted

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-224PE4R

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

New Ducted Model Key Factors



Bell Shaped Keyhole for Weight Support

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





2 Wire Connectors for Easy Installation

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









12 Bolts & Screws for Easy Assembly

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

Easy Assembly Steps

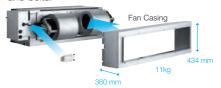
Assembly takes three easy steps, even in limited spaces.

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

2 Assemble the connectors.



3 Install the chassis and tighten the screws and bolts.









Specifications of R32 Deluxe Model R32

Capacity				18.0kW		20.0kW	22.4kW
		Indoor Unit		S-180PE4R	S-180PE4R	S-200PE4R	S-224PE4R
Model Name		Outdoor Unit		U-180PZH3R5	U-180PZH3R8	U-200PZH3R8	U-224PZH3R8
Cooling Capacity:			kW	18.0 (5.5-20.0) 20.0 (5.5-22.4)	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)	61,400 (18,800-68,200) 68,200 (18,800-76,400)	68,200 (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 : 3.75	3.20 : 3.75	3.33 : 3.67	3.09 : 3.52
COP@H2 condition			W/W	2.9	2.9	2.7	2.6
Total power input		Cooling : Heating	kW	5.63 : 5.33	5.63 : 5.33	6.00 : 6.10	7.24 : 7.10
			Hot Climate	4.33 : 4.95	4.33:4.95	4.33 : 4.42	4.00 : 4.55
	Residential		Average Climate	3.93 : 4.24	3.93 : 4.24	3.97 : 3.90	3.69 : 3.87
TCSPF : HSPF -			Cold Climate	4.03 : 3.72	4.03 : 3.72	4.05 : 3.45	3.79 : 3.38
TOOFT . HOFT			Hot Climate	4.73 : 4.99	4.73 : 4.99	4.65 : 4.44	4.27 : 4.68
	Commercial		Average Climate	4.76 : 4.58	4.76 : 4.58	4.71 : 4.14	4.31 : 4.29
			Cold Climate	5.12 : 4.10	5.12 : 4.10	5.01 : 3.74	4.57 : 3.78
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 (rated)		Cooling: Heating	V	3.30 : 3.30 3.20 : 3.20	3.30 : 3.30 3.20 : 3.20	3.40 : 3.40 3.30 : 3.30	4.20 : 4.20 4.10 : 4.10
	l × W × D	Indoor	mm	486 x 1456 x 916	486 x 1456 x 916	486 x 1456 x 916	486 x 1.456 x 916
Net Weight	IAWAD	Indoor	kg	82	82	83	87
Air volume (H/M/L)		Cooling : Heating	L/s	1,202 / 1,052 / 885 : 1,202 / 1,052 / 885	1,202 / 1,052 / 885 : 1,202 / 1,052 / 885	1,202 / 1,052 / 885 : 1,202 / 1,052 / 885	1,402 / 1,202 / 985 : 1,402 / 1,202 / 985
External static pressure			Pa	60 (100 / 150)	60 (100 / 150)	75 (120 / 180)	75 (130 / 200)
Sound Pressure Level (H	/M/L)	Cooling : Heating	dB(A)	46 / 44 / 41 : 46 / 44 / 41	46 / 44 / 41 : 46 / 44 / 41	46 / 44 / 41 : 46 / 44 / 41	47 / 45 / 42 : 47 / 45 / 42
Sound Power Level (H/M		Cooling : Heating	dB	78 / 76 / 73 : 78 / 76 / 73	78 / 76 / 73 : 78 / 76 / 73	78/76/73:78/76/73	79 / 77 / 74 : 79 / 77 / 74
Number of fan speeds				3	3	3	3
Drain piping			mm	VP-25	VP-25	VP-25	VP-25
Outdoor							
Power source			Phase/Hz V	1 Phase / 50Hz 230V 240V	3 Phase / 50Hz 400V 415V	3 Phase / 50Hz 400V 415V	3 Phase / 50Hz 400V 415V
Current (rated)		Cooling : Heating	A	23.3 : 21.9 22.3 : 21.0	8.00 : 7.50 7.70 : 7.25	8.45 : 8.60 8.15 : 8.30	9.95 : 9.75 9.60 : 9.40
Dimension		$H \times W \times D$	mm	1.500 x 980 x 370	1.500 x 980 x 370	1,500 x 980 x 370	1,500 x 980 x 370
Net weight			kg	117	115	127	127
Air volume		Cooling : Heating	L/s	2,738 : 2,738	2,738 : 2,738	2,672 : 2,672	2,672 : 2,672
Sound Pressure Level (Sil	ent mode)	Cooling : Heating	dB(A)	58 : 60	58 : 60	58 : 62	58 : 62
Sound Power Level (Siler	nt mode)	Cooling : Heating	dB	76 : <mark>78</mark>	76 : 78	77 : 81	77 : 81
Piping Connection		Liquid / Gas	mm	Ø9.52 / Ø19.05	Ø9.52 / Ø19.05	Ø12.7 / Ø19.05	Ø12.7 / Ø19.05
Pipe Length range		min max.	m	5 - 100	5 - 100	5 - 100	5 - 100
Elevation Difference (OU	located lower	, OU located higher)	m	30, 30	30, 30	30, 30	30, 30
Maximum Chargeless len	ngth		m	30	30	30	30
Refrigerant at shipping / /	Additional gas	s amount	g	R32 3,400 / 76.0 (g/m)	R32 3,400 / 76.0 (g/m)	R32 5,200 / 108.0 (g/m)	R32 5,200 / 80 (g/m)
Operation Ranges		Cooling : Heating	°C	-15 to 46 : -20 to 24	-15 to 52 : -20 to 24	-15 to 52 : -20 to 24	-15 to 46 : -20 to 24

- In case of harde 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) 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

¹¹ For U-160PZH3R8 ¹² For U-180PZH3R8

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.

















Technical focus

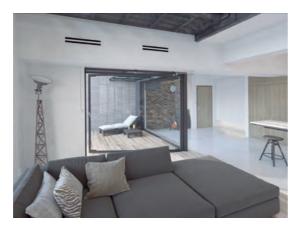
- Space saving 250mm height
- DC fan motor for variable external static pressure control
- Easy to install and maintain

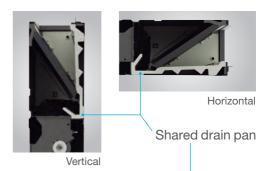
- Accurate temperature control to reduce cold drafts during operation
- Configurable air temperature control

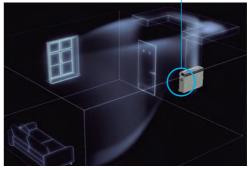
Powerful 150Pa ESP in an industry-leading vertical installation

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.







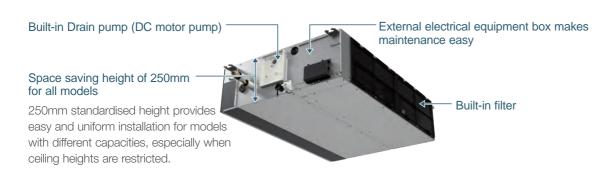
Drain pan is shared in both cases horizontal and vertical

Selectable air inlet position

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







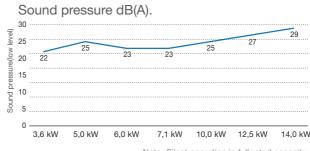
Top-class noise level performance

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 quest rooms.

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







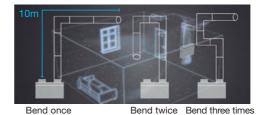
Note: Silent operation in full rated capacity.

Superior air quality



The new ducted models are equipped with nanoeTM 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 nanoeTM 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 $^{\text{TM}}$ X is maintained.

Indoor Unit: High Static Pressure Adaptive Ducted

Specifications of R32 Deluxe Model R32

Capacity				6.8kW	9.5kW		12.1kW
		Indoor Unit		S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
Model Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5
			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)
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)
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)
			BTU/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)
EER : COP			W/W	3.74 : 4.03	4.17:3.97	4.17:3.97	3.58 : 3.46
COP@H2 condition	1		W/W	2.96	2.90	2.90	2.60
Total power input		Cooling : Heating	kW	1.82 : 1.86	2.28 : 2.72	2.28 : 2.72	3.38 : 3.90
		Hot Climate		5.40 : 5.49	5.93 : 5.57	5.93 : 5.57	5.37 : 5.32
	Residential	Average Climate		4.75 : 4.6 7	5.21 : 4.70	5.21 : 4.70	4.86:4.32
TCSPF : HSPF		Cold Climate		4.82 : 4.13	5.29 : 4.21	5.29 : 4.21	5.03:3.79
TUSPF : HSPF		Hot Climate		6.02 : 5.54	6.59 : 5.61	6.59 : 5.61	5.95 : 5.44
	Commercial	Average Climate		6.25 : 5.08	6.75 : 5.13	6.75 : 5.13	6.30 : 4.87
		Cold Climate		6.76 : 4.56	7.28 : 4.65	7.28 : 4.65	6.88 : 4.31
Indoor Unit							
Power source			Phase/Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V
Dimension	HxWxD	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
Net weight		Indoor	kg	30	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 : 567 / 484 / 384
External static press	sure		Pa	30 (10 - 150)	40 (10 - 150)	40 (10 - 150)	50 (10 - 150)
Sound pressure leve	rel (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
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
Number of fan spee	eds			5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20
Outdoor Unit							
Davier course			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz
Power source			V	230V 240V	230V 240V	400V 415V	230V 240V
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
Dimensions		$H \times W \times D$	mm	996 x 940 x 340	1,416 × 940 × 340	1,416 × 940 × 340	1,416 × 940 × 340
Net weight			kg	66	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
Sound pressure leve	rel (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)
Sound power level	(Silent mode)	Cooling : Heating	dB	64 (62) : 66 (64)	68 (66) : <mark>68 (66)</mark>	68 (66) : 68 (66)	69 (67) : 69 (67)
Piping connections		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 - 50	5 - 85	5 - 85	5 - 85
Elevation difference	(OU located low	er, OU located higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum chargeles	ss length		m	30	30	30	30
Refrigerant at shipp	oing / Additional g	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)
Operation ranges		Cooling : Heating	°C	-15 to 48 : -20 to 24			

Specifications of R32 Compact Model R32

Capacity				3.4kW	4.6kW	5.7kW	6.8kW
		Indoor Unit		S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E
Model Name		Outdoor Unit		U-36PZ3R5	U-50PZ3R5	U-60PZ3R5	U-71PZ3R5
			1.3.87	3.4 (1.3 - 4.0)	4.6 (1.5 - 5.3)	5.7 (2.0 - 6.3)	6.8 (2.6 - 7.7)
Cooling capacity:			kW	3.6 (1.3 - 4.6)	5.0 (1.5 - 5.9)	5.7 (1.8 - 7.0)	6.8 (2.1 - 8.1)
Heating capacity			DTI I/I-	11,600 (4,400 - 13,600)	15,700 (5,100 - 18,100)	19,400 (6,800 - 21,500)	23,200 (8,900 - 26,300)
			BTU/h	12,300 (4,400 - 15,700)	17,100 (5,100 - 20,100)	19,400 (6,100 - 23,900)	23,200 (7,200 - 27,600)
EER : COP			W/W	3.78: 4.29	3.19:3.62	3.54 : 4.04	3.18:4.00
COP@H2 condition	ı		W/W	3.09	3.33	3.09	2.84
Total power input		Cooling : Heating	kW	0.900 : 0.840	1.44 : 1.38	1.61 : 1.41	2.14:1.70
		Hot Climate		5.11:5.05	4.67 : 5.09	5.19 : 5.76	4.57 : 5.26
	Residential	Average Climate		4.36 : 4.57	4.23 : 4.31	4.67:4.83	4.23 : 4.42
TOODE HODE		Cold Climate		4.36 : 4.06	4.29:3.79	4.82 : 4.13	4.34:3.82
TCSPF: HSPF		Hot Climate		5.77 : 5.01	5.22 : 5.13	5.69 : 5.77	5.01 : 5.33
	Commercial	Average Climate		5.84:4.72	5.96 : 4.69	6.00 : 5.23	5.53 : 4.86
		Cold Climate		6.41 : 4.31	6.69 : 4.19	6.54 : 4.60	6.11 : 4.27
Indoor Unit							
D			Phase/Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V
Dimensions	$H \times W \times D$	Indoor	mm	250 x 800 x 730	250 x 800 x 730	250 x 1,000 x 730	250 x 1,000 x 730
Net weight		Indoor	kg	25	25	30	30
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
External static pres	sure		Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)
Sound pressure lev	el (H/M/L)	Cooling : Heating	dB(A)	30 / 27 / 22 : 30 / 27 / 22	34 / 30 / 25 : 34 / 30 / 25	30 / 26 / 23 : 30 / 26 / 23	30 / 26 / 23 : 30 / 26 / 23
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
Number of fan spee	eds			5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20
Outdoor Unit							
Power source			Phase/Hz	1 Phase / 50Hz			
Power source			V	230V 240V	230V 240V	230V 240V	230V 240V
Current (rated)		Cooling: Heating	А	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
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
Net weight			kg	31	35	43	50
Air volume		Cooling : Heating	L/s	561 : 56 7	546 : 532	701 : 701	746 : 766
Sound pressure lev	el (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 49 (47)	48 (46) : 49 (47)	48 (46) : 49 (47)	49 (47) : 49 (47)
Sound power level	(Silent mode)	Cooling : Heating	dB	66 (64) : 67 (65)	66 (64) : 67 (65)	66 (64) : 67 (65)	67 (65) : 67 (65)
Piping connections		Liquid / Gas	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7*1	Ø6.35 / Ø15.88*2
Pipe length range		min max.	m	3 - 20	3 - 30	3 - 40	3 - 40
Elevation difference	(OU located low	er, OU located higher)	m	15, 15	15, 15	15, 30	15, 30
Maximum chargeles	ss length		m	7.5	10	30	30
Refrigerant at shipp	ing, Additional ga	as amount	g	R32 870 / 10 (g/m)	R32 1,140 / 15 (g/m)	R32 1,130 / 15 (g/m)	R32 1,320 / 17 (g/m)
Operating range		Cooling : Heating	°C	-10 to 46 : -15 to 24			

	13.4kW				
S-1014PF3E	S-1014PF3E	S-1014PF3E			
U-125PZH3R8	U-140PZH3R5	U-140PZH3R8			
12.1 (3.2 - 13.6)	13.4 (3.3 - 15.3)	13.4 (3.3 - 15.3)			
13.5 (3.2 - 15.4)	15.5 (3.3 - 17.4)	15.5 (3.3 - 17.4)			
41,300 (10,900 - 46,400)	45,700 (11,300 - 52,200)	45,700 (11,300 - 52,200)			
46,100 (10,900 - 52,500)	52,900 (11,300 - 59,400)	52,900 (11,300 - 59,400)			
3.58 : 3.46	3.38 : 3.44	3.38 : 3.44			
2.60	2.68	2.68			
3.38: 3.90	3.96 : 4.51	3.96 : 4.51			
5.37 : 5.32	4.98 : 4.97	4.98 : 4.97			
4.86 : 4.32	4.55 : 4.15	4.55 : 4.15			
5.03:3.79	4.72 : 3.65	4.72 : 3.65			
5.95 : 5.44	5.49 : 5.05	5.49 : 5.05			
6.30 : 4.87	5.74 : 4.58	5.74 : 4.58			
6.88 : 4.31	6.25 : 4.08	6.25 : 4.08			
1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz			
230V 240V	230V 240V	230V 240V			
250 X 1,400 X 730	250 X 1,400 X 730	250 X 1,400 X 730			
39	39	39			
567 / 484 / 384 : 567 / 484 / 384	601 / 534 / 417 : 601 / 534 / 417	601 / 534 / 417 : 601 / 534 / 417			
50 (10 - 150)	50 (10 - 150)	50 (10 - 150)			
35 / 31 / 27 : 35 / 31 / 27	39 / 35 / 29 : 39 / 35 / 29	39 / 35 / 29 : 39 / 35 / 29			
58 / 54 / 50 : 58 / 54 / 50	62 / 58 / 52 : 62 / 58 / 52	62 / 58 / 52 : 62 / 58 / 52			
5	5	5			
VP-20	VP-20	VP-20			
3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz			
400V 415V	230V 240V	400V 415V			
5.30 : 6.10 5.15 : 5.90	18.7 : 21.1 17.9 : 20.2	6.30 : 7.15 6.05 : 6.90			
1,416 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340			
99	99	99			
2,087 : 1,870	2,154 : 1,93 7	2,154 : 1,937			
53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)			
69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)			
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88			
5 - 85	5 - 85	5 - 85			
15, 30	15, 30	15, 30			
30	30	30			
R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)			
-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)
- rear side air intake)
 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
- TCSFF, HSFF 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.
- *i For piping 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.

	9.5kW		12.1kW		13.4kW	
	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
	U-100PZ3R5	U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
	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)
	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)
	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)
	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)
	3.57:4.09	3.57:4.09	3.40 : 3.56	3.40 : 3.56	3.16: 3.76	3.16 : 3.76
	2.88	2.88	2.82	2.82	2.73	2.73
	2.66 : 2.32	2.66 : 2.32	3.56 : 3.40	3.56: 3.40	4.24 : 3.56	4.24 : 3.56
	5.24 : 5.04	5.24 : 5.04	4.90 : 5.01	4.90 : 5.01	4.75 : 4.93	4.75 : 4.93
	4.52 : 4.52	4.52 : 4.52	4.42 : 4.21	4.42 : 4.21	4.33 : 4.18	4.33 : 4.18
	4.62 : 4.06	4.62 : 4.06	4.52 : 3.68	4.52 : 3.68	4.47:3.63	4.47:3.63
	5.87 : 4.99	5.87:4.99	5.40 : 5.06	5.40 : 5.06	5.26 : 5.01	5.26 : 5.01
	5.91 : 4.68	5.91 : 4.68	5.81 : 4.60	5.81 : 4.60	5.78 : 4.59	5.78 : 4.59
	6.49 : 4.31	6.49 : 4.31	6.36 : 4.10	6.36 : 4.10	6.40 : 4.05	6.40 : 4.05
	1 Phase / 50Hz	1 Phase / 50Hz				
	230V 240V	230V 240V				
	250 x 1,400 x 730	250 x 1,400 x 730				
	39	39	39	39	39	39
	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 /
	40 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)	50 (10 - 150)
	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 / 2
	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 / 5
	5	5	5	5	5	5
	VP-20	VP-20	VP-20	VP-20	VP-20	VP-20
	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
	230V 240V	400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
_	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
_	996 x 980 x 370	996 x 980 x 370				
	83	83	87	87	87	87
	1.219 : 1.219	1,219 : 1,219	1.369 : 1.336	1.369 : 1.336	1.402 : 1.369	1.402 : 1.369
	52 (50) : 52 (50)	52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
	70 (68) : 70 (68)	70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88				
_	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
	15. 30	15. 30	15. 30	15. 30	15. 30	15. 30
	30	30	30	30	30	30
	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)			
	-10 to 46 : -15 to 24	-10 to 46 : -15 to 24				

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.





Operation









Function

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.

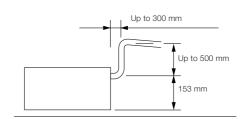
Ultra-slim profile for all models

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 : 3.63	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 - 2.6	
Indoor Unit							
D		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 : 175	187 : 187	255 : 255	262 : 262	
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 / 48	
Outdoor 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	
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 : -15 ~ +24	-10 ~ +46 : -15 ~ +24	

Notes:

- 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+.

^{*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

4-WAY Cassette

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















Control)





Technical focus

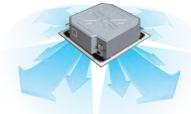
- Compact design
- Low sound levels
- DC fan motor for increased efficiency
- Powerful drain pump gives 850 mm lift
- Lightweight design
- Fresh air knockout
- Branch duct connection
- Optional air-intake plenum CZ-FDU3

360° Wide & Comfortable Airflow

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

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

Comfort/Quiet



Temperature distribution by thermograph (cooling operation)

Simulation conditions:

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

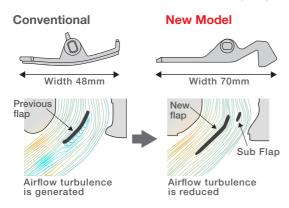
360° Wide 1m

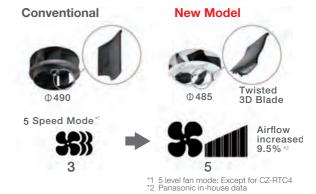
Wide Flap

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

3D Turbo Fan

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

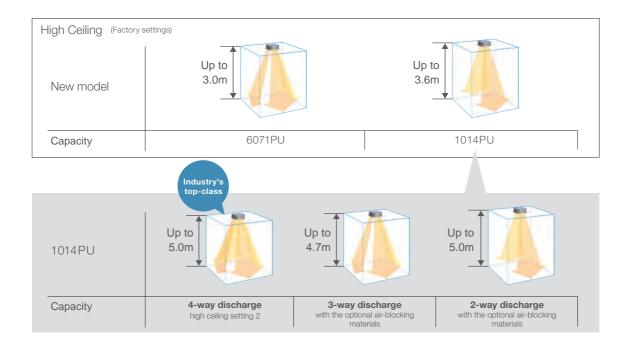






High-Ceiling Installation (Up to 5 m for 10.0kW+ models)

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

^{*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

COP@H2 condition	Capacity			7.1kW	10.0kW	
Standard type: CZ-KPU3H ECONMU type: CZ-KPU3A EC		Indoor Unit		S-6071PU3E	S-1014PU3E	S-1014PU3E
Panel Standard type: CZ-KPU3H ECONAM type: CZ-KP	Madal Nama	Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8
Cooling capacity Realing cap	woder Name	Panel				
Heating capacity BTU/h 24,200 (7,500 - 30,700) 34,100 (10,600 - 42,700) 38,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 39,200 (10,600 - 47,800) 30,200 (10,600 - 47,800) 30,200 (10,600 - 47,800) 30,200 (10,600 - 47,800) 30,200 (10,600 - 47,800) 30,200 (10,600 - 47,800) 30,200 (10,600 - 47,	Cooling capacity		kW		(-	
COP#0H2 condition			BTU/h			
Total power input	EER : COP		W/W	4.06 : 4.30	4.41 : 5.00	4.41 : 5.00
Hot Climate	COP@H2 condition		W/W	2.60	2.90	2.90
Residential	Total power input	Cooling : Heating	kW	1.75 : 1.86	2.27 : 2.24	2.27 : 2.24
Cold Climate		Hot Climate		5.86 : 5.68	6.24 : 5.68	6.24 : 5.68
Hot Climate	Residential	Average Climate		5.10 : 4.77	5.53 : 5.15	5.53 : 5.15
Hot Climate	TOORS HORE	Cold Climate		5.16 : 4.11	5.64 : 4.63	5.64 : 4.63
Average Climate	TCSPF: HSPF	Hot Climate		6.58 : 5.81	6.96 : 5.66	
Phase/Hz	Commercial	Average Climate			7.09 : 5.35	
Phase/Hz				7.41 : 4.63		
Power source V 230V 240V 25 / 5	Indoor Unit					
Dimensions H × W × D Indoor mm 256 x 840 x 840 319 x 840 x 840 80 x 840 x 840 x 840 80 x 840 x 840 x 840 x 840 80 x 840 x 840 x 840 80 x 840 x 8	5		Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
Dimensions	Power source		V	230V 240V	230V 240V	230V 240V
Dimensions		Indoor	mm			
Net weight	Dimensions H × W × D					33.5 x 950 x 950
Air volume (H/M/L)	Net weight	Indoor / Panel	kg	20 / 5	25 / 5	25 / 5
Sound power level (H/M/L)	Air volume (H/M/L)	Cooling: Heating		367 / 267 / 217 : 367 / 267 / 217	601 / 434 / 300 : 601 / 434 / 300	601 / 434 / 300 : 601 / 434 / 300
Sound power level (H/M/L)	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
Number of fan speeds 5 5 5 5 Drain pipe size mm VP-25 VP-25 VP-25 Outdoor Unit	Sound power level (H/M/L)		dB	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47	60 / 53 / 47 : 60 / 53 / 47
Drain pipe size	Number of fan speeds					
Phase/Hz			mm	VP-25	VP-25	VP-25
V 230V 240V 230V 240V 240V 400V 415V	Outdoor Unit					
V 230V 240V 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 Dimension H x W x D mm 996 x 940 x 340 1,416 x 940 x 340 1,416 x 940 x 340 Net weight kg 66 99 99 Air volume Cooling : Heating m³/min 1,018 : 1,002 1,970 : 1,803 1,970 : 1,803 Sound pressure level (Silent mode) Cooling : Heating dB(A) 48 (46) : 50 (48) 52 (50) : 52 (50) 52 (50) : 52 (50) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) : 68 (66) 68 (66) : 68 (66) 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 Elevation difference (OU located lower, OU located higher)	-		Phase/Hz	1 Phase / 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
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 Dimension H x W x D mm 996 x 940 x 340 1,416 x 940 x 340 1,416 x 940 x 340 Net weight kg 66 99 99 Air volume Cooling : Heating m³/min 1,018 : 1,002 1,970 : 1,803 1,970 : 1,803 Sound pressure level (Silent mode) Cooling : Heating dB(A) 48 (46) : 50 (48) 52 (50) : 52 (50) 52 (50) : 52 (50) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64	Power source		V	230V 240V	230V 240V	400V 415V
Net weight kg 66 99 99 Air volume Cooling: Heating m³/min 1,018:1,002 1,970:1,803 1,970:1,803 Sound pressure level (Silent mode) Cooling: Heating dB(A) 48 (46):50 (48) 52 (50):52 (50) 52 (50):52 (50) Sound power level (Silent mode) Cooling: Heating dB 64 (62):66 (64) 68 (66):68 (66) 68 (66):68 (66) 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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)	Current (rated)	Cooling : Heating	А	8.25 : 8.70 7.95 : 8.35	10.7 : 10.6 10.3 : 10.1	3.60 : 3.55 3.45 : 3.40
Net weight kg 66 99 99 Air volume Cooling: Heating m³/min 1,018:1,002 1,970:1,803 1,970:1,803 Sound pressure level (Silent mode) Cooling: Heating dB(A) 48 (46):50 (48) 52 (50):52 (50) 52 (50):52 (50) Sound power level (Silent mode) Cooling: Heating dB 64 (62):66 (64) 68 (66):68 (66) 68 (66) 68 (66) 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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)	Dimension H × W × D		mm	996 x 940 x 340	1.416 x 940 x 340	1.416 x 940 x 340
Air volume Cooling : Heating m³/min 1,018 : 1,002 1,970 : 1,803 1,970 : 1,803 Sound pressure level (Silent mode) Cooling : Heating dB(A) 48 (46) : 50 (48) 52 (50) : 52 (50) 52 (50) : 52 (50) Sound power level (Silent mode) Cooling : Heating dB 64 (62) : 66 (64) 68 (66) : 68 (66) 68 (66) : 68 (66) 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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)	Net weight		ka	66		
Sound pressure level (Silent mode) Cooling: Heating dB(A) 48 (46): 50 (48) 52 (50): 52 (50) 52 (50): 52 (50) Sound power level (Silent mode) Cooling: Heating dB 64 (62): 66 (64) 68 (66): 68 (66) 68 (66): 68 (66) 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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)		Cooling: Heating		1.018 : 1.002	1.970 : 1.803	1.970 : 1.803
Sound power level (Silent mode) Cooling: Heating dB 64 (62): 66 (64) 68 (66): 68 (66) 68 (66): 68 (66) 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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)						
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 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)						
Pipe length range min max. m 5 - 50 5 - 85 5 - 85 Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)			mm			
Elevation difference (OU located lower, OU located higher) m 15, 30 15, 30 15, 30 Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)						
Maximum chargeless length m 30 30 30 Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)						
Refrigerant at shipping, Additional gas amount g R32 1,950 / 45 (g/m) R32 3,050 / 45 (g/m) R32 3,050 / 45 (g/m)		, oo loodtod riigiloi)				
		amount				
Operating range Country . Treating 0 110 to 40 - 720 to 24 110 to 40 - 720 to 24					- 10 /	
	Operating range	Cooming . Heating		-10 10 4020 10 24	-10 to 4020 to 24	-10 10 4020 10 24

Specifications of R32 Compact Model R32

Capacity				6.0kW	7.1kW	10.0kW
Model Name		Indoor Unit		S-6071PU3E	S-6071PU3E	S-1014PU3E
		Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5
		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
			kW	6.0 (2.0- 7.1)	7.1 (2.6 - 7.7)	10.0 (3.0 - 11.5)
Cooling capacity			KVV	6.0 (1.8 - 7.0)	7.1 (2.1 - 8.1)	10.0 (3.0 - 14.0)
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)
EER : COP			W/W	3.82 : 4.48	3.40 : 4.23	3.82 : 4.93
COP@H2 condition	n		W/W	3.19	3.30	3.27
Total power input		Cooling : Heating	kW	1.57 : 1.34	2.09 : 1.68	2.62 : 2.03
		Hot Climate		5.65 : 6.69	5.12 : 5.75	5.78 : 5.43
	Residential	Average Climate		5.04 : 5.44	4.64: 4.85	5.00 : 5.06
TCSPF : HSPF		Cold Climate		5.23 : 4.45	4.83 : 4.14	5.10 : 4.62
ICSPF: HSPF		Hot Climate		6.17 : 6.71	5.73 : 5.78	6.60 : 5.34
	Commercial	Average Climate		6.29 : 5.97	6.05 : 5.26	7.05 : 5.11
		Cold Climate		6.75 : 5.06	6.79 : 4.61	7.94 : 4.78
Indoor Unit						
Power source		Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	
		V	230V 240V	230V 240V	230V 240V	
Dimensions	$H \times W \times D$	Indoor	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840
		Panel	mm	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	20 / 5	25 / 5
Air volume (H/M/L)		Cooling : Heating	L/s	350 / 267 / 217 : 350 / 267 / 217		601 / 434 / 300 : 601 / 434 / 300
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
Sound power level		Cooling : Heating	dB	51 / 46 / 43 : 51 / 46 / 43	52 / 46 / 43 : 52 / 46 / 43	60 / 53 / 47 : 60 / 53 / 47
Number of fan spe	eds			5	5	5
Drain pipe size			mm	VP-25	VP-25	VP-25
Outdoor Unit						
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
			V	230V 240V	230V 240V	230V 240V
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
	$H \times W \times D$		mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370
Net weight		0 5 11 5	kg	43	50	83
Air volume	1.63	Cooling : Heating	m³/min	701 : 701	746 : 766	1,219 : 1,219
Sound pressure lev		Cooling : Heating	dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)
Sound power level (Silent mode) Cooling: Heating		dB	66 (64) : 67 (65) Ø6.35 / Ø12.7*1	67 (65) : 67 (65) Ø6.35 / Ø15.88* ²	70 (68) : 70 (68) Ø9.52 / Ø15.88	
Piping connections Pipe length range		Liquid / Gas	mm	3 - 40	3 - 40	5 - 50
	e (OU located lower,	min max.	m	15, 30	15, 30	15, 30
		OU located higher)	m	30	30	30
Maximum chargeless length		amount	m q	R32 1,130 / 15 (g/m)	R32 1,320 / 17 (g/m)	R32 2,400 / 45 (g/m)
	Refrigerant at shipping, Additional gas amount Operation ranges Cooling: Heating					

	12.5kW		14.0kW	
_	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
	U-125PZH3R5	U-125PZH3R8	U-140PZH3R5	U-140PZH3R8
	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H
	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A
	12.5 (3.2 - 14.0)	12.5 (3.2 - 14.0)	14.0 (3.3 - 16.0)	14.0 (3.3 - 16.0)
	14.0 (3.2 - 16.0)	14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)
	42,700 (10,900 - 47,800)	42,700 (10,900 - 47,800)	47,800 (11,300 - 54,600)	47,800 (11,300 - 54,600)
	47,800 (10,900 - 54,600)	47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)
	3.80 : 4.61	3.80 : 4.61	3.41 : 4.30	3.41 : 4.30
	2.70	2.70	2.50	2.50
	3.29 : 3.04	3.29 : 3.04	4.11 : 3.72	4.11 : 3.72
	5.71 : 5.63	5.71 : 5.63	5.35 : 5.60	5.35 : 5.60
	5.20 : 4.88	5.20 : 4.88	4.93 : 4.71	4.93 : 4.71
	5.39 : 4.28	5.39 : 4.28	5.17 : 4.01	5.17 : 4.01
	6.36 : 5.74	6.36 : 5.74	5.96 : 5.76	5.96 : 5.76
	6.72 : 5.32	6.72 : 5.32	6.43 : 5.25	6.43 : 5.25
	7.37 : 4.72	7.37 : 4.72	7.10 : 4.53	7.10 : 4.53
	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz	1 Phase/ 50Hz
	230V 240V	230V 240V	230V 240V	230V 240V
	319 x 840 x 840			
	33.5 x 950 x 950			
	25 / 5	25 / 5	25 / 5	25 / 5
	617 / 450 / 317 : 617 / 450 / 317	617 / 450 / 317 : 617 / 450 / 317	634 / 484 / 334 : 634 / 484 / 334	634 / 484 / 334 : 634 / 484 / 334
	46 / 39 / 33 : 46 / 39 / 33	46 / 39 / 33 : 46 / 39 / 33	47 / 40 / 34 : 47 / 40 / 34	47 / 40 / 34 : 47 / 40 / 34
	61 / 54 / 48 : 61 / 54 / 48	61 / 54 / 48 : 61 / 54 / 48	62 / 55 / 49 : 62 / 55 / 49	62 / 55 / 49 : 62 / 55 / 49
	5	5	5	5
	VP-25	VP-25	VP-25	VP-25
	1 Phase/ 50Hz	3 Phase/ 50Hz	1 Phase/ 50Hz	3 Phase/ 50Hz
	230V 240V	400V 415V	230V 240V	400V 415V
	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
	1,416 x 940 x 340	1,416 x 940 x 340	1,416 x 940 x 340	1,416 × 940 × 340
	99	99	99	99
	2,087 : 1,870	2,087 : 1,870	2,154 : 1,937	2,154 : 1,937
	53 (51) : 53 (51)	53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)
	69 (67) : 69 (67)	69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : <mark>70 (68)</mark>
	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
	5 - 85	5 - 85	5 - 85	5 - 85
	15, 30	15, 30	15, 30	15, 30
	30	30	30	30
	R32 3,050 / 45 (g/m)			
	-15 to 48 : -20 to 24			

- Notes:

 In the case of nance 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)
- ALEH 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 an anechoic chamber and may differ once the unit is installed due to ambient conditions

 H-Hin at eatting 5 store (Level 5). M-Middle at
- H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)
- *1 For piping 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.

	12.5kW		14.0kW	
S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
U-100PZ3R8	U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8
Standard type:CZ-KPU3H	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H	Standard type:CZ-KPU3H
ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A	ECONAVI type:CZ-KPU3A
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)
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)
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)
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)
3.82:4.93	3.58 : 4.43	3.58 : 4.43	3.23 : 4.18	3.23 : 4.18
3.27	2.88	2.88	2.70	2.70
2.62 : 2.03	3.49 : 2.82	3.49 : 2.82	4.34 : 3.35	4.34 : 3.35
5.78 : 5.43	5.27 : 5.56	5.27 : 5.56	4.94 : 5.52	4.94:5.52
5.00 : 5.06	4.73 : 4.87	4.73 : 4.87	4.54 : 4.72	4.54 : 4.72
5.10: 4.62	4.85 : 4.17	4.85 : 4.17	4.69:3.97	4.69 : 3.97
6.60 : 5.34	5.84 : 5.51	5.84 : 5.51	5.46 : 5.51	5.46 : 5.51
7.05 : 5.11	6.29 : 5.11	6.29 : 5.11	6.19 : 5.03	6.19 : 5.03
7.94 : 4.78	6.95 : 4.53	6.95 : 4.53	6.89 : 4.40	6.89 : 4.40
1 Phase / 50Hz	1 Phase / 50Hz			
230V 240V	230V 240V	230V 240V	230V 240V	230V 240V
319 x 840 x 840	319 x 840 x 840			
33.5 x 950 x 950	33.5 x 950 x 950			
25 / 5	25 / 5	25 / 5	25 / 5	25 / 5
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 / 3
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
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
5	5	5	5	5
VP-25	VP-25	VP-25	VP-25	VP-25
3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
400V 415V	230V 240V	400V 415V	230V 240V	400V 415V
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
996 x 980 x 370	996 x 980 x 370			
83	87	87	87	87
1,219 : 1,219	1,369 : 1,336	1,369 : 1,336	1,402 : 1,369	1,402 : 1,369
52 (50) : 52 (50)	55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)
70 (68) : 70 (68)	73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
5 - 50	5 - 50	5 - 50	5 - 50	5 - 50
15, 30	15, 30	15, 30	15, 30	15, 30
30	30	30	30	30
R32 2,400 / 45 (g/m)	R32 2,800 / 45 (g/m)			
-10 to 46 : -15 to 24	-10 to 46 : -15 to 24			

Indoor Unit

ow 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.











Function



Control)





Technical focus

- Market-leading energy efficiency
- Compact design (230mm High)
- Easy installation
- Built-in drain pump
- Mini cassette fits into a 600 x 600mm ceiling grid
- Powerful drain pump gives 850mm 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)



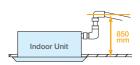
Individual flap control

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



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

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





Specifications

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 : 4.44	4.55 : 4.29	3.50 : 3.94	3.39 : 3.61	
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							
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	Cooling, Heating A	\	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 : 158	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	
Power 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 : -15 - +24	-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 Unit Under Ceiling

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











Automatic Fan Operation

Function

DC Motor

Compact Looking, Stylish, One-motion Design

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

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



Energy-saving Technology Delivering Top-class Efficiency

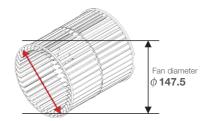
Top Class Energy Saving

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

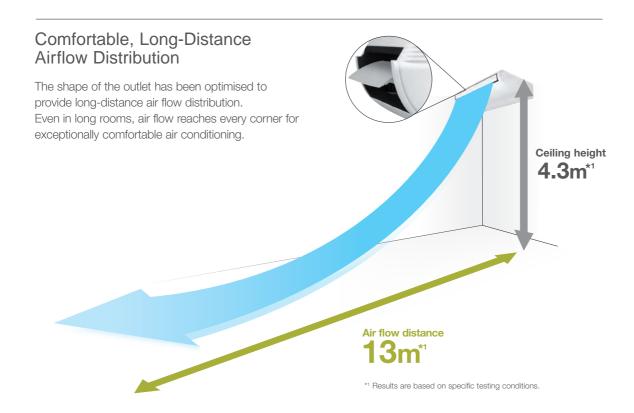
New DC fan motor



Large Diagonal Air Flow Fan







11: 1 0 1: 0 (// *2	Air flow distance				
High Ceiling Setting*2	100	125	140		
4.3m	Up to 12m	Up to 13m	Up to 13m		

 $^{^{\}star 2}$ Dedicated fan speed setting required.



Indoor Unit: Under Ceiling

Specifications of R32 Deluxe Model R32

Capacity				6.8kW	9.5kW		12.1kW
		Indoor Unit		S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Model Name		Outdoor Unit		U-71PZH3R5	U-100PZH3R5	U-100PZH3R8	U-125PZH3R5
			kW	6.8 (2.2 - 9.0)	9.5 (3.1 - 12.5)	9.5 (3.1 - 12.5)	12.1 (3.2 - 14.0)
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)
Heating capacity			BTU/h	23,200 (7,500 - 30,700)	32,400 (10,600 - 42,700)	32,400 (10,600 - 42,700)	41,300 (10,900 - 47,800)
			B1U/n	27,300 (6,800 - 30,700)	38,200 (10,600 - 47,800)	38,200 (10,600 - 47,800)	47,800 (10,900 - 54,600)
EER : COP			W/W	3.91 : 3.96	4.15 : 4.09	4.15 : 4.09	3.51 : 3.78
COP@H2 condition			W/W	2.60	2.72	2.72	2.52
Total power input		Cooling : Heating	kW	1.74:2.02	2.29 : 2.74	2.29 : 2.74	3.45 : 3.70
		Hot Climate		5.96 : 5.61	6.07 : 5.59	6.07 : 5.59	5.42 : 5.37
	Residential	Average Climate		5.13 : 4.63	5.25 : 4.74	5.25 : 4.74	4.85 : 4.44
TCSPF: HSPF		Cold Climate		5.24 : 4.00	5.33 : 4.21	5.33 : 4.21	5.03 : 3.84
TOOFT . HOFT		Hot Climate		6.74 : 5.74	6.84 : 5.66	6.84 : 5.66	6.07 : 5.50
	Commercial	Average Climate		6.92 : 5.18	6.95 : 5.18	6.95 : 5.18	6.41 : 4.97
		Cold Climate		7.55 : 4.53	7.54 : 4.66	7.54 : 4.66	7.03 : 4.35
Indoor Unit							
Power source				1 Phase / 50Hz			
rower source			V	230V 240V	230V 240V	230V 240V	230V 240V
Dimension	HxWxD	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
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
Sound pressure leve	el (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
Sound power level (H		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
Number of fan speed	ds			5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20
Outdoor Unit							
Power source				1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz
			V	230V 240V	230V 240V	400V 415V	230V 240V
Current (rated)		Cooling : Heating	A	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
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
Net weight			kg	66	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
Sound pressure leve		Cooling: Heating	dB(A)	48 (46) : 50 (48)	52 (50) : 52 (50)	52 (50) : 52 (50)	53 (51) : 53 (51)
Sound power level (S	Silent mode)	Cooling: Heating	dB	64 (62) : 66 (64)	68 (66) : <mark>68 (66)</mark>	68 (66) : <mark>68 (66)</mark>	69 (67) : <mark>69 (67)</mark>
Piping connections		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 - 50	5 - 85	5 - 85	5 - 85
		er, OU located higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum chargeles			m	30	30	30	30
Refrigerant at shipping	ng / Additional g		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			

Capacity				6.0kW	6.8kW	10.0kW	
Madal Nama		Indoor Unit		S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E
Model Name		Outdoor Unit		U-60PZ3R5	U-71PZ3R5	U-100PZ3R5	U-100PZ3R8
Cooling capacity:			kW	6.0 (2.0 - 7.1) 6.0 (1.8 - 7.0)	6.8 (2.6 - 7.7) 6.8 (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)
Heating capacity			BTU/h	20,500 (6,800 - 24,200) 20,500 (6,100 - 23,900)	23,200 (8,900 - 26,300) 23,200 (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)
EER : COP			W/W	3.82 : 4.41	3.33 : 4.22	3.64 : 4.24	3.64 : 4.24
COP@H2 conditio	n		W/W	3.19	3.24	2.70	2.70
Total power input		Cooling: Heating	kW	1.57 : 1.36	2.04 : 1.61	2.75 : 2.36	2.75 : 2.36
		Hot Climate		5.18 : 5.97	5.02 : 5.60	5.24 : 5.58	5.24 : 5. 5 8
	Residential	Average Climate		4.54 : 4.88	4.45 : 4.76	4.63 : 4.78	4.63 : 4.78
TCSPF : HSPF		Cold Climate		4.61 : 4.12	4.60 : 4.09	4.70 : 4.15	4.70 : 4.15
ICSPF: HSPF		Hot Climate		5.63:6.03	5.57 : 5.63	5.84 : 5.60	5.84 : 5.60
	Commercial	Average Climate		5.63 : 5.40	5.69 : 5.14	6.12 : 5.14	6.12 : 5.14
		Cold Climate		5.98 : 4.66	6.18 : 4.53	6.63 : 4.57	6.63 : 4.57
Indoor Unit							
D			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
Dimension	HxWxD	Indoor	mm	235 X 1,275 X 690	235 X 1,275 X 690	235 X 1,590 X 690	235 X 1,590 X 690
Net weight		Indoor	kg	34	34	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
Sound pressure le	vel (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
Sound power level	I (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
Number of fan spe	eeds			5	5	5	5
Drain piping			mm	VP-20	VP-20	VP-20	VP-20
Outdoor Unit							
			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source			V	230V 240V	230V 240V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	Α	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
Dimension		$H \times W \times D$	mm	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370
Net weight			kg	43	50	83	83
Air volume		Cooling : Heating	L/s	701 : 701	746 : 766	1,219 : 1,219	1,219 : 1,219
Sound pressure le	vel (Silent mode)	Cooling : Heating	dB(A)	48 (46) : 49 (47)	49 (47) : 49 (47)	52 (50) : 52 (50)	52 (50) : 52 (50)
Sound power level		Cooling : Heating	dB	66 (64) : 67 (65)	67 (65) : 67 (65)	70 (68) : 70 (68)	70 (68) : 70 (68)
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
	e (OU located low	er, OU located higher)		15, 30	15, 30	15, 30	15, 30
Maximum chargele			m	30	30	30	30
Refrigerant at ship		nas amount	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)
Operating range		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

	13.4kW	
S-1014PT3E	S-1014PT3E	S-1014PT3E
U-125PZH3R8	U-140PZH3R5	U-140PZH3R8
12.1 (3.2 - 14.0)	13.4 (3.3 - 16.0)	13.4 (3.3 - 16.0)
14.0 (3.2 - 16.0)	16.0 (3.3 - 18.0)	16.0 (3.3 - 18.0)
41,300 (10,900 - 47,800)	45,700 (11,300 - 54,600)	45,700 (11,300 - 54,600)
47,800 (10,900 - 54,600)	54,600 (11,300 - 61,400)	54,600 (11,300 - 61,400)
3.51 : 3.78	3.21 : 3.48	3.21 : 3.48
2.52	2.37	2.37
3.45:3.70	4.17 : 4.60	4.17 : 4 .60
5.42 : 5.37	5.07 : 5.26	5.07 : 5.26
4.85 : 4.44	4.61 : 4.22	4.61 : 4.22
5.03 : 3.84	4.82 : 3.58	4.82 : 3.58
6.07 : 5.50	5.66 : 5.45	5.66 : 5.45
6.41 : 4.97	6.10 : 4.83	6.10 : 4.83
7.03:4.35	6.71 : 4.13	6.71 : 4.13
1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
230V 240V	230V 240V	230V 240V
235 X 1,590 X 690	235 X 1,590 X 690	235 X 1,590 X 690
40	40	40
567 / 467 / 400 : 567 / 467 / 400	584 / 484 / 417 : 584 / 484 / 417	584 / 484 / 417 : 584 / 484 / 417
46 / 40 / 35 : 46 / 40 / 35	47 / 41 / 36 : 47 / 41 / 36	47 / 41 / 36 : 47 / 41 / 36
64 / 58 / 53 : 64 / 58 / 53	65 / 59 / 54 : 65 / 59 / 54	65 / 59 / 54 : 65 / 59 / 54
5	5	5
VP-20	VP-20	VP-20
3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
400V 415V	230V 240V	400V 415V
5.40 : 5.85 5.20 : 5.65	19.5 : 21.5 18.7 : 20.6	6.55 : 7.30 6.30 : 6.95
1,416 × 940 × 340	1,416 x 940 x 340	1,416 × 940 × 340
99	99	99
2,087 : 1,870	2,154 : 1,937	2,154 : 1,937
53 (51) : 53 (51)	54 (52) : 54 (52)	54 (52) : 54 (52)
69 (67) : 69 (67)	70 (68) : 70 (68)	70 (68) : 70 (68)
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88
5 - 85	5 - 85	5 - 85
15, 30	15, 30	15, 30
30	30	30
R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)
-15 to 48 : -20 to 24	-15 to 48 : -20 to 24	-15 to 48 : -20 to 24

12.5KW		13.6kW			
S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E		
U-125PZ3R5	U-125PZ3R8	U-140PZ3R5	U-140PZ3R8		
12.5 (3.2 - 13.5)	12.5 (3.2 - 13.5)	13.6 (3.3 - 15.0)	13.6 (3.3 - 15.0)		
12.5 (3.3 - 15.0)	12.5 (3.3 - 15.0)	14.0 (3.4 - 16.0)	14.0 (3.4 - 16.0)		
42,700 (10,900 - 46,100)	42,700 (10,900 - 46,100)	46,400 (11,300 - 51,200)	46,400 (11,300 - 51,200)		
42,700 (11,300 - 51,200)	42,700 (11,300 - 51,200)	47,800 (11,600 - 54,600)	47,800 (11,600 - 54,600)		
3.32 : 3.89	3.32 : 3.89	3.15 : 3.70	3.15 : 3.70		
2.57	2.57	2.53	2.53		
3.76 : 3.21	3.76 : 3.21	4.32 : 3.78	4.32 : 3.78		
4.98 : 5.36	4.98 : 5.36	4.81 : 5.25	4.81 : 5.25		
4.44 : 4.45	4.44 : 4.45	4.33 : 4.25	4.33 : 4.25		
4.57 : 3.76	4.57:3.76	4.48 : 3.55	4.48 : 3.55		
5.52 : 5.44	5.52 : 5.44	5.35 : 5.39	5.35 : 5.39		
 5.76 : 4.91	5.76 : 4.91	5.67: 4.80	5.67:4.80		
6.25 : 4.25	6.25 : 4.25	6.20 : 4.09	6.20 : 4.09		
1 Phase / 50Hz					
230V 240V	230V 240V	230V 240V	230V 240V		
235 X 1.590 X 690	235 X 1.590 X 690	235 X 1.590 X 690	235 X 1,590 X 690		
40	40	40	40		
567 / 467 / 400 : 567 / 467 / 400	567 / 467 / 400 : 567 / 467 / 400	584 / 484 / 417 : 584 / 484 / 417	584 / 484 / 417 : 584 / 484 / 417		
46 / 40 / 35 : 46 / 40 / 35	46 / 40 / 35 : 46 / 40 / 35	47 / 41 / 36 : 47 / 41 / 36	47 / 41 / 36 : 47 / 41 / 36		
64 / 58 / 53 : 64 / 58 / 53	64 / 58 / 53 : 64 / 58 / 53	65 / 59 / 54 : 65 / 59 / 54	65 / 59 / 54 : 65 / 59 / 54		
5	5	5	5		
VP-20	VP-20	VP-20	VP-20		
1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz		
230V 240V	400V 415V	230V 240V	400V 415V		
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		
996 x 980 x 370					
87	87	87	87		
1,369 : 1,336	1,369 : 1,336	1,402 : 1,369	1,402 : 1,369		
55 (53) : 55 (53)	55 (53) : 55 (53)	56 (54) : 56 (54)	56 (54) : 56 (54)		
73 (71) : 73 (71)	73 (71) : 73 (71)	74 (72) : 74 (72)	74 (72) : 74 (72)		
Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88	Ø9.52 / Ø15.88		
5 - 50	5 - 50	5 - 50	5 - 50		
15, 30	15, 30	15, 30	15, 30		
30	30	30	30		
R32 2,800 / 45 (g/m)					
-10 to 46 : -15 to 24					
1	1	1	1		

- 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.

- indicate the value of average temperature zone.

 *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.

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.

















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.

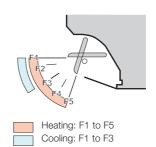
Washable front panel

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 R32



Capacity				9.5kW		9.0kW	
		Indoor Unit		S-100PK3R	S-100PK3R	S-100PK3R	S-100PK3R
Model Name		Outdoor Unit		U-100PZH3R5	U-100PZH3R8	U-100PZ3R5	U-100PZ3R8
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 - 33,100) 30,700 (10,200 - 35,800)
EER : COP			W/W	3.26 : 3.97	3.26 : 3.97	3.47 : 3.93	3.47 : 3.93
COP@H2 conditi	on		W/W	2.50	2.50	2.53	2.53
Total power input	<u>t</u>	Cooling : Heating	kW	2.91 : 2.39	2.91 : 2.39	2.59 : 2.29	2.59 : 2.29
		Hot Climate		5.07 : 5.70	5.07 : 5.70	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
TUSPF : HSPF		Hot Climate		5.68 : 5.77	5.68 : 5.77	5.39 : 5.31	5.39 : 5.31
	Commercial	Average Climate		5.85 : 5.20	5.85 : 5.20	5.42 : 4.87	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			
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 I	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 / 41
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 / 57
Number of fan sp	peeds			5	5	5	5
Drain pipe size			mm	VP-16	VP-16	VP-16	VP-16
Outdoor Unit							
			Phase/Hz	1 Phase / 50Hz	3 Phase / 50Hz	1 Phase / 50Hz	3 Phase / 50Hz
Power source			V	230V 240V	400V 415V	230V 240V	400V 415V
Current (rated)		Cooling : Heating	A	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 : 3.50
Dimensions		H × W × 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 I (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 connection	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 differen (OU located low		higher)	m	15, 30	15, 30	15, 30	15, 30
Maximum charge	eless length		m	30	30	30	30
Refrigerant at shi		nal gas amount	g	R32 3,050 / 45 (g/m)	R32 3,050 / 45 (g/m)	R32 2,400 / 45 (g/m)	R32 2,400 / 45 (g/m)
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 24
Notes:				7 10 10 1 20 10 24	3 15 15 1 20 10 27	7 10 10 1 10 10 24	3 15 15 1 10 10 15 17

- 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.

 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

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.











Function



Control)





- 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 50mm.



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.



^{*1} CS-Z25UFRAW & CS-Z35UFRAW: In the Quiet mode during heating operation with low fan speed.







Note: Product image not to scale.

Specifications of Current Model



Capacity				2.5kW	3.5kW	5.0kW
Madalblass		Indoor Unit		CS-Z25UFRAW	CS-Z35UFRAW	CS-Z50UFRAW
Model Name		Outdoor Unit		CU-Z25UBRA	CU-Z35UBRA	CU-Z50UBRA
Cooling 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)
Heating capacity			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-m	ax)	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 : 4.12	5.46 : 4.49	5.51 : 4.48
	Residential	Average Climate		5.05 : 4.21	5.01 : 4.29	5.20 : 4.18
TOODE LIODE		Cold Climate		4.97 : 3.94	5.07:3.78	5.37 : 3.69
TCSPF: HSPF	Commercial	Hot Climate		6.22 : 3.89	6.01 : 4.18	6.16 : 4.20
		Average Climate		6.40 : 3.85	6.60 : 4.00	7.34 : 3.99
		Cold Climate		6.97 : 3.78	7.31 : 3.80	8.46 : 3.76
Indoor Unit						
Power source			Phase/Hz	1 Phase / 50Hz	1 Phase / 50Hz	1 Phase / 50Hz
1 OWEI SOUICE			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 : 227
Sound pressure leve	el (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
rower 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		HxWxD	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
			m	15	15	20
Elevation difference			111	10	10	1 20

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.



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.







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.

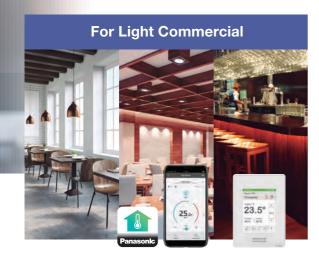


PLUG & PLAY FOR HOME AUTOMATION

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



Note: For further information, please check CLIPSAL® website



Panasonic Comfort Cloud

PAC Smart Connectivity+

Ready

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⁺
 - Ultimate cooling comfort with sensing technology and automatic IAQ control.
 - Simplified Plug & Play installation with BMS connection for better energy consumption.

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.

^{*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 Google Assistant to control your air conditioner, you will need an Google Assistant device. Google is a trademark of Google LLC. Google Home is compatible with the air conditioning systems shown on pages 4 and 5. Google 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.

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



From 1 to 200 Units

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



Easy Scheduling

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



Multiple User

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



Energy Monitor

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



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

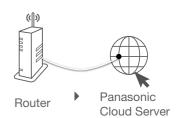
Connection Diagram



Indoor Unit



In conformity with IEEE 802.11



WLAN Smart Adaptor Specification

	CZ-TACG1	CZ-CAPWFC1
Input Voltage	DC 12V (Supplied fr	om 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)
Interface	Wireless LAN	
Wireless LAN Standard	IEEE 802.11 b	/g/n
Frequency range	2.4GHz band	
Encryption	WPA2-PSK(TK	IP/AES)





Comfort Cloud App

Compatible Device and Browsers

- 1. IOS 9.0 or above
- 2. Android 5.0 or above

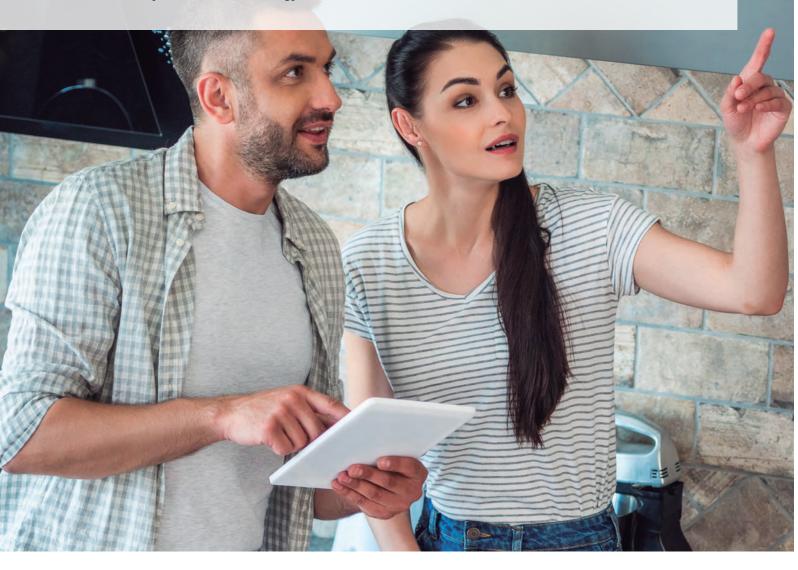
0-55°C, 20 - 80RH%

Operation range

[&]quot;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 Google Assistant to control your air conditioner, you will need an Google Assistant device.
Google is a trademark of Google LLC.
Google Home is compatible with the air conditioning systems shown on pages 4 and 5.
Google functionality is only available with complete air conditioning systems (including Panasonic controllers).
** Function available depending on the model.

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

Schneider Electric

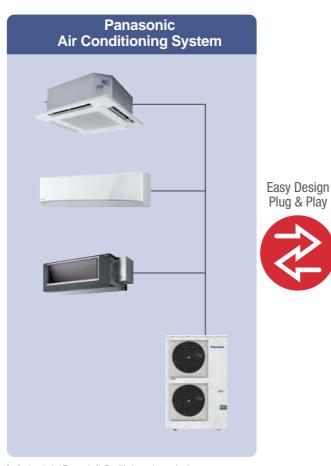
Panasonic partnering with Schneider Electric offering home automation solution with CLIPSAL interfaces and devices.



Note: For further information please check CLIPSAL® website.

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.



Home Automation System

Lighting Audiovisual

Blinds Security

Energy Management

Solar

Ev charging Pool

Applies to selected Panasonic Air Conditioning systems only, please consult with Panasonic for more details.

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 an 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)

•Cooling Capacity 742kW •Indoor units 278 units

•Control System SER8150 x 278units



Note: System combination as of July 2020

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+ 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.

- · 3 Built-in sensors: Temperature, RH and Occupancy
- · ZigBee wireless sensors: CO2/Temperature/ RH%, window/door, ceiling/wall



User-/Owner-friendly.

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



Ultimate Customisation.

- · Background colour customisable
- · Custom display/icons, messages
- · Programmable logic (also standalone)
- · 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)
- \cdot 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 CO₂ & humidity sensors. The interior remains comfortable, while heating and cooling costs are minimized.

The CO₂ 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.

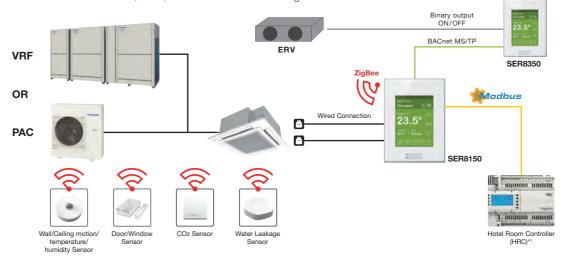
3. Other Equipment Control

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.

Schneider Electric

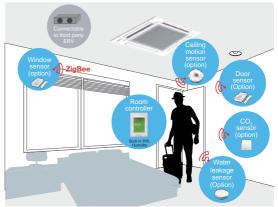
Energy Management System for Rooms

By installing a ceiling motion sensor, wall motion temperature sensor, window/door sensor, and CO2 sensor in the room, ideal, waste-free air conditioning is achieved.



Sensing & 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.







Wall/Ceiling motion/ temperature/humidity Sensor



CO₂ Sensor





SER8350



The Hotel Room Controller controls connected guest room devices and aggregates data, making it visible to guest room and property management systems

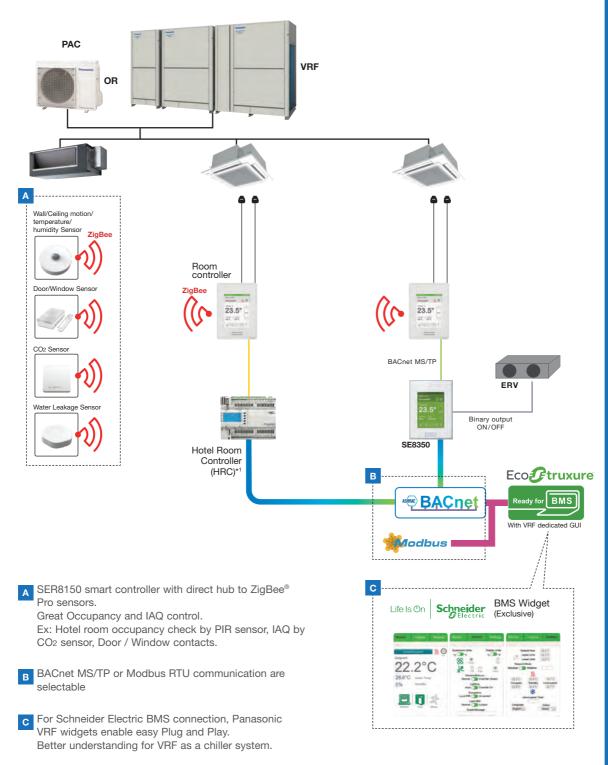
^{*1} Available through a Schneider Electric distribution channel.

Management System for the Entire Building*2

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

Plug and Play BMS connection.

With the SER8150, connection to BMS is extremely easy. Better still, a remote controller is all that's needed to enable use as a stand-alone system. In addition to dramatically reducing the burden on system integrators, this cuts costs.



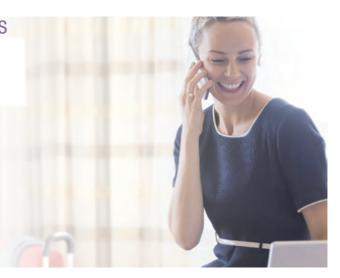
^{*2} Graphic shows combination of products from Panasonic, Schneider Electric and others. Currently, some products might not available in Australia, please consult authorised dealer for more details.

Smart Management Solutions

1 Hotels

Room Key Card or Key Cardless Solutions for Hotels

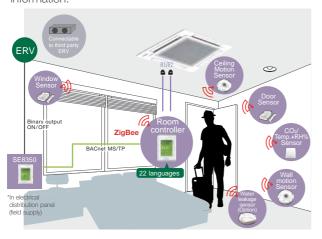
The SER8150 and ZigBee Sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect. 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 control

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



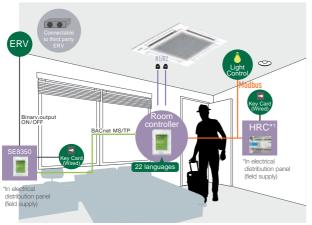
2. BMS connectivity

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



3. Key Cardless control

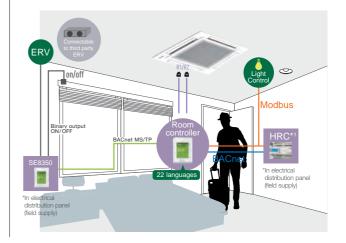
The introduction of SE8350 and HRC enables conventional wired keycards to be connected to the system so that it is possible to meet the specific requirements of various hotel and room types.



*1 Available through a Schneider Electric distribution channel.

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.



Small and Medium Offices



CO₂ sensors (option) and Humidity sensors

CO₂ sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.

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



Flexible and scalable solution

- · Energy saving
- · Zero downtime
- · Site(s) management

Centralise control of your business premises, from wherever you are, 24/7/365. It doesn't matter how many sites you have, or where they are!

The AC Smart Cloud system from Panasonic allows you to have complete control of all your installations, from your tablet or 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.

Flexible solution for your business.



Every time







Multiplatform Internet browser

Scalable solution for your business.









Small to large

1 to multi sites

Upgrade features*

PAC / VRF

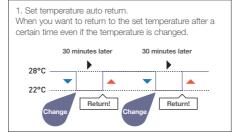
*1 Customised to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management.

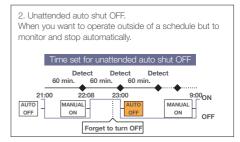
Panasonic AC Smart Cloud offers continuous improvement always thinking about users

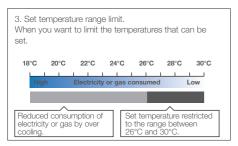
New e-CUT function

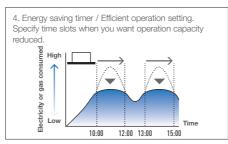
E-CUT functions are newly available in Panasonic AC Smart Cloud

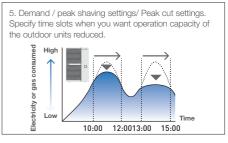
5 energy saving settings reduces automatically its energy consumption.













Key functions and uniqueness

Multi sites 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



User customisation*2

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



Facility manager: A Energy optimisation Schedule management



Multisite monitoring

Maintenance notification



Administrator has a full access



Facility manager: B
Energy optimisation
Schedule
management

Multis
Maint



Energy optimisation
Schedule
management



Multisite monitoring

Maintenance notification

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	V	V	
	Cloud adapter (CZ-CFUSCC1) details	V	V	
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	V		

Function / Main Tab	Sub-1ab	Owners, facility managers)	Installers, maintenance companies)
Maintenance function	Notification overview / details	V	V
	Maintenance settings	V	V
	Map view	V	V
	Remote service checker		V
User account *2	New / update user registration	V	
System setting	Distribution group overview / details	V	
	Cut OFF request	V	
	Map editor		~

^{*2} 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
- \cdot Mode selection: With test run or Without test run
- · Count down schedule setting available



Panasonic AC Smart Cloud parts lists

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

Controllers

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

OPERATION SYSTEM	INDIVIDUAL CONTROL SYSTEMS				
Requirements	Simplified high-spec operation	Zone controller for residential	High-spec operation	Normal operation	Operation from anywhere in the room
External appearance	25.0c	25.oc	19 19 19 19 19 19 19 19	1765 1030°	* () () ()
	Simplified high-spec Wired Remote Controller	Zone controller	Deluxe Wired Remote Controller	Timer Remote Controller (Wired)	Wireless Remote Controller
Type, model name	CZ-RTC6WBL*1 CZ-RTC6BL CZ-RTC6WBLW*1 CZ-RTC6BLW	CZ-RTC6WZ*1 CZ-RTC6Z	CZ-RTC5B	CZ-RTC4	Controller: CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRL3 CZ-RWRD3 CZ-RWRT3 CZ-RWRC3
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
Use limitations	CZ-RTC6WBL**/CZ-RTC6BL: Up to 2 controllers can be connected per group(no combination possible with CZ-RTC6BLW) CZ-RTC6BLW) 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.
Function ON/OFF	•	•	•	•	•
Mode setting	•	•	•	•	•
Fan speed setting	•	•	•	•	•
Temperature setting	•	•	•	•	•
Air flow direction	•		•	•	● *2
Permit/Prohibit switching	_			_	
Weekly program	* 3	Comfort Cloud APP Only.	•	•	

^{*2} Setting is not possible when a remote controller unit is present (use the remote controller for setting).

*3 CZ-RTC6WBL*1 or CZ-RTC6BL with H&C Control App, CZ-RTC6WBLW*1 or CZ-RTC6BLW with H&C Control App or Comfort Cloud App.

Next Generation Control Solutions









WLAN Control

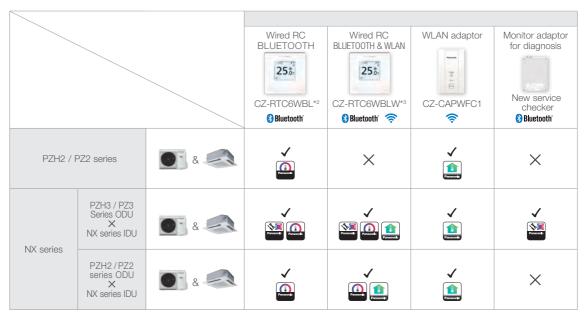
Smart Cloud Control

BMS Plug & Play

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

CENTRALISED CONTROL SYSTEMS			SMART CONTROL SYSTEMS		
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
0 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Seri-Para I/O unit for outdoor unit		23.5°
System Controller	ON/OFF Controller	Intelligent Controller	OZ CARROS	WLAN Smart Adaptor Comfort Cloud App	PAC smart connectivity+
CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)	CZ-CAPDC2 Interface adaptor	CZ-TACG1 / CZ-CAPWFC1	SER8150 (room controller)
_		_	2	_	•
_	_	_	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 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 CZ-CFUNC2	Mobile device, free App and internet router is required separately. 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.
•	•	•	LonWorks Interface	•	•
•	_	•		•	•
•		•	900	•	•
*2		*2	CZ-CLNC2		
•	•	•		_	_
•	_	•		•	_

Note: Product images not to scale.



^{*2} Launched in 4th Quarter in CY23. A black model (CZ-RTC6BL) is also available.

Timer remote controller (CZ-RTC4)



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*7

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.

^{*3} Launched in 4th Quarter in CY23. A black model (CZ-RTC6BLW) is also available

Note: Power supply is available only when using NX IDU

4 New Zone controller (CZ-RTC6WZ) can be connected with 3.6 kW to 22.4 kW Ducted (PE3, PF3 and PE4) Indoors and VRF Ducted (M1, E1, E2, E1R, F2, F3 and Z1) Indoors.

 ^{*5} Launched in 4th Quarter in CY23. A black model (CZ-RTC6Z) is also available.
 *6 Connectable to selected Panasonic ducted models only, please consult Panasonic for more details

^{*7} Depending on the model, some menus cannot be used.

Wireless remote controller







Remote control by main remote controller and sub controller is possible

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

When CZ-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 exhausted.

In addition, there are other functions such as temperature setting, operation switching, wind direction/fan speed setting, etc

Ventilation independent operation is possible

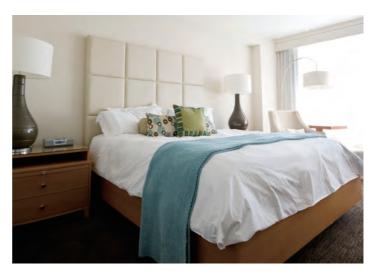
When commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF).

T10 Terminal for External Control (Digital Connection)

Connecting an indoor unit to an external device is easy.

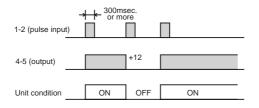
The T10 Terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.





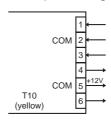
1. T10 Terminal Specification (T10:CN061 at indoor unit PCB)

- 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)
- 2-3 (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

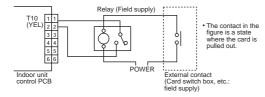
2. Usage Example

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 prohibited.

• Example of wiring



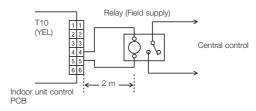
Note: The wire length from indoor unit to the Relay must be within 2.0m

Operation ON/OFF signal output

Condition

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

Example of wiring



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

Panasonic



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.

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- \blacksquare Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of July 2023.
- 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.

Authorised Deater		

OCAU_R32 PAC_CAT_2023_V1

Panasonic Australia Pty. Limited.

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

aircon.panasonic.com.au