

# Panasonic

AIR CONDITIONING  
COOLING | HEATING  
AIR PURIFICATION



Z SERIES PREMIUM  
REVERSE CYCLE INVERTER


QUALITY AIR FOR LIFE


# QUALITY AIR FOR LIFE

We care about the food we eat, and the water that we drink; but what about the air that we breathe?

Indoor Air Quality (IAQ) is an increasingly prevalent concern in a world faced with rising levels of pollution, temperatures and climate change. At Panasonic, we're committed to delivering more than just cooling and heating solutions, we consistently strive to help you make positive choices, bringing you Quality Air, for Life.

We breathe in  
**18kg of  
AIR**  
a person a day

**WATER**  
 **1.2kg**  
a person  
a day

**FOOD**  
 **1.3kg**  
a person  
a day

# CLASS LEADING FEATURES



## QUALITY AIR FOR LIFE

The Panasonic nanoe™ X utilises next gen technology to remove dust, inhibit the growth of bacteria, mould and viruses, and deodorise, ensuring quality air, for life.

Please refer to pages 6 and 7 for more details.



## MARKET LEADING CONNECTIVITY

Control your air in more ways with Panasonic air conditioning's market leading connectivity; now Google Assistant & Amazon Alexa compatible\*.

Refer to page 5 for terms and conditions.

\* Google is a trademark of Google LLC.

Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.



## 24 HOURS AIR PURIFICATION

Purify your air 24 hours a day at only 35W/Hour. \*Whether you're at home or away, nanoe™ X leaves you with cleaner and more comfortable spaces.

\*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



## AEROWINGS



## INVERTER

## CONTROL, COMFORT, REASSURANCE

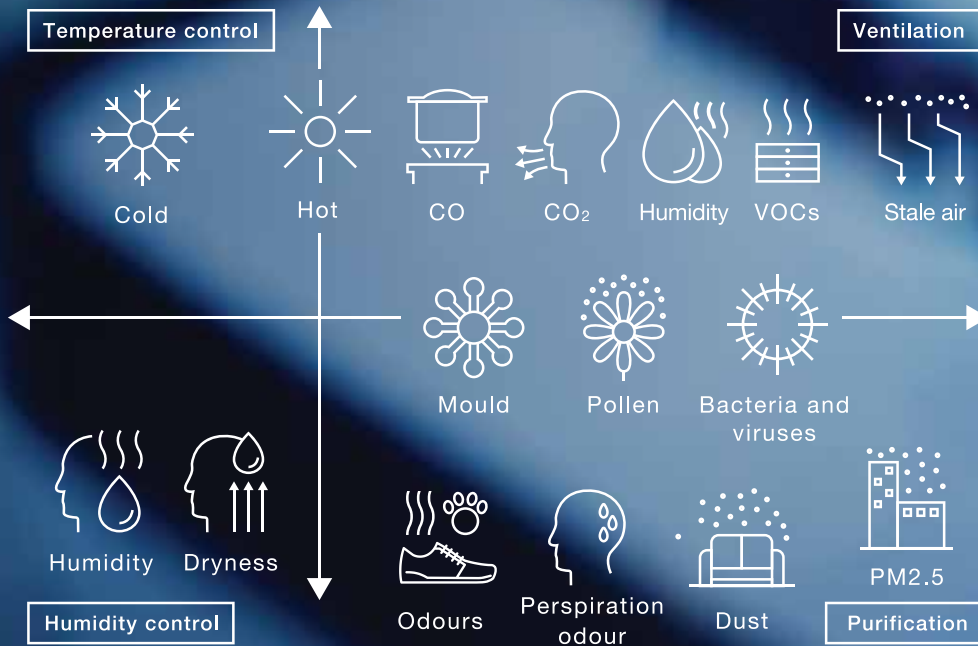
Featuring leading technologies that provide shower/fast cooling, quiet operation and energy efficiency; your control, comfort, and reassurance are accounted for.

# AWARENESS OF INDOOR AIR QUALITY

Clean air is essential to fostering and maintaining a healthy lifestyle; though there is little awareness of the invisible issues with IAQ. Australians spend 90% or more of their time indoors. Increasingly, as our homes and living/working spaces have become better sealed from the external environment, pollutants from indoor sources (e.g. gas cookers, heaters, wood fires, mould, pollen etc.) are being found at higher concentrations. Panasonic works to improve your IAQ by removing/reducing those invisible issues, bringing you peace of mind in the quality of your air.

\*According to the Australian Government, Department of Environment & Energy (2019)  
<https://www.environment.gov.au/protection/air-quality/indoor-air>

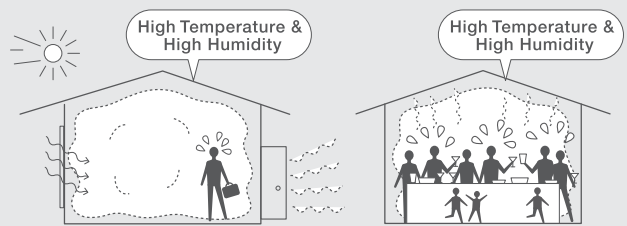
## Invisible issues with indoor air environments



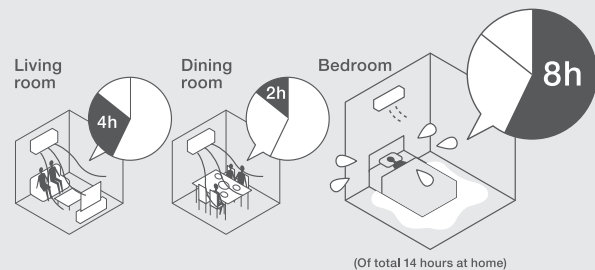
PM2.5: refers to atmospheric particulate matter (PM) that have a diameter of less than 2.5 micrometers (approximately 3% the diameter of a human hair). Due to their size, fine particles tend to stay longer in the air than heavier particles; this increases the chance of inhalation. These particles are able to bypass the nose and throat and penetrate deep into the lungs and some may even enter the circulatory system, having an adverse effect on ones health.  
<https://www.health.nsw.gov.au/environment/air/Pages/particulate-matter.aspx>

## LIVING ROOM & BEDROOM

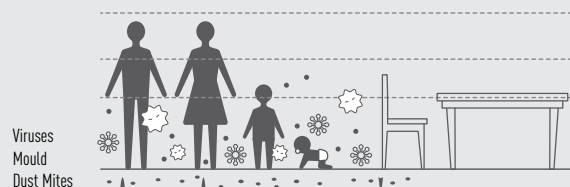
Hot air tends to stagnate in closed spaces. Consequently, indoor temperatures and humidity increase. Conditions also worsen the more people there are within the room.



Clean, quality air within the bedroom is important as the bedroom is where we spend a majority of our time at home. The average Australian spends 8 hours or more here.



Pollutants are present at higher concentrations towards the floor. As such, children are at a higher risk of constant contact.

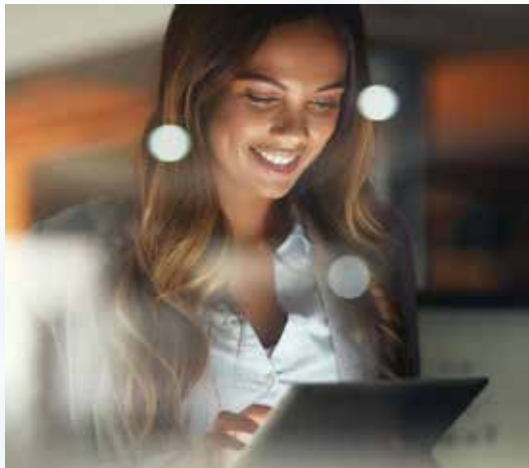


# A SMARTER WAY TO CONTROL YOUR AIR



The Panasonic Comfort Cloud App & WLAN Smart Adaptor deliver convenient control, connectivity and comfort. Seamlessly adjust temperature, monitor energy consumption, change modes etc. all from just one mobile device.\*

Now Google Assistant and Amazon Alexa compatible.\*



## SMART Control

Control, monitor & analyse up to 200 units in multiple locations from just one device.



## SMART Comfort

Control your comfort 24 hours a day with remote AC access features, air purification functionality and much more.



## SMART Efficiency

Analyse and compare energy consumption, improving energy efficiency and cost effectiveness.



## SMART Assist

Monitor & manage air conditioner troubleshooting effortlessly whilst assigning user control permissions.

## INTUITIVE VOICE CONTROL

Introducing intuitive voice control with Google Assistant and Amazon Alexa control compatibility\*. Using your existing Google assistant or Alexa devices, control your air conditioner with just your voice.

\*CZ-TACG1 & updated firmware required.

### Compatible Device and Browsers

1. iOS 9.0 or above
2. Android 4.4 or above



Please note: This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated Apps. Please note that user experience may vary slightly depending on hardware and software combination.



\* CZ-TACG1 WLAN Adaptor required per unit. Requires an Internet connection and the App downloaded from the App Store or GooglePlay Store on your smartphone or tablet with the latest Operating System available. \*To use Amazon Alexa to control your air conditioner, you will need an Amazon Echo device. \*To use Google Assistant to control your air conditioner, you will need a Google Assistant device. \*Google is a trademark of Google LLC. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. \*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 all models. \*Indoor image displayed may not match with actual unit.

# PANASONIC'S ADVANCED 24 HOUR nanoe™X AIR PURIFICATION SYSTEM\*

Panasonic's nanoe™X Technology is a revolutionary air purification system that keeps your living space fresh and clean for you and your family.



## SENSITIVE CHOICE



Sensitive Choice is a community service program that aims to educate people about the importance of managing their asthma and allergies. Developed by the National Asthma Council Australia in 2006, the program also encourages companies to produce products and services that are more asthma and allergy aware.

Panasonic and Sensitive Choice have partnered to introduce the nanoe™X to the Australian market. Purifying your air 24 hours, the nanoe™X feature can function independently or concurrently with your air conditioner. This market leading Air Sterilisation technology works towards the inhibition of bacteria, viruses, allergens, pollens and mould within your indoor environment, whilst deodorising, keeping your home or office fresh and clean. Panasonic & Sensitive Choice are committed to bringing you Quality Air, for Life.

\* 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

# THE SEVEN BENEFITS OF



## 1 Active Deodorisation

Penetrating into the deepest parts of fibres, nanoe™ X eliminates frequently encountered odours, creating cleaner and fresher spaces.



## 2 Inhibition of Bacteria & Viruses

nanoe™ X envelops and inhibits the activity of airborne and adhered Bacteria & Viruses.



## 3 Inhibition of Mould growth

Common airborne and adhered mould found inside living/working spaces are enveloped and inhibited by nanoe™ X.



## 4 Inhibition of major Allergens

In addition to allergens from sources such as dog/cat dander, mite faeces/carcasses, and airborne mould, other major allergens are inhibited by nanoe™ X.



## 5 Inhibition of Pollen

nanoe™ X is effective in inhibiting a variety of pollens globally, all year around. The inhibition effect has been confirmed on a number of common species found internationally.



## 6 Breakdown of Hazardous Substances

nanoe™ X has been confirmed to inhibit and breakdown common hazardous/harmful substances found in PM2.5, ensuring that the air you breathe is cleaner and safer.



## 7 Hydrates and Moisturises

nanoe™ X combines with natural sebum (natural skin oils) to coat the skin, leading to a smoother, well-hydrated complexion.

# 24 HOUR AIR PURIFICATION - WHEREVER YOU ARE

\* 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



## Maintenance Free

No maintenance required for nanoe™ X ioniser.

# 24-h

• nanoe™

# Air Pur



## Return to a fresh smelling home every time



Leave nanoe™ X mode on to deodorise, sterilise and refresh\*1.

## PURIFIES WHEN YOU'RE AWAY



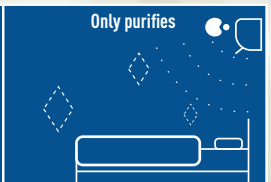
**Step 1:**  
Turn ON your air conditioner with Panasonic's Comfort Cloud App

**Step 2:**  
Select nanoe™ X mode from 'Mode Selection'. nanoe™ X mode is displayed on screen.

### Living Room + Dining Room



### Bedroom



Time spent away  
10hrs

The nanoe™X mode can be turned on independently to cooling or heating mode, thereby cleaning your indoor air, whilst minimising energy usage when you are away from home.

\*1 CZ-TACG1 WLAN Adaptor and internet connection required for operation.  
\*1 Functionality may vary by model





hour  
noeX  
ification

**Only at 35W/Hour<sup>\*2</sup>**   
Low energy consumption with fan mode 35W per hour for a single unit.

### A cleaner & more comfortable space

Take care of your air for a happier, healthier, and more comfortable home.



## PURIFIES WHEN YOU'RE AT HOME

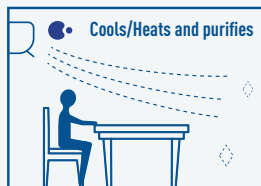
To activate Air Purification mode only:



**Step 1:**  
Turn OFF air conditioner

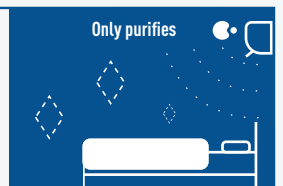
**Step 2:**  
Turn ON nanoe™X mode

### Living Room + Dining Room

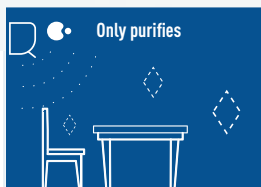


Time spent in the room: 6hrs

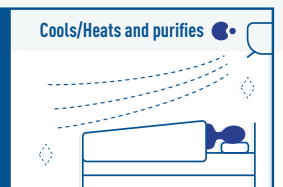
### Bedroom



### Living Room + Dining Room



### Bedroom



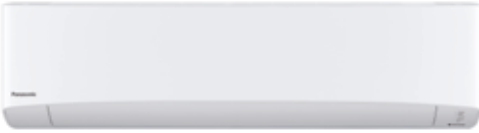
Time spent in the room: 8hrs

<sup>\*2</sup>Energy consumption may vary depending on models.

WALL-MOUNTED : PREMIUM REVERSE CYCLE INVERTER Single - Split Type



CS-Z25VKR | CS-Z35VKR | CS-Z42VKR



CS-Z50VKR | CS-Z60VKR | CS-Z71VKR | CS-Z80VKR



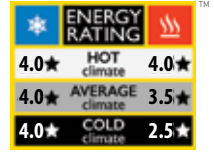
Wireless Remote Controller



CZ-RD514C Wired Remote Controller (Optional)



CZ-TACG1 Network Adaptor\*1 (Optional)



\*Star rating : CS-Z50VKR (Residential)

**SPECIFICATIONS**

MODEL		(240V / 1 Phase / 50Hz)	CS-Z25VKR	CS-Z35VKR	CS-Z42VKR	CS-Z50VKR	CS-Z60VKR	CS-Z71VKR	CS-Z80VKR
			[CU-Z25VKR]	[CU-Z35VKR]	[CU-Z42VKR]	[CU-Z50VKR]	[CU-Z60VKR]	[CU-Z71VKR]	[CU-Z80VKR]
Cooling / Heating Capacity	(min-max) kW		2.50 [0.90-3.00] 3.20 [0.90-5.00]	3.50 [0.90-4.00] 4.30 [0.90-5.80]	4.20 [0.90-5.00] 5.10 [0.90-7.10]	5.00 [0.95-6.00] 6.00 [1.05-8.00]	6.00 [1.70-7.10] 7.20 [1.70-8.50]	7.10 [1.70-8.10] 8.00 [1.70-9.90]	8.00 [2.30-9.00] 9.00 [2.20-11.00]
	(min-max) Btu/h		8,530 [3,070-10,200] 10,900 [3,070-17,100]	11,900 [3,070-13,600] 14,700 [3,070-19,800]	14,300 [3,070-17,100] 17,400 [3,070-24,200]	17,100 [3,240-20,500] 20,500 [3,580-27,300]	20,500 [5,800-24,200] 24,600 [5,800-29,000]	24,200 [5,800-27,600] 27,300 [5,800-33,800]	27,300 [7,840-30,700] 30,700 [7,500-37,500]
Air Flow	Indoor	L/s	193/203	207/220	222/222	328/332	332/340	355/362	370/370
Dehumid		L/h	1.5	2.0	2.4	2.8	3.3	4.1	4.7
Electrical Data	Running Current	A	2.30/2.90	3.75/4.40	4.70/5.90	5.10/5.80	7.00/7.80	8.60/9.20	10.90/11.30
	Max Current	A	5.7	7.0	10.7	11.9	13.0	15.0	15.4
	Power Input (min-max)	kW	0.50 [0.18-0.75] 0.62 [0.17-1.30]	0.80 [0.20-1.06] 0.94 [0.18-1.56]	1.07 [0.22-1.60] 1.34 [0.23-2.25]	1.13 [0.21-2.05] 1.31 [0.23-2.65]	1.58 [0.44-2.20] 1.78 [0.40-2.50]	1.97 [0.44-2.48] 2.11 [0.40-3.00]	2.32 [0.46-2.82] 2.41 [0.50-3.30]
AEER / EER ACOP / COP		W/W	4.87/5.00	4.31/4.38	3.88/3.93	4.38/4.42	3.77/3.80	3.58/3.60	3.43/3.45
		W/W	5.06/5.16	4.51/4.57	3.77/3.81	4.54/4.58	4.02/4.04	3.77/3.79	3.72/3.73
Star Rating	Hot Climate	Cooling	4.0	4.0	3.5	4.0	3.5	3.0	3.0
		Heating	3.5	3.5	3.0	4.0	3.0	3.0	3.0
	Average Climate	Cooling	3.5	3.5	3.5	4.0	3.0	3.0	3.0
		Heating	3.0	3.0	2.5	3.5	2.5	2.5	2.5
	Cold Climate	Cooling	3.5	3.5	3.5	4.0	3.0	3.0	3.0
		Heating	3.0	2.5	2.0	2.5	1.5	1.5	2.0
TCSPF & HSPF Residential/ Commercial	Hot Climate	TCSPF	5.90/6.43	5.64/6.16	5.40/5.89	5.89/6.41	5.02/5.44	4.84/5.23	4.75/5.10
		HSPF	5.26/5.80	5.14/5.12	4.51/4.36	5.52/5.30	4.66/4.52	4.71/4.58	4.57/4.51
	Average Climate	TCSPF	4.34/5.03	5.16/6.60	5.03/6.39	5.50/6.93	4.73/5.80	4.60/5.68	4.55/5.55
		HSPF	4.34/5.03	4.63/4.81	4.08/4.10	5.00/4.97	4.17/4.21	4.09/4.21	4.06/4.20
	Cold Climate	TCSPF	5.18/7.37	5.21/7.27	5.16/7.01	5.63/7.67	4.86/6.36	4.74/6.24	4.70/6.02
		HSPF	4.55/4.72	4.01/4.31	3.55/3.75	4.29/4.52	3.55/3.82	3.45/3.63	3.54/3.80
Noise Level	Sound Pressure Level** dB(A)	Indoor (H / L / Q-Lo)	43/25/19 42/27/21	44/26/19 46/29/21	47/30/23 46/31/27	47/34/31 45/33/29	47/36/33 47/35/32	49/37/34 49/37/34	51/38/35 50/38/35
		Outdoor (H / Q-Lo)	47/- 47/-	49/- 50/-	47/42 47/42	48/43 48/43	53/48 53/48	54/49 54/49	55/50 55/50
	Sound Power Level dB(A)	Indoor (H / L / Q-Lo)	59/41/35 58/43/37	60/42/35 62/45/37	63/46/39 62/47/43	63/50/47 61/49/45	63/52/49 63/51/48	65/53/50 65/53/50	67/54/51 66/54/51
		Outdoor (H / Q-Lo)	62/- 62/-	64/- 65/-	62/57 62/57	62/57 62/57	67/62 67/62	68/63 68/63	69/64 69/64
Net Weight	Indoor [Outdoor]	kg	10(31)	10(31)	10(43)	13(44)	13(50)	13(50)	13(60)
Dimensions	Indoor (H x W x D)	mm	295 x 919 x 194	295 x 919 x 194	295 x 919 x 194	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236	302 x 1,120 x 236
	Outdoor (H x W x D)	mm	542 x 780 x 289	542 x 780 x 289	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	795 x 875 x 320
Refrigerator Pipe Diameter	Liquid Side	mm/inch	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas Side	mm/inch	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 12.70 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)
Pipe Extension Length	min-max (m)		3-20	3-20	3-30	3-30	3-30	3-30	3-30
Maximum Elevation Length	m		15	15	15	15	15	20	20
Pipe Length For Additional Gas	m		7.5	7.5	7.5	10	10	10	10
Additional Gas Amount	g/m		10	10	15	15	15	25	25
Operating Range (Outdoor)	Cooling	Degree °C	+5 ~ +46	+5 ~ +46	+5 ~ +46	+5 ~ +46	+5 ~ +46	+5 ~ +46	+5 ~ +46
	Heating		-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

\*1 Indoor temperature display and some special function are not available through the App for all models.

Cooling ( ) Outdoor Unit EER: Cooling Efficiency Heating ( ) COP: Heating Efficiency

\*2 Sound pressure level specification is measured according to JIS C9612. All models have outdoor power supply and use R32 refrigerant. All TCSPF and HSPF are two decimal rounding numbers.

**SPECIFICATIONS & FEATURES**

Products in this brochure contain R32 refrigerant. Please refer to Panasonic's installation instructions and service manuals before installation and servicing this product.

Only persons and/or companies qualified and experienced in the installation, service and repair of refrigerant products should be permitted to do so.

The purchaser must ensure that the person and/or company who is to install, service or repair this air conditioner has qualifications and experience in refrigerant products.

Suitable access for warranty and service is required.

Future improvement, specifications, designs of product and availability are subject to change without notice. Please check with your dealer.

All the specifications except star rating are based on average climate.

**ALL CAPACITY AND ENERGY EFFICIENCY RATINGS ARE BASED ON AS/NZS3823.1.1**

COOLING	Indoor temperature Outdoor temperature	27°C DB/19°C WB 35°C DB
HEATING	Indoor temperature Outdoor temperature	20°C DB 7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

# FEATURES EXPLANATION

ENERGY SAVINGS			
<b>INVERTER CONTROL</b> Varies the rotation speed of the compressor for higher energy savings.		<b>ECO MODE</b> More energy saving compared to the normal mode by automatically adjusting the set temperature by up to 2°C. It's ideal when you want to maintain room temperature for gentle cooling and heating.	
COMFORT			
<b>iAUTO-X</b> Come home to ultra-fast cooling, and then enjoy continuous comfort Shower Cooling that evenly distributes cool air.		<b>QUIET MODE</b> Enjoy the comfort of running your air conditioner at night and still have a relaxing sleep.	
<b>MILD DRY COOLING</b> Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature.		<b>FAN MODE</b> Allows you to run the fan without any cooling or heating, thus giving just ventilation.	
<b>POWERFUL MODE</b> Pressing the Powerful button cools or heats the room quickly. It provides fast comfort, with full power and a strong airflow. This is perfect for use immediately after coming home, or when unexpected guests arrive.		<b>SOFT DRY OPERATION MODE</b> Starts with cooling to dehumidify, then provides continuous breeze at a low frequency to keep a room dry without much change to the temperature.	
		<b>PERSONAL AIRFLOW CREATION</b> Vertical and horizontal airflow patterns can be combined as desired to achieve optimum comfort, with operation possible by remote, even from a distance.	
		<b>AUTO CHANGEOVER (INVERTER)</b> In Auto mode the unit will select if heating or cooling is required.	
		<b>HOT START CONTROL</b> On the start of the heating cycle and after the defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.	
CLEAN & HEALTHY AIR			
<b>nanoe™ X</b> nanoe™ X deodorises and inhibits the growth of bacteria and viruses, for a fresh and cleaner living space.		<b>ODOUR-REMOVING FUNCTION</b> With this function, there's no unpleasant odour when the unit starts up. That's because the fan remains off momentarily, while the source of the odour inside the air conditioner is suppressed.  The unit must be in cool or dry mode and the fan speed must be set to automatic.	
		<b>REMOVABLE, WASHABLE PANEL</b> Gives you easy access to the filter as well making the unit easy to clean.	
CONVENIENCE			
<b>24-HOUR DUAL ON &amp; OFF REAL SETTING TIMER</b> This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.		<b>3RD PARTY CONNECTIVITY</b> Allows limited control from an external source when wired to do so.	
<b>DEMAND RESPONSE ENABLING DEVICE (DRED)</b> Allows Electrical Utility Companies to regulate the power supply to the units if connected.		<b>LCD WIRELESS REMOTE CONTROL</b> Easy control of the unit from anywhere in the room.	
		<b>WIRED REMOTE CONTROL (OPTIONAL)</b> For use in commercial applications, or where users don't want a remote control.	
		<b>WIRELESS LAN REMOTE CONTROL FOR INTERNET CONNECTION (OPTIONAL)</b> Control air conditioners remotely by turning your mobile device into a remote controller using internet connection.  * Network adaptor (CZ-TACG1) is required	
RELIABILITY			
<b>BLUE FIN CONDENSER</b> Extra protection from the elements with a longer lasting coil.		<b>LONG PIPING</b> Long piping offers more flexible installation options. *20m - CS-Z25VVKR, CS-Z35VVKR *30m - CS-Z42VVKR, CS-Z50VVKR, CS-Z60VVKR, CS-Z71VVKR, CS-Z80VVKR	
<b>RANDOM AUTO RESTART</b> When multiple units are connected and there is a power outage, they will turn on at different times in order to not spike the power supply.		<b>TOP-PANEL MAINTENANCE ACCESS</b> Easy access for maintenance.	
		<b>SELF-DIAGNOSTIC FUNCTION</b> Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.	

## OUTDOOR



CU-Z25VVKR  
CU-Z35VVKR



CU-Z42VVKR  
CU-Z50VVKR  
CU-Z60VVKR  
CU-Z71VVKR



CU-Z80VVKR

AIR IS LIFE

AIR IS COMFORT

AIR IS ENERGY

**QUALITY AIR FOR LIFE**

- Please read the Installation Instructions carefully before installing the unit, and the Operating Instructions before using it.
- Specifications are subject to change without prior notice.
- The contents of this catalogue are accurate as of October 2020.
- Due to printing considerations, the actual colours may vary slightly from those shown.
- All graphics are provided merely for the purpose of illustrating a point.



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

Authorised Dealer

20RAC1101Z

## Panasonic Australia Pty. Limited

1 Innovation Road,  
Macquarie Park,  
NSW 2113  
ACN 001 592 187  
ABN 83 001 592 187  
Website : [aircon.panasonic.com.au](http://aircon.panasonic.com.au)



**Panasonic**  
Air Conditioning