

Panasonic

AIR CONDITIONING

AERO SERIES **ECONAVI**

REVERSE-CYCLE INVERTER



AERO SERIES

#AIRTHATMOVESYOU



MOST SATISFIED CUSTOMERS
AIR CONDITIONERS 2016 - 2017



Panasonic
Air Conditioning

CLASS LEADING FEATURES

AEROWINGS

SUPERIOR AIRFLOW COOLING

Panasonic's new AEROWINGS feature has twin motorised blades that deliver precise control of air flow direction, providing both Shower Cooling and Fast Cooling for a perfect and comfortable environment.



FASTER COOLING

The new Panasonic Thermal Enhancement Technology (P-Tech) enables the compressor to achieve maximum frequency in the shortest time from start up, allowing for 15%* faster cooling.

* Compared to Panasonic 2014 model.

INTELLIGENT ECO SENSORS



+



ENERGY SAVING TECHNOLOGY

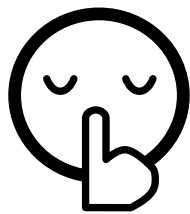
ECONAVI sensors and INVERTER technology work together to moderate the temperature according to room usage. By adapting to the way you live and optimising operation, this unique feature makes the air conditioning in your home more energy efficient and keeps you comfortable throughout the day and night.

CONTROL, COMFORT & REASSURANCE



CLEAN & HEALTHY AIR

nanoe-G utilises nano-technology's fine particles to purify the air in the room. It works effectively on airborne and adhesive micro-organisms such as bacteria, viruses and mould thus ensuring a cleaner living environment.



QUIET OPERATION

Panasonic systems are among the quietest in the world, so you can enjoy the comfort of running your air conditioner at night and still have a relaxing sleep. The outdoor unit is also very quiet which means you don't have to worry about keeping your neighbours up either.



LATEST REFRIGERANT

One of Panasonic's principles has always been to sustain the environment around us. Therefore, we use the more ozone friendly refrigerant R32 for this new product. It is especially suitable for use in air conditioning and results in better energy efficiency.

RELIABLE COMFORT COMES FROM RELIABLE TECHNOLOGY

DISCREET COMFORT

A Panasonic air conditioner should be the hard-working hero you never notice. From noise measurements, to environmental performance and even operating ease, we repeatedly test our models to make sure they keep your home comfortable without ever intruding on your life.



TESTED DURABILITY

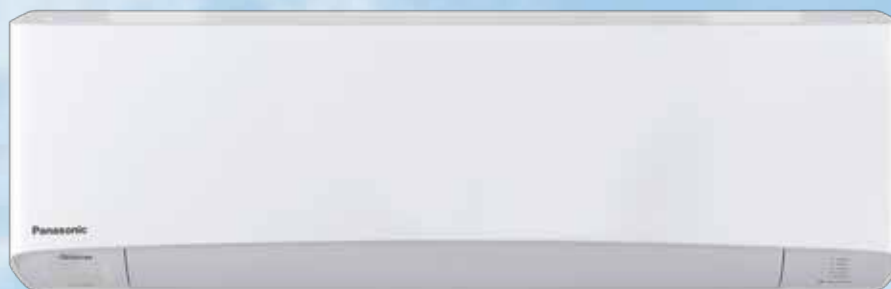
We simulate continuous operation under the harshest of conditions, subject the outdoor units to wind and rain tests and then examine every mechanism to ensure we are delivering a rugged product you can depend on for many years.



SHOCK RESISTANCE

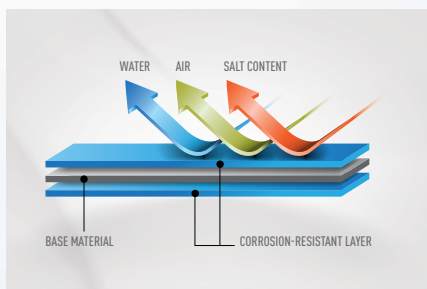
We love our air conditioners but that doesn't mean we go easy on them. We simulate impacts, vibrations, drops and stacking issues the units might face in transportation and storage, so we know they will be ready for action when they reach your home.





AUSSIE TEMPERATURES

Our air conditioning systems boast an outstanding operating temperature range. Cooling operation is possible even when it is a scorching +46°C outside, which is perfect for Australia's hot summer days. The heating operation is designed to operate even when it's a freezing -15°C outside, so even the coldest parts of Australia are covered.



BUILT TOUGH

Panasonic outdoor units are built to last in the harsh Australian environment. To ensure you will enjoy many years of reliable comfort from your air conditioner the internal components of the outdoor unit are coated with a special blue coating that protects the unit from the damaging effects of salty air, dust, wind and rain.



COUNT ON PANASONIC

Panasonic air conditioners are manufactured to the highest quality standards to ensure years of reliable comfort. We even back our reliability by offering a full 5 year parts and labour warranty.

SHOWER COOLING

AEROWINGS

FOR YOUR
EXTRAORDINARY
COMFORT



Prevents Overcooling
From Direct Airflow

AEROWINGS

SHOWER COOLING is the feeling that gently washes over you like a cool morning. After reaching the set temperature, AEROWINGS directs airflow upwards to spread cool air evenly across the room, and showers down for endless comfort.

How SHOWER COOLING works:



- ❶ Cool air is directed upwards.
- ❷ Cool air spreads evenly and showers down.
- ❸ Room is evenly cooled down.

SHOWER COOLING AIRFLOW ASSESSMENT

AIRFLOW SMOKE TEST



Instead of blowing cold air directly onto people, AEROWINGS directs airflow upwards over a wider area, then showers down gently and evenly across the room.

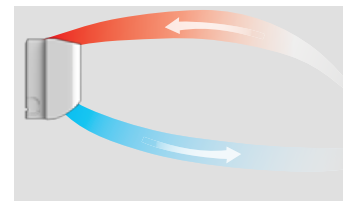
TEMPERATURE DISTRIBUTION TEST



warmer —————> cooler

AEROWINGS directs cool air further and higher towards the ceiling to avoid direct cooling.

TOP AIR INTAKE



Hot air is drawn in from the top, and cool air is discharged from the bottom to facilitate cool air showering down over the entire area.

Note: Based on Panasonic In House Research.

FAST COOLING

AEROWINGS

**FOR YOU
TO FEEL
COMFORT
INSTANTLY**

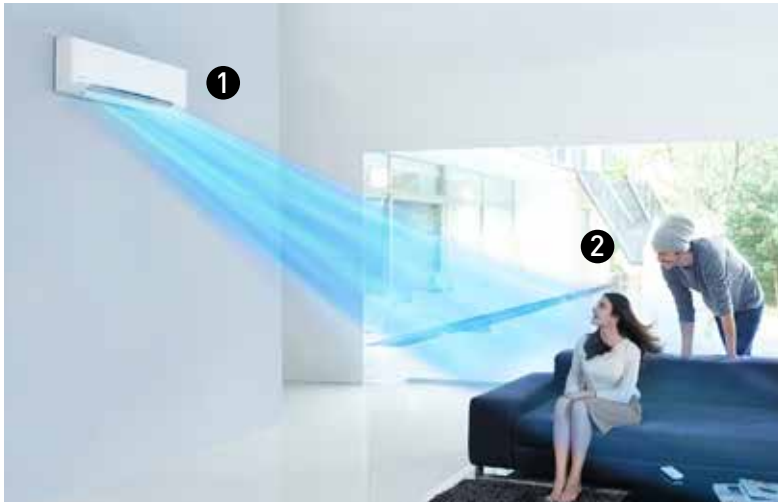


Instant Relief From
The Heat

AEROWINGS

Features twin motorised blades that direct airflow downwards, delivering concentrated cool air to cool down the room faster, providing you with a unique FAST COOLING experience.

How FAST COOLING works in AERO Series:

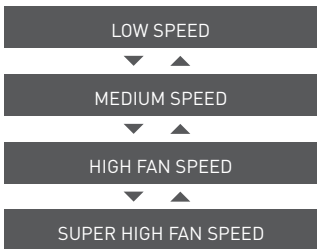


- 1 Concentrated cool air is delivered straight to you.
- 2 The steady airflow cools you down quickly.

AUTOMATIC FAN SPEED



iAUTO-X will automatically switch fan speed from low to super high depending on the temperature difference between the room and the set temperature.



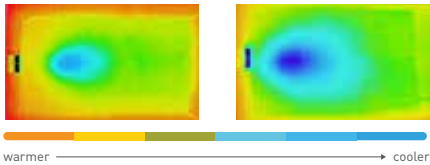
FAST COOLING AIRFLOW ASSESSMENT

AIRFLOW SMOKE TEST



AEROWINGS directs airflow downwards for a fast cooling effect.

TEMPERATURE DISTRIBUTION TEST



CONVENTIONAL COOLING

Cool air blows downwards and cools the room at a slow pace, resulting in uneven cooling. The edge of the room remains warm.

FAST COOLING

Concentrated airflow cools instantly. Room is evenly cooled.

Note: Based on Panasonic In House Research.

ENERGY SAVINGS

ECONAVI and INVERTER work together to alternate the performance automatically. Now you can enjoy more energy savings while staying comfortable throughout the day.

INTELLIGENT ECO SENSORS

ECONAVI

+ INVERTER

THE PERFECT MATCH FOR HOME LIVING



Stay Comfortable

Energy Saving

Precise Temperature Control

INTELLIGENT ECO SENSORS



Enjoy Ultimate Comfort With Energy Savings

ECONAVI has two sensors – Human Activity Sensor and Sunlight Sensor. Together, they monitor human location, movement, absence, and sunlight intensity to use energy more efficiently.

ECONAVI SAVES YOU ENERGY BECAUSE IT SENSES:



Where you are.



When you leave the room.



When you are less active.



Whether it's a sunny day or at night.

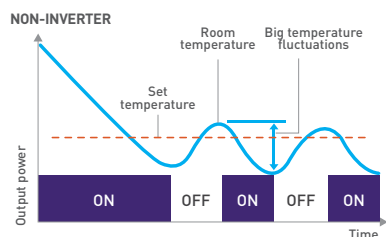


Adapts rhythmic temperature control after detecting low activity level.

INVERTER

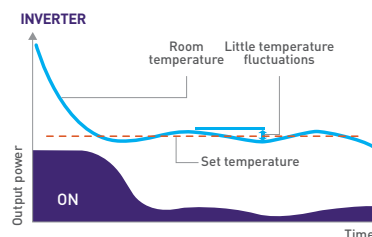
Precise Temperature Control

INVERTER prevents wasteful energy consumption by varying the compressor rotation speed to maintain the set temperature without sacrificing your comfort.



Legend: ■ Output Power
— Temperature

Remark: Energy is wasted by switching the compressor ON and OFF to maintain the set temperature.



Legend: ■ Output Power
— Temperature

Remark: Saves energy by varying the rotation speed of the compressor to maintain the set temperature.

A conventional non-INVERTER air conditioner can only operate at a constant speed which is too powerful to maintain the set temperature. Thus, it switches the compressor on and off repeatedly. This results in wider temperature fluctuations leading to wasteful consumption of energy.

The Panasonic INVERTER air conditioner varies the rotation speed of the compressor, providing a precise method of maintaining the set temperature. Thus, Panasonic INVERTER air conditioners give you exceptional energy saving performance while ensuring you stay comfortable at all times.

CONSTANT COMFORT

Precise temperature control with a wide power output range enables an INVERTER air conditioner to meet different room occupancy levels – thus ensuring constant comfort.

MAXIMUM POWER



Compressor rotation speed: HIGH
When required, the unit operates at full power.

Power: 4.00kW

MEDIUM POWER



Normal condition

Power: 3.50kW

MINIMUM POWER



Compressor rotation speed: SLOW
When not required, the unit operates at low power to save energy.

Power: 0.90kW

Graph shows the CS/CU-Z35TKR wide power output range during cooling.

AIR PURIFICATION SYSTEM



**FOR YOUR
BETTER
INDOOR AIR
QUALITY**



Clean & Healthy Air



Breathe Clean & Healthy Air

For overall wellbeing, Panasonic Air Conditioners feature an advanced air purification system called nanoe-G, which releases active ions that attach to particles as small as PM2.5.

How nanoe-G works:



1 REMOVES AIRBORNE PARTICLES (Up to 99%^{*1,2})

Removal of 99% of particle pollution (PM2.5)^{*1} and airborne particles^{*2} such as bacteria, viruses and mould.

2 DEACTIVATES ADHESIVE PARTICLES & DEODORISES ADHESIVE ODOURS (Up to 99%^{*3})

Deactivates 99%^{*3} adhesive micro-organisms and deodorises adhesive odours.

3 IN-FILTER DEACTIVATION (Up to 99%^{*4})

Deactivates 99%^{*4} of bacteria and viruses trapped in the filter.

NOTE: ^{*1} 3 trillion is the simulated number of nanoe-G fine particles under the mentioned conditions. Actual measured nanoe-G fine particles at the centre of the room (13m²): 100k/cc calculated number of nanoe-G fine particles in the entire room assuming they are evenly distributed. ^{*2} PM2.5 Removal was certified by FCG Research Institute, Inc. Test Report no: 25034. PM2.5: Cigarette Smoke (as PM2.5). Effectiveness is measured on 0.3µm-2.5µm. (Specific size only). This removal effect is not proven for all the airborne toxic substances. ^{*3} Airborne Removal was certified by Kitasato Research Center for Environmental Science KRCEs-Bio. Test Report no., 23_0182 Bacteria, Staphylococcus aureus (NBRC 12732) KRCEs-Env. Test Report no: 22_0008. Virus: Escherichia coli phage (øX-174 ATCC 13706-B1) Influenza (H1N1) 2009 Virus, KRCEs-Env. Test Report no: 23_0140 Mould: Penicillium pinophilum (NBRC 6345). ^{*4} Adhesive Deactivation was certified by Japan Food Research Laboratories. Test Report number: 11047933001-02 Bacteria: Staphylococcus aureus (NBRC 12732) Test Report number: 11073649001-02 Virus: Bacteriophage (Phi X 174 NBRC 103405) Test Report number: 11047937001-02 Mould: Cladosporium cladosporioides (NBRC 6348) Adhesive odour deodorisation was certified by OMI ODOR-AIR SERVICE Co. Ltd. Test Report No. 13-1204. ^{*5} In-Filter Deactivation was certified by Japan Food Research Laboratories Test Report number, 12037932001 Virus: Escherichia coli phage (øX-174 ATCC 13706-B1) In-Filter Deactivation was certified by Kitasato Research Center for Environmental Science. Test Report number: KRCEs-Virus Test Report No. 24_0013 Virus: Influenza (H1N1) 2009 Virus. ^{*1} & ^{*2} & ^{*3} & ^{*4} All results are based on specific testing conditions. All tests are not demonstrated under actual usage situation.

PRODUCT LINE-UP

WALL-MOUNTED : AERO SERIES ECONAVI REVERSE CYCLE INVERTER (Z SERIES)



CS-Z25TKR | CS-Z35TKR | CS-Z42TKR



Wireless



CZ-RD514C
Wired Remote
Controller (Optional)



CS-Z50TKR | CS-Z60TKR | CS-Z71TKR | CS-Z80TKR



Wireless



CZ-RD514C
Wired Remote
Controller (Optional)



SPECIFICATIONS

MODEL [240V / 1 Phase / 50Hz]			CS-Z25TKR [CU-Z25TKR]	CS-Z35TKR [CU-Z35TKR]	CS-Z42TKR [CU-Z42TKR]	CS-Z50TKR [CU-Z50TKR]	CS-Z60TKR [CU-Z60TKR]	CS-Z71TKR [CU-Z71TKR]	CS-Z80TKR [CU-Z80TKR]
Cooling / Heating Capacity	(min-max)	kW	2.50 [0.90-3.00] 3.20 [0.80-5.00]	3.50 [0.90-4.00] 4.30 [0.80-5.80]	4.20 [0.90-5.00] 5.10 [0.90-7.10]	5.00 [0.90-6.00] 6.00 [0.90-8.00]	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 [2,730-17,100]	11,900 [3,070-13,600] 14,700 [2,730-19,800]	14,300 [3,070-17,100] 17,400 [3,070-24,200]	17,100 [3,070-20,500] 20,500 [3,070-27,300]	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	200/205	207/210	222/222	335/325	340/340	355/355	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	3.65/4.40	4.70/5.90	5.10/5.80	7.00/7.80	8.60/9.20	10.90/11.30
	Power Input	kW	0.50 [0.21-0.75] 0.62 [0.175-1.30]	0.80 [0.21-1.06] 0.94 [0.175-1.56]	1.07 [0.215-1.60] 1.34 [0.245-2.25]	1.13 [0.23-2.05] 1.31 [0.26-2.65]	1.58 [0.44-2.20] 1.78 [0.40-2.50]	1.97 [0.43-2.48] 2.11 [0.38-3.00]	2.32 [0.46-2.82] 2.41 [0.50-3.30]
AEER / EER ACOP / COP	W/W W/W		4.89/5.00 5.07/5.16	4.31/4.38 4.52/4.57	3.88/3.93 3.77/3.81	4.38/4.42 4.54/4.58	3.77/3.80 4.02/4.04	3.58/3.60 3.77/3.79	3.43/3.45 3.71/3.73
Star Rating			5.0 5.5	4.0 4.5	3.0 3.0	4.0 4.5	3.0 3.5	2.5 3.0	2.0 2.5
Noise	Sound Pressure Level*1 dBA	Indoor (Hi / 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 (Hi / 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	Outdoor (Hi / 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[32]	10[32]	10[43]	13[44]	13[50]	13[50]	13[60]
Dimensions	Indoor [H x W x D] Outdoor [H x W x D]	mm	295 x 919 x 194 542 x 780 x 289	295 x 919 x 194 542 x 780 x 289	295 x 919 x 194 695 x 875 x 320	302 x 1120 x 236 695 x 875 x 320	302 x 1120 x 236 695 x 875 x 320	302 x 1120 x 236 695 x 875 x 320	302 x 1120 x 236 795 x 875 x 320
Pipe Size	Liquid Side	mm[/inch]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]	6.35 [1/4]
	Gas Side	mm[/inch]	9.52 [3/8]	9.52 [3/8]	12.70 [1/2]	12.70 [1/2]	12.70 [1/2]	15.88 [5/8]	15.88 [5/8]
Pipe Extension Length	Min ~ Max [m]		3-20	3-20	3-30	3-30	3-30	3-30	3-30
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
Power Supply			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Operating Range [Outdoor]	Cooling Heating	Degree °C	+5-46 -15-24	+5-46 -15-24	+5-46 -15-24	+5-46 -15-24	+5-46 -15-24	+5-46 -15-24	+5-46 -15-24
Refrigerant Type			R32	R32	R32	R32	R32	R32	R32

*1 Sound pressure level specification is measured according to JIS C9612.

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 CAPACITY AND ENERGY EFFICIENCY RATINGS ARE BASED ON AS/NZS3823.2.

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					
<div>ECONAVI</div> <div>Sensors detect opportunities to reduce waste for more energy savings.</div>	<div>ECONAVI</div>	<div>TEMPERATURE WAVE</div> <div>Rhythmic temperature-controlled pattern to save energy without sacrificing comfort.</div>	<div></div>	<div>INVERTER CONTROL</div> <div>Varies the rotation speed of the compressor for higher energy savings.</div>	<div></div>
COMFORT					
<div>iAUTO-X</div> <div>Come home to ultra-fast cooling, and then enjoy continuous comfort Shower Cooling that evenly distributes cool air.</div>	<div>i AUTOX</div>	<div>QUIET MODE</div> <div>Enjoy the comfort of running your air conditioner at night and still have a relaxing sleep.</div>	<div></div>	<div>PERSONAL AIRFLOW CREATION</div> <div>Vertical and horizontal airflow patterns can be combined as desired to achieve optimum comfort, with operation possible by remote control, even from a distance.</div>	<div></div>
<div>MILD DRY COOLING</div> <div>Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature.</div>	<div>MILD</div>	<div>FAN MODE</div> <div>Allows you to run the fan without any cooling or heating, thus giving only ventilation.</div>	<div>FAN MODE</div>	<div>AUTO CHANGEOVER (INVERTER)</div> <div>In Auto Mode the unit will select whether heating or cooling is required.</div>	<div></div>
<div>POWERFUL MODE</div> <div>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.</div>	<div></div>	<div>SOFT DRY OPERATION MODE</div> <div>Starts with cooling to dehumidify, then provides continuous breeze at a low frequency to keep a room dry without much change to the temperature.</div>	<div></div>	<div>HOT START CONTROL</div> <div>On the start of the heating cycle and after the defrost cycle, the indoor fan will start up when the indoor heat exchanger is warm.</div>	<div></div>
CLEAN & HEALTHY AIR					
<div>nanoe-G</div> <div>nanoe-G works effectively on airborne particles including PM2.5, adhesive and in-filter micro-organisms such as bacteria, viruses and mould ensuring a cleaner living environment.</div>	<div>nanoe-G</div>	<div>ODOUR-REMOVING FUNCTION</div> <div>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.</div> <div>The unit must be in cool or dry mode and the fan speed must be set to automatic.</div>	<div></div>	<div>REMOVABLE, WASHABLE PANEL</div> <div>Gives you easy access to the filter as well as making the unit easy to clean.</div>	<div></div>
CONVENIENCE					
<div>24-HOUR DUAL ON & OFF REAL SETTING TIMER</div> <div>This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.</div>	<div></div>	<div>3RD PARTY CONNECTIVITY</div> <div>Allows limited control from an external source when wired to do so.</div>	<div>3RD PARTY CONNECTIVITY</div>	<div>WIRED REMOTE CONTROL (OPTIONAL)</div> <div>For use in commercial applications, or where users don't want a remote control.</div>	<div></div>
<div>DEMAND RESPONSE ENABLING DEVICE (DRED)</div> <div>Allows Electrical Utility Companies to regulate the power supply to the units if connected.</div>	<div>DRED</div>	<div>LCD WIRELESS REMOTE CONTROL</div> <div>Easy control of the unit from anywhere in the room.</div>	<div></div>		
RELIABILITY					
<div>BLUE FIN CONDENSER</div> <div>Extra protection from the elements with a longer lasting coil.</div>	<div></div>	<div>LONG PIPING</div> <div>Long piping offers more flexible installation options.</div>	<div></div>	<div>SELF-DIAGNOSTIC FUNCTION</div> <div>Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows for quicker servicing.</div>	<div></div>
<div>RANDOM AUTO RESTART</div> <div>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.</div>	<div></div> <div>(Random)</div>	<div>TOP-PANEL MAINTENANCE ACCESS</div> <div>Easy access for maintenance.</div>	<div></div>		

OUTDOOR



CU-Z25TKR
CU-Z35TKR



CU-Z42TKR
CU-Z50TKR
CU-Z60TKR
CU-Z71TKR



CU-Z80TKR

PANASONIC SIZING WIZARD APP

The Panasonic Air Conditioning Sizing Wizard makes choosing the right air conditioner easier. This application is very easy to use; simply enter some basic details about your room size and environment, and the Sizing Wizard will suggest the air conditioner model best suited to your needs. You can use it online, or download the app for your Android smartphone or tablet, or your iPhone or iPad.

FEATURES:

- Product Selector
- Model Recommendation
- Model Specifications
- Product Feature Videos
- Where to Buy



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.



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ACN 001 592 187 ABN 83 001 592 187

www.panasonic.com.au

- Specifications are subject to change without prior notice for further improvement
- The contents of this catalogue are effective as of August 2017.
- 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.

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