

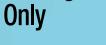
**Panasonic**  
ideas for life

Air Conditioners  
2004/2005



**Qshower**

# MODELS LINE UP

	2.0	2.5	3.5	4.5
<b>Single Split Type</b>	Inverter Type  CS-XE9CKR (CU-XE9CKR)	NEW    CS-XE12CKR (CU-XE12CKR)	NEW   	
	Inverter Type  CS-E9CKP (CU-E9CKP5)	 	 	 
	Reverse Cycle  CS-A7CKP (CU-A7CKP5)	 	 	CS-A12CKP (CU-A12CKP5)
	Cooling Only  CS-C7CKP (CU-C7CKP5)	 	 	CS-C12CKP (CU-C12CKP5)
<b>Floor or Ceiling Dual Mountable Type</b>	Reverse Cycle		 CS-A12CTP (CU-A12CTP5)	
<b>Triple Split Type</b>	Cooling Only	 CS-C9CKPG x 3 (CU-3C20CKP5G)		
<b>Dual Split Type</b>	Reverse Cycle	 CS-MA95KE x 2 (CU-MA185KE)      CS-MA125KE x 2 (CU-MA245KE)		
	Cooling Only	 CS-C9CKPG x 2 (CU-2C14CKP5G)      CS-C9CKPG x 2 (CU-2C18CKP5G)		
<b>Window Type</b>	Reverse Cycle		 CW-A90VR      CW-A120VR      CW-A170KR	
	Cooling Only	 CW-C70KR      CW-C90KR      CW-C120VR      CW-C170KR		

2.0

2.5

3.5

4.5

5.5

6.0

7.0

8.0

(kW)



CS-E18CKR (CU-E18CKR)



CS-E21CKR (CU-E21CKR)



CS-E24CKR (CU-E24CKR)



CS-A18CKR (CU-A18CKR)



CS-A24CKR (CU-A24CKR)



CS-A28CKR (CU-A28CKR)



CS-C18CKR (CU-C18CKR)



CS-C24CKR (CU-C24CKR)



CS-C28CKR (CU-C28CKR)



CS-A18CTP  
(CU-A18CTP5)



CS-A24CTP  
(CU-A24CTP5)



CW-A200KR



CW-A240KR



CW-C200KR



CW-C240KR

5.5

6.0

7.0

8.0

(kW)

# O<sub>2</sub> Shower — Shift to a Natural,

## Panasonic Air Conditioners Optimise Your Room's Oxygen Balance

Panasonic's new CS-XE9CKR and CS-XE12CKR air conditioners turn ordinary air into healthy, comfortable oxygen-rich air.

Using a special membrane, these models give your room an oxygen concentration of around 21% or higher, the same as natural outdoor air. Go ahead, breathe deep and enjoy.



## O<sub>2</sub> shower

### O<sub>2</sub> Topics

**Why is it necessary to control the oxygen balance of the room?**

**Because it often becomes too low.**

Every time we take a breath, we consume oxygen. Many rooms are mostly closed environments, so the oxygen concentration drops as people breathe. When it drops below 18%, you feel uncomfortable. Adding oxygen helps maintain a room environment that's pleasant, comfortable and good for your health.

# Oxygen - Rich Environment



CS-XE9CKR/CS-XE12CKR

## Three Reasons Why Panasonic Can Create Comfortable, Natural Environments

- 1 **O<sub>2</sub>** Shower Enhances Comfort
- 2 Ion Freshener Refreshes
- 3 Catechin Air Purifying Filter Cleans the Air



# Three Reasons for Panasonic's



**1**

## O<sub>2</sub> Shower Enhances Comfort



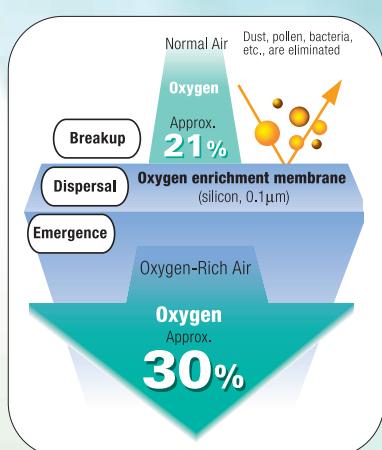
### Fills Your Room with Vital Oxygen

The oxygen content in room air may drop, making the room feel stale and unpleasant. Using a unique oxygen enrichment membrane system, Panasonic's new air conditioners take in air from the outside and use it to produce air that has about 30% oxygen concentration, then supply it to your room. This helps keep the room at an oxygen concentration of around

21% or higher, the same level found in nature — which makes you feel more comfortable (see graph at right).

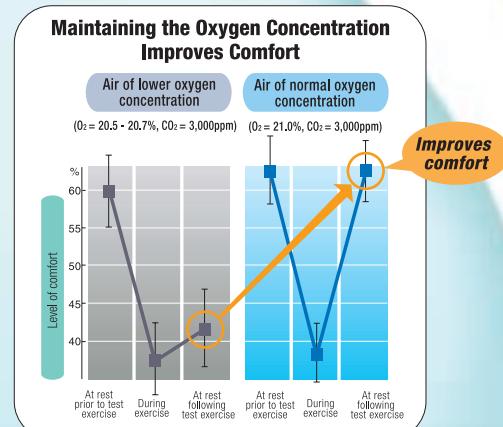
The oxygen enrichment membrane has no holes, so it prevents small dust particles, bacteria and other harmful elements from passing into the room. You get only clean, fresh, oxygen-rich air to breathe.

#### Producing Oxygen-Rich Air with the Membrane



\* Varies depending on the environment

Panasonic's Unique  
Oxygen Enrichment  
Membrane System



A study of brain waves has shown that oxygen-rich air enables quicker recovery from emotional stress, and also enhances comfort.

For two minutes, quietly breathe in air with a normal oxygen concentration (O<sub>2</sub> = 21.0%, CO<sub>2</sub> = 3,000 ppm) or air with a lower oxygen concentration (O<sub>2</sub> = 20.5% to 20.7%, CO<sub>2</sub> = 3,000 ppm). Then take Kraepelin's stress test for five minutes and remain quiet for two more minutes. The calculation model based on the right frontal  $\alpha$ -wave frequency rhythm (corresponding to a stimulating sensation) and the left frontal  $\alpha$ -wave frequency rhythm (corresponding to pleasant and unpleasant feelings) was given the 2002 Achievement Award by the Ministry of Education, Culture, Sports, Science and Technology in Japan.

#### Bringing Air with About 30% Oxygen Concentration into Your Room for Greater Comfort

The outdoor unit draws in outside air and passes it through the built-in membrane, boosting the oxygen level to around 30%. This oxygen-rich air is then sent by an oxygen supply vacuum pump through a tube to the indoor unit and into your room. This keeps the oxygen concentration of the room's air at around 21% or higher.

# Natural Comfort

2

## Ion Freshener Refreshes

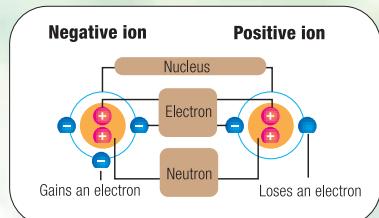
### Refreshes Your Room with Negative Ions

It is known that areas rich in negative ions, like near waterfalls and forests, generally make people feel refreshed.

Just press a button on the remote control and the air conditioner generates negative ions. Soon your room is filled with refreshing ions.



#### What Are Negative Ions?



#### An Abundance of Natural Negative Ions

8,500 to 12,000 ions/cc



Park Fountains



Waterfalls



Forests

3

## Catechin Air Purifying Filter Cleans the Air

### Removes Air Pollutants and Deactivates About 98% of the Captured Viruses

The catechin air purifying filter catches dust mites, cigarette smoke, and other common pollutants. It also traps and

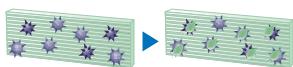
inactivates microscopic viruses and bacteria, rendering them harmless and impeding the spread of contagious diseases.



#### Virus Deactivation Comparison

##### Filter Treated with Catechin

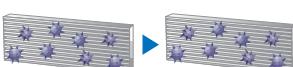
98% of the captured viruses are inactivated.



After 6 hours of use

##### Untreated Filter

The captured viruses remain active.



After 6 hours of use

\* Virus activity rate after six hours at room temperature

##### Test conditions

Catechin amount: 2.5 g/m<sup>2</sup>, Virus studied: Coxsackie virus, which is tougher to deactivate than influenza virus.

\* This data is for the filter unit only. It does not indicate the effect in actual operation.

# Panasonic's Four Keys to More Comfort

## ECONOMICAL

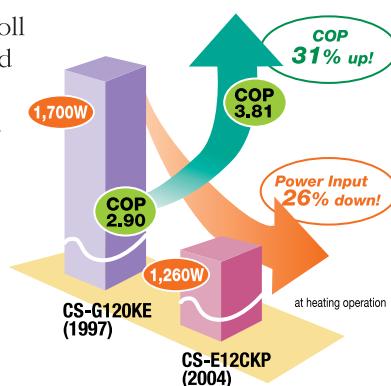
### Energy-Saving



Panasonic's new air conditioner models save even more energy than before in all capacity ranges.

Our CS-E12CKP boasts a COP (coefficient of performance) of 3.81, which means you can run your air conditioner for longer periods with less worry about the electric bill. A host of Panasonic original technologies team up to save energy, including our new high-efficiency e-scroll Compressor and a new heat exchanger with a larger surface area.

Comparison of COP and Power Input



## COMFORTABLE



### Super Quiet



The indoor unit operates at a whisper-quiet 26 dB. You can also press the Quiet Mode button to lower the operating noise 3 dB. We've reduced the noise of the outdoor unit, too, with the e-scroll Compressor and 2-Wing Fan. You can run the air conditioner at night and enjoy a deeper, more comfortable sleep, and without bothering your neighbours.

**26dB**  
Indoor<sup>\*1</sup>



**46dB**  
Outdoor<sup>\*2</sup>



\*1 CS-E9CKP: In cooling mode with low fan speed

\*2 CU-E9CKP5: In cooling mode

## CONVENIENT

### Luminous Remote Controller



Luminous buttons make it easier to find and use the remote controller even in the dark. The glow comes from a naturally luminous material, so no battery power is required.

Applicable Models: All Split Type



## DURABLE



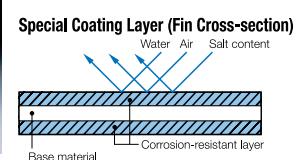
### Blue Fin Condenser

Condensers can take a beating from exposure to salty air, rain and other corrosive factors.

Panasonic has tripled the life of our condensers with an original anti-rust coating.



Applicable Models:  
Single Split Type,  
Floor or Ceiling Dual Mountable Type



#### Cyclic Corrosion Test Results

Blue Fins



Non-Blue Fins



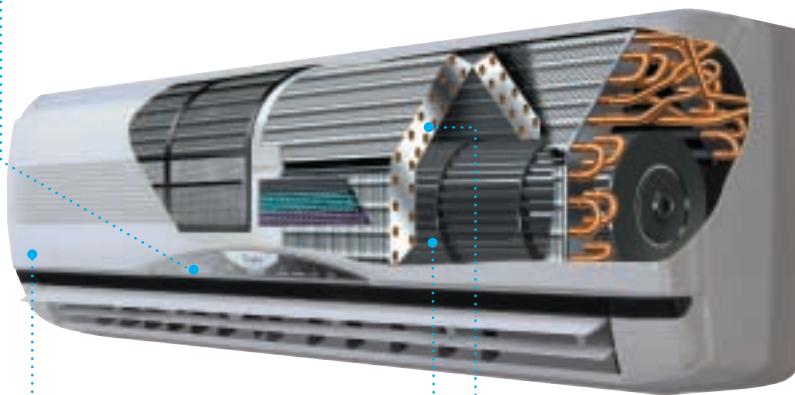
This was tested by:  
1. Matsushita Air Conditioning R&D Centre Sdn. Bhd.  
2. A third party authorized research institute in Malaysia.

## Technologies that Deliver New Levels of Comfort



Mirror-finish indicator panel

### Stylish Design



CS-E9CKP/CS-E12CKP/CS-E15CKP

### Removable, Washable Panel



Applicable Models: Wall-Mounted Type except CS-XE9CKR, CS-XE12CKR

### Cross-Flow Fan

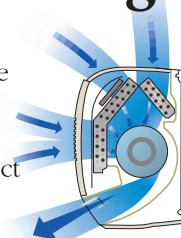
We increased the diameter of the cross-flow fan to improve the airflow path. This maintains super-quiet operation while the increased airflow sends clean, comfortable air to every corner of the room.



Applicable Models: Wall-Mounted Type

### Double-Bend Heat Exchanger

The double-bend structure gives the heat exchanger a large surface area despite its compact size, for higher efficiency.



Now we've improved heat-exchange efficiency even further by increasing to 15 the number of rows of copper piping.

Applicable Models: Wall-Mounted Type

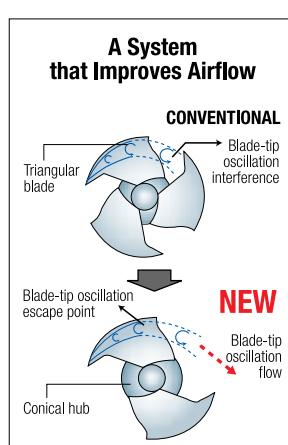


### 2-Wing Fan

The new 2-Wing Fan improves efficiency by pulling in more air.

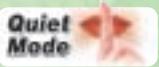


Applicable Models:  
CU-XE9CKR, CU-XE12CKR,  
CU-E9CKP5, CU-E12CKP5, CU-E15CKP5,  
CU-A7CKP5, CU-A9CKP5, CU-A12CKP5,  
CU-C7CKP5, CU-C9CKP5, CU-C12CKP5



## REVERSE CYCLE MODELS

NEW

**O2shower**

ECO Power Inverter

**CS-XE9CKR**  
(CU-XE9CKR)

26dB

2.60kW  
(0.60 ~ 3.00kW)  
8,870Btu/h  
(2,050 ~ 10,200Btu/h)  
(240V)3.60kW  
(0.60 ~ 5.00kW)  
12,300Btu/h  
(2,050 ~ 17,100Btu/h)  
(240V)**CS-XE12CKR**  
(CU-XE12CKR)

26dB

3.45kW  
(0.60 ~ 4.00kW)  
11,800Btu/h  
(2,050 ~ 13,600Btu/h)  
(240V)4.80kW  
(0.60 ~ 6.50kW)  
16,400Btu/h  
(2,050 ~ 22,200Btu/h)  
(240V)

26dB Super Quiet: In cooling mode with low fan speed

■ Cooling ■ Heating

**Three Key Features of the New O2 Shower Models**

**O<sub>2</sub> Shower 1**  
Enhances Comfort

Oxygen-rich air is delivered into the room, keeping the overall oxygen concentration at around 21% or higher — about the same as in the natural environment.

**Ion Freshener 2**  
Refreshes

Around 20,000 negative ions/cc are generated to freshen the room. It's like being next to a waterfall or in a forest.

**Catechin Air Purifying Filter 3**  
Cleans the Air

Catechin is a natural substance that removes pollutants — dust, mites, particles of cigarette smoke and more — from the room air. It also deactivates about 98% of the captured viruses.

## Convenient Functions for Extra Comfort (Look for these symbols when selecting the model you need.)

Inverter Control

Quiet Mode

Hot Start Control

Long Piping

 O<sub>2</sub> Shower

Auto Changeover

Self-Diagnostic Function

\* Numbers indicate the maximum pipe length.

Ion Freshener

Soft Dry Operation Mode

Standby Function

10A

Plug Type & Ampere Capacity  
(The plug must be installed.)

Catchin Air Purifying Filter

24-Hour ON &amp; OFF Real Setting Timer

Blue Fin Condenser

Random

Odour-Removing Function

Personal Airflow Creation

Enamel Finished Cabinet

Top-Panel Maintenance Access

Luminous Remote Controller

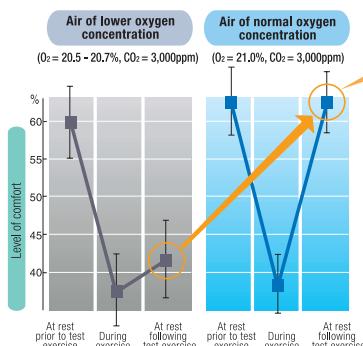
One-Touch Air Filter

# O<sub>2</sub> Shower: For Clean, Oxygen-Rich Air

O<sub>2</sub> Shower air conditioners are equipped with Panasonic's original Oxygen Enrichment Membrane system. This system produces air with an oxygen concentration of around 30% and adds it to your room, helping to keep the oxygen concentration of

the room's air at around 21% or higher — about the same as in the natural environment. Studies have shown that this kind of environment has a comforting effect on people. (See graph at right.)

## Maintaining the Oxygen Concentration Improves Comfort

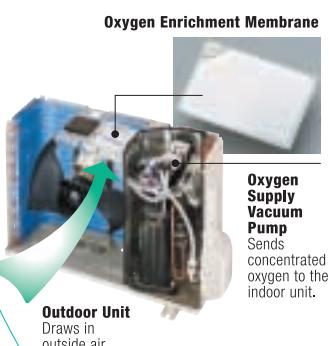


### Improves comfort

A study of brain waves has shown that oxygen-rich air enables quicker recovery from emotional stress, and also enhances comfort.

For two minutes, quietly breathe in air with a normal oxygen concentration ( $O_2 = 21.0\%$ ,  $CO_2 = 3,000\text{ppm}$ ) or air with a lower oxygen concentration ( $O_2 = 20.5\%$  to  $20.7\%$ ,  $CO_2 = 3,000\text{ ppm}$ ), then take Kraepelin's stress test for five minutes and remain quiet for two more minutes. The calculation model based on the right frontal  $\alpha$ -wave frequency rhythm (corresponding to a stimulating sensation) and the left frontal  $\alpha$ -wave frequency rhythm (corresponding to pleasant and unpleasant feelings) was given the 2002 Achievement Award by the Ministry of Education, Culture, Sports, Science and Technology in Japan.

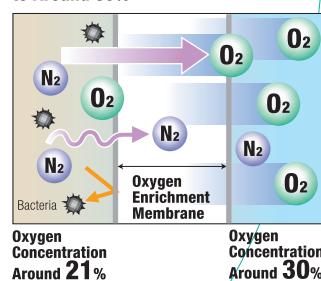
## Special Membrane Raises Oxygen Concentration to Around 30%



The outdoor unit draws in air and forces it through an oxygen enrichment membrane. The membrane is a special film that lets oxygen molecules pass through about 2.5 times faster than nitrogen molecules, so it produces air with an oxygen concentration of

around 30%. The oxygen enrichment membrane also has no holes, so no dust particles, bacteria, or other harmful elements can pass into the room. This means you get only clean, fresh, oxygen-rich air to breathe.

## How the Oxygen Enrichment Membrane Raises the Oxygen Concentration to Around 30%



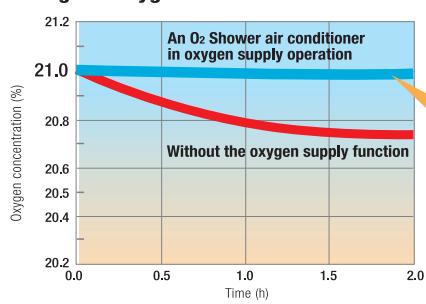
## Keeps Oxygen Concentration of the Room's Air at Around 21% or Higher

Air with an oxygen concentration of around 30% is supplied to the indoor unit, helping to maintain an overall room oxygen concentration of

around 21% or higher. The oxygen supply function can be used by itself, or together with cooling, heating or drying.

## The O<sub>2</sub> Shower Keeps the Oxygen Concentration at Around 21% or Higher.

### Change in Oxygen Concentration



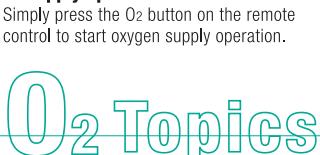
The oxygen concentration remains at around 21% or higher even with four people in a closed room for two hours.

Without an extra oxygen supply, the oxygen concentration drops.

### Test Conditions /

Number of persons present: 4 (2 adults and 2 children), Room area: 13 m<sup>2</sup>, Ventilation frequency: Approx. 1 time/30 min, Outdoor temperature: 20°C, When the oxygen supply system is operated alone.

\* Panasonic measurements / The oxygen concentration can vary depending on room shape, personal oxygen consumption and other factors.



The O<sub>2</sub> supply monitor lights when the O<sub>2</sub> button is pressed.

**O<sub>2</sub> supply operation button**  
Simply press the O<sub>2</sub> button on the remote control to start oxygen supply operation.

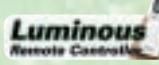
## O<sub>2</sub> Topics

### An oxygen concentration of less than 18% may lead to an oxygen deficiency!

The relationship between oxygen concentration and oxygen deficiency disorders such as anoxia (based on Henderson's classification)

Concentration of oxygen in the air	Anoxia and other symptoms	An oxygen concentration of at least 18% is required in work environments.
18%	Safety zone borderline	
16~12%	An increase in pulse and respiratory rates, headaches, a lack of concentration	
14~9%	Reduced judgment capability, nausea, a rise in body temperature	
10% or lower	Hallucination, loss of consciousness	

A sufficient oxygen supply (the maintenance of an adequate oxygen concentration) is extremely important for overall health.

**Inverter 2.5-4.5kW Class****REVERSE CYCLE MODELS****R410A****ECO Power Inverter****CS-E9CKP  
(CU-E9CKP5)**

26dB

2.60kW  
(0.60 ~ 3.00kW)  
8,870Btu/h  
(2,050 ~ 10,200Btu/h)  
(230V)

3.60kW  
(0.60 ~ 5.00kW)  
12,300Btu/h  
(2,050 ~ 17,100Btu/h)  
(230V)

**CS-E12CKP  
(CU-E12CKP5)**

3.45kW  
(0.60 ~ 4.00kW)  
11,800Btu/h  
(2,050 ~ 13,600Btu/h)  
(230V)

4.80kW  
(0.60 ~ 6.50kW)  
16,400Btu/h  
(2,050 ~ 22,200Btu/h)  
(230V)

**CS-E15CKP  
(CU-E15CKP5)**

4.40kW  
(0.60 ~ 5.00kW)  
15,000Btu/h  
(2,050 ~ 17,100Btu/h)  
(230V)

5.30kW  
(0.60 ~ 6.80kW)  
18,100Btu/h  
(2,050 ~ 23,200Btu/h)  
(230V)



26dB Super Quiet: In cooling mode with low fan speed

■ Cooling ■ Heating

**The Difference in Power and Comfort:  
Advanced Inverter Performance** **Inverter Control****Powerful and Economical**

The inverter circuit provides optimum power control and extremely efficient operation by changing the frequency of the power supply.

So even though you get speedy, flexible operation, you use less electricity than conventional units. What's more, low energy consumption means operation that's more economical than ever.



Setting Temperature

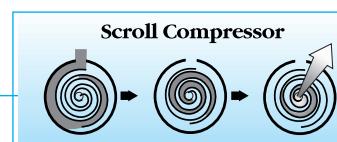
**Quick****ECO Power Inverter****1/2 Time**

Non-inverter

\* The graph is a representation of temperature changes during heating.

**e-scroll Compressor Boosts Inverter Power****e-scroll Compressor**

At the heart of each Panasonic Inverter models is the innovative new e-scroll Compressor — the world's most compact and highest-performance compressor mechanism. The e-scroll Compressor's smooth, consistent operation achieves the world's highest efficiency.



e-scroll: The "e" is for "efficient."

**PFC Control Inverter**

Inverter control saves energy and gives you more temperature control flexibility by varying the air conditioner's output. This year's inverter models are more energy-efficient than ever, thanks to newly developed PFC (power-factor corrector) circuitry that reduces electrical loss from the power source and increases maximum input.

# Inverter 5.5-7.0kW Class

## REVERSE CYCLE MODELS

**NEW**

**R410A**

**Ion Freshener**

**Catechin Filter**

**Triple Deodorizing Filter**

**Luminous Remote Controller**

**Quiet Mode**

998mm

**ECO Power Inverter**

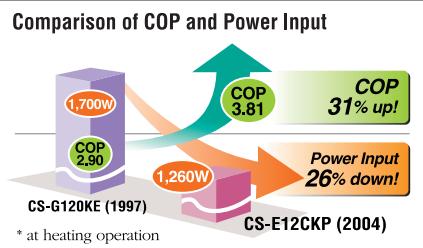
<b>CS-E18CKR (CU-E18CKR)</b>	<b>CS-E21CKR (CU-E21CKR)</b>	<b>CS-E24CKR (CU-E24CKR)</b>
5.30kW (0.90 ~ 6.00kW) 18,100Btu/h (3,070 ~ 20,500Btu/h) (240V)	6.60kW (0.90 ~ 8.00kW) 22,500Btu/h (3,070 ~ 27,300Btu/h) (240V)	6.30kW (0.90 ~ 7.10kW) 21,500Btu/h (3,070 ~ 24,200Btu/h) (240V)
7.20kW (0.90 ~ 8.50kW) 24,600Btu/h (3,070 ~ 29,000Btu/h) (240V)	7.20kW (0.90 ~ 8.10kW) 24,600Btu/h (3,070 ~ 27,600Btu/h) (240V)	8.60kW (0.90 ~ 9.90kW) 29,300Btu/h (3,070 ~ 33,800Btu/h) (240V)

**Blue Fin Condenser**

**Icons:** (Fan), (Ion), (Auto Changeover), (3D), (Catechin Filter), (Deodorizing Filter), (mode), (20m), (30m), (15A), (Random), (Power Input), (COP), (Set Temperature), (Room Temperature), (Outdoor Temperature), (Heat), (Dry), (Cool).

## Energy-Saving

Panasonic's new air conditioner models save even more energy than before in all capacity ranges. Our CS-E12CKP boast a COP (coefficient of performance) of 3.81, which means you can run your air conditioner for longer periods with less worry about the electric bill.



## Super Quiet

The indoor unit operates at a whisper-quiet 26 dB. You might not even hear it running, which makes it ideal for bedrooms, living rooms, or anyplace you watch television or listen to music. We've cut noise in the outdoor unit, too, with the e-scroll Compressor and 2-Wing Fan. You can run the air conditioner at night and enjoy a deeper, more comfortable sleep without bothering your neighbours.

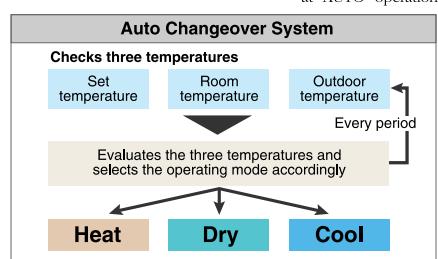


\*1 CS-E9CKP: In cooling mode with low fan speed  
\*2 CU-E9CKP: In cooling mode

## Auto Changeover

Sensors measure the room and outside temperatures periodically. Based on these temperatures and the temperature you've set, the microcomputer determines the most suitable operating mode as time passes.

\* at "AUTO" operation



## Convenient Functions for Extra Comfort

(Look for these symbols when selecting the model you need.)

Inverter Control	Powerful Mode	Removable, Washable Panel	Enamel Finished Cabinet
Ion Freshener	Quiet Mode	One-Touch Air Filter	Top-Panel Maintenance Access
Catchin Air Purifying Filter	Auto Changeover	Hot Start Control	Long Piping
Triple Deodorising Filter (Solar Refreshing)	Soft Dry Operation Mode	Self-Diagnostic Function	* Numbers indicate the maximum pipe length. Plug Type & Ampere Capacity (The plug must be installed.)
Odour-Removing Function	24-Hour ON & OFF Real Setting Timer	Standby Function	Random Auto Restart
Luminous Remote Controller	Personal Airflow Creation	Blue Fin Condenser	

# S I N G L E S P L I T T Y P E

## 5.3-8.0kW Class

### REVERSE CYCLE MODELS

**NEW**

998mm

**CS-A18CKR**  
 (CU-A18CKR)
 

5.30kW 18,100Btu/h (240V)	5.75kW 19,600Btu/h (240V)
---------------------------------	---------------------------------

**CS-A24CKR**  
 (CU-A24CKR)
 

7.03kW 24,000Btu/h (240V)	7.80kW 26,600Btu/h (240V)
---------------------------------	---------------------------------

**CS-A28CKR**  
 (CU-A28CKR)
 

8.00kW 27,300Btu/h (240V)	8.80kW 30,000Btu/h (240V)
---------------------------------	---------------------------------

Cooling
Heating

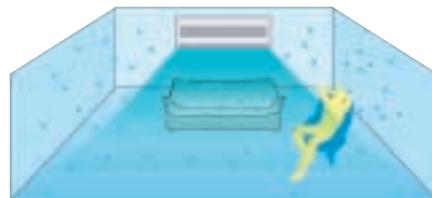
### ***Ion Freshener Added for Even Greater Comfort***



#### **Ion Freshener**

It is known that areas rich in negative ions, like near waterfalls and forests, generally make people feel refreshed.

With new Panasonic Split Type Air Conditioner, the same refreshing feeling can be felt just by pushing a single button.



**Approx. 20,000 ions/cc**



#### **Personal Airflow Creation**

Combined patterns create the exact airflow you want — with remote control convenience.



#### **Up & Down Airflow — 5 Patterns + Auto**

Use the remote control to select from five vertical (up and down) airflow patterns, or choose Auto and just relax.



#### **Left & Right Airflow — 5 Patterns + Auto**

Use the remote control to select from five horizontal (left and right) airflow patterns, or choose Auto for automatic adjustment.



**Convenient Functions for Extra Comfort** (Look for these symbols when selecting the model you need.)



**Ion Freshener**



**Catechin Air Purifying Filter**



**Triple Deodorising Filter (Solar Refreshing)**



**Odour-Removing Function**



**Luminous Remote Controller**



**Powerful Mode**



**Quiet Mode**



**Auto Changeover**



**Automatic Operation Mode (Cooling Only Models)**



**Soft Dry Operation Mode**



**24-Hour ON & OFF Real Setting Timer**



**Personal Airflow Creation**

# 5.4-8.0kW Class

## COOLING ONLY MODELS

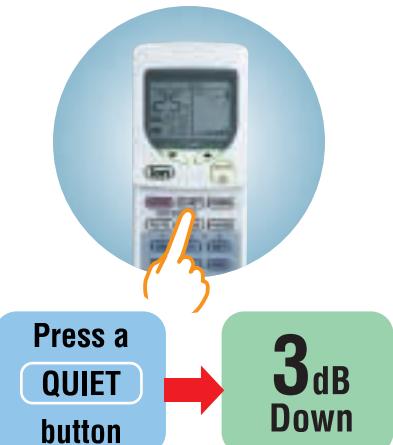
\* Cooling Only Models are available only in Australia.



## Advanced Features Further Enhance Comfort

### Quiet Mode

Simply press a button to reduce the indoor unit operating sound by about 3 dB. This function is especially convenient when sleeping.



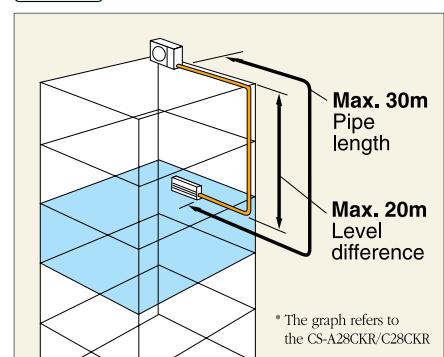
### Powerful Mode

At the touch of a single button, this mode delivers a powerful blast of cool or warm air for faster comfort. When cooling, for example, the set temperature level drops by 3°C, the airflow switches to maximum strength, and the airflow direction is angled slightly downward for 15 minutes of powerful cooling. This is great when you've just returned home or have guests over and want quick comfort.



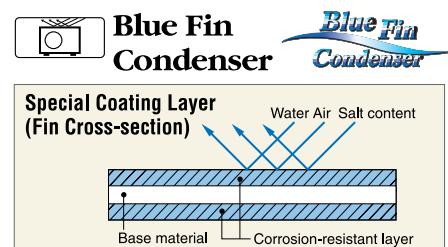
When you've just come home on a hot day and want quick cooling.

### Long Piping 30m



\* The graph refers to the CS-A28CKR/C28CKR.

\* Extendable length varies by model.  
\* If the piping is extended past the basic pipe length, there's an extra charge for additional refrigerant.



- Removable, Washable Panel
- One-Touch Air Filter
- Hot Start Control

- Circulation Operation Mode
- Blue Fin Condenser
- Enamel Finished Cabinet

- Top-Panel Maintenance Access
- Long Piping 30m
  - \* Numbers indicate the maximum pipe length.
- Plug Type & Ampere Capacity  
(The plug must be installed.)

- Random Auto Restart
- Outdoor Power Supply

S I N G L E S P L I T T Y P E

**2.0-3.5kW Class**

### REVERSE CYCLE MODELS



#### CS-A7CKP (CU-A7CKP5)

2.05kW  
6,990Btu/h  
(240V)

#### CS-A9CKP (CU-A9CKP5)

2.65kW  
9,040Btu/h  
(240V)

#### CS-A12CKP (CU-A12CKP5)

3.57kW  
12,170Btu/h  
(240V)

26dB

26dB

26dB

Ion

Odour

Deodoriser

Cooling

Heating

A7CKP/A9CKP A12CKP

10A Random

26dB Super Quiet: In cooling mode with low fan speed

■ Cooling ■ Heating

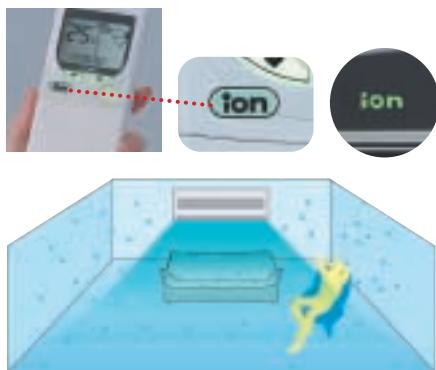
## Enhanced Efficiency for Powerful, Comfortable Operation



#### Ion Freshener

It is known that areas rich in negative ions, like near waterfalls and forests, generally make people feel refreshed.

With new Panasonic Split Type Air Conditioner, the same refreshing feeling can be felt just by pushing a single button.

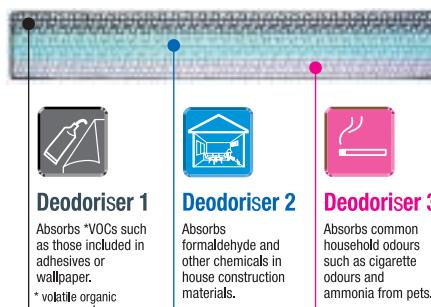


Approx. 20,000 ions/cc

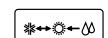


#### Triple Deodorising Filter

Three catalysts work together to reduce certain kinds of odours. Their triple-action effect rids the air of a wide variety of odour-causing substances, from cigarette odours to chemical vapors. Exposing the filter to sunlight regenerates the deodorizing effect.



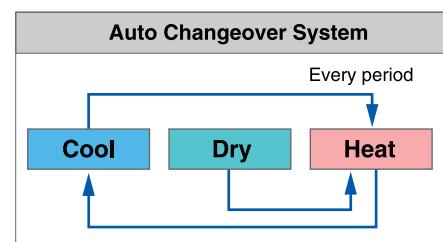
#### Catechin Air Purifying Filter



#### Auto Changeover (Reverse Cycle Models)

\* at "AUTO" operation

The compressor's on-off operation is monitored every hour. When the microcomputer finds that a mode change is necessary, it determines the most suitable operating mode based on the room temperature and set temperature. This eliminates the need for you to change the operating mode manually, even when the outside temperature changes. The microcomputer maintains the set temperature, automatically, for maximum comfort always.



#### Convenient Functions for Extra Comfort

(Look for these symbols when selecting the model you need.)



Ion Freshener



Odour-Removing Function



Quiet Mode



Soft Dry Operation Mode



Catechin Air Purifying Filter



Luminous Compact  
Remote Controller



Auto Changeover  
(Every period sensor operation)



24-Hour ON & OFF Real  
Setting Timer



Triple Deodorising Filter  
(Solar Refreshing)



Powerful Mode



Automatic Operation Mode  
(Cooling Only Models)



Airflow Direction Control  
(Up & Down)

## 2.0-3.5kW Class

### COOLING ONLY MODELS

\* Cooling Only Models are available only in Australia.



#### CS-C7CKP (CU-C7CKP5) 26dB

2.05kW  
6,990Btu/h  
(240V)



#### CS-C9CKP (CU-C9CKP5) 26dB

2.70kW  
9,200Btu/h  
(240V)



#### CS-C12CKP (CU-C12CKP5)

3.57kW  
12,170Btu/h  
(240V)



#### Blue Fin Condenser



26dB Super Quiet: In cooling mode with low fan speed

Cooling

## Greater Power and Comfort, with a Compact Design

### Quiet Mode

Simply press a button to reduce the indoor unit operating sound by about 3 dB. This function is especially convenient when sleeping.



Press a  
**QUIET**  
button → **3 dB  
Down**

### Powerful Mode

At the touch of a single button, this mode delivers a powerful blast of cool or warm air for faster comfort. When cooling, for example, the set temperature level drops by 3°C, the airflow switches to maximum strength, and the airflow direction is angled slightly downward for 15 minutes of powerful cooling. This is great when you've just returned home or have guests over and want quick comfort.



When you've just come home on a hot day and want quick cooling.

### Luminous Remote Controller

Luminous buttons make it easier to find and use the remote controller even in the dark. The glow comes from a naturally luminous material, so no battery power is required.



Manual Horizontal-Airflow direction Control

Removable, Washable Panel

One-Touch Air Filter

Hot Start Control

Circulation Operation Mode

Blue Fin Condenser

Enamel Finished Cabinet

Top-Panel Maintenance Access

Long Piping

\* Numbers indicate the maximum pipe length.

**10A** Plug Type & Ampere Capacity (The plug must be installed.)

Random Auto Restart

# MULTI SPLIT TYP

## COOLING ONLY MODELS

**26dB** Super Quiet: In cooling mode with low fan speed  
█ Cooling █ Heating

**3 Rooms**



### CS-C9CKPG x 3 (CU-3C20CKP5G) 2-Compressor Triple Split Type **26dB**

One-Unit Operation (B)	One-Unit Operation (A1 or A2)	Two-Unit Operation (B + A or B + A2)
<b>2.40kW</b> 8,180Btu/h (240V)	<b>2.82kW</b> 9,620Btu/h (240V)	<b>5.22kW</b> 17,800Btu/h (240V)
Two-Unit Operation (A1 + A2)	Three-Unit Operation (B + A1 + A2)	
<b>3.60kW</b> 12,300Btu/h (240V)	<b>6.00kW</b> 20,500Btu/h (240V)	



**2 Rooms**



### CS-C9CKPG x 2 (CU-2C14CKP5G) 1-Compressor Dual Split Type **26dB**

One-Unit Operation	Two-Unit Operation
<b>2.82kW</b> 9,620Btu/h (240V)	<b>3.62kW</b> 12,300Btu/h (240V)



### CS-C9CKPG x 2 (CU-2C18CKP5G) 2-Compressor Dual Split Type **26dB**

One-Unit Operation	Two-Unit Operation
<b>2.44kW</b> 8,320Btu/h (240V)	<b>4.88kW</b> 16,600Btu/h (240V)



\* Cooling Only Models are available only in Australia.

## REVERSE CYCLE MODELS

**2 Rooms**



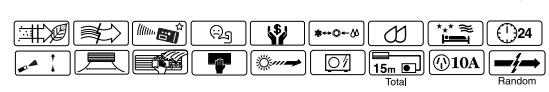
### CS-MA95KE x 2 (CU-MA185KE) 2-Compressor Dual Split Type **26dB**

One-Unit Operation	
<b>2.65kW</b> 9,040Btu/h (230V)	<b>3.15kW</b> 10,700Btu/h (230V)
Two-Unit Operation	
<b>2.65kW x 2</b> 9,040Btu/h x 2 (230V)	<b>3.15kW x 2</b> 10,700Btu/h x 2 (230V)



### CS-MA125KE x 2 (CU-MA245KE) 2-Compressor Dual Split Type

One-Unit Operation	
<b>3.50kW</b> 11,900Btu/h (230V)	<b>4.10kW</b> 14,000Btu/h (230V)
Two-Unit Operation	
<b>3.50kW x 2</b> 11,900Btu/h x 2 (230V)	<b>4.10kW x 2</b> 14,000Btu/h x 2 (230V)



## REVERSE CYCLE MODELS

Cooling Heating



Luminous  
Remote Controller

Blue Fin  
Condenser

Indoor Unit:  
Installed in a ceiling



Indoor Unit:  
Installed on a floor



### CS-A12CTP

(CU-A12CTP5)

3.52kW  
12,000Btu/h  
(240V)

4.00kW  
13,600Btu/h  
(240V)

### CS-A18CTP

(CU-A18CTP5)

5.30kW  
18,100Btu/h  
(240V)

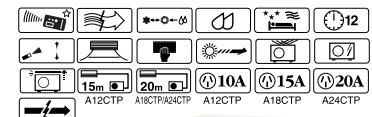
6.00kW  
20,500Btu/h  
(240V)

### CS-A24CTP

(CU-A24CTP5)

6.20kW  
21,100Btu/h  
(240V)

7.10kW  
24,200Btu/h  
(240V)



CU-A18CTP5/A24CTP5

## Compact, Stylish Design and Flexible Installation

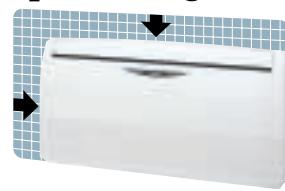
### Stylish New Design



### Powerful yet Energy-Saving



### Space-Saving



Surface area  
**23 %  
Down!**

### Greater Airflow Comfort

A new flap design and Auto Air Swing function optimise room comfort by giving you finer control over the airflow direction.



**When Cooling**

Flap: Upward Airflow



**When Heating**

Flap: Downward Airflow



The cool airflow spreads  
throughout the room



Warms the feet area

### Convenient Functions for Extra Comfort

(Look for these symbols when selecting the model you need.)

Catechin Air Purifying Filter

Triple Deodorising Filter  
(Solar Refreshing)

Catechin Deodorising Air  
Purifying Filter

Odour-Removing Function

Luminous Remote Controller

Powerful Mode

Economy Mode

Quiet Mode

Auto Changeover  
(Reverse Cycle Models/  
Every period Sensor Operation)

Automatic Operation Mode  
(Cooling Only Models)

Soft Dry Operation Mode

Sleep Mode Auto-Control

24-Hour ON & OFF  
Real Setting Timer

12-Hour ON & OFF  
Dual Setting Timer

Airflow Direction Control  
(Up & Down)

Manual Horizontal-Airflow  
Direction Control

Removable, Washable Panel

One-Touch Air Filter

Hot Start Control

Circulation Operation Mode

Blue Fin Condenser

Enamel Finished Cabinet

Top-Panel Maintenance  
Access

Long Piping

\* when extending pipes, be sure to replenish the refrigerant gas.  
\* Extensible length varies by model.

**Plug Type & Ampere Capacity**  
(The plug must be installed.)

Random Auto Restart

Random

# Split Type Feature Comparison

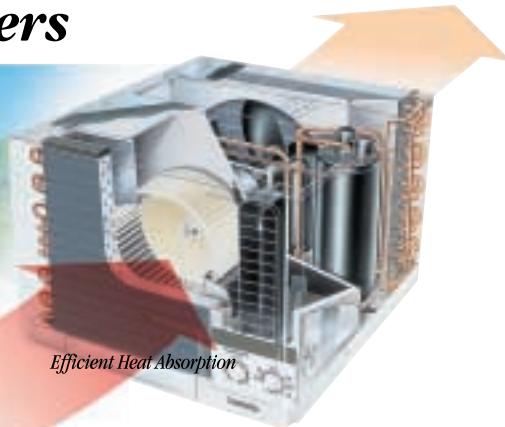
	CS-XE9CKR CS-XE12CKR	CS-E9CKP CS-E12CKP CS-E15CKP	CS-E18CKR CS-E21CKR CS-E24CKR	
Refrigerants Type	R410A	R410A	R410A	
Healthy Air Quality	O <sub>2</sub> Shower		<input type="radio"/>	
	Ion Freshener		<input type="radio"/>	<input type="radio"/>
	Catechin Air Purifying Filter		<input type="radio"/>	<input type="radio"/>
	Catechin Deodorising Air Purifying Filter			
	Triple Deodorising Filter (Solar Refreshing)			<input type="radio"/>
	Odour-Removing Function		<input type="radio"/>	<input type="radio"/>
	Removable, Washable Panel			<input type="radio"/>
	One-Touch Air Filter		<input type="radio"/>	<input type="radio"/>
Comfortable	Personal Airflow Creation		<input type="radio"/>	<input type="radio"/>
	Airflow Direction Control (Up & Down)			
	Manual Horizontal Airflow Direction Control			
	Circulation Operation Mode			
	Hot Start Control		<input type="radio"/>	<input type="radio"/>
	Inverter Control		<input type="radio"/>	<input type="radio"/>
	Powerful Mode			<input type="radio"/>
	Economy Mode			
	Quiet Mode		<input type="radio"/>	<input type="radio"/>
	Soft Dry Operation Mode		<input type="radio"/>	<input type="radio"/>
Convenient	Sleep Mode Auto-Control			
	24-Hour ON & OFF Real Setting Timer		<input type="radio"/>	<input type="radio"/>
	12-Hour ON & OFF Dual Setting Timer			
	Luminous Remote Controller		<input type="radio"/>	<input type="radio"/>
	Auto Changeover (Inverter)		<input type="radio"/>	<input type="radio"/>
	Auto Changeover			
Reliable	Automatic Operation Mode (Cooling Only)			
	Blue Fin Condenser		<input type="radio"/>	<input type="radio"/>
	Auto Restart		<input type="radio"/> (Random)	<input type="radio"/> (Random)
	Self-Diagnostic Function		<input type="radio"/>	<input type="radio"/>
	Standby Function		<input type="radio"/>	<input type="radio"/>
	Long Piping		15 m	15 m 20 m (E18/E21) 30 m (E24)
	Plug Type & Ampere Capacity <small>* The plug must be installed.</small>			 
	Enamel Finished Cabinet		<input type="radio"/>	<input type="radio"/>
	Top-Panel Maintenance Access		<input type="radio"/>	<input type="radio"/>

Single Split Type					Floor or Ceiling Split Type	Multi Split Type	
	CS-C7CKP CS-C9CKP CS-C12CKP	CS-A7CKP CS-A9CKP CS-A12CKP	CS-C18CKR CS-C24CKR CS-C28CKR	CS-A18CKR CS-A24CKR CS-A28CKR	CS-A12CTP CS-A18CTP CS-A24CTP	CS-MA95KE CS-MA125KE	CS-C9CKPG
	R22	R22	R22	R22	R22	R22	R22
	○	○	○	○			
	○	○	○	○		○	
						○	
	○	○	○	○			○
	○	○	○	○	○	○	○
	○	○	○	○		○	○
	○	○	○	○		○	○
			○	○			
	○	○			○	○	○
	○	○			○	○	○
	○		○				
		○		○	○	○	
	○	○	○	○		○	○
						○	
	○	○	○	○		○	○
						○	
	○	○	○	○		○	○
						○	
	○	○	○	○		○	○
						○	
	○	○	○	○		○	○
						○	
	○		○				
	○ (Random)	○ (Random)	○ (Random)	○ (Random)	○ (Random)	○ (Random)	○ (Random)
	10 m (C7/C9) 15 m (C12)	10 m (A7/A9) 15 m (A12)	25 m (C18/C24) 30 m (C28)	25 m (A18/A24) 30 m (A28)	15 m (A12) 25 m (A18/A24)	15 m (Total)	15 m (Total)
	④ 10 A	④ 10 A	④ 15 A (C18) ④ 20 A (C24) 25A Outdoor Power (C28)	④ 10 A (A18) ④ 20 A (A24) 25A Outdoor Power (A28)	④ 10 A (A12) ④ 15 A (A18) ④ 20 A (A24)	④ 10 A	Outdoor Power Supply
	○	○	○	○	○	○	○
	○	○	○	○	○		

\* Total room / One room

*Efficient Heat Discharge*

## Efficient New Air Conditioners Combine Stylish Looks with Quiet Performance



*Advanced Heat Exchange System*

### Convenient Function



#### Removable, Washable Intake Grille

The front grille is easy to keep clean. It removes quickly with a simple one-step operation and can be washed in water.



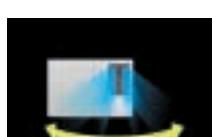
#### Pop-Out Air Filter

Simply open the grille slightly, then slide the filter out for quick and easy cleaning.



#### Air Swing

The air circulation vents constantly swing from side to side spreading warm or cool air across the room. Or, you can turn off the air swing feature to direct airflow in one direction.



#### 4-Way Air Deflection System

The adjustable front louvers let you direct the airflow both horizontally and vertically. So, you can warm or cool the room evenly or concentrate the warm or cool air in one area.



#### Ventilation Control

To freshen the room by discharging stale room air, slide the control to OPEN. To circulate the air in the room, slide it to CLOSE.



#### De-Icing System

(Reverse Cycle Models)

New electronic de-icing system precisely controls defrosting.



#### Slide-Out Chassis

The two-piece construction of our window-type air conditioners allows easy installation, even in high places.

First install the lightweight cabinet, then just slide in the main chassis.



#### Slinger-Up System

(Cooling Only Models)

A rotating slinger picks up drainage water which is then evaporated by heat from the condenser.

So you get improved cooling, without the need for troublesome drainage pipe installation.



#### Fan Speeds



#### Cooling Speeds



#### Heating Speeds

\* Numbers (to the right of logo marks) indicate number of available speeds.

### Window Type Feature Comparison

		CW-C70KR CW-C90KR	CW-C120VR	CW-C170KR CW-C200KR CW-C240KR	CW-A90VR CW-A120VR	CW-A170KR CW-A200KR CW-A240KR
Airflow	Air Swing		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	4-Way Air Deflection System		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Freshening	Removable, Washable Intake Grille		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Pop-Out Air Filter		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Ventilation Control		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Convenience	De-Icing System		—	—	—	<input type="radio"/>
	Slide-Out Chassis		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Slinger-Up System		<input type="radio"/>	<input type="radio"/>	—	—
	Fan Speeds		<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>
	Cooling Speeds		<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
	Heating Speeds		—	—	<b>2</b>	<b>2</b>

The starting current for all models is 45 A or less.

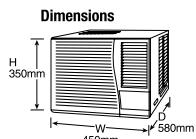
\* Cooling Only Models are available only in Australia.

Cooling Heating

#### COOLING ONLY MODELS

**CW-C70KR** | 2.05kW  
7,000Btu/h  
(240V)

**CW-C90KR** | 2.60kW  
8,870Btu/h  
(240V)



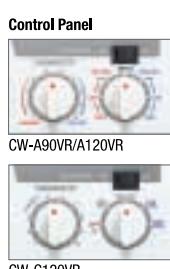
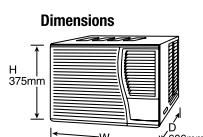
•-10A



#### REVERSE CYCLE MODELS

**CW-A90VR** | 2.70kW  
9,200Btu/h  
(240V) | 2.61kW  
8,900Btu/h  
(240V)

**CW-A120VR** | 3.45kW  
11,800Btu/h  
(240V) | 3.20kW  
10,900Btu/h  
(240V)

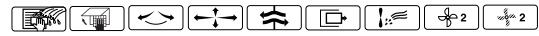


•-10A



#### COOLING ONLY MODEL

**CW-C120VR** | 3.60kW  
12,300Btu/h  
(240V)

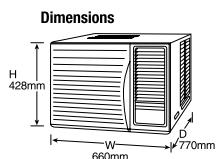


#### REVERSE CYCLE MODELS

**CW-A170KR** | 4.30kW  
14,700Btu/h  
(240V) | 3.90kW  
13,300Btu/h  
(240V)

**CW-A200KR** | 4.90kW  
16,700Btu/h  
(240V) | 4.45kW  
15,200Btu/h  
(240V)

**CW-A240KR** | 6.00kW  
20,500Btu/h  
(240V) | 4.90kW  
16,700Btu/h  
(240V)



•-10A



•-10A

•-15A

CW-A200KR  
CW-C200KR

•-20A

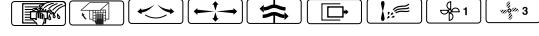
CW-A240KR  
CW-C240KR

#### COOLING ONLY MODELS

**CW-C170KR** | 4.70kW  
16,000Btu/h  
(240V)

**CW-C200KR** | 5.33kW  
18,200Btu/h  
(240V)

**CW-C240KR** | 6.45kW  
22,000Btu/h  
(240V)



# Technical Specifications

## Inverter Type

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

Model No.	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Voltage	Running Current	Power Input	EER COP	Star Rating	Sound Pressure Level <sup>1</sup> dB (A)		Sound Power Level dB (A)	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length <sup>2</sup>
	kW	Btu/h	kW	Btu/h	L/s	L/h	V	A	kW	W/W	Inside (Hi/Lo)	Outside (Hi/Lo)	Outside	kg	mm	m	
CS-XE9CKR (CU-XE9CKR)	2.60 (0.60~3.00)	8,870 (2,050~10,200)	3.60 (0.60~5.00)	12,300 (2,050~17,100)	C: 165 H: 177	1.6	240	C: 3.2 H: 3.9	C: 0.70 (0.115~0.88) H: 0.90 (0.11~1.40)	C: 3.71 H: 4.00	C: 6.0 H: 5.5	C: 39 / 26 H: 40 / 27	C: 46 /— H: 47 /—	C: 59 H: 60	10 (38)	275 x 799 x 236 (540 x 780 x 289)	15
CS-XE12CKR (CU-XE12CKR)	3.45 (0.60~4.00)	11,800 (2,050~13,600)	4.80 (0.60~6.50)	16,400 (2,050~22,200)	C: 182 H: 197	2.0	240	C: 4.2 H: 5.4	C: 0.95 (0.12~1.28) H: 1.26 (0.115~1.89)	C: 3.63 H: 3.81	C: 6.0 H: 6.0	C: 42 / 29 H: 42 / 33	C: 48 /— H: 50 /—	C: 61 H: 63	10 (40)	275 x 799 x 236 (540 x 780 x 289)	15
CS-E9CKP (CU-E9CKP5)	2.60 (0.60~3.00)	8,870 (2,050~10,200)	3.60 (0.60~5.00)	12,300 (2,050~17,100)	C: 165 H: 177	1.6	230	C: 3.3 H: 4.0	C: 0.70 (0.115~0.88) H: 0.90 (0.11~1.40)	C: 3.71 H: 4.00	C: 6.0 H: 5.5	C: 39 / 26 H: 40 / 27	C: 46 /— H: 47 /—	C: 59 H: 60	9 (35)	275 x 799 x 210 (540 x 780 x 289)	15
CS-E12CKP (CU-E12CKP5)	3.45 (0.60~4.00)	11,800 (2,050~13,600)	4.80 (0.60~6.50)	16,400 (2,050~22,200)	C: 182 H: 197	2.0	230	C: 4.4 H: 5.6	C: 0.95 (0.12~1.28) H: 1.26 (0.115~1.89)	C: 3.63 H: 3.81	C: 6.0 H: 6.0	C: 42 / 29 H: 42 / 33	C: 48 /— H: 50 /—	C: 61 H: 63	9 (37)	275 x 799 x 210 (540 x 780 x 289)	15
CS-E15CKP (CU-E15CKP5)	4.40 (0.60~5.00)	15,000 (2,050~17,100)	5.30 (0.60~6.80)	18,100 (2,050~23,200)	C: 192 H: 207	2.4	230	C: 6.4 H: 6.9	C: 1.40 (0.12~1.62) H: 1.51 (0.115~1.90)	C: 3.14 H: 3.51	C: 4.0 H: 4.5	C: 43 / 32 H: 43 / 35	C: 49 /— H: 50 /—	C: 62 H: 63	9 (37)	275 x 799 x 210 (540 x 780 x 289)	15
CS-E18CKR (CU-E18CKR)	5.30 (0.90~6.00)	18,100 (3,070~20,500)	6.60 (0.90~8.00)	22,500 (3,070~27,300)	C: 260 H: 285	2.9	240	C: 7.2 H: 7.8	C: 1.65 (0.24~2.05) H: 1.79 (0.28~2.65)	C: 3.21 H: 3.69	C: 4.5 H: 5.0	C: 44 / 37 H: 44 / 37	C: 47 /— H: 47 /—	C: 60 H: 60	11 (49)	275 x 998 x 210 (750 x 875 x 345)	20
CS-E21CKR (CU-E21CKR)	6.30 (0.90~7.10)	21,500 (3,070~24,200)	7.20 (0.90~8.50)	24,600 (3,070~29,000)	C: 277 H: 295	3.5	240	C: 9.5 H: 9.0	C: 2.21 (0.24~2.54) H: 2.10 (0.28~2.75)	C: 2.85 H: 3.43	C: 3.0 H: 4.5	C: 45 / 37 H: 45 / 37	C: 48 /— H: 49 /—	C: 61 H: 62	11 (51)	275 x 998 x 210 (750 x 875 x 345)	20
CS-E24CKR (CU-E24CKR)	7.20 (0.90~8.10)	24,600 (3,070~27,600)	8.60 (0.90~9.90)	29,300 (3,070~33,800)	C: 287 H: 310	4.2	240	C: 11.2 H: 11.1	C: 2.59 (0.38~2.97) H: 2.56 (0.38~3.25)	C: 2.78 H: 3.36	C: 3.5 H: 4.5	C: 47 / 38 H: 47 / 38	C: 52 /— H: 52 /—	C: 66 H: 66	12.0 (63.5)	275 x 998 x 210 (750 x 875 x 345)	30

\*1 Sound Pressure Level is measured according to JIS C 9612.

\*2 Additional Gas might be required for some models.

## Single Split Type

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

Model No. (240V)	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Running Current	Power Input	EER COP	Star Rating	Sound Pressure Level <sup>1</sup> dB (A)		Sound Power Level dB (A)	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length <sup>2</sup>
	kW	Btu/h	kW	Btu/h	L/s	L/h	A	kW	W/W	Inside (Hi/Lo)	Outside (Hi/Lo)	Outside	kg	mm	m	
CS-A7CKP (CU-A7CKP5)	2.05	6,990	2.20	7,500	C: 142 H: 165	1.3	C: 2.7 H: 2.4	C: 0.63 H: 0.55	C: 3.25 H: 4.00	C: 5.5 H: 6.0	C: 33/26 H: 36/28	C: 47 /— H: 49 /—	C: 62 H: 65	9 (29)	275 x 799 x 210 (540 x 780 x 289)	10
CS-A9CKP (CU-A9CKP5)	2.65	9,040	3.05	10,400	C: 165 H: 170	1.6	C: 3.7 H: 3.3	C: 0.87 H: 0.78	C: 3.05 H: 3.91	C: 4.5 H: 6.0	C: 36/26 H: 38/28	C: 49 /— H: 49 /—	C: 63 H: 65	9 (33)	275 x 799 x 210 (540 x 780 x 289)	10
CS-A12CKP (CU-A12CKP5)	3.57	12,170	4.00	13,640	C: 170 H: 177	2.1	C: 4.9 H: 4.8	C: 1.17 H: 1.11	C: 3.05 H: 3.60	C: 4.0 H: 4.5	C: 39/29 H: 40/29	C: 49 /— H: 49 /—	C: 63 H: 65	9 (37)	275 x 799 x 210 (540 x 780 x 289)	15
CS-A18CKR (CU-A18CKR)	5.30	18,100	5.75	19,600	C: 257 H: 265	2.9	C: 7.8 H: 7.7	C: 1.81 H: 1.80	C: 2.93 H: 3.19	C: 4.0 H: 3.5	C: 43/38 H: 42/38	C: 50 /— H: 51 /—	C: 63 H: 64	11 (60)	275 x 998 x 210 (750 x 875 x 345)	25
CS-A24CKR (CU-A24CKR)	7.03	24,000	7.80	26,600	C: 273 H: 290	4.0	C: 12.8 H: 12.5	C: 2.70 H: 2.65	C: 2.60 H: 2.94	C: 3.0 H: 3.0	C: 47/41 H: 46/41	C: 53 /— H: 54 /—	C: 66 H: 67	12 (63)	275 x 998 x 210 (750 x 875 x 345)	25
CS-A28CKR (CU-A28CKR)	8.00	27,300	8.80	30,000	C: 313 H: 322	4.7	C: 12.3 H: 12.2	C: 2.90 H: 2.88	C: 2.76 H: 3.06	C: 3.0 H: 3.0	C: 49/44 H: 48/44	C: 55 /— H: 55 /—	C: 68 H: 68	12 (70)	275 x 998 x 210 (750 x 875 x 345)	30
CS-C7CKP (CU-C7CKP5)	2.05	6,990	—	—	142	1.3	2.8	0.64	3.20	5.0	33/26	47 /—	62	9 (28)	275 x 799 x 210 (540 x 780 x 289)	10
CS-C9CKP (CU-C9CKP5)	2.70	9,200	—	—	165	1.6	3.5	0.82	3.29	5.0	36/26	47 /—	62	9 (31)	275 x 799 x 210 (540 x 780 x 289)	10
CS-C12CKP (CU-C12CKP5)	3.57	12,170	—	—	170	2.1	4.9	1.15	3.10	4.5	39/29	49 /—	63	9 (35)	275 x 799 x 210 (540 x 780 x 289)	15
CS-C18CKR (CU-C18CKR)	5.42	18,500	—	—	248	2.9	7.6	1.78	3.04	4.0	42/37	50 /—	63	11 (55)	275 x 998 x 210 (750 x 875 x 345)	25
CS-C24CKR (CU-C24CKR)	7.03	24,000	—	—	282	4.0	12.2	2.61	2.69	3.0	46/40	54 /—	67	11 (59)	275 x 998 x 210 (750 x 875 x 345)	25
CS-C28CKR (CU-C28CKR)	8.00	27,300	—	—	313	4.7	11.9	2.80	2.86	3.0	49/44	55 /—	68	12 (66)	275 x 998 x 210 (750 x 875 x 345)	30

\*1 Sound Pressure Level is measured according to JIS C 9612.

\*2 Additional Gas might be required for some models.

● Power plugs are not supplied with the unit.
● Electrical work must be installed by a licensed electricians. Be sure to use the correct rating of the power plug and mains circuit for the model to be installed.
● Please read the Installation Instructions carefully before installing the unit, and read the Operating Instructions before using.

## Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB/19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB/6°C WB

# Technical Specifications

## Floor or Ceiling Dual Mountable Type

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

Model No. (240V)	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Running Current	Power Input	EER COP	Star Rating	Sound Pressure Level <sup>1</sup> dB (A)		Sound Power Level dB (A)	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length <sup>2</sup>
	kW	Btu/h	kW	Btu/h	L/s	L/h	A	kW	W/W		Inside (Hi/Lo)	Outside (Hi/Lo)	Outside	kg	mm	m
CS-A12CTP (CU-A12CTP5)	3.52	12,000	4.00	13,600	C: 162 H: 162	2.0	C: 5.2 H: 5.1	C: 1.16 H: 1.14	C: 3.03 H: 3.51	C: 4.0 H: 5.0	C: 39/33 H: 39/33	C: 49/— H: 49/—	C: 63/— H: 65/—	18 (37)	200 x 1,028 x 540 <sup>3</sup> (540 x 780 x 289)	15
CS-A18CTP (CU-A18CTP5)	5.30	18,100	6.00	20,500	C: 170 H: 174	2.9	C: 9.0 H: 9.0	C: 1.95 H: 2.10	C: 2.72 H: 2.86	C: 3.0 H: 2.5	C: 42/37 H: 42/37	C: 56/— H: 57/—	C: 70/— H: 72/—	20 (60)	200 x 1,028 x 540 <sup>3</sup> (685 x 800 x 300)	25
CS-A24CTP (CU-A24CTP5)	6.20	21,100	7.10	24,200	C: 215 H: 215	3.5	C: 13.4 H: 14.1	C: 2.90 H: 2.90	C: 2.14 H: 2.45	C: 1.0 H: 1.5	C: 47/42 H: 47/42	C: 57/— H: 58/—	C: 70/— H: 72/—	20 (63)	200 x 1,028 x 540 <sup>3</sup> (685 x 800 x 300)	25

\*1 Sound Pressure Level is measured according to JIS C 9612.

\*2 Additional Gas might be required for some models.

\*3 When ceiling mounted.

### Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB/19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB/6°C WB

## Multi Split Type

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

Model No. (240V)	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Running Current	Power Input	EER COP	Sound Pressure Level <sup>1</sup> dB (A)	Sound Power Level dB (A)	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length <sup>2</sup>		
	kW	Btu/h	kW	Btu/h	L/s	L/h	A	kW	W/W	Inside (Hi/Lo)	Outside (Hi/Lo)	Outside	kg	mm	m	
CS-C9CKPG x 3 (CU-3C20CKP5G)	#1 B	2.40	8,180	—	—	165	1.5	3.6	0.82	2.93	36/26	56/—	71/—	9 (66)	275 x799 x 210 (651 x 893 x 345)	15
	#1 A1/A2	2.82	9,620	—	—	165	1.6	4.9	1.12	2.52	36/26	56/—	71/—			
	#2 B+A1/A2	5.22	17,800	—	—	165	2.8	8.1	1.85	2.82	36/26	56/—	71/—			
	#2 A1+A2	3.60	12,300	—	—	165	2.1	5.3	1.21	2.98	36/26	56/—	71/—			
	#3 B+A1+A2	6.00	20,500	—	—	165	3.2	8.3	1.92	3.13	36/26	56/—	71/—			
CS-C9CKPG x 2 (CU-2C14CKP5G)	#1	2.82	9,620	—	—	165	1.6	5.1	1.15	2.45	36/26	47/—	62/—	9 (35)	275 x799 x 210 (540 x 760 x 250)	15
	#2	3.62	12,300	—	—	165	2.1	5.4	1.22	2.97	36/26	47/—	62/—			
CS-C9CKPG x 2 (CU-2C18CKP5G)	#1	2.44	8,320	—	—	165	1.5	3.3	0.77	3.17	36/26	55/—	70/—	9 (62)	275 x799 x 210 (651 x 893 x 345)	15
	#2	4.88	16,600	—	—	165	2.6	6.6	1.54	3.17	36/26	55/—	70/—			

Model No. (230V)	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Running Current	Power Input	EER COP	Sound Pressure Level <sup>1</sup> dB (A)	Sound Power Level dB (A)	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length <sup>2</sup>		
	kW	Btu/h	kW	Btu/h	L/s	L/h	A	kW	W/W	Inside (Hi/Lo)	Outside (Hi/Lo)	Outside	kg	mm	m	
CS-MA95KE x 2 (CU-MA185KE)	#1	2.65	9,040	3.15	10,700	C: 153 H: 163	1.6	C: 4.1 H: 4.2	C: 0.94 H: 0.95	C: 2.82 H: 3.32	C: 39 / 26 H: 39 / 26	C: 49 /— H: 49 /—	64	9 (69)	279 x799 x 199 (985 x 780 x 245)	15
	#2	2.65 x 2	9,040 x 2	3.15 x 2	10,700 x 2	C: 153 H: 163	1.6 x 2	C: 4.1 x 2 H: 4.2 x 2	C: 0.94 x 2 H: 0.95 x 2	C: 2.82 H: 3.32	C: 39 / 26 H: 39 / 26	C: 52 /— H: 52 /—	67			
CS-MA125KE x 2 (CU-MA245KE)	#1	3.50	11,900	4.10	14,000	C: 150 H: 160	2.0	C: 5.6 H: 5.7	C: 1.25 H: 1.28	C: 2.80 H: 3.20	C: 39 / 29 H: 39 / 29	C: 49 /— H: 49 /—	64	9 (83)	279 x799 x 199 (1,045 x 780 x 245)	15
	#2	3.50 x 2	11,900 x 2	4.10 x 2	14,000 x 2	C: 150 H: 160	2.0 x 2	C: 5.6 x 2 H: 5.7 x 2	C: 1.25 x 2 H: 1.28 x 2	C: 2.80 H: 3.20	C: 39 / 29 H: 39 / 29	C: 52 /— H: 52 /—	67			

\*1 Sound Pressure Level is measured according to JIS C 9612.

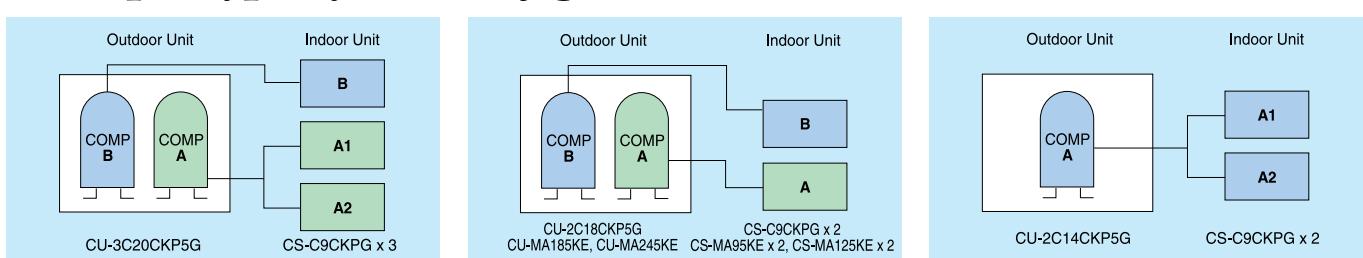
\*2 Additional Gas might be required for some models.

- Power plugs are not supplied with the unit.
- Electrical work must be installed by a licensed electricians. Be sure to use the correct rating of the power plug and mains circuit for the model to be installed.
- Please read the Installation Instructions carefully before installing the unit, and read the Operating Instructions before using.

### Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB/19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB/6°C WB

## Multi-Split Type: System Configuration



### 2-Compressor Triple Split Type

One compressor drives one indoor unit to cool one room, while another drives two indoor units to cool two rooms.

### 2-Compressor Dual Split Type

Two compressors independently drive two indoor units so there is no loss in capacity when both indoor units are operating.

### 1-Compressor Dual Split Type

A single compressor can cool one or two rooms as required.

# Technical Specifications

## Window Type

C: Cooling EER : Cooling Efficiency  
H: Heating COP: Heating Efficiency

Model No. (240V)	Cooling Capacity		Heating Capacity		Air Flow	Dehumid	Running Current	Power Input	EER <small>COP</small>	Star Rating	Compressor	Sound Pressure Level <sup>a</sup> dB (A)	Sound Power Level dB (A)	Net Weight	Dimensions	
	kW	Btu/h	kW	Btu/h	L/s	L/h	A	kW	W/W			Inside (H/L)	Outside (H/L)	Outside	kg	Height x Width x Depth (mm)
<b>CW-C70KR</b>	2.05	7,000	—	—	115	1.3	3.4	0.79	2.59	2.5	Rotary	48/45	56/52	69	35	350 x 450 x 580
<b>CW-C90KR</b>	2.60	8,870	—	—	120	1.5	4.0	0.93	2.80	3.0	Rotary	48/45	58/56	69	36	350 x 450 x 580
<b>CW-C120VR</b>	3.60	12,300	—	—	163	2.1	6.4	1.41	2.55	2.5	Rotary	50/47	57/54	69	38	375 x 560 x 606
<b>CW-C170KR</b>	4.70	16,000	—	—	233	2.5	7.1	1.67	2.81	3.0	Rotary	51/47	57/55	70	65	428 x 660 x 770
<b>CW-C200KR</b>	5.33	18,200	—	—	233	2.9	8.7	2.05	2.60	2.5	Rotary	51/48	57/56	71	71	428 x 660 x 770
<b>CW-C240KR</b>	6.45	22,000	—	—	290	3.6	11	2.58	2.50	2.5	Rotary	56/50	61/59	75	72	428 x 660 x 770
<b>CW-A90VR</b>	2.70	9,200	2.61	8,900	C: 145 H: 145	1.6	C: 4.4 H: 3.8	C: 1.03 H: 0.89	C: 2.62 H: 2.93	C: 3.0 H: 3.0	Rotary	C: 47/44 H: 45/42	C: 53/51 H: 55/53	66	35	375 x 560 x 606
<b>CW-A120VR</b>	3.45	11,800	3.20	10,900	C: 163 H: 163	2.0	C: 6.9 H: 6.0	C: 1.51 H: 1.26	C: 2.28 H: 2.54	C: 1.5 H: 1.5	Rotary	C: 50/47 H: 50/47	C: 57/54 H: 59/56	71	39	375 x 560 x 606
<b>CW-A170KR</b>	4.30	14,700	3.90	13,300	C: 233 H: 250	2.4	C: 7.3 H: 5.8	C: 1.72 H: 1.35	C: 2.50 H: 2.89	C: 2.0 H: 2.5	Rotary	C: 51/47 H: 51/47	C: 56/53 H: 57/54	71	66.5	428 x 660 x 770
<b>CW-A200KR</b>	4.90	16,700	4.45	15,200	C: 233 H: 250	2.7	C: 9.2 H: 7.1	C: 2.16 H: 1.68	C: 2.27 H: 2.65	C: 1.5 H: 2.0	Rotary	C: 52/48 H: 52/47	C: 58/55 H: 58/55	72	72.5	428 x 660 x 770
<b>CW-A240KR</b>	6.00	20,500	4.90	16,700	C: 290 H: 307	3.3	C: 10.6 H: 8.4	C: 2.52 H: 2.00	C: 2.38 H: 2.45	C: 1.5 H: 2.0	Rotary	C: 56/50 H: 56/50	C: 61/56 H: 61/56	75	73.5	428 x 660 x 770

\* Sound Pressure Level is measured according to JIS C 9612.

- Please read the Operating Instructions carefully before installing and using the unit.
- Specifications are subject to change without notice for further improvement.
- The contents of this catalogue are effective as of June, 2004.
- Due to printing considerations, the actual colours may vary slightly from these shown.

### Rating Conditions

	Cooling	Heating
Inside air temperature	27°C DB/19°C WB	20°C DB
Outside air temperature	35°C DB	7°C DB/6°C WB

## Optional Accessories (Replacement Filters)

### • Catechin Air Purifying Filter



### • Triple Deodorising Filter



### • Catechin Deodorising Air Purifying Filter



### • Deodorising Air Purifying Filter



○ : Filter provided as standard equipment. ○ : Filter that can be installed as an option.



### ISO 9002 Certification

CERTIFIED TO MS ISO 9002: 1994  
MATUSHITA INDUSTRIAL CORP. SDN. BHD. (MAICO)  
Registration No.: AR 0866, AR 1010

These Panasonic air conditioner factories in Malaysia have received ISO 9002 certification. ISO 9000 Certification attests to the excellent quality assurance systems in place at these factories.

#### About ISO 9002 Certification

ISO 9002 certification is granted only when thorough examination has shown that products are manufactured, marketed and serviced by a system of quality that is complied with the internationally recognized ISO 9002 quality assurance standard. The Malaysian factories were certified by the world renowned SIRIM organization.

### Environmental Management Systems Approval Certificate



MS ISO 14001 CERT. NO. MO 15802127  
MS ISO 14001 CERT. NO. MO 08301067

#### CERTIFIED TO MS ISO 14001: 1997

MATUSHITA INDUSTRIAL CORP. SDN. BHD. (MAICO)  
Certification No.: MO 15802127, MO 08301067

### Standard Warranty







# Panasonic

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