

Panasonic

ideas for life

Air Conditioners
2006/2007



AC Robot
Auto Cleaning



INVERTER

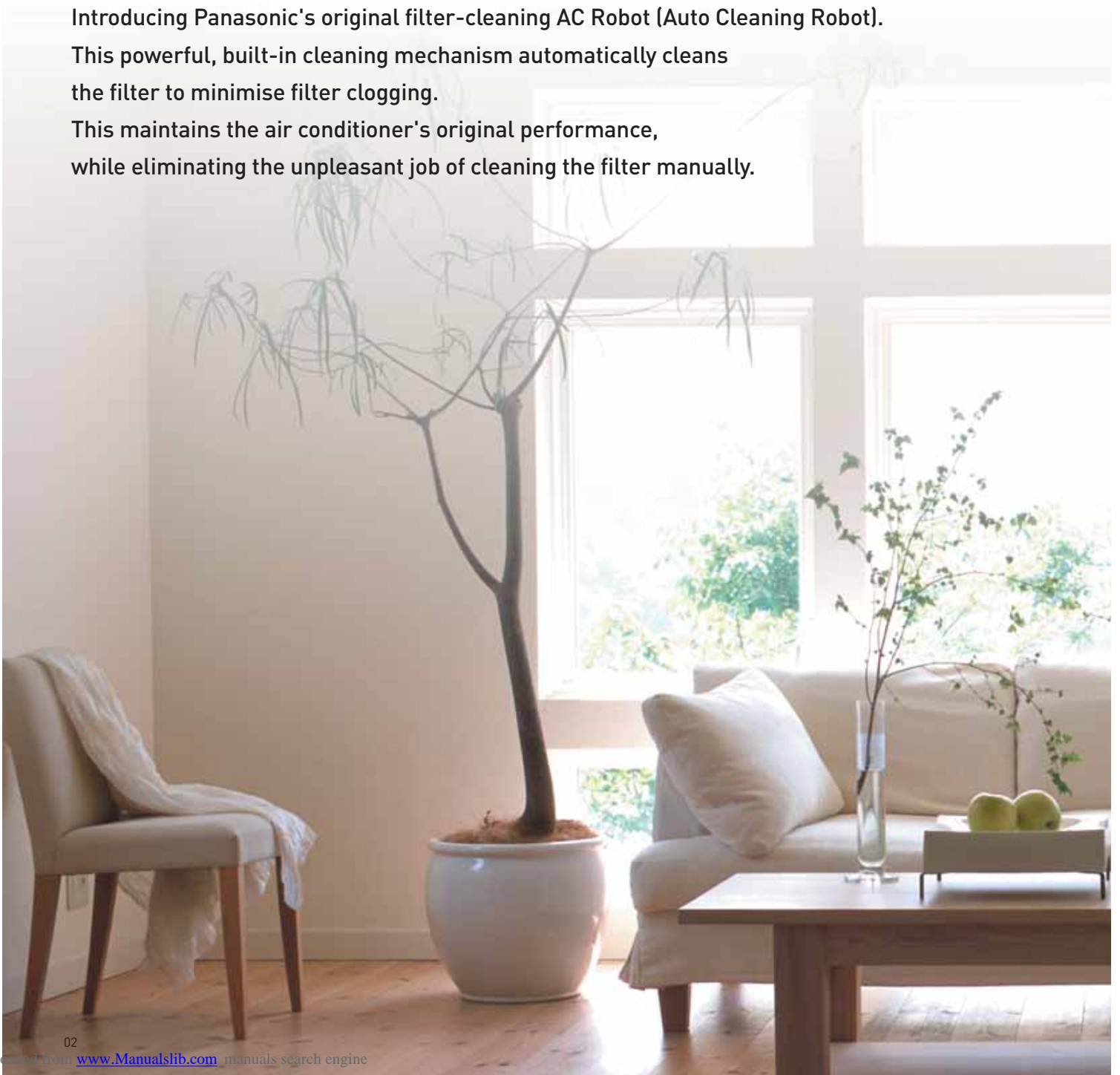
Meet the Auto Cleaning Robot.

It automatically cleans the filter to keep the performance just like new.

Introducing Panasonic's original filter-cleaning AC Robot (Auto Cleaning Robot).

This powerful, built-in cleaning mechanism automatically cleans the filter to minimise filter clogging.

This maintains the air conditioner's original performance, while eliminating the unpleasant job of cleaning the filter manually.



Only from Panasonic*!



It automatically vacuums the dust from the filter
and exhausts it outdoors each time you use it.

Always
CLEAN

Always
POWERFUL

Always
EFFICIENT

Model Line-Up



Line-up of inverter models with R410A.

Choose
the
Best
Inverter

— Panasonic —








Single Inverter Split

Wall-Mounted

| Indoor | Super-Deluxe NEW | Deluxe NEW | Deluxe-Wide NEW |
|----------------------|---|--|---|
| |  p.14 |  p.14 |  p.14 |
| Capacity (kW) | 2.5 CS-XE9EKE (CU-XE9EKE) | CS-E9FKR (CU-E9FKR) | |
| | 3.5 CS-XE12EKE (CU-XE12EKE) | CS-E12FKR (CU-E12FKR) | |
| | 4.5 | CS-E15FKR (CU-E15FKR) | |
| | 5.0 | | CS-E18FKR (CU-E18FKR) |
| | 6.0 | | CS-E21FKR (CU-E21FKR) |
| | 6.5 | | CS-E24FKR (CU-E24FKR) |
| | 8.0 | | CS-E28FKR (CU-E28FKR) |
| Air Quality Features |   |    |    |

Single Split


Wall-Mounted

| Indoor | Deluxe | Deluxe-Wide |
|----------------------|--|--|
| |  p.15 |  p.15 |
| Capacity (kW) | 2.0 CS-W7DKR (CU-W7DKR) | |
| | 2.5 CS-W9DKR (CU-W9DKR) | |
| | 3.5 CS-W12EKR (CU-W12EKR) Different Design NEW | |
| | 5.0 | CS-W18DKR (CU-W18DKR) |
| | 6.5 | CS-W24EKR (CU-W24EKR) Different Design NEW |
| Air Quality Features |    Except CS-W12EKR |    Except CS-W24EKR |

 Reverse cycle models

 Auto Cleaning Robot

 Supersonic Air Purifying System

 Super alleru-buster filter
(Super alleru-buster + Catechin + Bio)

 Deodorising Filter

 Ion Freshener





AC Robot

Auto Cleaning

Cleans its own filter — all by itself!

The air conditioner stays in the same clean condition, with the same high-performance, as when it was first purchased.

Always CLEAN

It prevents dust from accumulating and keeps the filter like new. It prevents the breeding of mould and bacteria that cause unpleasant odours. Fresh and comfortable!

■ Dust on filter after one year



Without filter cleaning

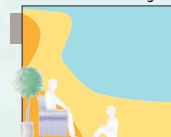
With auto filter cleaning

*Actual dust accumulation will vary depending on usage and environmental conditions.

Always POWERFUL

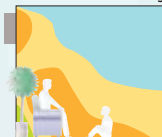
Because it maintains the same performance as when it was new, the level of power remains constant even after long periods of use. You enjoy comfortable air conditioning that reaches every corner of the room.

Without filter cleaning



The air stream doesn't reach the corners of the room.

With auto filter cleaning



The powerful airflow reaches throughout the room.

<Test conditions> • Starting temperature and humidity: 7°C, 6% • Set temperature: 23°C • Fan speed/airflow direction: set to auto mode • After air conditioning stabilizes • Area of simulated-house testing facility: 16.5m²

Always EFFICIENT

It prevents the reduced efficiency that is caused by filter clogging, so its top-class energy-saving performance is maintained longer. It also saves on the electric bill by suppressing the wasteful use of electricity.

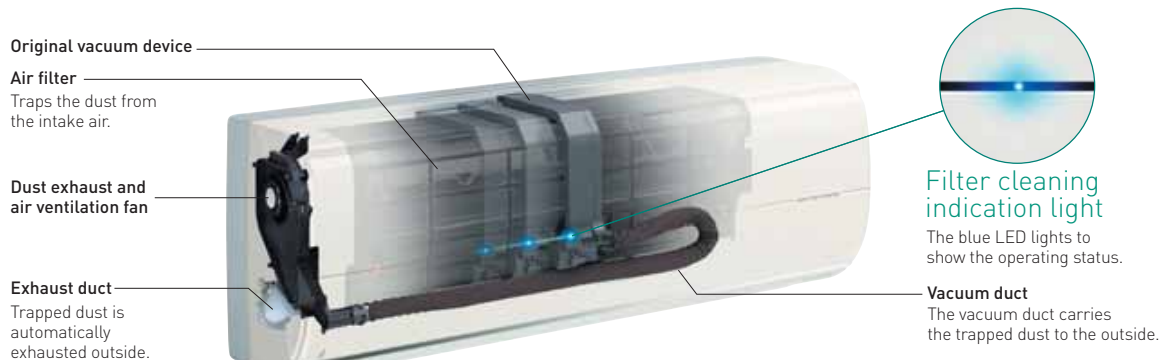
■ Energy-saving comparison (After 3 years' use)



For heating



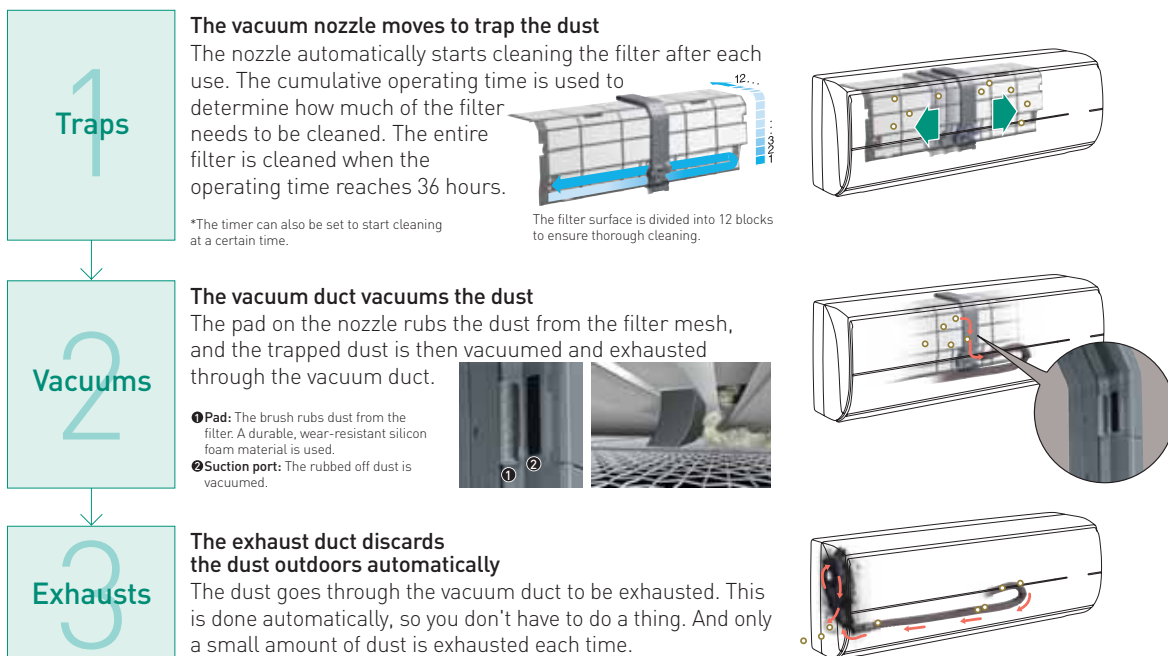
Automatically Traps, Vacuums and Exhausts Dust — For Clean Operation without the Cleaning Hassle



Applied for more than **90** patents

Panasonic has applied for more than 90 patents relate to auto filter cleaning technology. (As of November, 2005)

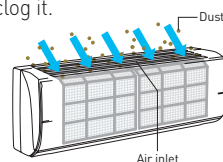
Cleaning Mechanism



Why does the filter have to be cleaned?

The filter works to trap airborne dust. When the filter is not cleaned regularly, dust can accumulate and clog it.

Problems Caused by Filter Clogging



| | |
|--|------------------|
| | Dead dust mites |
| | Pollen |
| | Mould spores |
| | Viruses/bacteria |

Actual dust accumulation will vary depending on usage and environmental conditions.

A Clean Filter Greatly Boosts Performance, Giving



Comparison of Mould Growth

A dirty filter is a natural breeding ground for mould and house mites. Their growth can be greatly reduced by keeping the filter clean.

Without filter cleaning



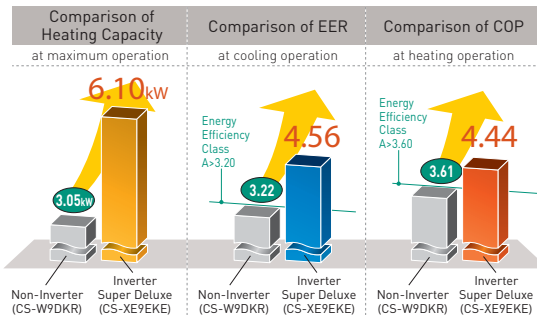
With auto filter cleaning



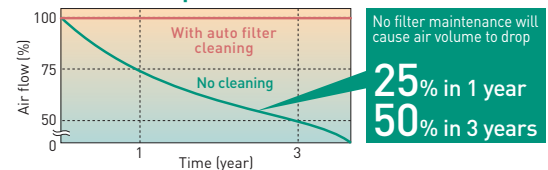
Observation of mould on filters (used for 3 months) after cultivation on agar media for 3 days.
Testing organization: Japan Food Research Laboratories Test No.: 204090946-001

Class A energy saving achieved by inverter technology

Panasonic's high-efficiency technologies clear stringent energy-saving standards, and the AC Robot maintains this high level of performance.

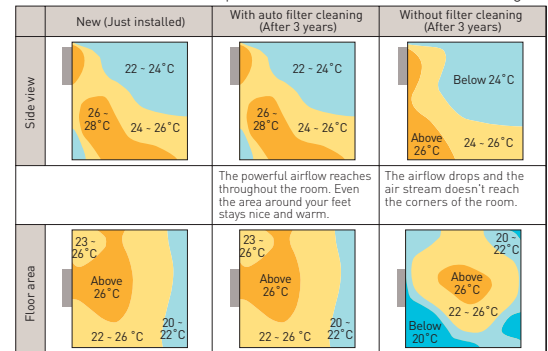


Airflow Comparison



Temperature Distribution Comparison

With the AC Robot, heating performance is maintained even after long use. On the other hand, the power is reduced without filter cleaning.



<Test conditions>
•Starting temperature and humidity: 7°C, 6% •Set temperature: 23°C •Fan speed/airflow direction: set to auto mode •After air conditioning stabilizes •Area of simulated-house testing facility: 16.5m²

How It Works

A detailed cleaning programme built into the AC Robot ensures that the entire filter surface stays clean with a highly efficient cleaning process.

- The filter surface is divided into 12 blocks, and the vacuum nozzle cleans each block with a round-trip cleaning operation.
- The number of blocks (amount of surface area) to be cleaned is determined according to the air conditioner's cumulative operating time.
- Cleaning of the entire surface is completed after 36 operating hours are accumulated.



In the High fan speed in the normal setting mode

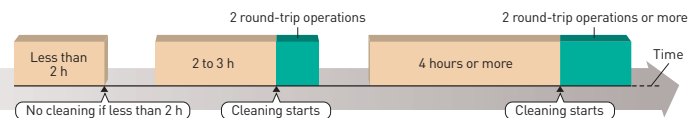
| Cumulative operation hours (hour) | No. of cleaning operations |
|-----------------------------------|----------------------------|
| Less than 2 | No cleaning |
| 2 - <6 | 2 round-trip |
| 6 - <9 | 3 round-trip |
| 9 - <12 | 4 round-trip |
| <12 | 5 round-trip |

Auto Filter Cleaning Operation Patterns

Two operations are available. In addition to the normal setting, the timer setting can also be used.

In the normal setting mode (non-timer)

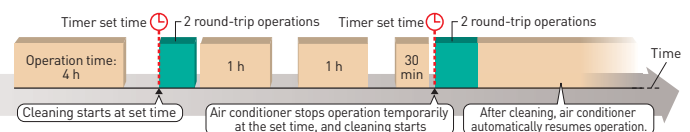
Cleaning automatically starts after each operation. The number of round-trip is determined based on the cumulative operating time.



In the timer setting mode

Cleaning starts at the set time everyday.

* If the air conditioner has not been used for more than 30 minutes since it was cleaned, the cleaning operation will not be done at the preset time.



You Greater Comfort and Saving Energy.

Air cleaning features

SUPER alleru-buster filter — Long-life type (10 years)

The SUPER alleru-buster filter combines three effects in one: anti-allergen, anti-virus, and anti-bacteria protection, to keep the room air clean and healthful. Plus, the effect is maintained for 10 years.



Anti-allergen protection

SUPER alleru-buster

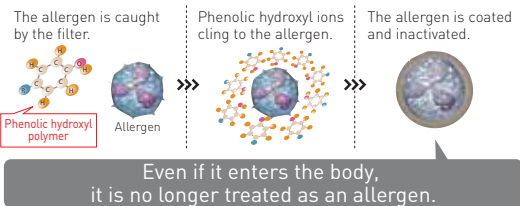
Inactivates more than **99%** of all filter-captured allergens!

Target substances

Allergens:
Pollen, dead dust mites and their waste products, cat dander, mould



How allergens are inactivated



Anti-bacteria/Anti-mould protection

Bio (Bio-Elimination)

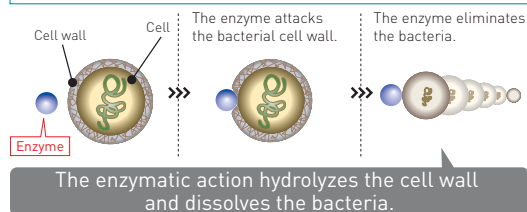
Enzymatic action eliminates more than **99%** of all filter-captured bacteria!

Target substances

Bacteria: Staphylococcus aureus
Mould: Black mould (aspergillus), green fungus



How bacteria are bio-eliminated



Anti-virus protection

Catechin

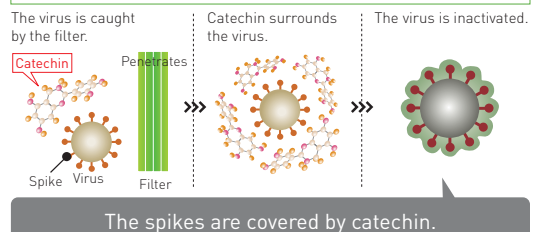
Inactivates more than **99%** of all filter-captured viruses!

Target substances

Viruses: Influenza, Cocksackie virus, etc.



How viruses are inactivated



What's "Allergen"?

When allergens enter the body, they cause allergy symptoms due to an antigen-antibody reaction that occurs as the body tries to combat them.

Versatile Features for Super Deluxe Models

| | |
|----------------------------|--|
| Quiet Mode | Simply press a button to reduce the indoor unit operating sound by about 3 dB. This function is especially convenient for operation near a sleeping baby. |
| Powerful Mode | 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. |
| Ventilation Control | You can ventilate the room by simply pressing the remote control button. Dirty air is carried outside to keep the room fresh and clean. |

Operation Indicator



The indicators become visible when the grille is opened.



supersonic

**Powerfully collects allergens
from the room's air**

A Supersonic Air Purifying System accelerates the air cleaning effect of the SUPER alleru-buster filter. It keeps room air cleaner, to protect the family's health.





Cleaner air with supersonic waves and SUPER alleru-buster

air cleaning

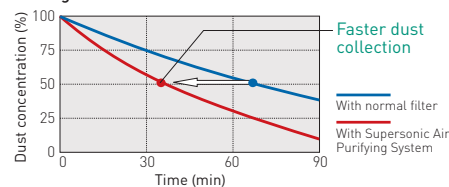
Supersonic Air Purifying System with SUPER alleru-buster



Faster dust collection
Supersonic Air Purifying System

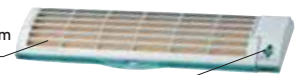
The Supersonic Air Purifying System incorporated in the indoor unit generates supersonic waves. The system works in combination with the filter to collect dust and dirt in the air for faster, more efficient air purification.

Changes in dust concentration



Supersonic Air Purifying System

- SUPER alleru-buster filter
- Supersonic wave generator



Inactivates harmful elements
SUPER alleru-buster filter

The SUPER alleru-buster filter combines three effects in one—anti-allergen, anti-virus, anti-bacteria protection—to keep room air clean and healthy.

| | |
|---|--|
| Anti-allergen protection | Inactivates more than 99% of all filter-captured allergens |
| Here, inactivate means to suppress normal activity. This inactivation of mite allergens has been verified by the University of Edinburgh in the UK. | |
| Anti-virus protection | Inactivates more than 99% of all filter-captured viruses |
| Anti-bacteria/Anti-mould protection | Enzymatic action eliminates more than 99% of all filter-captured bacteria |



air cleaning

Deodorising Filter

The photocatalytic filter absorbs odour particles from cigarette smoke and pet and household smells. The deodorisation effect is regenerated when the filter is exposed to sunlight.



Super quiet

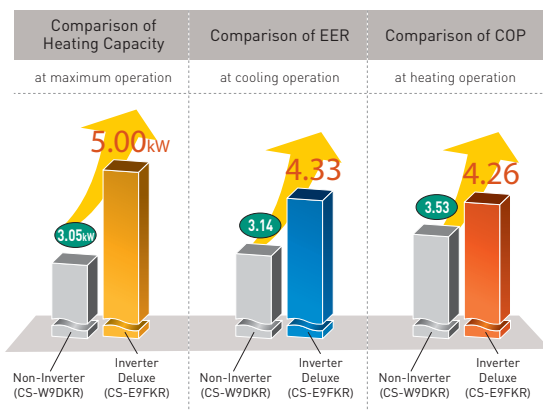
The indoor unit operates at a whisper-quiet 23 dB in quiet mode. We've reduced the noise of the outdoor unit, too. You can run the air conditioner at night and enjoy a deeper, more comfortable sleep, and without bothering your neighbours.



*1 CS-E9FKR: In Quiet mode during cooling operation with low fan speed
*2 CU-E9FKR: In cooling mode

Powerful heating & top-class energy efficiency

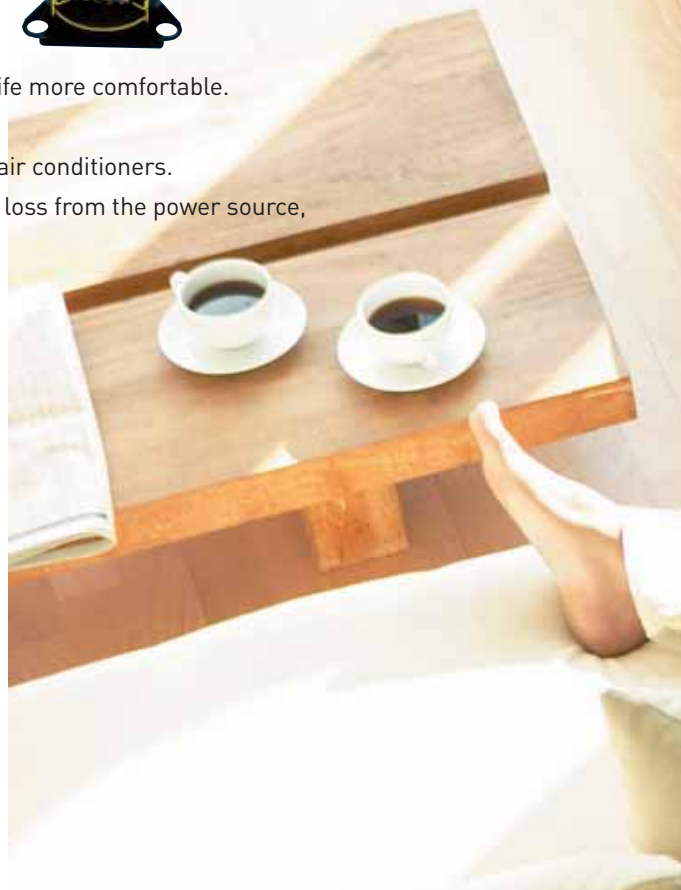
Our Deluxe models offer both capacity and a class-leading energy-saving performance that exceeds requirements of the highest Energy-Efficiency Classification.



Advanced Inverter Performance – The Difference in Power and Comfort



Panasonic is harnessing its industry-leading technologies to make life more comfortable. With the slogan "Technologies that deliver new levels of comfort," the company is working to develop new, high-performance inverter air conditioners. Models with PFC (power-factor corrector) circuitry reduce electrical loss from the power source, thus increasing maximum power input. This naturally increases the maximum air conditioner output, so you enjoy more comfort.



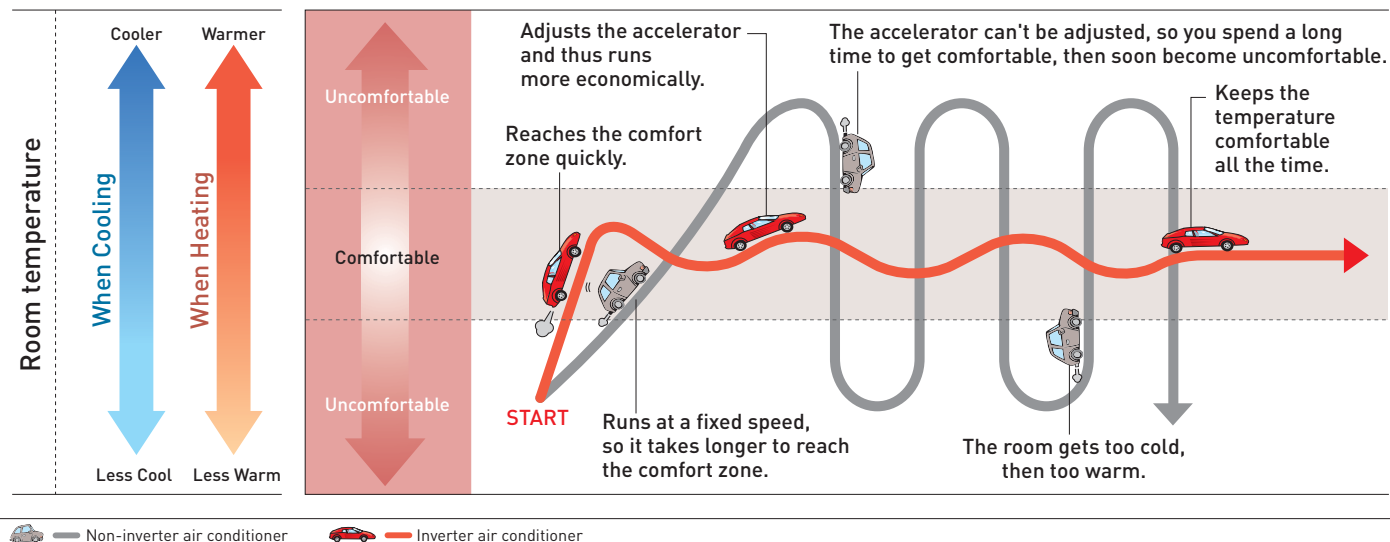
WHAT'S AN INVERTER?

An inverter is a type of power conversion circuit that electronically regulates the voltage, current, and frequency of a device. In an inverter air conditioner, this circuit controls the revolutions of the compressor — and hence the air conditioner's output. Raising the frequency increases the output, lowering the frequency reduces it. In this way, inverter air conditioners provide much finer temperature control than non-inverter models.



The advantages of an inverter air conditioner

■ Comparing inverter and non-inverter air conditioners to cars...

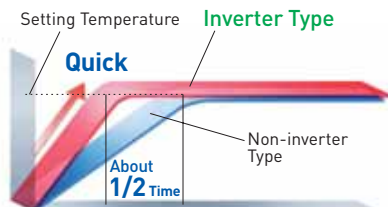




Quick comfort

As soon as the an inverter air conditioner is switched on, it provides the exact amount of power needed to rapidly cool or heat of the room. This enables it to reach the set temperature in about half the time required by non-inverter models. So you're comfortable soon after you arrive home on a hot summer day, or on a cold winter morning.

■ Quick comfort

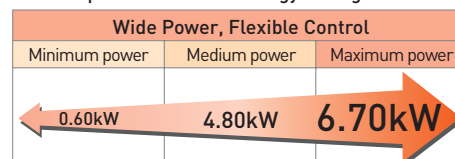


* The graph is a representation of temperature changes during heating.

Energy-saving

For optimum use of limited energy resources, an inverter air conditioner features an inverter circuit providing extremely efficient operation. Improved heat exchanger and compressor performance, precise microcomputer control and other innovations further assure dramatically boosted efficiency. So even though you get speedy, flexible operation, you use less electricity. What's more, low energy consumption means operation that's more environment-friendly than ever.

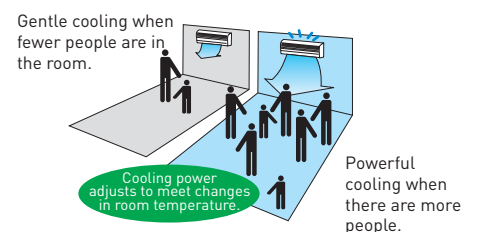
Flexible power control & Energy saving



The graph shows the CS-XE12EKE's wide power output range during heating.

Flexible power control

You're always comfortable with an inverter air conditioner. After quickly reaching the set temperature, it finely adjusts output power to maintain a constant temperature. So there are no uncomfortable temperature swings, while electricity is used more efficiently. Broad output power capability also assures continued comfort even if the number of people in a room changes. And at maximum output, an inverter air conditioner can deliver warm comfort even in the coldest winters.



Single Inverter Split Wall-Mounted

Super-Deluxe

NEW



ACRobot
Auto Cleaning



CU-XE9EKE/XE12EKE



| Model No | CS-XE9EKE | CS-XE12EKE |
|--------------|--|---|
| Capacity(kW) | 2.60(0.60~3.00)/3.60(0.60~6.10) | 3.50(0.60~4.00)/4.80(0.60~6.70) |
| (Btu/h) | 8,870(2,050~10,200)/12,300(2,050~20,800) | 11,900(2,050~13,600)/16,400(2,050~22,800) |
| EER/COP(W/W) | 4.56/4.44 | 3.98/3.93 |



Quiet Indoor

23dB

CS-XE9EKE

Quiet Outdoor

46dB 48dB

CU-XE9EKE CU-XE12EKE



Deluxe

NEW

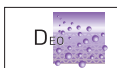
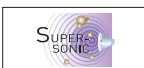


CU-E9FKR/
E12FKR



CU-E15FKR

| Model No | CS-E9FKR | CS-E12FKR | CS-E15FKR |
|--------------|--|---|---|
| Capacity(kW) | 2.60(0.80~3.00)/3.60(0.80~5.00) | 3.50(0.80~4.00)/4.90(0.80~6.70) | 4.40(0.90~5.00)/5.50(0.90~7.10) |
| (Btu/h) | 8,870(2,730~10,200)/12,300(2,730~17,100) | 11,900(2,730~13,600)/16,700(2,730~22,800) | 15,000(3,070~17,100)/18,800(3,070~24,200) |
| EER/COP(W/W) | 4.33/4.26 | 3.63/3.89 | 3.21/3.50 |



Quiet Indoor

23dB

CS-E9FKR

Quiet Outdoor

46dB 48dB

CU-E9FKR
CU-E12FKR
CU-E15FKR



NEW



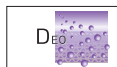
CU-E18FKR/
E21FKR



CU-E24FKR/
E28FKR

| Model No | CS-E18FKR | CS-E21FKR |
|--------------|---|---|
| Capacity(kW) | 5.30(0.90~6.00)/6.60(0.90~8.00) | 6.30(0.90~7.10)/7.20(0.90~8.50) |
| (Btu/h) | 18,100(3,070~20,500)/22,500(3,070~27,300) | 21,500(3,070~24,200)/24,600(3,070~29,000) |
| EER/COP(W/W) | 3.21/3.69 | 3.06/3.60 |

| Model No | CS-E24FKR | CS-E28FKR |
|--------------|---|---|
| Capacity(kW) | 7.20(0.90~8.10)/8.60(0.90~9.90) | 8.10(0.90~8.60)/9.60(0.90~11.00) |
| (Btu/h) | 24,600(3,070~27,600)/29,300(3,070~33,800) | 27,600(3,070~29,300)/32,700(3,070~37,500) |
| EER/COP(W/W) | 3.13/3.43 | 2.98/2.95 |



Quiet Outdoor

47dB 48dB 52dB 53dB

CU-E18FKR CU-E21FKR CU-E24FKR CU-E28FKR



Single Split

Wall-Mounted

Deluxe

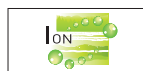
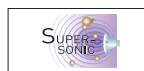


CU-W7DKR/
W9DKR



CU-W12EKR

| Model No | CS-W7DKR | CS-W9DKR | CS-W12EKR NEW |
|--------------|-------------|--------------|----------------------|
| Capacity(kW) | 2.30/2.45 | 2.75/3.05 | 3.60/3.90 |
| (Btu/h) | 7,840/8,350 | 9,380/10,400 | 12,300/13,300 |
| EER/COP(W/W) | 3.24/3.63 | 3.14/3.53 | 3.27/3.58 |



CS-W7DKR/W9DKR/
W12EKR



*CS-W12EKR
Different design
Without Ion Freshener

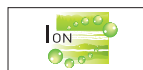
Deluxe-Wide



CU-W18DKR/W24EKR



| Model No | CS-W18DKR | CS-W24EKR NEW |
|--------------|---------------|----------------------|
| Capacity(kW) | 5.30/5.75 | 7.03/7.80 |
| (Btu/h) | 18,100/19,600 | 24,000/26,600 |
| EER/COP(W/W) | 2.93/3.19 | 2.97/3.17 |



*CS-W24EKR
Different design
Without Ion Freshener

Feature Comparison >> p.18

Specifications >> p.19

23dB In Quiet mode during cooling operation with low fan speed



Split Type Feature Explanations

Healthy Air Quality

AC Robot (Auto Cleaning Robot)

Automatically removes dust from the filter and exhausts it outside the unit to keep the inside clean.



The vacuum nozzle slides over the filter after each use* to vacuum the dust and exhaust it outside automatically.

*The size of the area to be cleaned is determined based on cumulative operating hours and fan speed.

Supersonic Air Purifying System

The Supersonic Air Purifying System incorporated in the indoor unit generates supersonic waves. The system works in combination with the filter to collect dust and dirt in the air for faster, more efficient air purification.

SUPER alleru-buster filter

The SUPER alleru-buster filter combines three effects in one — anti-allergen, anti-virus, and anti-bacteria protection — to keep room air clean and healthful.

Anti-allergen protection

Inactivates more than **99%** of all filter-captured allergens

Here, inactivate means to suppress normal activity. This inactivation of mite allergens has been verified by the University of Edinburgh in the UK.

Anti-virus protection

Inactivates more than **99%** of all filter-captured viruses

Anti-bacteria/Anti-mould protection

Enzymatic action eliminates more than **99%** of all filter-captured bacteria

Deodorising Filter

The photocatalytic filter absorbs odour particles from cigarette smoke and pet and household smells. The deodorization effect is regenerated when the filter is exposed to sunlight.

Ion Freshener

It is known that areas rich in negative ions, like near waterfalls and forests, generally make people feel refreshed. With Panasonic split air conditioner, the same refreshing feeling can be felt just by pushing a single button.

One-Touch Air Filter

Odour-Removing Function

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.

Removable, Washable Panel

The front panel is easy to keep clean. It removes quickly with a simple one-step operation and can be washed in water. A clean front panel promotes smoother, more efficient performance, which can save energy.

Comfortable

Inverter Control

An inverter air conditioner provides optimum power control, which is impossible for conventional units. The secret lies in the inverter circuit. By changing the frequency of power supply, this circuit alters the rotation speed of the compressor, which is the heart of the air conditioner. The result is comfortable, economical air conditioning.

Quiet Mode

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

Press a
QUIET
button

3dB Down



Powerful Mode

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.



Convenient

24-Hour ON & OFF Real Setting Timer

The start or stop operation time (hour and minute) can be set at one time. Or both of the times for start and stop operation can be set.

LCD Wireless Remote Controller

Split Type Feature Comparison

| <div><div></div> Reverse cycle models</div> | | Single Inverter Split | | | Single Split | | |
|---|---|---|---|--|---|---|--|
| | | Wall-Mounted | | | | | |
| | | CS-XE9EKE CS-XE12EKE | CS-E9FKR CS-E12FKR CS-E15FKR | CS-E18FKR CS-E21FKR CS-E24FKR CS-E28FKR | CS-W7DKR CS-W9DKR CS-W12EKR | CS-W18DKR CS-W24EKR | |
| Refrigerants Type | |  |  |  |  |  | |
| Healthy Air Quality |  | Auto Filter Cleaning Function | <div></div> | | | | |
| |  | SUPER alleru-buster filter | <div><div>(long-life)</div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Supersonic Air Purifying System | | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Deodorising Filter | | <div></div> | <div><div>(Only CS-W12EKR)</div></div> | <div><div>(Only CS-W24EKR)</div></div> | |
| |  | Ion Freshener | | | <div><div>(Except CS-W12EKR)</div></div> | <div><div>(Except CS-W24EKR)</div></div> | |
| |  | One-Touch Air Filter | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Odour-Removing Function | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Removable, Washable Panel | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Comfortable |  | Inverter Control | <div></div> | <div></div> | <div></div> | | |
| |  | Quiet Mode | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Powerful Mode | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Soft Dry Operation Mode | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Personal Airflow Creation | <div></div> | <div></div> | <div></div> | | <div></div> |
| |  | Airflow Direction Control (Up & Down) | | | | <div></div> | |
| |  | Auto Changeover (Inverter) | <div></div> | <div></div> | <div></div> | | |
| |  | Auto Changeover | | | | <div></div> | <div></div> |
| |  | Automatic Operation Mode (Cooling) | | | | | |
| |  | Hot Start Control | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Circulation Operation Mode | | | | | |
| Convenient |  | 24-Hour ON&OFF Real Setting Timer | <div></div> | <div></div> | <div></div> | <div></div> | |
| |  | LCD Wireless Remote Controller | <div></div> | <div></div> | <div></div> | <div></div> | |
| Reliable |  | Blue Fin Condenser | | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Random Auto Restart | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Long Piping | 15m | 15m | 20m (E18/E21) 30m (E24/E28) | 10m (W7/W9) 15m (W12) | 25m |
| | | Plug Type & Ampere Capacity * The plug must be installed. | <div><div>Ⓜ</div> 10A</div> | Outdoor Power Supply | Outdoor Power Supply | <div><div>Ⓜ</div> 10A</div> | <div><div>Ⓜ</div> 10A (W18) <div>Ⓜ</div> 20A (W24)</div> |
| |  | Top-Panel Maintenance Access | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | Self-Diagnostic Function | <div></div> | <div></div> | <div></div> | | |

* Total room / One room

Specifications

Single Inverter Split



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

| Model No. (240V) | Cooling Capacity Heating Capacity | | Air Flow | | Dehumid Pa(mmHg) | Running Current A | Power Input kW | EER COP | Star Rating | Sound Pressure Level*1 dB (A) | | Sound Power Level dB (A) | Net Weight kg | Dimensions Height x Width x Depth mm | Maximum Pipe Length*2 m | Power Supply A |
|------------------------------------|---|--|------------|-----|---------------------|-------------------------|---|--------------|----------------|----------------------------------|------------------|-----------------------------|------------------|--|----------------------------------|----------------------|
| | kW | Btu/h | L/s | L/h | | | | | | Inside (Hi/Lo) | Outside (Hi/Lo) | | | | | |
| CS-XE9EKE (CU-XE9EKE) | 2.60 (0.60-3.00) 3.60 (0.60-6.10) | 8,870 (2,050-10,200) 12,300 (2,050-20,800) | 177 195 | 1.6 | — | 2.7 3.7 | 0.57 (0.12-0.70) 0.81 (0.115-1.64) | 4.56 4.44 | 6.0 6.0 | 39 / 26 40 / 27 | 46 / — 47 / — | 59 60 | 13 (37) | 305 x 870 x 229 (540 x 780 x 289) | 15 | Indoor 10 |
| CS-XE12EKE (CU-XE12EKE) | 3.50 (0.60-4.00) 4.80 (0.60-6.70) | 11,900 (2,050-13,600) 16,400 (2,050-22,800) | 198 212 | 2.0 | — | 4.0 5.4 | 0.88 (0.12-1.10) 1.22 (0.115-1.84) | 3.98 3.93 | 6.0 6.0 | 42 / 29 42 / 33 | 48 / — 50 / — | 61 63 | 13 (37) | 305 x 870 x 229 (540 x 780 x 289) | 15 | Indoor 10 |
| CS-E9FKR (CU-E9FKR) | 2.60 (0.80-3.00) 3.60 (0.80-5.00) | 8,870 (2,730-10,200) 12,300 (2,730-17,100) | 160 175 | 1.6 | — | 2.8 3.8 | 0.60 (0.175-0.78) 0.845 (0.165-1.36) | 4.33 4.26 | 6.0 6.0 | 39 / 26 40 / 27 | 46 / — 47 / — | 59 60 | 9 (37) | 280 x 799 x 183 (540 x 780 x 289) | 15 | Outdoor 10 |
| CS-E12FKR (CU-E12FKR) | 3.50 (0.80-4.00) 4.90 (0.80-6.70) | 11,900 (2,730-13,600) 16,700 (2,730-22,800) | 178 187 | 2.0 | — | 4.3 5.6 | 0.965 (0.185-1.20) 1.26 (0.175-1.89) | 3.63 3.89 | 6.0 5.5 | 42 / 29 42 / 33 | 48 / — 50 / — | 61 63 | 9 (37) | 280 x 799 x 183 (540 x 780 x 289) | 15 | Outdoor 10 |
| CS-E15FKR (CU-E15FKR) | 4.40 (0.90-5.00) 5.50 (0.90-7.10) | 15,000 (3,070-17,100) 18,800 (3,070-24,200) | 183 197 | 2.4 | — | 6.2 7.0 | 1.37 (0.215-1.60) 1.57 (0.245-2.25) | 3.21 3.50 | 4.5 4.5 | 43 / 32 43 / 35 | 46 / — 46 / — | 59 59 | 9 (48) | 280 x 799 x 183 (750 x 875 x 345) | 15 | Outdoor 10 |
| CS-E18FKR (CU-E18FKR) | 5.30 (0.90-6.00) 6.60 (0.90-8.00) | 18,100 (3,070-20,500) 22,500 (3,070-27,300) | 253 278 | 2.9 | — | 7.3 7.9 | 1.65 (0.215-2.05) 1.79 (0.245-2.65) | 3.21 3.69 | 4.5 5.0 | 44 / 37 44 / 37 | 47 / — 47 / — | 60 60 | 11 (49) | 275 x 998 x 230 (750 x 875 x 345) | 20 | Outdoor 15 |
| CS-E21FKR (CU-E21FKR) | 6.30 (0.90-7.10) 7.20 (0.90-8.50) | 21,500 (3,070-24,200) 24,600 (3,070-29,000) | 270 288 | 3.5 | — | 9.0 8.8 | 2.06 (0.215-2.40) 2.00 (0.245-2.70) | 3.06 3.60 | 4.0 4.5 | 45 / 37 45 / 37 | 48 / — 49 / — | 61 62 | 11 (51) | 275 x 998 x 230 (750 x 875 x 345) | 20 | Outdoor 20 |
| CS-E24FKR (CU-E24FKR) | 7.20 (0.90-8.10) 8.60 (0.90-9.90) | 24,600 (3,070-27,600) 29,300 (3,070-33,800) | 282 305 | 4.2 | — | 10.3 11.1 | 2.30 (0.35-2.70) 2.51 (0.36-3.20) | 3.13 3.43 | 4.0 4.0 | 47 / 38 47 / 38 | 52 / — 52 / — | 66 66 | 12 (72) | 275 x 998 x 230 (795 x 900 x 320) | 30 | Outdoor 20 |
| CS-E28FKR (CU-E28FKR) | 8.10 (0.90-8.60) 9.60 (0.90-11.00) | 27,600 (3,070-29,300) 32,700 (3,070-37,500) | 295 312 | 4.8 | — | 12.0 14.4 | 2.72 (0.35-2.95) 3.25 (0.36-3.79) | 2.98 2.95 | 3.5 3.0 | 49 / 38 48 / 38 | 53 / — 53 / — | 67 67 | 12 (72) | 275 x 998 x 230 (795 x 900 x 320) | 30 | Outdoor 20 |

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

*2 Additional Gas might be required for some models.

Single Split



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

| Model No. (240V) | Cooling Capacity Heating Capacity | | Air Flow | | Dehumid Pa(mmHg) | Running Current A | Power Input kW | EER COP | Star Rating | Sound Pressure Level*1 dB (A) | | Sound Power Level dB (A) | Net Weight kg | Dimensions Height x Width x Depth mm | Maximum Pipe Length*2 m | Power Supply A |
|----------------------------------|--------------------------------------|------------------|------------|-----|---------------------|-------------------------|----------------------|--------------|----------------|----------------------------------|-----------------|-----------------------------|------------------|--|----------------------------------|----------------------|
| | kW | Btu/h | L/s | L/h | | | | | | Inside (Hi/Lo) | Outside (Hi/Lo) | | | | | |
| CS-W7DKR (CU-W7DKR) | 2.30 2.45 | 7,840 8,350 | 132 152 | 1.5 | — | 3.2 3.0 | 0.72 0.685 | 3.19 3.58 | 5.0 6.0 | 34/26 36/26 | 47/— 49/— | 62 64 | 9 (26) | 280 x 799 x 183 (510 x 650 x 230) | 10 | Indoor 10 |
| CS-W9DKR (CU-W9DKR) | 2.75 3.05 | 9,380 10,400 | 143 162 | 1.6 | — | 3.8 3.8 | 0.875 0.865 | 3.14 3.53 | 4.5 5.5 | 36/26 39/26 | 49/— 50/— | 64 65 | 9 (29) | 280 x 799 x 183 (510 x 650 x 230) | 10 | Indoor 10 |
| CS-W12EKR (CU-W12EKR) | 3.60 3.90 | 12,300 13,300 | 178 182 | 2.1 | — | 5.0 4.9 | 1.1 1.09 | 3.27 3.58 | 4.5 4.5 | 41/29 42/29 | 50/— 50/— | 65 66 | 8 (35) | 280 x 799 x 183 (540 x 780 x 289) | 15 | Indoor 10 |
| CS-W18DKR (CU-W18DKR) | 5.30 5.75 | 18,100 19,600 | 255 267 | 2.9 | — | 7.8 7.8 | 1.81 1.80 | 2.93 3.19 | 4.0 3.5 | 43/38 42/38 | 50/— 51/— | 63 64 | 11.0 (56.0) | 275 x 998 x 230 (750 x 875 x 345) | 25 | Indoor 10 |
| CS-W24EKR (CU-W24EKR) | 7.03 7.80 | 24,000 26,600 | 290 303 | 4.0 | — | 11.1 11.7 | 2.37 2.46 | 2.97 3.17 | 3.5 3.0 | 47/41 46/41 | 53/— 54/— | 66 67 | 11.0 (63.0) | 275 x 998 x 230 (750 x 875 x 345) | 25 | Indoor 20 |

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

*2 Additional Gas might be required for some models.

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 |

- 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.

Optional Accessories

Filters

Replacement SUPER alleru-buster filter - Long-life type (10 years)

| CZ-SA15P | Applicable Models |
|----------|-----------------------------|
| | CZ-SA15P |
| | Wall-Mounted (Super Deluxe) |
| | CS-XE9EKE, CS-XE12EKE |

Replacement: every 10 years

Replacement SUPER alleru-buster filter & Deodorizing filter

| CZ-SAD13P | Applicable Models |
|-----------|--|
| | CZ-SAD13P |
| | Wall-Mounted (Deluxe, Deluxe-Wide) |
| | CS-E9FKR, CS-E12FKR, CS-E15FKR, CS-E18FKR, CS-E21FKR, CS-E24FKR, CS-E28FKR |

Replacement: every 3 years

Replacement SUPER alleru-buster filter

| CZ-SA13P, CZ-SA14P | Applicable Models | |
|--------------------|--|--|
| | CZ-SA13P | CZ-SA14P |
| | Wall-Mounted (Deluxe, Deluxe-Wide), Cassette (4-way) | Wall-Mounted (Super Deluxe Slim), Floor or Ceiling |
| | CS-E9DKRW, CS-E12DKRW, CS-E15DKRW, CS-E18DKRW, CS-ME7DKRG, CS-W7DKR, CS-W9DKR, CS-W12EKR, CS-V7DKR, CS-V9EKR, CS-V12DKR, CS-W18DKR, CS-W24EKR, CS-A28DKR, CS-V18DKR, CS-V24EKR, CS-V28EKR, CS-E15DB4EW, CS-E18DB4EW, CS-E21DB4ES | |
| | CS-TE9DKE, CS-TE12DKE, CS-E15DTEW, CS-E18DTEW, CS-E21DTEW, CS-ME10DTEG | |

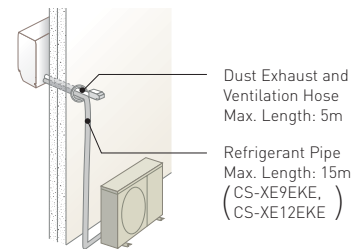
Replacement: every 3 years

Installation Parts

Dust Exhaust and Ventilation Hose (The indoor unit includes a 2-metre hose)

| CZ-HV3P CZ-HV5P | Applicable Models | |
|--------------------|---|--|
| | Extension Hose (3m) | Replacement Hose (5m) with Tip Cover |
| | CZ-HV3P | CZ-HV5P |
| | Can be added to the included 2-metre hose if necessary. | Use to replace the included 2-metre hose for concealed piping use. Use with the included 2-metre hose or the CZ-HV3P is not permitted. (Maximum hose length is 5 m.) |
| | CS-XE9EKE, CS-XE12EKE | |

Hose Extension (Maximum Length)



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Panasonic

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