Panasonic ideas for life

Air Conditioners 2007 / 2008



C-ion Air Purifying System & INVERTER







A New Dimension in Air Quality and Comfort

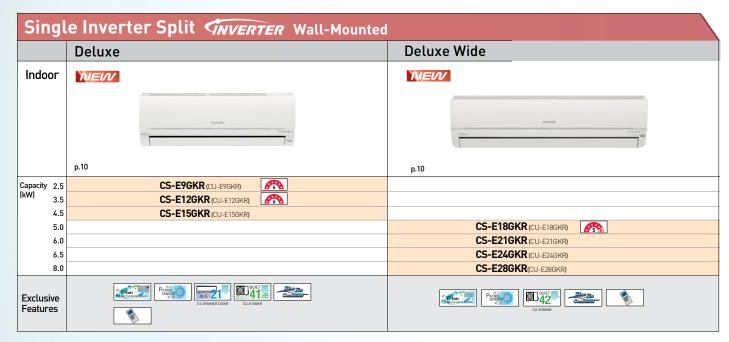
Experience a new dimension in comfort with Panasonic's new air conditioners.

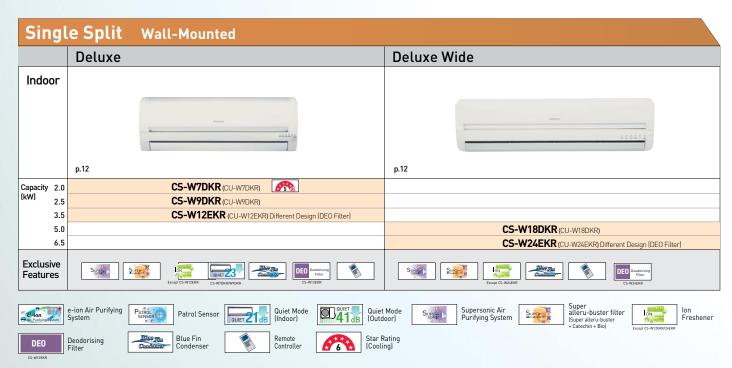
Better air quality than ever, surprising energy savings and fine temperature control – these advanced models have it all.



Model Line-Up Choose the Best Inverter







Industry-leading quiet operation for more comfort

Quiet Mode

The new Quiet Mode is even more effective than before. As well as providing quieter indoor unit operation, it offers a new function that also reduces outdoor unit noise.



C-ion Air Purifying System with Patrol Sensor

A revolutionary new mechanism catches dust particles and brings them back to the filter, working with the Patrol Sensor to thoroughly clean the air.

Industry first*1



Dust is negatively charged and airborne bacteria and mould are inactivated

■Total Clean Mechanism

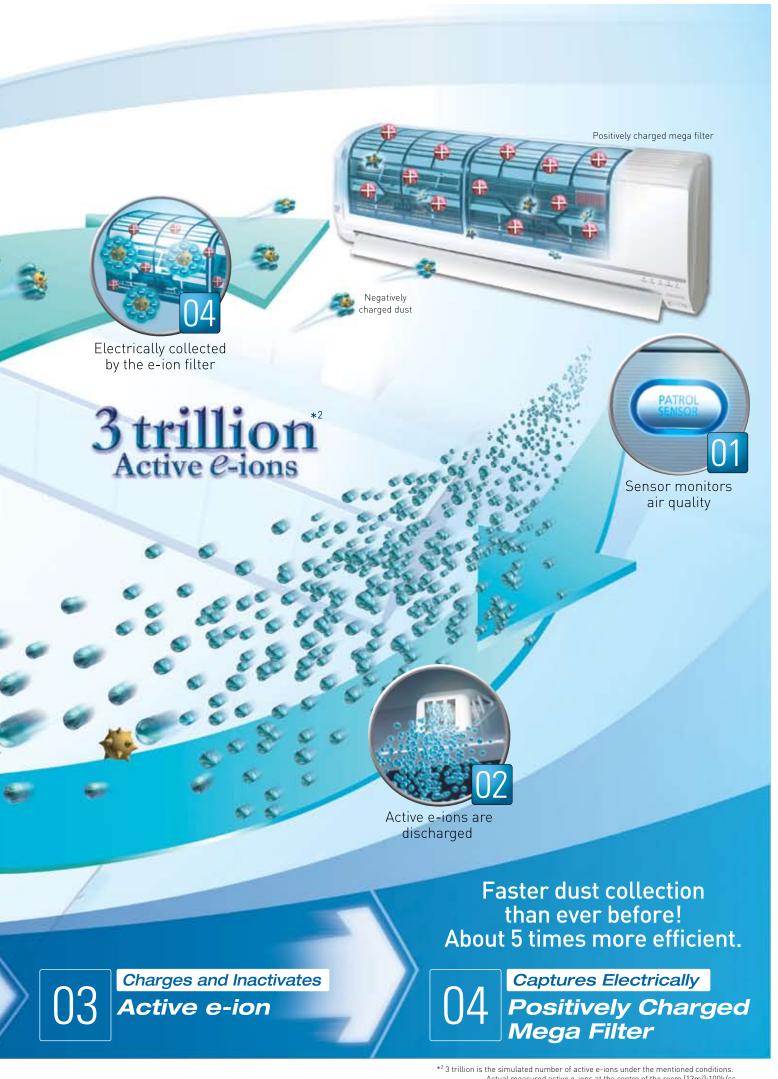
01

Detects the Dirt
Patrol Sensor

02

Shoots and Catches

Active e-ion Generator



Patrol Sensor

A sensor monitors dirt in a room 24 hours a day!

Air is monitored both during air conditioner operation and when it's switched off. When dirt is detected, the air purifying function is started to immediately clean the air in the room.

How It Works

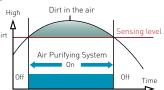
■ Monitoring

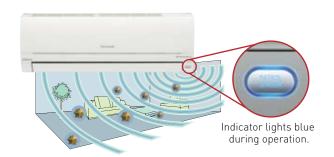
Whether the air conditioner is operating or not, the sensor constantly monitors dirt in the air.

■ Detection

The sensor measures the dirt in the air, and above a certain level the air is judged to be dirty.

If dirt concentration exceeds the sensing level, the Air Purifying System is switched on.





This kind of dirt is detected







body odour





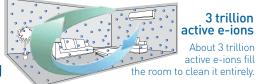


Garbage odour Pet odour



lueActive $oldsymbol{\mathcal{C}}$ -ion

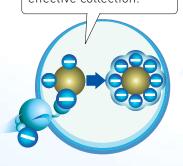
Shot out to catch and inactivate airborne bacteria and mould

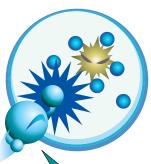


Active e-ions have two actions

Negative Charging

Negatively charges dust particles for effective collection.





Inactivating

Inactivates bacteria and mould to make them harmless.

Inactivating Effect

■Active e-ion: inactivating mechanism

The same inactivating mechanism for mould and vir







Active e-ions stick to the surface of bacteria. on the cell wall.

OH radicals work

The bacteria are inactivated.

The illustration is simulated

■ Target substances - -







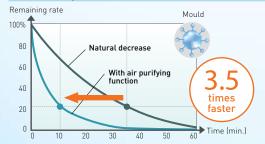


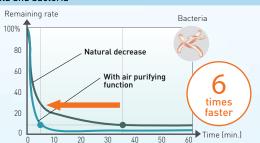
Mould *99% inactivation was certified as indicated below.

77% inactivation was certificated as induced secon.
Certificated by Japan Food Research Laboratories

•Test report number: No. 205010211-001 Bacteria: Staphylococcus aureus subsp. aureus (NBRC12732) •Test report number: No. 204101750-001 Virus: Influenza virus A

Removal performance Change in airborne mould and bacteria





Measurement conditions

Certificated by Japan Food Research Laboratories Test report number: 304110078-001 Test method: The e-ion Air Purifying System was operated in a test room (10m²) and changes in airborne mould and bacteria were measured by means of the Air Sampler Method (MAS100).



lacktriangle Mega $oldsymbol{\mathcal{C}}$ -ion Filter

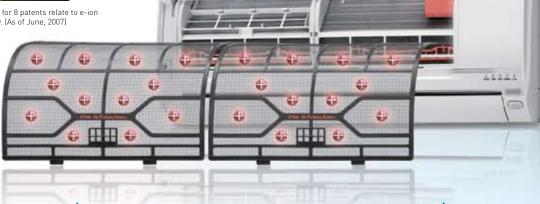
Big and electric - that's why the dust can't escape!

Using the force of attraction between positive and negative charges, the e-ion Filter – which is 7 times bigger and finer than ever - powerfully captures dust particles.





*Panasonic has applied for 8 patents relate to e-ion Air Purifying technology. (As of June, 2007)



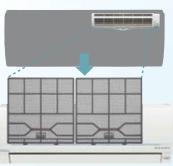
Thorough Collection with a Bigger, Finer Filter

The mega size air purifying filter covers almost the same area as the intake grille to prevent dust from escaping.

Conventional

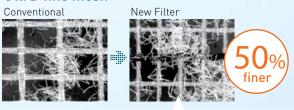
e-ion Filter





The filter covers the entire grille area.

Ultra-fine mesh



Also captures microscopic dust (100~1,000μm)

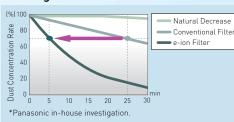
More Effective Collection with Electric Action

The entire filter is positively charged to powerfully attract negatively charged dust.





■ Changes in dust concentration





Electric charging



Electric Induction Fibres extend area of the filter.

- በ Active e-ion Power Module
- Positive Charging Electric Wire
- B Electric Induction Fibres positively charge the entire filter.

¹ For an air conditioner with a dust collection system that releases negative ions from an ion generator to negatively charge dust particles and then collect them with the entire surface of a positively charged filter. (As of June, 2007)

^{*2} After 5 cigarettes were smoked in a roughly 20m3 room, air conditioner operation was started and the decrease in particulate concentration was measured with a dust meter.

Inverter Technology



Advanced Inverter Performance —The Difference in Power and Comfort

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.

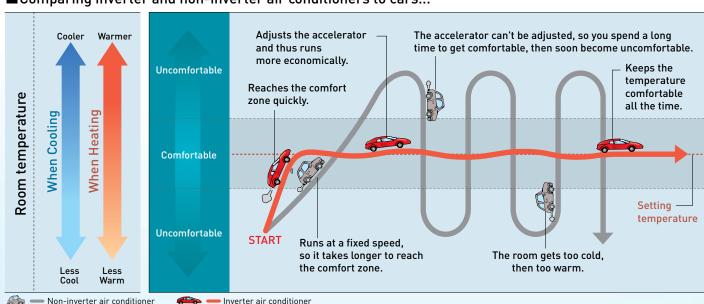
WHAT'S AN INVERTER?



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

The advantages of an inverter air conditioner

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





More Advantages with Panasonic



e-scroll Compressor

Saves energy:

Newly developed bearing reduces oscillation and mechanical loss.

Compact size, light weight:

New DC motor with rare-earth magnet and no accumulator.

Less noise and vibration:

Smooth, continuously operating vortex blades



15,000 Btu/h and above models

O DC Inverter (Hyper Wave Inverter)

Original Panasonic inverter circuit technology provides detailed motor current control. A comfortable room temperature is maintained with less energy, vibration, and noise.

Our conventional inverter

The current waveform deviates from the motor voltage

waveform, so nower is wasted.



■ Hyper Wave Inverter

The current waveform closely matches the motor voltage waveform, so power

consumption is reduced



Compare this to a car rounding a corner

Power is wasted when the car swings off course.

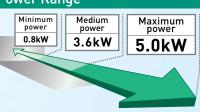
When the car stays right on course, there's no power loss.

15.000 Btu/h and above models

Even Wider Output Power Range

Provides higher energy saving and finer room temperature adiustment.

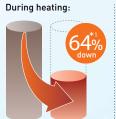
The graph shows the CS-E9GKR's wide power output range during heating.



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.

■ Electric Consumption **During Cooling:**



CS-W9DKR CS-E9GKR

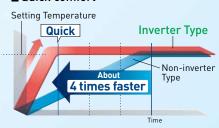
CS-W12EKR CS-E12GKR

*1 Comparison of cumulative electricity consumption during heating to reach the setting temperature [Panasonic in-house comparison] Test conditions: Indoor and outdoor temperature: 7°C/ Setting temperature: 25°C/ Fan speed: High *2 Comparison of cumulative electricity consumption during 8 hours of cooling [Panasonic in-house comparison] Test conditions: Room temperature at start: 35°C/ Setting temperature: 25°C

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 a quarter 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



*Comparison of 9,000 Btu inverter and non-inverter models during heating.



The indoor unit delivers whisper-quiet operation and the noise of the outdoor unit has also been reduced. Better still, using the Quiet Mode lowers noise even further to just 21dB for the indoor unit and 41dB for the outdoor unit. So now you can enjoy a comfortable night's sleep without bothering the neighbours.







*1 CS-E9/E126KR: In the Quiet mode during cooling operation with low fan speed *2 CU-E156KR: In the Quiet mode during cooling / heating operation with low fan speed

Single Inverter Split

Wall-Mounted









Model No	CS-E18GKR	CS-E21GKR
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
Star Rating	5.0 <mark>/5.0</mark>	4.0/4.5

A P A P A	Provide a control of the control of					
Model No	CS-E24GKR	CS-E28GKR				
Capacity(kW)	7.40(0.90~8.10) / 8.60(0.90~9.90)	8.10(0.90~8.60)/9.60(0.90~11.00)				
(Btu/h)	25,200(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)	3.02/3.43	2.98 <mark>/2.95</mark>				
Star Rating	4.0/4.0	3.5/3.0				

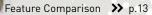














Specifications >> p.16









Single Split

Wall-Mounted



Model No	CS-W7DKR	CS-W9DKR	CS-W12EKR Different design (DEO Filter)
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)	3.19/3.58	3.14/3.53	3.27/3.58
Star Rating	5.0/6.0	4.5 <mark>/5.5</mark>	4.5/4.5

















Model No	CS-W18DKR	CS-W24EKR Different design (DEO Filter)
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
Star Rating	4.0/3.5	3.5/3.0













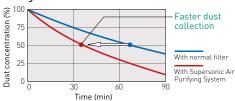
Supersonic Air Purifying System with SUPER alleru-buster • SUPER alleru-buster filter



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 collects dust and dirt in the air for faster, more efficient air purification.

■Changes in dust concentration







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

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. Inactivates more than 99% of all filter-captured viruses Enzymatic action eliminates more than 99% of all filter-captured bacteria



Specifications >> p.16



Feature Comparison



				Sing	le Inverter Split	Single Split				
				1	Wall-Mounted	Wal	l-Mounted			
				CS-E9GKR CS-E12GKR CS-E15GKR	CS-E18GKR CS-E21GKR CS-E24GKR CS-E28GKR	CS-W7DKR CS-W9DKR CS-W12EKR	CS-W18DKR CS-W24EKR			
				7						
		e-ion Air Purifying Sy	ystem	•	•					
	Patrol 🔷	Patrol Sensor		•	•					
Lit		Supersonic Air Purify	ying System			•	•			
Healthy Air Quality	***	SUPER alleru-buste	r filter			•	•			
ıy Air	ૄion √	Ion Freshener				(W7/W9)	(W18)			
ealth	DEO	Deodorising Filter				(W12)	(W24)			
T		One-Touch Air Filter				•	•			
		Odour-Removing Fu	nction	•	•	•	•			
		Removable, Washabl	le Panel	•	•	•	•			
	~	Inverter Control		•	•					
	<i>,</i>	inverter Control	Indoor	•	•					
	mode	Quiet Mode								
	<u> </u>	Powerful Mode	Outdoor	(E15)	•	•				
			lada				•			
و		Soft Dry Operation M		•	•		•			
Comfortable		Personal Airflow Cre	Wide & Long Airflow Vane							
omf					•		•			
8		Airflow Direction Contr Manual Horizontal Ai		•		•				
	*0\(\varphi\)	Direction Control Auto Changeover (Inv	wartarl							
	*****	Auto Changeover (III	verter)	•		•				
		Hot Start Control		•	•	•	•			
		Thot Start Control					•			
nient	24	24-Hour ON&OFF Rea	al Setting Timer	•	•	•	•			
Convenient	Min	LCD Wireless Remo	ote Controller	•	•	•	•			
		Blue Fin Condens		•	•	•	•			
	- /-	Random Auto Res	start	•	•	•	•			
Reliable		Long Piping		15m	20m(E18/E21) 30m(E24/E28)	10m(W7/W9) 15m(W12)	25m			
Reli		Plug Type & Ampe *The plug must be installe	ere Capacity	Outdoor Power Supply	Outdoor Power Supply	① 10A	① 10A(W18) ① 20A(W24)			
	* 	Top-Panel Mainten	ance Access	•	•	•	•			
		Self-Diagnostic Fo	unction	•	•					

Feature Explanations

Healthy Air Quality



e-ion Air Purifying System

Active e-ions are shot out to catch dust and inactivate airborne bacteria and mould. The positively charged mega filter attracts dust to thoroughly clean



Patrol 🔷

Patrol Sensor

Air is monitored both during air conditioner operation and when it's switched off. When dirt is detected, the

air purifying function is started to immediately clean the air in the



lon 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.



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.



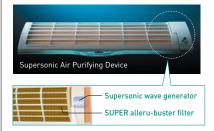
Odour-Removing Function

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

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.

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



Anti-Mould, One-Touch Air Filter



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.



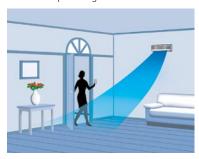
The Quiet Mode reduces both indoor and outdoor unit operating sound.

This function is especially convenient for operation near a sleeping baby and at

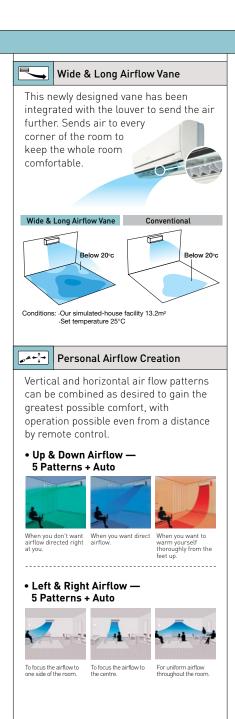


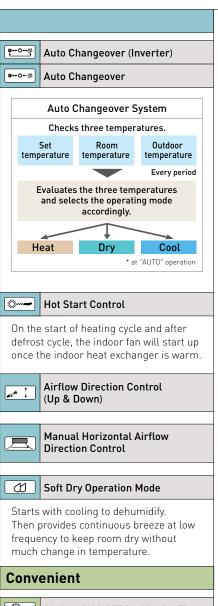
Powerful Mode

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.



The System of Model Numbers for Split Models CU 2 1 Model Type 3 Туре K : Wall-Mounted Type CS : Split Type (Indoor unit) CU : Split Type (Outdoor unit) CZ : Accessories 4 Capacity Value = Capacity (Btu/h) x 1/1000e.g. 18,000 Btu/h x 1/1000 = 18 2 Function E : Inverter Reverse Cycle W : Reverse Cycle





(1)24

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.



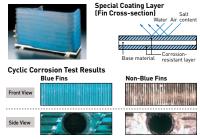
LCD Wireless Remote Controller

Reliable



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.



Matsushita Air Conditioning R&D Centre Sdn. Bhd.
 A third party authorized research institute in Malays

Random Auto Restart

All models are now safe to operate without a starter. With the exclusive Random Auto Restart feature, the air conditioners automatically restart after power failure. Its 32 different recovery-timing patterns ensure that air conditioners in the same building resume one after another instead of all at the same time. This feature helps prevent power surges after a blackout and walls are nearer too.



Long Piping

The basic piping can be extended, allowing the outdoor unit to be installed

farther away from the indoor unit and providing greater installation flexibility.



*The graph refers to the CS-E28GKR *Extendable length varies by model. *If the piping is extended past the basic pipe length, there's an extra charge for additional refrigerant.

Top-Panel Maintenance Access

Maintenance of the outdoor unit used to be quite a tedious chore, especially when the unit was installed on a narrow balcony or attached to the outer wall of a high-rise building.



Self-Diagnostic Function

Should a malfunction occur, the unit diagnoses the problem and shows the corresponding alphanumeric code. This allows quicker servicing.

Not all features found on all models.



ISO 9001 Certification

CERTIFIED TO MS ISO 9001: 2000 Panasonic HA Air-Conditioning (M) Sdn. Bnd. (PHAAM) Registration No.: AR 1010

This Panasonic air conditioner factory in Malaysia has received ISO 9001 certification. ISO 9001 Certification attests to the excellent quality assurance systems in place at this factory. About ISO 9001 Certification

ISO 9001 certification is granted only when thorough examination has shown that products are designed, manufactured, marketed and serviced by a system of quality that is complied with the internationally recognized ISO 9001 quality assurance standard. The Malaysian factory was certified by the world renowned SIRIM organization.



MS ISO 14001 CERT. NO. P06860001

CERTIFIED TO MS ISO 14001: 2004 Panasonic HA Air-Conditioning (M) Sdn. Bnd. (PHAAM) Certification No.: P06860001



Specifications

Single Inverter Split





Cooling (): Outdoor Unit

EER: Cooling Efficiency

											пеацпу			: neating El	incicitey
Model No.	Cooling Heating	Capacity Capacity	Air Flow	Dehumid	Running Current	Power Input	EER COP	Star Rating		Pressure 1 dB (A)	Sound Power Level dB	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length*2	Power Supply
(50Hz/240V)	kW	Btu/h	L/s	L/h	Α	kW	W/W	Tuting	Indoor (Hi/Lo/S-Lo)	Outdoor (Hi/S-Lo)	Outdoor(Hi)	kg	mm	m	
CS-E9GKR (CU-E9GKR)	2.60 (0.80~3.00) 3.60 (0.80~5.00)	8,870 (2,730~10,200) 12,300 (2,730~17,100)	173 183	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	39/26/21 40/27/24	46 / — 47 / —	59 60	9 (34)	280 x 799 x 183 (540 x 780 x 289)	15	Outdoor
CS-E12GKR (CU-E12GKR)	3.50 (0.80~4.00) 4.90 (0.80~6.70)	11,900 (2,730~13,600) 16,700 (2,730~22,800)	187 195	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	42/29/21 42/33/30	48 / — 50 / —	61 63	9 (35)	280 x 799 x 183 (540 x 780 x 289)	15	Outdoor
CS-E15GKR (CU-E15GKR)	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	43/32/25 43/35/32	46 / 41 46 / 41	59 59	9 (47)	280 x 799 x 183 (750 x 875 x 345)	15	Outdoor
CS-E18GKR (CU-E18GKR)	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	5.0 5.0	44/37/34 44/37/34	47 / 42 47 / 42	60 60	10 (49)	275 x 998 x 230 (750 x 875 x 345)	20	Outdoor
CS-E21GKR (CU-E21GKR)	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	45/37/34 45/37/34	48 / 43 49 / 44	61 62	10 (51)	275 x 998 x 230 (750 x 875 x 345)	20	Outdoor
CS-E24GKR (CU-E24GKR)	7.40 (0.90~8.10) 8.60 (0.90~9.90)	25,200 (3,070~27,600) 29,300 (3,070~33,800)	282 305	4.3	11.0 11.1	2.45 (0.35~2.70) 2.51 (0.36~3.20)	3.02 3.43	4.0 4.0	47/38/35 47/38/35	52 / 47 52 / 47	66 66	11 (63)	275 x 998 x 230 (795 x 900 x 320)	30	Outdoor
CS-E28GKR (CU-E28GKR)	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	49/38/35 48/38/35	53 / 48 53 / 48	67 67	11 (63)	275 x 998 x 230 (795 x 900 x 320)	30	Outdoor

Single Split



Model No.		Capacity Capacity	Air Flow	Dehumid	Running Current	Power Input	EER COP	Star Rating		Pressure *1 dB (A)	Sound Power Level dB	Net Weight	Dimensions Height x Width x Depth	Maximum Pipe Length*2	Power Supply
(50Hz/240V)	kW	Btu/h	L/s	L/h	Α	kW	W/W	Mating	Indoor (Hi/Lo/S-Lo)	Outdoor (Hi)	Outdoor (Hi)	kg	mm	m	
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	34/26/23 36/26/23	47 49	62 64	9 (26)	280 x 799 x 183 (510 x 650 x 230)	10	Indoor
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	36/26/23 39/26/23	49 50	64 65	9 (29)	280 x 799 x 183 (510 x 650 x 230)	10	Indoor
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	41/29/26 42/29/26	50 50	65 66	8 (35)	280 x 799 x 183 (540 x 780 x 289)	15	Indoor
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	43/38/35 42/38/35	50 51	63 64	11.0 (56.0)	275 x 998 x 230 (750 x 875 x 345)	25	Indoor
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	47/41/38 46/41/38	53 54	66 67	11.0 (63.0)	275 x 998 x 230 (750 x 875 x 345)	25	Indoor

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

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



The Matsushita Group actively develops environmentally-conscious products.

Energy

Our energy-conservation technologies help to minimise energy consumption.

Materials

None of the products we ship contain any specified chemical substances* regardless of market.

* Lead, cadmium, hexavalent chromium, mercury, specified bromine frame retardants (PBB, PBDE)

Factories

Our manufacturing sites around the world have acquired ISO 14001 certification.

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For further information or location of your nearest Panasonic stockist please telephone Panasonic's Customer Care Centre on 132 600

^{*2} Additional Gas might be required for some models.