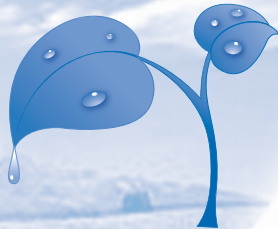


Panasonic®

Operating Instructions Air Conditioner

Indoor Unit
CS-RE9NKR
CS-RE12NKR

Outdoor Unit
CU-RE9NKR
CU-RE12NKR



ENGLISH

Before operating the unit, read these operating instructions thoroughly and keep them for future reference.



QUICK GUIDE

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NOTE: The illustrations in this manual are for explanation purposes only and may differ from the actual unit. They are subjected to change without notice for future improvement.

OPERATION CONDITION

Use this air conditioner under the following temperature range

Temperature (°C)		Indoor		Outdoor	
		*DBT	*WBT	*DBT	*WBT
COOLING	Max.	32	23	46	26
	Min.	16	11	16	11
HEATING	Max.	30	-	24	18
	Min.	16	-	-5	-6

*DBT: Dry bulb temperature

*WBT: Wet bulb temperature

SAFETY PRECAUTIONS


To prevent personal injury, injury to others, or property damage, please comply the following. Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:

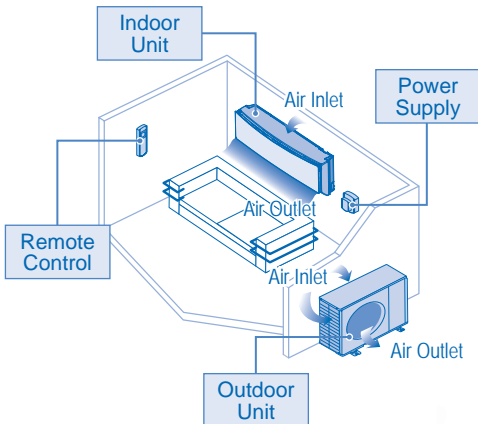
 **WARNING**
This sign warns of death or serious injury.










 **CAUTION**
This sign warns of injury or damage to property.

The instructions to be followed are classified by the following symbols:


This symbol denotes an action that is **PROHIBITED**.


These symbols denote an action that is **COMPULSORY**.



 WARNING	
INDOOR UNIT AND OUTDOOR UNIT	
	<p>This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.</p> <p>Please consult authorized dealer or specialist to clean the internal parts, repair, install, remove and reinstall the unit. Improper installation and handling will cause leakage, electric shock or fire.</p> <p>Confirm to authorized dealer or specialist on usage of specified refrigerant type. Using of refrigerant other than the specified type may cause product damage, burst and injury etc.</p>
	<p>Do not install the unit in a potentially explosive or flammable atmosphere. Failure to do so could result in fire.</p> <p>Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury. </p> <p>Do not touch the outdoor unit during lightning, it may cause electric shock.</p> <p>Do not expose yourself directly to cold air for a long period to avoid excess cooling.</p> <p>Do not sit or step on the unit, you may fall down accidentally. </p>
REMOTE CONTROL	
	<p>Do not allow infants and small children to play with the remote control to prevent them from accidentally swallowing the batteries.</p>
POWER SUPPLY	
	<p>Do not use modified cord, joint cord, extension cord or unspecified cord to prevent overheat and fire.  </p> <p>To prevent overheating, fire or electric shock:</p> <ul style="list-style-type: none"> • Do not share the same power outlet with other equipment. • Do not operate with wet hands. • Do not over bend the power supply cord. • Do not operate or stop the unit by inserting or pulling out the power plug.



WARNING

POWER SUPPLY



If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

It is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electric shock or fire.

To prevent overheating, fire or electric shock:

- Insert the power plug properly.
- Dust on the power plug should be periodically wiped with a dry cloth.

Stop using the product if any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker.

(Risk of smoke/fire/electric shock)

Examples of abnormality/failure

- The ELCB trips frequently.
- Burning smell is observed.
- Abnormal noise or vibration of the unit is observed.
- Water leaks from the indoor unit.
- Power cord or plug becomes abnormally hot.
- Fan speed cannot be controlled.
- The unit stops running immediately even if it is switched on for operation.
- The fan does not stop even if the operation is stopped.

Contact your local dealer immediately for maintenance/repair.

Replacement or installation of power plugs shall be performed by authorized/qualified personnel only. The wires in this mains lead are coloured in accordance with the following code:

Terminals	Wires	colours (IEC Standard)
L Red	live	brown
N Black	neutral	blue
E Green/Yellow	earth	green-yellow

Wiring colour may vary depending on a country wiring code's standard.



This equipment must be earthed to prevent electric shock or fire.



Prevent electric shock by switching off the power supply and unplugging when:

- Before cleaning or servicing.
- Extended non-use.
- Abnormally strong lightning activity.



CAUTION

INDOOR UNIT AND OUTDOOR UNIT



Do not wash the indoor unit with water, benzene, thinner or scouring powder to avoid damage or corrosion at the unit.

Do not use for preservation of precise equipment, food, animals, plants, artwork or other objects. This may cause quality deterioration, etc.

Do not use any combustible equipment in front of the airflow outlet to avoid fire propagation.

Do not expose plants or pet directly to airflow to avoid injury, etc.

Do not touch the sharp aluminium fin, sharp parts may cause injury.



Do not switch ON the indoor unit when waxing the floor. After waxing, aerate the room properly before operating the unit.

Do not install the unit in oily and smoky areas to prevent damage to the unit.

Do not dismantle the unit for cleaning purpose to avoid injury.

Do not step onto unstable bench when cleaning the unit to avoid injury.

Do not place vase or water container on the unit. Water may enter the unit and degrade the insulation. This may cause an electric shock.

Do not open window or door for long time during COOL mode operation.



Ensure drainage pipe is connected properly and keep drainage outlet clear of gutters, containers or does not immersed in water to prevent water leakage.

After a long period of use or use with any combustible equipment, aerate the room regularly.

After a long period of use, make sure the installation rack is not deteriorate to prevent the unit from falling down.

REMOTE CONTROL



Do not use rechargeable (Ni-Cd) batteries. It may damage the remote control.



To prevent malfunction or damage of the remote control:

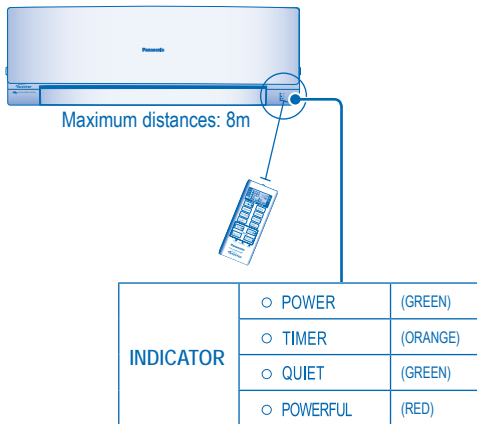
- Remove the batteries if the unit is not going to be used for a long period of time.
- New batteries of the same type must be inserted following the polarity stated.

POWER SUPPLY



Do not pull the cord to disconnect the plug to prevent electric shock.

REMOTE CONTROL



Press the remote control's button

1 TO TURN ON OR OFF THE UNIT

- Please be aware of the OFF indication on the remote control display to prevent the unit from starting/stopping improperly.

2 TO SET TEMPERATURE

- Selection range: 16°C ~ 30°C.
- Operating the unit within the recommended temperature could induce energy saving.
HEAT mode : 20°C ~ 24°C.
COOL mode : 26°C ~ 28°C.
DRY mode : 1°C ~ 2°C lower than room temperature.

3 TO SELECT OPERATION MODE

AUTO mode - For your convenience

- During operation mode selection the power indicator blinks.
- Unit selects the operation mode according to the indoor intake temperature and remote control temperature.

HEAT mode - To enjoy warm air

- In heat mode, it may take a while for the unit to warm up. The POWER indicator blinks during preheating.

COOL mode - To enjoy cool air

- Use curtains to screen off sunlight and outdoor heat to reduce power consumption during cool mode.

DRY mode - To dehumidify the environment

- Unit operates at low fan speed to give a gentle cooling operation.

4 TO SELECT FAN SPEED (5 OPTIONS)



- For AUTO, the indoor fan speed is automatically adjusted according to the operation mode.

5 TO ADJUST AIRFLOW DIRECTION (5 OPTIONS)



- Keeps the room ventilated.
- In COOL mode, if AUTO is set, the louver swing up/down automatically.
- In HEAT mode, if AUTO is set, the horizontal louver fix at predetermined position.

6 TO ACHIEVE TEMPERATURE QUICKLY

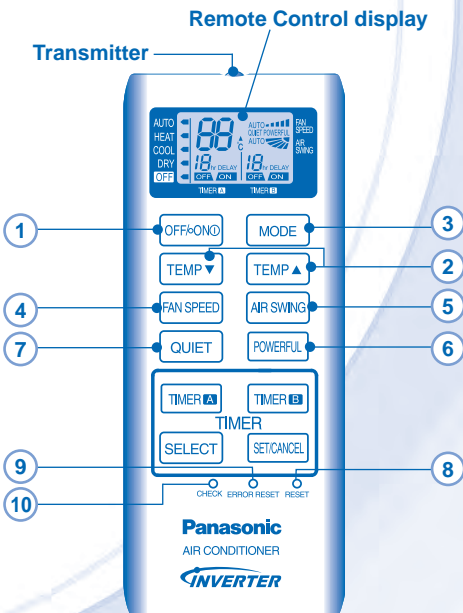
- This setting enables the desired set temperature to be reached quickly.

7 TO ENJOY QUIET ENVIRONMENT

- This setting provides a quiet environment by reducing the airflow noise.
- POWERFUL and QUIET operations can not be activated at the same time.

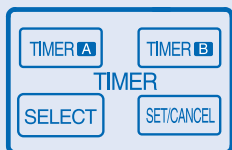
8 PRESS TO RESTORE THE REMOTE CONTROL'S DEFAULT SETTING

9 10 NOT USED IN NORMAL OPERATIONS



TO SET THE TIMER (12-HOUR TIMER SETTING)

- When you want the air conditioner to turn ON or OFF automatically.



DELAY OFF-TIMER

For example, to stop the air conditioner 5 hours later.

- 1 To select the Delay OFF-TIMER, press the **SELECT** button once.
- 2 Press the **TIMER A** button to select the delay hour.
 - The OFF-TIMER can only be set while the air-conditioner is in operation.

DELAY ON-TIMER

For example, to start the air conditioner 2 hours later.

- 1 To select the Delay ON-TIMER, press the **SELECT** button once.
- 2 Press the **TIMER B** button to select the delay hour.
 - The ON-TIMER can only be set while the air-conditioner is not in operation.

DELAY OFF AND ON TIMER

For example, to stop the air conditioner 3 hours later and start 4 hours later.

- 1 To select the Delay OFF and ON Timer, press the **SELECT** button twice repeatedly.
- 2 Press the **TIMER A** button to select the delay hour for OFF Timer.
- 3 Press the **TIMER B** button to select the delay hour for ON Timer.
 - This mode of timer can only be set while the air-conditioner is in operation.

DELAY ON AND OFF TIMER

For example, to start the air conditioner 7 hours later and stop 10 hours later.

- 1 To select the Delay ON and OFF Timer, press the **SELECT** button twice repeatedly.
- 2 Press the **TIMER A** button to select the delay hour for ON Timer.
- 3 Press the **TIMER B** button to select the delay hour for OFF Timer.
 - This mode of timer can only be set while the air-conditioner is not in operation.

TO CONFIRM THE TIMER SETTING

Press the **SET/CANCEL** button once to activate the timer operation which will start when the set time is reached.

TO CANCEL THE TIMER SETTING

Press the **SET/CANCEL** button again to cancel the timer operation.

- The timer indicator of the indoor unit will light up during the timer operation.
- When ON Timer is set, the unit may start earlier before the actual set time in order to achieve the desired temperature on time.
- If you press operation **OFF/ON** button during the timer setting operation, timer setting will be cancelled.
- If timer is cancelled manually or due to power failure, you can restore the timer again by repeating steps above (once power is resumed).

INDOOR UNIT



CAUTION

- Switch off the power supply and unplug before cleaning.
- **Do not touch the aluminium fin, sharp parts may cause injury.**

CLEANING INSTRUCTIONS

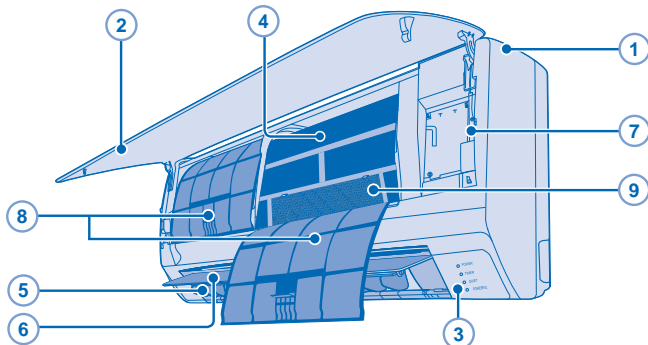
- Do not use benzene, thinner or scouring powder.
- Use only soap (≈ pH7) or neutral household detergent.
- Do not use water hotter than 40°C.

HINT

- To ensure optimal performance of the unit, cleaning maintenance have to be carried out at regular intervals.

NOTE

- If chemical cloth is used to wipe the unit, instruction for the cloth should be followed.



1 INDOOR UNIT

- Wipe the unit gently with a soft, dry cloth.

2 FRONT PANEL

Remove Front Panel

- Raise and pull to remove the front panel.
- Wash gently and dry.

Close Front Panel



- Press down both ends of the front panel to close it securely.

3 RECEIVER

4 ALUMINIUM FIN

5 HORIZONTAL AIRFLOW DIRECTION LOUVER

- Manually adjustable.



WARNING

Be careful not to insert your fingers into the unit to avoid injuring by cross-flow fan.



6 VERTICAL AIRFLOW DIRECTION LOUVER

- Do not adjust by hand.

7 AUTO OFF/ON BUTTON

- Use when remote control is misplaced or malfunction.

Action	Mode
Press once.	Auto
Press and hold until 1 beep is heard, then release.	Cooling
Press and hold until 1 beep is heard, then release.	Heating
Press again until 2 beeps, then release.	
Press the button to turn off.	

8 AIR FILTERS

- Clean the filters regularly.
- Wash/rinse the filters gently with water to avoid damage to the filter surface.
- Dry the filters thoroughly under the shade, away from fire or direct sunlight.
- Replace any damage filter.

9 ANTI-BACTERIAL FILTER

- It is recommended to clean this filter every 6 months.(Vacuum)
- Replace the filter every 10 years or replace any damaged filter.

TROUBLESHOOTING

The following symptoms do not indicate malfunction.

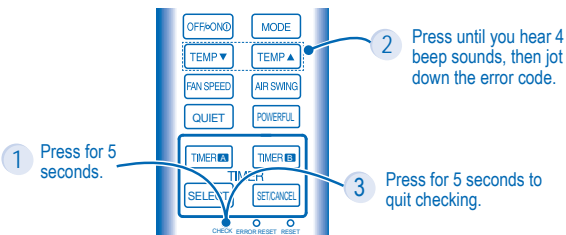
SYMPTOM	CAUSE
Mist emerges from indoor unit.	▶ Condensation effect due to cooling process.
Water flowing sound during operation.	▶ Refrigerant flow inside the unit.
The room has a peculiar odour.	▶ This may due to damp smell emitted by the wall, carpet, furniture or clothing.
Indoor fan stops occasionally during automatic fan speed setting.	▶ This helps to remove the surrounding odours.
Operation is delayed a few minutes after restart.	▶ The delay is a protection to the unit's compressor.
Outdoor unit emits water/steam.	▶ Condensation or evaporation occurs on pipes.
The unit operates automatically when power is resumed after a power failure.	▶ It is the Auto Restart function of the unit. Operation will be restarted automatically under the previous operation mode and air flow direction when power is resumed as the operation is not stopped by remote control.
Indoor fan stops occasionally during heating operation.	▶ To avoid unintended cooling effect.
POWER indicator blinks during HEAT mode.	▶ The unit is in defrost mode.
POWER indicator blinks 3 seconds ON and 0.5 seconds OFF during operation.	▶ The unit is in Demand Response Mode.
Cracking sound during operation.	▶ Changes of temperature cause the expansion/contraction of the unit.

Check the following before calling for servicing.

SYMPTOM	CHECK
Heating/Cooling operation is not working efficiently.	▶ Set the temperature correctly. ▶ Close all doors and windows. ▶ Clean or replace the filters. ▶ Clear any obstruction at the air inlet and air outlet vents.
Noisy during operation.	▶ Check if the unit has been installed at an incline. ▶ Close the front panel properly.
Remote control does not work. (Display is dim or transmission signal is weak.)	▶ Insert the batteries correctly. ▶ Replace weak batteries.
The unit does not work.	▶ Check if the circuit breaker is tripped. ▶ Check if timers have been set.
The unit does not receive the signal from the remote control.	▶ Make sure the receiver not obstructed. ▶ Certain fluorescent lights may interfere with signal transmitter. Please consult authorized dealer.

The unit stops and the timer indicator blinks.

Use remote control to retrieve error code.



4 Turn the unit off and reveal the error code to authorized dealer.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.



Pb

FOR SEASONAL INSPECTION AFTER EXTENDED NON-USE

- Checking of remote control batteries.
- No obstruction at air inlet and air outlet vents.
- Use Auto OFF/ON button to select Cooling/Heating operation. After 15 minutes of operation, it is normal to have the following temperature difference between air inlet and air outlet vents:
Cooling: $\geq 8^{\circ}\text{C}$ Heating: $\geq 14^{\circ}\text{C}$

FOR EXTENDED NON-USE

- Activate Heat mode for 2~3 hours as an alternative to remove moisture left in the internal parts thoroughly to prevent mould growth.
- Turn off the power supply.
- Remove the remote control batteries.










NON SERVICEABLE CRITERIAS

TURN OFF POWER SUPPLY then please consult authorized dealer under the following conditions:











- Abnormal noise during operation.
- Water/foreign particles have entered the remote control.
- Water leaks from Indoor unit.
- Circuit breaker switches off frequently.
- Power cord becomes unnaturally warm.
- Switches or buttons are not functioning properly.
- The timer indicator blinks and the unit can not be operated.

PRODUCT SPECIFICATION

- Indoor Unit
- Outdoor Unit

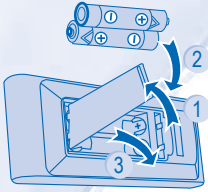
 Model		<input type="checkbox"/> CS-RE9NKR <input type="checkbox"/> CU-RE9NKR		<input type="checkbox"/> CS-RE12NKR <input type="checkbox"/> CU-RE12NKR		
		COOL	HEAT	COOL	HEAT	
		Single, 230V-240V, 50Hz		Single, 230V-240V, 50Hz		
 Power/Current	[kW]	0.650-0.650	0.810-0.810	0.940-0.940	1.100-1.100	
	[A]	3.10-3.05	3.80-3.75	4.20-4.10	5.00-4.90	
 Refrigerant	[kg]	R410A 0.740		R410A 0.970		
 Cooling Capacity	[kW]	2.50-2.50		3.50-3.50		
 Heating Capacity	[kW]	3.30-3.30		4.25-4.25		
 Noise Level	JIS C 9612 [<70 dB(A)]	<input type="checkbox"/>	42	42	42	42
	Conditions 1m Distance Max. cooling	<input type="checkbox"/>	47	48	48	50
	Sound power level	<input type="checkbox"/>	58	58	58	58
		<input type="checkbox"/>	63	64	64	66
 Air Circulation	[m ³ /min.]	12.4	12.1	12.7	12.4	
 Product Weight	[kg]	<input type="checkbox"/>	8.0		8.0	
		<input type="checkbox"/>	25		27	
 Dimensions (H × W × D)	[mm]	<input type="checkbox"/>	290 × 848 × 213		290 × 848 × 213	
		<input type="checkbox"/>	540 × 780 × 289		540 × 780 × 289	

1. Standard piping length: 5m(Indoor Unit piping length is not included).
2. Air filters are attached.

Translations	Deutsch	Français	Greek	Italian	Nederland	Portuguese	Spanish	Bulgarian	Turkish	Arabic	Swedish	Norwegian	Persian
Product Specification	Produktspezifikation	Caractéristiques du produit	Παραμέτρους προϊόντος	prezisione del prodotto	productkenmerken	Expecificações do produto	Expecificación de productos	Чарактеристики продукта	Ürün Özellikleri	مواصفات المنتج	Produkters specifikationer	Produktes spesifikasjoner	مشخصات فنی محصول
 Model Indoor Unit  Outdoor Unit	Modell Innegerät Außengerät	Modèle Unité intérieure Unité extérieure	Μοντέλο Εσωτερικό Εξωτερικό	Modello Impianto interno Impianto esterno	Model Binnenunit Buitenunit	Modelo Elemento interior Elemento exterior	Modelo Equipo interior Equipo exterior	Модел Внутреннее Внешнее	Modell Dış Ünite	طراز الداخلية الخارجية	Modell Innensplit Utersensplit	Modell Innensplit Utersensplit	مدل واحد داخلی واحد خارجی
 Power / Current	Stromversorgung	Alimentation	Παροχή ρεύματος	Corrente	Stroom	Potência	Corriente	Електрооско захраняване	Güç / Akım	القوة الكهربائية	Effektström	Effektstrøm	توان جریان
 Refrigerant	Kühlmittel	Refrigerant	ψυκτικό μέσο	Refrigerante	Koelmiddel	Refrigerante	Refrigerante	Охлаждаче капацитет	Sogutucu	الغاز الباردة	Kjølemiddel	Kjølemiddel	سدر کننده
 Cooling Capacity	Kühlleistung	Capacité refrigérante	Καύση ψύξης	Refrigerazione	Cooling Capacity	Capacidade do resfriamento	Potencia figurativa	Охлаждаче капацитет	Sogutma Kapasitesi	سعة التبريد	Kylkapacitet	Kjølekapasitet	ظرفیت سردایش
 Heating Capacity	Heizleistung	Capacité chauffage	Καύση θέρμανσης	Riscaldamento	Verwarming Capacity	Capacidade do aquecimento	Potencia calorífica	Зеряваче капацитет	Isılma Kapasitesi	سعة التدفئة	Uppvärmingskapazität	Varmekapasitet	ظرفیت گرمایش
 Noise Level Conditions 1 m Distance Max. Cooling Sound power level	Lärmpegel Bedingungen 1 m Abstand Max. Kühlung Schalldienstleistung	Niveau de bruit Conditions Distance 1 m Repossession max. Niveau de puissance sonore	Επίπεδο θορύβου Συνθήκες Απόσταση 1 μέτρο Μέγ. ψύξης Στάθμη ισχύος θορύβου	Livello di rumore Condizioni Distanza di 1 m Raffreddamento max. Livello rumore sonora	Lawaapaciteit Verhouding 1 m afstand Max. Kühlung Geluidniveau sonora	Nível do barulho Condições Distância de 1 m Resfriamento máximo Nível de alimentação sonora	Niveau sonore Conditions 1 m de distancia 1 m uzaklık Max. Kuyulma Max. güç seviyesi Ses seviyesi	Ниво на шума Условија 1 m растојание Максимална Моќност за хладнење на шума на ниво на звука	Ses seviyesi Kosullar 1 m uzaklık Maks. Kuyulma Ses seviyesi	شماره شرایط 1 متر فاصله حداکثر سردایش میزان نویز	Störnivå Villkor 1 m avstånd Maks. kylning Ljudeffektiva lydnivå	Störnivå Villkor 1 m avstånd Maks. kylning Ljudeffektiva lydnivå	میزان نویز شرایط 1 متر فاصله حداکثر سردایش میزان نویز
 Air Circulation	Luftcirkulation	Ventilation	Κυκλοφορία αέρα	Circolazione aria	Luftcirculatie	Circulação do ar	Circulación de aire	Βαθμονα αποκλιμακω	Hava Davri	دوران الهواء	Luftflöde	Luftstrømming	گردش هوا
 Product weight	Produktgewicht	Poids du produit	Βάρος του προϊόντος	Peso prodotto	Productgewicht	Peso do produto	Peso del producto	Тегна на продукта	Ürün ağırlığı	وزن المنتج	Produktets vekt	Produktets vekt	وزن محصول
 Dimensions	Abmessungen	Dimensions	Διαστάση	Misure	Afmetingen	Dimensões	Medidas	Размери	Ebatlar	الأبعاد	Mått	Mål	ابعاد

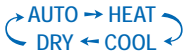
QUICK GUIDE

Remote Control Preparation

- 
- 1 Remove the battery cover
 - 2 Insert AAA or R03 batteries (can be used ~ 1 year)
 - 3 Close the cover

1

MODE



Select the desired mode.

2

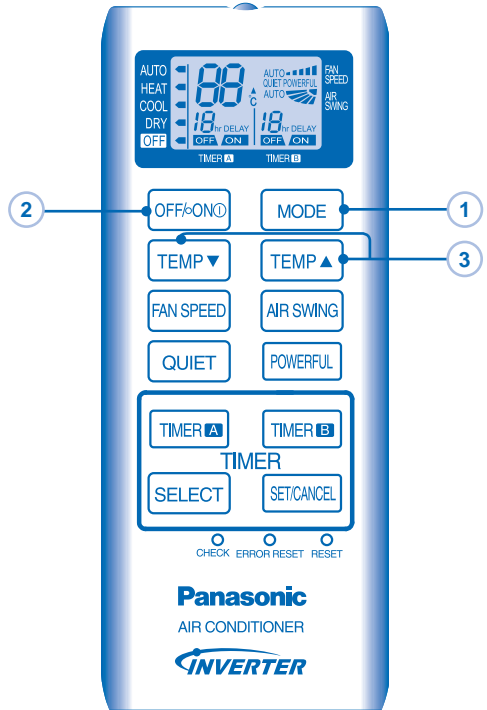
OFF/ON

Start/stop the operation.

3

TEMP

Select the desired temperature.



Panasonic Corporation
Website: <http://panasonic.net/>