



Operating Instructions

Air Conditioner



Model No.

Indoor Unit

CS-HZ25YKR
CS-HZ35YKR
CS-HZ50YKR
CS-HZ71YKR
CS-HZ80YKR

Outdoor Unit

CU-HZ25YKR
CU-HZ35YKR
CU-HZ50YKR
CU-HZ71YKR
CU-HZ80YKR

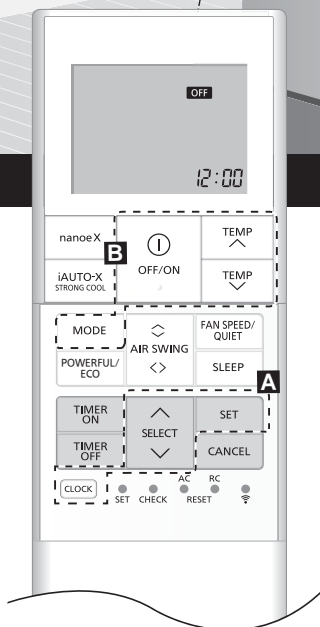
Operating Instructions Air Conditioner

Before operating the unit, please read these operating instructions thoroughly and keep them for future reference. Before installation, the installer should: Read the Installation Instructions, then request the customer keep them for future reference. Remove the remote control packed with the indoor unit.



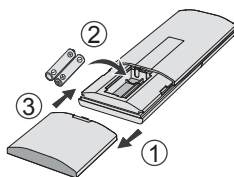
A new built-in Network Adaptor that allows you to control your air conditioner unit operation from anywhere.

Use the remote control within 8 m from the remote control receiver on the indoor unit.



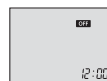
Quick Guide

Inserting the batteries



- ① Pull out the back cover of remote control.
- ② Insert AAA or R03 batteries.
- ③ Close the cover.

A Clock setting



- ① Press **CLOCK**, then press **SELECT** to set the time.

- Press **CLOCK** for approximately 5 seconds to show the time as 12-hour (am/pm) or 24-hour.

- ② Press **SET** to confirm.

Thank you for purchasing
Panasonic Air Conditioner.

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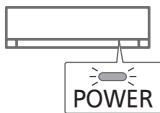
Accessories

- Remote control
- AAA or R03 batteries × 2
- Remote control holder
- Screws for remote control holder × 2

The illustrations in this manual are for explanation purposes only and may differ from the actual unit. They are subject to change without notice.

B Basic operation

- ① Press  to start/stop the operation.

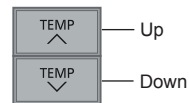


- When the unit is ON, **OFF** disappears from the remote control display.


- ② Press  to select the desired mode.



- ③ Press **TEMP UP**, **TEMP DOWN** to select the desired temperature.

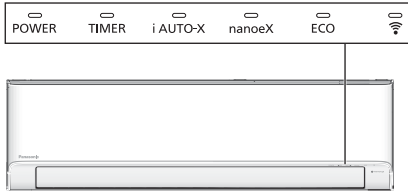


Selection range:
16.0 °C ~ 30.0 °C /
60 °F ~ 86 °F.

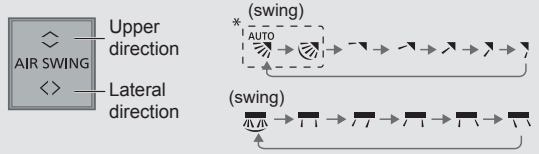
- Press  for approximately 10 seconds to show the temperature as °C or °F.

How to Use

Indicators



To adjust airflow direction



- Do not adjust the flap by hand.
- * For details operation, refer "To Learn More...."

To adjust FAN SPEED and QUIET condition



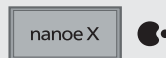
FAN SPEED:

- When FAN AUTO is selected, the fan speed is adjusted automatically according to the operation mode.
- Select the lowest fan speed (■) to have a low noise operation.
- When iAUTO-X mode is selected, the fan speed is automatically set to AUTO. To adjust the fan speed, cancel iAUTO-X mode.

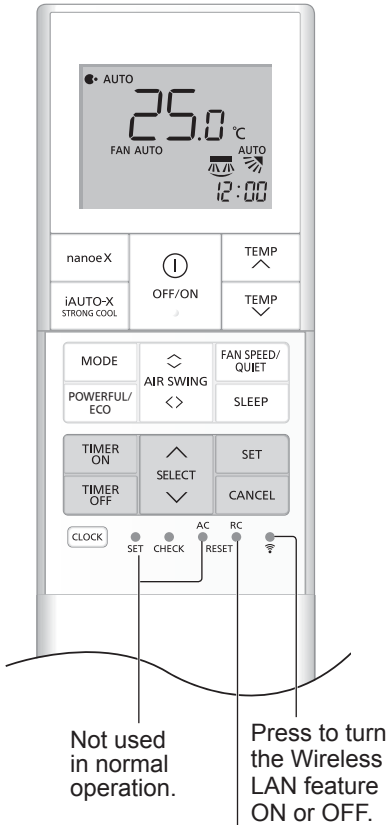
QUIET:

- This operation reduces airflow noise.

To enjoy fresher and cleaner environment



- This operation provides cleaner air, moisturises your skin and hair, and deodorises odours in the room.
- Press nanoe™X to activate this operation, either when the unit is ON or OFF. During nanoe™X individual operation, the fan speed will follow the remote control setting.
- If nanoe™X is activated before the unit is turned off, the nanoe™X operation will resume when the unit is turned on. This includes when TIMER ON is set.

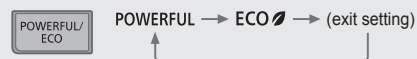


Not used in normal operation.

Press to turn the Wireless LAN feature ON or OFF.

Press to restore the remote control to default setting.

To switch between POWERFUL/ECO



POWERFUL:

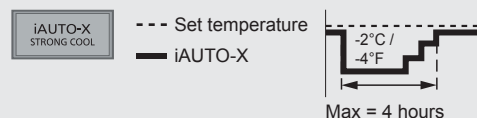
To reach the desired temperature quickly



- This operation is automatically stop after 20 minutes.

ECO:

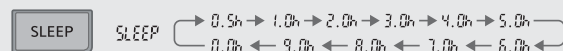
- To reduce power consumption for better energy saving without sacrificing comfort.
- ECO function cannot be activated during iAUTO-X mode.

To reach the desired temperature quickly



- When iAUTO-X mode is turned on, the unit automatically reduces the temperature by 2°C (4°F) from the set temperature to accelerate the room cooling effect.
- Fan speed is set to AUTO and you cannot change the fan speed.
- After a maximum of 4 hours, the unit returns to the last set temperature. To extend iAUTO-X operation, press  again to reactivate the iAUTO-X.
- When the unit is OFF and you want to reach the desired temperature quickly, press  to turn on the unit in iAUTO-X mode.

To maximise comfort while sleeping



- This operation provides you with a comfortable environment while sleeping. It will automatically adjust the sleep pattern temperature during the activation period.
- The indoor unit indicator will dim when this operation is activated. This is not applicable if the indicator brightness has been manually dimmed.
- This operation is incorporated with the activation timer (0.5, 1, 2, 3, 4, 5, 6, 7, 8 or 9 hours).
- This operation can be set together with timer. Sleep operation has the priority over OFF timer.
- This operation can be cancelled by pressing the respective button until the sleep timer reaches 0.0h.

To connect to a network

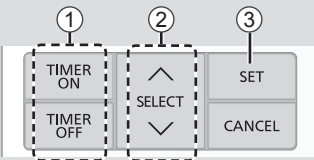


- For Wireless LAN Module operation setup, please refer to additional Setup Instructions Manual.

How to Use

To set the timer

You can set the timer to turn on and off the unit at 2 different preset time.



① Select TIMER ON or TIMER OFF.
• Each time pressed:
→ ⓪1 → ⓪2 → (exit setting)

② Set the time.

③ Confirm the setting.

Example:
OFF at 22:00

TIMER OFF, OFF ⓪1 0:00, SELECT, OFF ⓪1 22:00, SET, OFF ⓪1 22:00

- To cancel the timer, press **TIMER ON** or **TIMER OFF** to select the respective setting ⓪1 or ⓪2, then press **CANCEL**.
- If the timer has been cancelled manually or due to power failure, you can restore the timer again. Press **TIMER ON** or **TIMER OFF** to select the respective setting ⓪1 or ⓪2, then press **SET**.
- The nearest timer setting is displayed and will activate in sequence.
- The timer operation follows the clock setting on the remote control and will repeat daily when timer has been set. For clock setting, refer to Quick Guide.

Note

SLEEP , POWERFUL/ECO , nanoe X • Can be selected at the same time.	POWERFUL/ECO , FAN SPEED/QUIET • POWERFUL, QUIET and FAN SPEED cannot be selected at the same time.
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To Learn More...

Operation mode

- It is possible to operate the indoor units individually or simultaneously. The priority of operation is placed on the first unit that turned on.
- During operation, HEAT and COOL modes cannot activate at the same time for different indoor units.
- The power indicator blinks to indicate the indoor unit is standing by for different operation mode.

- AUTO** : The POWER indicator blinks at the initial stage.
- The unit will select an operation mode every 10 minutes depending on the setting and room temperature.
- HEAT** : The POWER indicator blinks at the initial stage. The unit will take some time to warm up.
- If the HEAT mode system has been locked, and other operation mode is selected, the indoor unit stops and the POWER indicator blinks.
- COOL** : Provides efficient comfort cooling to suit your needs.
- DRY** : Operates at low fan speed for a gentle cooling operation.
- FAN** : To circulate air in the room.
- iAUTO-X** : Provides fast cooling operation which is ideal on a hot day.

Energy saving temperature setting

You may save energy when operating the unit within the recommended temperature range.

HEAT : 20.0 °C ~ 24.0 °C / 68 °F ~ 75 °F.

COOL: 26.0 °C ~ 28.0 °C / 79 °F ~ 82 °F.

Air flow direction

AUTO In COOL/DRY mode:



The horizontal flap is fixed at middle position setting. Once the temperature is achieved, the horizontal flap swings up/down automatically.

In iAUTO-X mode:

The horizontal flap swings up/down automatically at a predetermined position. Once the temperature is achieved, the horizontal flap is fixed at upper position.

In HEAT mode:

The horizontal flap is fixed at a predetermined position.

The vertical flap will swing according to the selection. If the vertical flap is set to auto in Heat mode, the vertical flap will swing left and right when the temperature rises.



In COOL/DRY/iAUTO-X mode:

The horizontal flap swings up/down automatically.

In HEAT mode:

The horizontal flap is fixed to upper position when discharge air temperature is cold.

The horizontal flap swings up-down automatically when discharge air temperature is warm.

The vertical flap will swing according to the selection.

Auto restart control

When power is resumed after a power failure, the operation will restart automatically with the last operation mode and airflow direction.

- This control is not applicable when TIMER is set.

To Learn More...

Operating conditions

Use this air conditioner in the temperature range indicated in the table.

Temperature °C (°F)		Indoor		Outdoor	
		DBT	WBT	DBT	WBT
COOL	Max.	32 (89.6)	23 (73.4)	46 (114.8)	26 (78.8)
	Min.	16 (60.8)	11 (51.8)	-10 (14.0)	-
HEAT	Max.	30 (86.0)	-	24 (75.2)	18 (64.4)
	Min.	16 (60.8)	-	-15 (5.0)	-

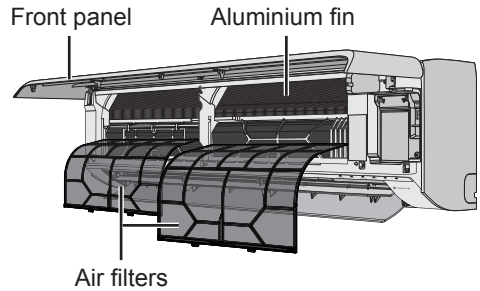
DBT: Dry bulb temperature, WBT: Wet bulb temperature

Cleaning the Air Conditioner

Cleaning has to be carried out at regular intervals to ensure the unit is at optimal performance. A dirty unit may cause malfunction and you may retrieve "H 99" error code. Consult an authorised dealer.

- Before cleaning, switch off the power supply and unplug the unit.
- Do not touch the aluminium fin as the sharp parts may cause injury.
- Do not use benzine, thinner or scouring powder.
- Use soap (\approx pH 7) or neutral household detergent only.
- Do not use water hotter than 40 °C / 104 °F.

Indoor unit



Indoor unit

Wipe the unit gently with a soft and dry cloth. The coils and fans should be cleaned periodically by an authorised dealer.



Outdoor unit

Clean the debris that surround the unit. Clear any blockage from the drain pipe.

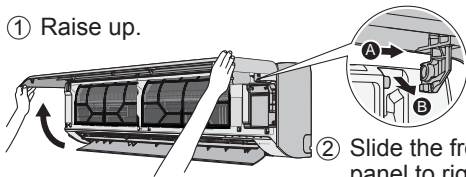


Front panel

Wash gently and dry.

How to remove front panel

- ① Raise up.



- ② Slide the front panel to right **A** and pull out **B**.

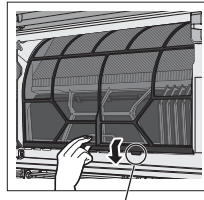
Air filters

Once every 2 weeks



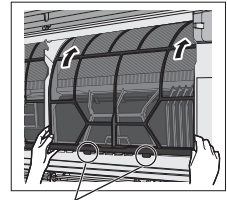
- Wash/rinse the filters gently with water to avoid damaging the surface.
- Dry the filters thoroughly under a shade, away from fire or direct sunlight.
- Replace any damaged filters.

Remove air filter



Remove from the unit

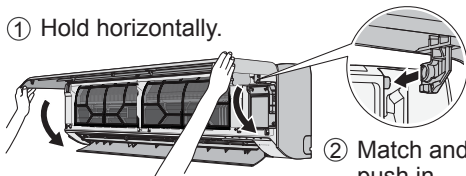
Attach air filter



Insert into the unit

Close it securely

- ① Hold horizontally.



- ② Match and push in.

- ③ Close down.
- ④ Press both ends and center of the front panel.

Troubleshooting

The following symptoms do not indicate malfunction.

Symptom	Cause
POWER indicator blinks before the unit is switched on.	<ul style="list-style-type: none"> This is the preliminary step to prepare for the TIMER operation after it has been set. When Timer is set ON, the unit may start earlier (up to 35 minutes) before the actual set time to achieve the desired temperature on time.
POWER indicator blinks during HEAT mode with no warm air supply (and flap is closed).	<ul style="list-style-type: none"> The unit is in defrost mode (and AIR SWING has been set to AUTO).
POWER indicator blinks, then stops blinking during COOL/DRY mode.	<ul style="list-style-type: none"> The system has been locked to operate in HEAT mode only.
TIMER indicator is always ON.	<ul style="list-style-type: none"> When Timer has been set, the Timer setting repeats daily.
Operation is delayed a few minutes after restarting.	<ul style="list-style-type: none"> The delay is a protection to the unit's compressor.
Cooling/heating capacity is reduced during lowest fan speed setting.	<ul style="list-style-type: none"> The lowest fan speed is to have a low noise operation, so cooling/heating capacity may be reduced depending on the condition. Increase the fan speed to increase the capacity.
Indoor fan stops occasionally during heating operation.	<ul style="list-style-type: none"> To avoid unintended cooling effect.
Indoor fan stops occasionally during automatic fan speed setting.	<ul style="list-style-type: none"> This is to help remove the surrounding odour.
Airflow continues even after operation has stopped.	<ul style="list-style-type: none"> To extract the remaining heat from the indoor unit (maximum 30 seconds).
The room has a peculiar odour.	<ul style="list-style-type: none"> This may be due to damp smell emitted by the wall, carpet, furniture or clothing.
Cracking sound during operation.	<ul style="list-style-type: none"> Changes in temperature caused the unit to expand and contract.
Water flowing sound during operation.	<ul style="list-style-type: none"> Refrigerant flow inside the unit.
Mist emerges from indoor unit.	<ul style="list-style-type: none"> During cooling operation, the discharged cold air may condense to water vapour.
Outdoor unit emits water or steam.	<ul style="list-style-type: none"> During cooling operation, condensation occurs on cold pipes and the condensed water may drip from the outdoor unit. During heating operation, frost formed on the outdoor unit during deice cycle melts and is discharged as water or steam.
Discoloration of some plastic parts.	<ul style="list-style-type: none"> Discoloration is subjected to the types of materials used in plastic parts. It is accelerated when exposed to heat, sun light, UV light or environmental factors.
Soft buzzing sound from indoor unit during nanoe™X operation.	<ul style="list-style-type: none"> It is normal when the nanoe™X generator is working. If you are concerned about the sound, cancel the nanoe™X operation.
Wireless LAN indicator is ON when the unit is OFF.	<ul style="list-style-type: none"> The unit's wireless LAN connection with the router has been activated.

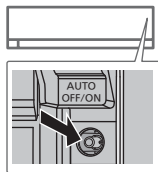
Check the following before calling for servicing.

Symptom	Check
Operation in HEAT/COOL mode is not working efficiently.	<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• 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.)	<ul style="list-style-type: none">• Insert the batteries correctly.• Replace weak batteries.
The unit does not work.	<ul style="list-style-type: none">• Check if the circuit breaker is tripped.• Check if timers have been set.
The unit does not receive the signal from the remote control.	<ul style="list-style-type: none">• Make sure the receiver is not obstructed.• Certain fluorescent lights may interfere with the signal transmitter. Consult an authorised dealer.
The nanoe™X indicator at the indoor unit is not ON when nanoe™X is activated.	<ul style="list-style-type: none">• Use the remote control to retrieve the error code and consult an authorised dealer.

Troubleshooting


When...

■ The remote control is missing or a malfunction has occurred



1. Raise the front panel.
2. Press AUTO OFF/ON once to use in iAUTO-X mode.
3. Press AUTO OFF/ON hold for 5 seconds until you hear 1 beep, then release to use in forced COOL mode. (This operation shall be performed by service personnel)
4. Press AUTO OFF/ON hold for 8 seconds until you hear 2 beep, then release to use in forced HEAT mode. (This operation shall be performed by service personnel)
5. Press AUTO OFF/ON again to turn off the unit.

■ The indicators are too bright

- To dim or restore the indicators' brightness on the unit, press  on the remote for 5 seconds.

■ Conducting a seasonal inspection after extended period of non-use

- Check the batteries.
- Check that there is no obstruction around the air inlets and outlet vents.
- Use AUTO OFF/ON on the unit to select COOL or HEAT mode. For details, refer "The remote control is missing or a malfunction has occurred" above. After 15 minutes of operation, it is normal to have the following temperature difference between the air inlet and outlet vents:

COOL: $\geq 8^{\circ}\text{C} / 14.4^{\circ}\text{F}$ HEAT: $\geq 14^{\circ}\text{C} / 25.2^{\circ}\text{F}$

■ The units will not be used for an extended period

- Activate HEAT mode for 2~3 hours to remove any moisture left in the internal parts thoroughly. This is to prevent mould growth.
- Turn off the power supply and unplug the unit.
- Remove the batteries from the remote control.

NON SERVICEABLE CRITERIAS

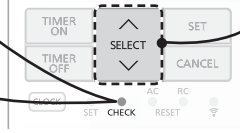
TURN OFF THE POWER SUPPLY AND UNPLUG THE UNIT. Then consult an authorised dealer in the following conditions:

- Abnormal noise during operation.
- Water/foreign particles have entered the remote control.
- Water is leaking from the indoor unit.
- The circuit breaker switches off frequently.
- The power cord becomes unnaturally warm.
- The switches or buttons are not functioning properly.

How to retrieve error codes

If the unit stops and the TIMER indicator blinks, use the remote control to retrieve the error code.

- ① Press for 5 seconds
- ② Press until you hear beep sound, then write down the error code
- ③ Press for 5 seconds to quit checking
- ④ Turn the unit off and inform the error code to an authorised dealer.



• For certain errors, you may restart the unit for limited operation if there are 4 beeps when operation starts.

Diagnostic display	Abnormality/Protection control
H 00	No memory of failure
H 11	Indoor/outdoor abnormal communication
H 12	Indoor unit capacity unmatched
H 14	Indoor intake air temperature sensor abnormality
H 15	Outdoor compressor temperature sensor abnormality
H 16	Outdoor current transformer (CT) abnormality
H 17	Outdoor suction temperature sensor abnormality
H 19	Indoor fan motor mechanism lock
H 21	Indoor float switch operation abnormality
H 23	Indoor heat exchanger temperature sensor 1 abnormality
H 24	Indoor heat exchanger temperature sensor 2 abnormality
H 25	Indoor ion device abnormality
H 26	Minus ION abnormality
H 27	Outdoor air temperature sensor abnormality
H 28	Outdoor heat exchanger temperature sensor 1 abnormality
H 30	Outdoor discharge pipe temperature sensor abnormality
H 31	Abnormal swimming pool sensor
H 32	Outdoor heat exchanger temperature sensor 2 abnormality
H 33	Indoor/outdoor misconnection abnormality
H 34	Outdoor heat sink temperature sensor abnormality
H 35	Indoor/outdoor water adverse current abnormality
H 36	Outdoor gas pipe temperature sensor abnormality
H 37	Outdoor liquid pipe temperature sensor abnormality
H 38	Indoor/outdoor mismatch (brand code)
H 39	Abnormal indoor operating unit or standby units

Diagnostic display	Abnormality/Protection control
H 41	Abnormal wiring or piping connection
H 50	Ventilation fan motor locked
H 51	Ventilation fan motor locked
H 52	Left-right limit switch fixing abnormality
H 58	Indoor gas sensor abnormality
H 59	Eco sensor abnormality
H 64	Outdoor high pressure sensor abnormality
H 67	nanoe abnormality
H 70	Light sensor abnormality
H 71	DC cooling fan inside control board abnormality
H 72	Abnormality tank temperature sensor
H 85	Abnormal communication between indoor & wireless LAN module
H 97	Outdoor fan motor mechanism lock
H 98	Indoor high pressure protection
H 99	Indoor operating unit freeze protection
F 11	4-way valve switching abnormality
F 16	Total running current protection
F 17	Indoor standby units freezing abnormality
F 18	Dry circuit blocked abnormality
F 87	Control box overheat protection
F 90	Power factor correction (PFC) circuit protection
F 91	Refrigeration cycle abnormality
F 93	Outdoor compressor abnormal revolution
F 94	Compressor discharge pressure overshoot protection
F 95	Outdoor cooling high pressure protection
F 96	Power transistor module overheating protection
F 97	Compressor overheating protection
F 98	Total running current protection
F 99	Outdoor direct current (DC) peak detection

* Some error code may not be applicable to your model. Consult an authorised dealer for clarification.

Memo

Memo

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