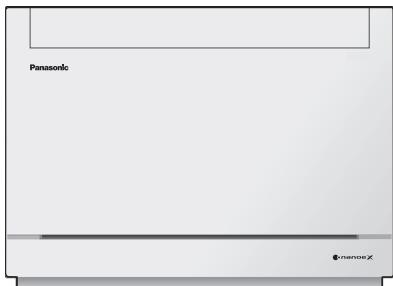




Operating Instructions

Air Conditioner



Model No.

Indoor Unit	Outdoor Unit
CS-Z25CFEAW-1	CU-Z25CFEA-1
CS-Z35CFEAW-1	CU-Z35CFEA-1

ENGLISH

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

Before installation, the installer must:

Read the Installation Instructions, then request the customer keep them for future reference.

Remove the remote control packed with the indoor unit.

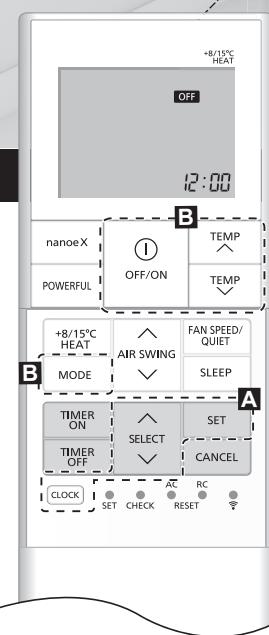


WEB-ACXF55-35341-EN

Console designed for discreet integration on walls, provides maximum comfort without compromising performance.

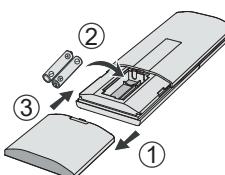


Use remote control within 8 m from the remote control receiver of the indoor unit.



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.



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Accessories

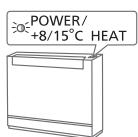
- Remote control
- AAA or R03 batteries × 2
- Remote control holder
- Screws for remote control holder × 2

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.

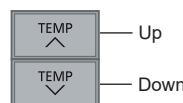


- When the unit is ON, **OFF** disappears from the remote control display.

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.

Safety Precautions

To prevent personal injury, injury to others or property damage, please comply with the following:

Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:

This appliance is not intended for accessibility by the general public.



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 actions COMPULSORY.

Note

Avoid any object to be placed in front or nearby the indoor units to prevent uneven air flow distribution.



WARNING

Indoor unit and outdoor unit



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

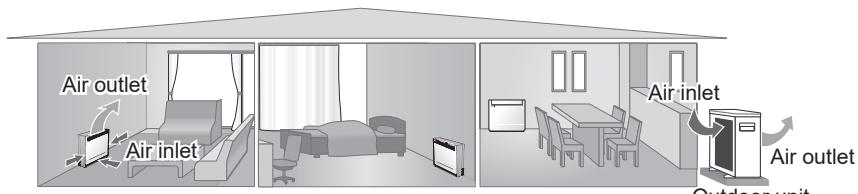
Please consult authorised dealer or specialist to clean the internal parts, repair, install, remove, disassemble and reinstall the unit. Improper installation and handling will cause leakage, electric shock or fire.

Confirm with authorised dealer or specialist on usage of any specified refrigerant type. Using refrigerant type other than the specified may cause product damage, burst and injury etc.



Do not use means to accelerate the defrosting process or to clean, other than those recommended by manufacturer.

Any unfit method or using incompatible material may cause product damage, burst and serious injury.





Do not install the unit in a potentially explosive or flammable atmosphere. Failure to do so could result in fire.

Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury.



Do not touch the outdoor unit during lightning, it may cause electric shock.

Do not expose yourself directly to cold air for a long period to avoid excess cooling.

Do not sit or step on the unit, you may fall down accidentally.



Remote control



Do not allow infants and small children to play with the remote control to prevent them from accidentally swallowing the batteries.

Power supply



Do not use a modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire.



To prevent overheating, fire or electric shock:

- 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.



If the supply cord is damaged, it must be replaced by the manufacturer, 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.



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



Prevent electric shock by switching off the power supply and unplug:

- Before cleaning or servicing,
- When extended non-use, or
- During abnormally strong lightning activity.

Safety Precautions



CAUTION

Indoor unit and outdoor unit

 Do not wash the indoor unit with water, benzine, 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 an unstable bench when cleaning the unit to avoid injury.

Do not place a 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 operation, it may lead to inefficient power usage and uncomfortable temperature changes.



Prevent water leakage by ensuring drainage pipe is:

- Connected properly,
- Kept clear of gutters and containers, or
- Not immersed in water

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 does 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.

When replacing/disposing/recycling of used batteries, use proper sorting/collection/disposal/recycling methods that comply with the appropriate battery legislation.

Power supply

 Do not disconnect the plug by pulling the cord to prevent electric shock.



WARNING



A2L

This appliance is filled with R32 (mildly flammable refrigerant).

If the refrigerant is leaked and exposed to an external ignition source, there is a possibility of ignition.

Indoor unit and outdoor unit



The appliance shall be installed, and/or operated in a room with floor area larger than A_{min} (m^2) and keep away from ignition sources, such as heat/sparks/open flame or hazardous areas such as gas appliances, gas cooking, reticulated gas supply systems or electric cooking appliances, etc. (Refer to Table A of Installation instructions table for A_{min} (m^2))

Be aware that refrigerant might not contain an odour, highly recommended to ensure suitable flammable refrigerant gas detectors are present, operating and able to warn of a leak.

Keep any required ventilation openings clear of obstruction.



Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources of ignition. Else it may explode and cause injury or death.

Precaution for using R32 refrigerant

The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models.



Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special. Especially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping and flare nuts with the R32 and R410A piping and flare nuts on the outdoor unit side.

For R32 and R410A, the same flare nut on the outdoor unit side and pipe can be used.

The mixing of different refrigerants within a system is prohibited. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety.

Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 1/2 inch.]

Must always ensure that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)

- Operation, maintenance, repairing and refrigerant recovery should be carried out by trained and certified personnel in the use of flammable refrigerants and as recommended by the manufacturer. Any personnel conducting an operation, servicing or maintenance on a system or associated parts of the equipment should be trained and certified.

Safety Precautions



- Any part of refrigerating circuit (evaporators, air coolers, AHU, condensers or liquid receivers) or piping should not be located in the proximity of heat sources, open flames, operating gas appliance or an operating electric heater.
- The user/owner or their authorised representative shall regularly check the alarms, mechanical ventilation and detectors, at least once a year, where as required by national regulations, to ensure their correct functioning.
- A logbook shall be maintained. The results of these checks shall be recorded in the logbook.
- In case of ventilations in occupied spaces shall be checked to confirm no obstruction.
- Before a new refrigerating system is put into service, the person responsible for placing the system in operation should ensure that trained and certified operating personnel are instructed on the basis of the instruction manual about the construction, supervision, operation and maintenance of the refrigerating system, as well as the safety measures to be observed, and the properties and handling of the refrigerant used.
- The general requirement of trained and certified personnel are indicated as below:
 - a) Knowledge of legislation, regulations and standards relating to flammable refrigerants; and,
 - b) Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention, handling of cylinders, charging, leak detection, recovery and disposal; and,



- c) Able to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and,
- d) Continuously undergo regular and further training to maintain this expertise.
- e) Air-conditioner piping in the occupied space shall be installed in such a way to protect against accidental damage in operation and service.
- f) Precautions shall be taken to avoid excessive vibration or pulsation to refrigerating piping.
- g) Ensure protection devices, refrigerating piping and fittings are well protected against adverse environmental effects (such as the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris).
- h) Expansion and contraction of long runs piping in refrigerating systems shall be designed and installed securely (mounted and guarded) to minimize the likelihood hydraulic shock damaging the system.
- i) Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities.
- j) To ensure no leaking, field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0.25 times the maximum allowable pressure. No leak shall be detected.



1. Installation (Space)

- Product with flammable refrigerants, shall be installed according to the minimum room area, A_{min} (m^2) mentioned in Table A of the Installation Instructions.
- In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled.
- Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
- Must ensure that pipe-work shall be securely mounted and guarded from physical damage.
- Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
- Must ensure mechanical connections be accessible for maintenance purposes.
- In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
- When disposal of the product, do follow to the precautions in #11 and comply with national regulations. Always contact to local municipal offices for proper handling.



2. Servicing

2-1. Service personnel

- The system is inspected, regularly supervised and maintained by a trained and certified service personnel who is employed by the person user or party responsible.
- Ensure the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
- Ensure refrigerant charge not to leak.
- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.

Safety Precautions

2-2. Work

- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the precautions in #2-2 to #2-8 must be followed before conducting work on the system.
- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.
- All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
- Avoid working in confined spaces. Always ensure away from source, at least 2 meter of safety distance, or zoning of free space area of at least 2 meter in radius.
- Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
- Keep all sources of ignition and hot metal surfaces away.

2-3. Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.
- In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
- In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorised personnel out.

2-4. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
- Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.



2-5. No ignition sources

- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it can lead to the risk of fire or explosion. They must not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.



2-6. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.



2-7. Checks to the refrigerating equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants.
 - The refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
 - The ventilation machinery and outlets are operating adequately and are not obstructed.
 - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
 - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
 - Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which can corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.

Safety Precautions

! 2-8. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- Initial safety checks shall include but not limit to:-
 - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
 - That no live electrical components and wiring are exposed while charging, recovering or purging the system.
 - That there is continuity of earth bonding.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereafter.

! 3. Sealed electrical components

- Sealed electrical components shall not be repaired.

! 4. Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

! 5. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.



6. The following leak detection methods are deemed acceptable for all refrigerant systems

- No leaks shall be detected using detection equipment with sensitivity to detect leakage of 5g/year of refrigerant or better under a pressure of at least 0.25 times the maximum allowable pressure, for example, a universal sniffer.
- Electronic leak detectors may be used to detect flammable refrigerants, but the sensitivity can be inadequate, or can need re-calibration.
(Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are also suitable for use with most refrigerants, for example, bubble method and fluorescent agent method. The use of detergents containing chlorine shall be avoided as the chlorine can react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/ extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. The precautions in #7 must be followed to remove the refrigerant.



7. Refrigerant removal and circuit evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to: safely remove refrigerant following local and national regulations -> evacuate -> purge the circuit with inert gas -> evacuate -> continuously flush with inert gas when using flame to open circuit -> open the circuit.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be purged with OFN to render the appliance safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Purging of the refrigerant circuit shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- The system shall be vented down to atmospheric pressure to enable work to take place.
- Ensure that the outlet of the vacuum pump is not close to any potential ignition sources and there is ventilation available.

OFN = oxygen free nitrogen, type of inert gas.

Safety Precautions



8. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
 - Ensure that contamination of different refrigerants does not occur when using charging equipment.
 - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
 - Cylinders shall be kept in an appropriate position according to the instructions.
 - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
 - Label the system when charging is complete (if not already labelled).
 - Extreme care shall be taken not to overfill the refrigerating system.
- Prior to recharging the system it shall be pressure tested with OFN (refer to #7).
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/ discharging.



9. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.
 - a) Become familiar with the equipment and its operation.
 - b) Isolate system electrically.
 - c) Before attempting the procedure ensure that:
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - all personal protective equipment is available and being used correctly;
 - the recovery process is supervised at all times by a competent person;
 - recovery equipment and cylinders conform to the appropriate standards.
 - d) Pump down refrigerant system, if possible.
 - e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
 - f) Make sure that cylinder is situated on the scales before recovery takes place.
 - g) Start the recovery machine and operate in accordance with instructions.
 - h) Do not overfill cylinders. (No more than 80 % volume liquid charge).



- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/ discharging.



10. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.



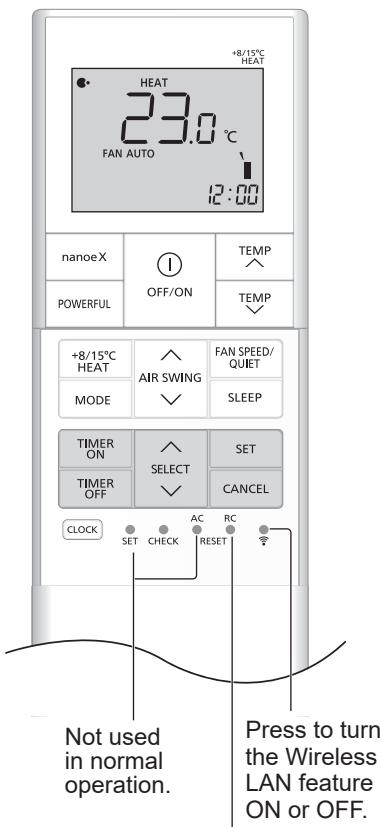
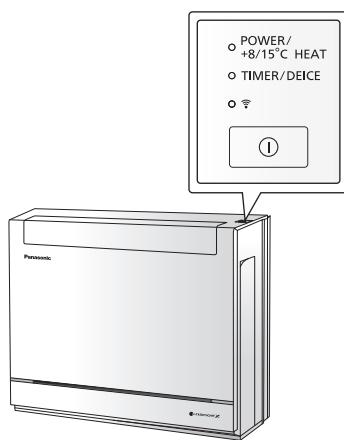
11. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is required to follow good practice so that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.



- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. Consult manufacturer if in doubt.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process.
- Draining of oil from a system shall be carried out safely.

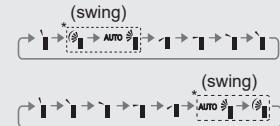
How to Use



To adjust airflow direction



Upper/Lower direction



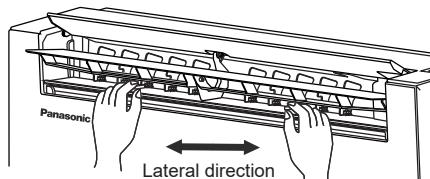
Upper/Lower direction:

- Do not adjust the flap by hand.

* For details operation, refer "To Learn More..."

Lateral direction:

- To change the lateral direction, move the vertical vane manually before starting operation.



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.

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.
- nanoe™X automatically starts when the unit is turned on.
- 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.
- Press the button again to cancel.

To reach the desired temperature quickly



- This operation continues until it is cancelled by pressing again **POWERFUL** button or turn OFF the unit to stop this operation.
- Press the button again to cancel.

To use maintenance heating



- Maintain indoor temperature at 8.0/15.0°C. Fan switches to high fan speed automatically.
- This operation overwrite the operation mode and could be cancelled by pressing **MODE**.
- Defrost operation at outdoor unit will result in sudden cold air from indoor unit. Eliminate cold air with heat 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

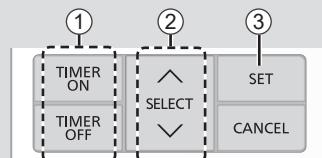


- For Wireless LAN Module operation setup, please refer the User's Manual from Comfort Cloud App.
 1. Sign-in "Panasonic Comfort Cloud" app.
 2. Under **≡ Menu**, select "**User's Manual**".
- If the Wireless LAN LED blinks continuously and you do not want to use the app, press the Wireless LAN  button to turn it off.

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:

① → ② → (exit setting)

Example:

OFF at 22:00



② Set the time.



③ Confirm the setting.



- To cancel the timer, press **TIMER ON** or **TIMER OFF** to select the respective setting ① or ②, 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 ① or ②, 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



- Can be selected at the same time.



- Cannot be selected at the same time.

To Learn More...

Operation mode

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.
- Unit may stops warm air supply for deice. The deice indicator ON during this operation.

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.

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.

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

In HEAT mode:
The horizontal flap fixed at the predetermined position.

 **In COOL/DRY 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.

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)	43 (109.4)	26 (78.8)
	Min.	16 (60.8)	11 (51.8)	-15 (5.0)	-
HEAT	Max.	30 (86.0)	-	24 (75.2)	18 (64.4)
	Min.	16 (60.8)	-	-25 (-13.0)	-
+8/15°C HEAT	Max.	15 (59.0)	-	-	-
	Min.	8 (46.4)	-	-25 (-13.0)	-

DBT: Dry bulb temperature, WBT: Wet bulb temperature

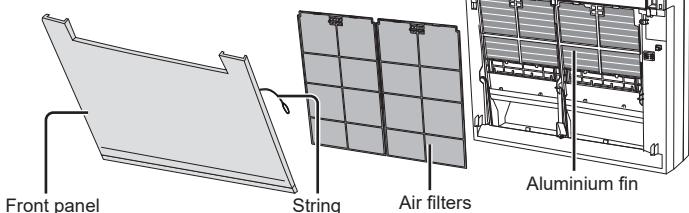
Cleaning the Air Conditioner

To ensure optimal performance of the unit, cleaning has to be carried out at regular intervals. Dirty unit may cause malfunction and you may see error code "H 99".

Please consult authorised dealer.

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

Indoor unit



Indoor unit

Wipe the unit gently with a soft, dry cloth.



Coils and fans should be clean for at least every 6 months by authorised dealer.

Outdoor unit

Clean debris that surround the unit.



Clear any blockage from the drain pipe.

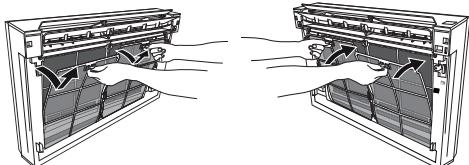
Air filters

Once every 2 weeks



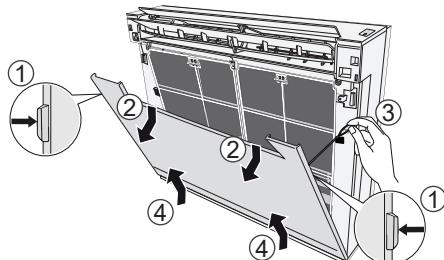
- Wash/rinse the filters gently with water to avoid damage to the filter surface.
- Dry the filters thoroughly under shade, away from fire or direct sunlight.
- Replace any damaged filters.

① Remove the front ① Attach air filter panel
② Remove air filter ② Attach the front panel



Front panel

Remove the front panel



- ① Push in the tab on both sides of the front panel.
- ② Open the front panel.
- ③ Unhook the string.
- ④ Lift up the front panel to remove it.
 - Wipe front appearance with a soft dry cloth.
- ⑤ Install the front panel by following the removal procedure in reverse.

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.
POWER indicator blinks, then stops blinking during COOL/DRY/FAN 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.
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.
Dusts accumulated on the wall.	<ul style="list-style-type: none">• Due to air circulation or static electricity generated by the air conditioner. Some types of wall paper may collect dusts easily (recommended to clean the area around the air conditioner frequently).
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.

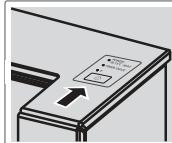
Check the following before calling for servicing.

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 <i>nanoe™X</i> indicator at the indoor unit is not ON when <i>nanoe™X</i> 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. Press the button once to use in AUTO mode.
2. To operate forced COOL mode, press the button hold until you hear 1 beep, then release. (This operation shall be performed by service personnel)
3. To operate forced HEAT mode, repeat step 2. Press the button until you hear 2 beep, then release. (This operation shall be performed by service personnel)
4. Press the button again to turn off the unit.



■ The indicators are too bright

- To dim or restore the indicators' brightness on the unit, point the remote control to the receiver and press on the remote for 5 seconds.

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

- Check the batteries in the remote control.
- 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 be not 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

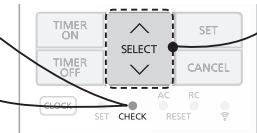
TURN OFF THE POWER SUPPLY AND UNPLUG THE UNIT. Then consult an authorised dealer in the following conditions:

- 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	Indoor humidity sensor abnormality
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
H 41	Abnormal wiring or piping connection
H 50	Ventilation motor abnormality

Diagnostic display	Abnormality/Protection control
H 51	Nozzle lock abnormality
H 52	Left-right limit switch fixing abnormality
H 58	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 79	Wireless LAN module write error
H 81	Outdoor electronic component self-check abnormality
H 85	Abnormal communication between indoor & wireless LAN module
H 86	Dust sensor abnormality
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.

Information

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



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For Business users in the European Union and some other European countries

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.



[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 authority or dealer and ask for the correct method of disposal.

Pb

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.



This symbol shows that this equipment uses a mildly flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.



This symbol shows that a service personnel should be handling this equipment with reference to the Installation Instructions.



This symbol shows that the Operation Instructions should be read carefully.



This air conditioner incorporates a device that generates a biocidal product. Free radicals generated by a device incorporated in the air conditioner have the capacity to inhibit pollutants, such as certain types of bacteria, viruses, mould. Active substances : Free radicals generated in situ from ambient air or water. Usage : This device function can be operated ON / OFF by "nanoe X" icon button. Do refer to "How to Use" for more detail.

Information for users on air conditioner sensor

Environmental data from the air conditioner's sensors: The manufacturer collects data generated by several sensors built into the air conditioner. This sensing device collected information such as indoor and outdoor air temperature, energy consumption, humidity*, indoor air quality*, in the room. The Comfort Cloud app will utilize the collected data to provide useful information, like energy consumption summary, for user monitoring.

* Sensors vary depending on air conditioner model/type

STATEMENT OF COMPLIANCE SHEET

We, Panasonic Appliances Air-Conditioning Malaysia Sdn. Bhd. hereby declare that the model(s) mentioned below are compliant with the applicable security requirements in Schedule 1 of "The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023".

Defined support period:	Until December 31st, 2028
Product:	Air-Conditioner (incorporating Wireless Module)
Model (s):	(PIOT-V2(WA)) CS-MTZ16CKE, CS-TZ20CKEW, CS-TZ25CKEW, CS-TZ35CKEW, CS-TZ42CKEW, CS-TZ50CKEW, CS-TZ60CKEW, CS-TZ71CKEW, CS-RZ25CKEW, CS-RZ35CKEW, CS-RZ50CKEW, CS-B225CKE, CS-B235CKE, CS-BZ50CKE, CS-BZ60CKE, CS-UZ25CKE, CS-UZ35CKE, CS-UZ50CKE, CS-MZ16CKE, CS-Z20CKEW, CS-Z25CKEW, CS-Z35CKEW, CS-Z42CKEW, CS-Z50CKEW, CS-Z71CKEW, CS-XZ20CKEW, CS-XZ25CKEW, CS-XZ35CKEW, CS-XZ50CKEW, CS-XZ20CKEW-H, CS-XZ25CKEW-H, CS-XZ35CKEW-H, CS-XZ42CKEW-H, CS-MZ20CFEA, CS-Z25CFEA, CS-Z35CFEA, CS-Z50CFEA, CS-Z25CFEA-1, CS-Z35CFEA-1
Manufacturer:	Panasonic Corporation 1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan
Trade Name:	Panasonic
Contact in the UK:	Panasonic UK, a branch of Panasonic Marketing Europe GmbH Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT



Managing Director
Panasonic Appliances Air-Conditioning Malaysia Sdn. Bhd.
On behalf of Panasonic Corporation
23 April 2025
Shah Alam, Malaysia



Declaration of Conformity (DOC)

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.ptc.panasonic.eu/>

Authorized Representative: Panasonic Testing Centre, Panasonic Marketing Europe GmbH, Winsbergring 15, 22525 Hamburg, Germany

Norway: There are usage restrictions within a radius of 20 km from the centre of Ny-Alesund on Svalbard.

Manufactured by:

Panasonic Corporation

1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan

Email: customer.phvac@eu.panasonic.com

[The email is only for contacts within the European Union (EU) and the European Economic Area (EEA). To avoid any miscommunication or delay response, please contact directly your local authorities or dealer.]

Importer:

Panasonic Marketing Europe GmbH

Authorized Representative in EU: Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Contact in the UK:

Panasonic UK, a branch of Panasonic Marketing Europe GmbH
Maxis 2, Western Road, Bracknell,
Berkshire, RG12 1RT



Declaration Of Conformity (DOC)

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of the relevant statutory requirements. The full text of the declaration of conformity is available at the following internet address: <http://www.ptc.panasonic.eu/>
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Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

Website: <http://www.panasonic.com>

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