Thank you for purchasing Panasonic Air Conditioner. Installation instructions attached.
Before operating the unit, read these operating instructions thoroughly and keep them for future reference.

### Operating Instructions
**Air Conditioner**

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-C12PKF-3</td>
<td>CU-C12PKF-3</td>
</tr>
<tr>
<td>CS-C18PKF-3</td>
<td>CU-C18PKF-3</td>
</tr>
<tr>
<td>CS-C24PKF-3</td>
<td>CU-C24PKF-3</td>
</tr>
</tbody>
</table>
Provide electricity protection solution, maximum comfort, clean air and optimise energy saving

**ECONAVI and AUTO COMFORT**
Equipped with the human activity sensor, the air conditioner ensures to deliver cool air to you, and keeps the room consistently comfortable with minimum energy consumption. Furthermore, the sunlight sensor detects the sunlight intensity and helps control cooling temperatures to provide optimum comfort. See “To learn more...” for details.

**nanoe-G**
Deactivates harmful micro-organisms such as viruses, bacteria, etc. to keep air clean. It also deactivates viruses and bacteria on the filter to keep inside of the unit clean.

**Automatic Voltage Switcher (AVS)**
Monitors voltage level and protects air conditioner from unstable power supply.
Quick guide

Inserting the batteries
1 Pull out the back cover of remote control
2 Insert AAA or R03 batteries (can be used ~ 1 year)
3 Close the cover

Clock setting
1 Press CLOCK
2 Set the time
3 Confirm

Basic operation
1 Select the desired mode
   AUTO
   DRY  COOL
2 Start/stop the operation
   • Please note that the OFF indication OFF is on to start.
3 Select the desired temperature
   • Selection range: 16°C ~ 30°C.
   • Operating the unit within the recommended temperature may save energy.
     COOL: 26°C ~ 28°C.
     DRY: 1°C ~ 2°C lower than room temperature.
   • To dim or restore the unit’s indicator brightness, press and hold for 5 seconds.
   • Use remote control within 8 m from the remote control receiver of the indoor unit.

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Safety precautions..........................4-5
How to use..................................6-7
To learn more..............................8-9
Cleaning instructions ....................10
Troubleshooting............................11
Information.................................Back cover

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 for future improvement.
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:

**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:

- ![Symbol](image1)
  This symbol denotes an action that is PROHIBITED.

- ![Symbol](image2)
  These symbols denote actions COMPULSORY.

---

**Indoor unit and outdoor unit**

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.

Please consult authorised 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.

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.

- ![Symbol](image3)
  Do not install the unit in a potentially explosive or flammable atmosphere. Failure to do so could result in fire.

- ![Symbol](image4)
  Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury.

- ![Symbol](image5)
  Do not touch the outdoor unit during lightning, it may cause electric shock.

- ![Symbol](image6)
  Do not expose yourself directly to cold air for a long period to avoid excess cooling.

- ![Symbol](image7)
  Do not sit or step on the unit, you may fall down accidentally.

---

**Remote control**

- ![Symbol](image8)
  Do not allow infants and small children to play with the remote control to prevent them from accidentally swallowing the batteries.

---

**Power supply**

- ![Symbol](image9)
  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.
Use complete power supply cord without joining. In unavoidable circumstances that complete power supply cord without joining is impossible, use an approved connection means (for example: socket and 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.

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.

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.

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 COOL/DRY mode operation.

This equipment must be earthed to prevent electric shock.

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

ECONAVI
To optimise energy saving

MODE
To select operation mode

AUTO - For your convenience
• Unit selects the operation mode according to the room temperature.
• Once AUTO mode is selected, the unit will operate at the standard setting temperature.

<table>
<thead>
<tr>
<th>Room temperature</th>
<th>Operation mode</th>
<th>Standard setting temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>23˚C &amp; above</td>
<td>COOL</td>
<td>25˚C</td>
</tr>
<tr>
<td>Below 23˚C</td>
<td>DRY</td>
<td>22˚C</td>
</tr>
</tbody>
</table>

• Press ◀ for “HI” to +2˚C or ▶ for “LO” to -2˚C to the standard setting temperature.

COOL - To enjoy cool air
• To reduce power consumption during COOL mode, use curtains to screen off sunlight and outdoor heat.

DRY - To dehumidify the environment
• Unit operates at low fan speed to give a gentle cooling operation.

POWERFUL/QUIET
To switch between powerful & quiet

POWERFUL: To reach temperature quickly
• This operation will stop automatically after 15 minutes.

QUIET: To enjoy quiet operation
• This operation reduces airflow noise.

Human activity sensor and indicator
Sunlight sensor and remote control receiver

Remote control display

Press and hold for approximately 10 seconds to show temperature setting in ºC or ºF.

Press to restore the remote control to default setting.
Not used in normal operations.

FAN SPEED
To select fan speed

(Remote control display)

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

Auto OFF/ON button

Use when remote control is misplaced or a malfunction occurs. Raise the front panel:
• To use in AUTO mode, press the button once.
• To use in COOL mode, press and hold the button until 1 beep is heard, then release.
• Press the button again to turn off.
To maximise comfort

AUTO COMFORT

To purify the air

NANOE-G

To deactivate viruses/bacteria on the filter

NANOE-G

To set the timer

To turn ON or OFF the unit at a preset time.

1. Select ON or OFF timer

Example: OFF at 22:00

2. Set the time

3. Confirm

To adjust airflow direction

AIR SWING

(Remote control display)

• Keeps the room ventilated.
• In COOL/DRY mode, if AUTO is set, the louver swings left/right and up/down automatically.
• Do not adjust the louver by hand.

Note

ECONAVI, POWERFUL/QUIET, AUTO COMFORT, NANOE-G

• Can be activated in all modes and can be cancelled by pressing the respective button again.

ECONAVI, POWERFUL/QUIET, AUTO COMFORT

• Cannot be selected at the same time.
Operation mode

**COOL**: Use curtains to screen off sunlight and outdoor heat to reduce power consumption during COOL mode.

**DRY**: Unit operates at low fan speed to give a gentle cooling operation.

**nanoe-G in-filter deactivation**

Depending on the unit’s accumulated operation time, nanoe-G in-filter deactivation may activate only once a day after the unit turned off.

To remove the moisture left in the internal parts, the fan will operate for 30 minutes with louver opened slightly. This process only applicable when the unit is operated in COOL/DRY mode before turned off. Then, nanoe-G deactivates viruses/bacteria on the filter for 2 hours with fan stopped and louver closed.

Do not turn off the power supply during this operation. After power failure, this operation will not resume.

**ECONAVI and AUTO COMFORT**

ECONAVI or AUTO COMFORT

The unit will start to initialise (for approximately 1 minute) and the human activity sensor will start to detect.

**Note**

When manual AIR SWING is selected, the ECONAVI and AUTO COMFORT operations will be cancelled.

**Human activity sensor operation**

**ECONAVI**: Detecting human presence and activity, the unit controls room temperature to save energy.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Human</th>
<th>Low activity</th>
<th>Normal activity</th>
<th>High activity</th>
<th>Absent</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL/DRY</td>
<td>Set</td>
<td>+1 °C</td>
<td></td>
<td>+2 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AUTO COMFORT**: Detecting human presence and activity, the unit controls room temperature to keep human comfortable consistently.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Human</th>
<th>Low activity</th>
<th>Normal activity</th>
<th>High activity</th>
<th>Absent</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL/DRY</td>
<td>Set</td>
<td>+1 °C</td>
<td></td>
<td>-1 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set Fan Speed</td>
<td>+1 tap*</td>
<td></td>
<td>+1 tap</td>
<td>Medium Fan**</td>
</tr>
</tbody>
</table>

* During low activity, fan speed 1 tap up for first 15 minutes or until set temperature is reached.

** During human absence, maximum fan speed for COOL/DRY mode is medium fan.
The human activity sensor will also scan for area of heat source and movement in a room.

**Detection area**

**Human activity indicator**

![Detection area and Human activity indicator diagram]

The unit judges human activity area for a few seconds before indicator updates. Based on area activeness, horizontal airflow direction louver will adjust either fix at predetermined position or swing left/right periodically.

- The human activity sensor performance is influenced by indoor unit location, movement speed, temperature range, etc.
- The human activity sensor may:
  - mistakenly detect an object with heat source & movement similar to human, such as pets, etc.
  - mistakenly detect as non-heat source & movement if a human stays motionless for certain period of time.
- Do not place large objects near the sensor and keep away heating units or humidifier from the sensor’s detection area. They may cause sensor malfunction.

**Sunlight Sensor operation**

ECONAVI; Detecting sunlight intensity, the unit adjust temperature to save energy.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Ambient condition</th>
<th>Set temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL/DRY</td>
<td>☀</td>
<td>+1 °C</td>
</tr>
</tbody>
</table>

In a room without window or with thick curtain, the sunlight sensor will judge as cloudy/night.

**Automatic Voltage Switcher (AVS)**

When power supply is unstable, where the AC voltage supplied is below 185 V or above 260 V, AVS will switch off the outdoor unit to protect the compressor. During this condition, the AVS indicator will turn on.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>Orange</td>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

Note: Room temperature may rise during AVS ON.

**Operation conditions**

Use this air conditioner under the following temperature range.

DBT : Dry bulb temperature  
WBT : Wet bulb temperature

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Indoor</th>
<th>Outdoor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DBT</td>
<td>WBT</td>
</tr>
<tr>
<td>COOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max.</td>
<td>32</td>
<td>23</td>
</tr>
<tr>
<td>Min.</td>
<td>16</td>
<td>11</td>
</tr>
</tbody>
</table>
Cleaning instructions

To ensure optimal performance of the unit, cleaning has to be carried out at regular intervals. 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 (pH 7) or neutral household detergent.
- Do not use water hotter than 40 °C.

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

Human activity sensor
Do not hit or violently press or poke it with a sharp object. This can lead to damage and malfunction.

Front panel
Wash gently and dry.

Remove the front panel
1. Raise
2. Pull out

Close it securely
1. Insert at both ends
3. Press both ends of the front panel
4. For CS-C18PKF-3, CS-C24PKF-3: Press at center of the front panel.

Indoor unit

nanoe-G Generator
Every 6 months
- Clean with dry cotton bud.
- Do not touch during operation.

Air filters
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.

For seasonal inspection after extended non-use
- Checking of remote control batteries.
- No obstruction at air inlet and air outlet vents.
- After 15 minutes of operation, it is normal to have the following temperature difference between air inlet and air outlet vents:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL</td>
<td>≥ 8 °C</td>
</tr>
</tbody>
</table>

For extended non-use
- Activate nanoe-G operation 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 and unplug.
- Remove the remote control batteries.
Troubleshooting

The following symptoms do not indicate malfunction.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mist emerges from indoor unit.</td>
<td>• Condensation effect due to cooling process.</td>
</tr>
<tr>
<td>Water flowing sound during operation.</td>
<td>• Refrigerant flow inside the unit.</td>
</tr>
<tr>
<td>The room has a peculiar odour.</td>
<td>• This may be due to damp smell emitted by the wall, carpet, furniture or clothing.</td>
</tr>
<tr>
<td>Indoor fan stops occasionally during automatic fan speed setting.</td>
<td>• This helps to remove the surrounding odour.</td>
</tr>
<tr>
<td>Operation is delayed a few minutes after restarting.</td>
<td>• The delay is a protection to the unit’s compressor.</td>
</tr>
<tr>
<td>Outdoor unit emits water/steam.</td>
<td>• Condensation or evaporation occurs on pipes.</td>
</tr>
<tr>
<td>TIMER indicator is always on.</td>
<td>• The timer setting repeats daily once set.</td>
</tr>
<tr>
<td>Cracking sound during operation.</td>
<td>• Changes of temperature caused the expansion/contraction of the unit.</td>
</tr>
<tr>
<td>2 or more human activity indicator turns on simultaneously.</td>
<td>• Judgement of heat source and movement area in progress.</td>
</tr>
</tbody>
</table>

Check the following before calling for servicing.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation in COOL mode is not working efficiently.</td>
<td>• Set the temperature correctly.</td>
</tr>
<tr>
<td></td>
<td>• Close all doors and windows.</td>
</tr>
<tr>
<td></td>
<td>• Clean or replace the filters.</td>
</tr>
<tr>
<td></td>
<td>• Clear any obstruction at the air inlet and air outlet vents.</td>
</tr>
<tr>
<td>Noisy during operation.</td>
<td>• Check if the unit has been installed at an incline.</td>
</tr>
<tr>
<td></td>
<td>• Close the front panel properly.</td>
</tr>
<tr>
<td>Remote control does not work.</td>
<td>• Insert the batteries correctly.</td>
</tr>
<tr>
<td>(Display is dim or transmission signal is weak.)</td>
<td>• Replace weak batteries.</td>
</tr>
<tr>
<td>The unit does not work.</td>
<td>• Check if the circuit breaker is tripped.</td>
</tr>
<tr>
<td></td>
<td>• Check if timers have been set.</td>
</tr>
<tr>
<td>The unit does not receive the signal from the remote control.</td>
<td>• Make sure the receiver is not obstructed.</td>
</tr>
<tr>
<td></td>
<td>• Certain fluorescent lights may interfere with signal transmitter. Please consult authorised dealer.</td>
</tr>
</tbody>
</table>

NON SERVICEABLE CRITERIAS

TURN OFF POWER SUPPLY AND UNPLUG then please consult authorised 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.
### Information for Users on Collection and Disposal of Old Equipment and used Batteries

| [Information on Disposal in other Countries outside the European Union] | Note for the battery symbol (bottom two symbol examples):
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Pb</td>
<td></td>
</tr>
</tbody>
</table>