

# Panasonic

ENGLISH

## OPERATING INSTRUCTIONS

ROOM AIR CONDITIONER  
**CW-N1821EA**  
**CW-N2421EA**

ACXF55-31930



Thank you for using Panasonic Air Conditioner.

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

**CAUTION** This symbol shows that the Operating Instructions should be read carefully.

**CAUTION** This symbol shows that service personnel should be handling this equipment with reference to the Technical Manual.

**CAUTION** This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

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

### 1 SAFETY PRECAUTIONS

Please observe these following safety precautions when using your air conditioner. Failure or negligence in observing these safety precautions could cause fire, electrical shock or personal injury.

**WARNING** This sign warns of risk of death or serious injury. **PROHIBITED** This symbol (with a white background) denotes an action that is PROHIBITED.

**CAUTION** This sign warns of risk of injury or damage to property. **ACT** These symbols (with a green background) denote actions.

#### INSTALLATION PRECAUTION

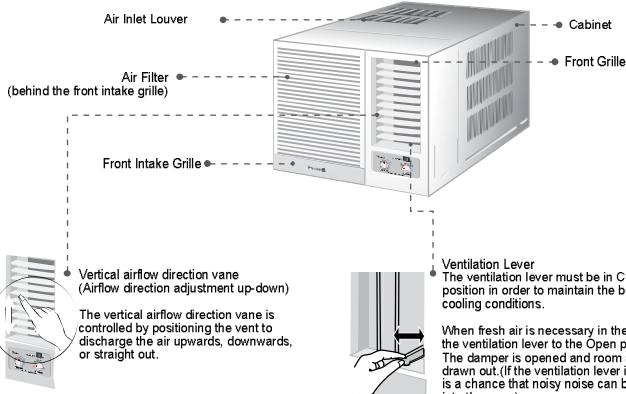
- Do not install, remove and reinstall the unit yourself. Improper installation may cause Leakage, electric shock or fire. Please engage an authorized dealer or specialist for the installation work.
  - Do not add or replace refrigerant other than the specified type. It may cause product damage, burst and injury. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid hazard.
  - The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater)
  - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
  - Ventilate any enclosed areas when installing or testing the refrigeration system.
  - Escaped refrigerant gas, on contact with fire or heat, can produce dangerously toxic gas.
  - Confirm after installation that no refrigerant gas is leaking. If the gas comes in contact with a burning stove, gas water heater, electric room heater or other heat source, it can cause the generation of toxic gas.
- The room air conditioner must be earthed.
- Improper grounding could cause electric shock.
  - Do not install the unit in a place where there are explosive gas leaks.
  - Gas leaks near the unit could cause fire.
  - Ensure that the drainage piping is connected properly.
  - Otherwise water will leak out.
- CAUTION** Risk of fire / Flammable materials  
**R32**

#### OPERATION PRECAUTION

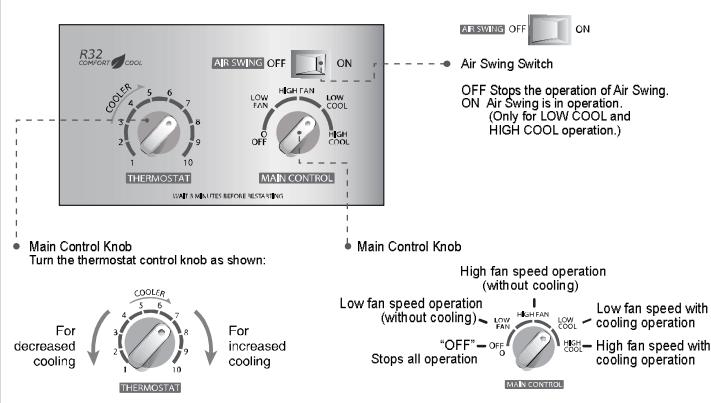
- Do not modify the length of power cord or use an extension cord.
  - Do not touch or operate with wet hands.
  - Do not modify or damage the cord.
  - Do not turn on the unit by inserting the power plug.
  - Do not switch off the unit by pulling out the power plug.
  - Avoid an extended period of direct airflow.
  - Do not insert your fingers or other objects into the unit, rotating parts may cause injury.
  - Do not try to repair the unit yourself.
- Plug in properly before operating and use a specified power cord.
  - If abnormal conditions (burnt smell, etc.) occur, switch off and remove the power plug.
  - Confirm to authorized dealer or specialist on usage of specified refrigerant type. Using of refrigerant other than the specified may cause product damage, burst and injury etc.
  - 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.
- Do not use the unit for other purposes, than its intended use.
  - Do not block the air intake and outlet vanes.
  - Do not splash or direct water at the unit.
  - Do not expose the unit to direct sunlight during operation.
  - Do not operate the unit without the air filter installed or when the front intake grille has been removed.
  - Do not place any objects on the unit.
  - Do not operate any combustion equipment near the unit's air flow area.
  - Do not sit or step on the unit, you may fall down accidentally.
  - Do not touch the sharp aluminium fin, sharp parts may cause injury.
  - Do not use means to accelerate the defrosting process or to clean, other than those recommended by manufacturer.
- Switch off the breaker and unplug the unit from the socket if the unit will not be operated for a long period.
  - Pay attention to any damages on the unit caused by extensive usage.
  - Ventilate the room occasionally where the unit is installed.
  - Unplug the power cord when cleaning the unit.

### PARTS IDENTIFICATION

#### MAIN UNIT



#### Main Control Panel



### AIR CONDITIONER OPERATION

#### OPERATION CONDITIONS

Use the air conditioner under the following conditions:

- Operating temperature range.
- Continuous operation at over 90% high humidity may create condensation and result in waterdrops on the intake and outlet vanes.

	room size	outdoor size
Max. Temperature	32.5	32.5
Min. Temperature	16	11
Relative Humidity	70%	70%

Min. Temperature may exceed 10%  
 Min. Temperature may exceed 10%  
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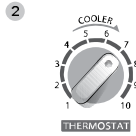
- Avoid installation in the following locations.
  - Mechanical processing plants and other places with a lot of mechanical oil.
  - High humidity areas such as laundry room and bathroom.
  - Air conditioner normal operating temperature.
  - Indoor side maximum temperature: 30°C
  - Outdoor side maximum temperature: 43°C
- NOTICE: When the air conditioner is used at room temperature of 21 degrees or less, the temperature may be too low, and the air conditioner may be easily frosted. After frosting, it may be difficult to drain and may flow into the room.



#### Main Control Knob

Set to LOW COOL or HIGH COOL as desired. (FAN setting operates the fan only.)

Caution: If the main control knob is turned off or changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to cooling operation.



#### Thermostat Control Knob

Set the thermostat control knob to your desired setting. (Usually 6 - 7 is recommended). If the room temperature is not as desired after a reasonable period of time, turn the thermostat control knob clockwise to cool the room more or counter clockwise to cool the room less.

- When the thermostat control knob is set to 10, moisture may freeze on the evaporator fins and prevent effective cooling. If this happens, turn the Main Control Knob to HIGH FAN and the Thermostat Control Knob counter-clockwise. This will quickly defrost the evaporator fins to resume normal cooling operation.

#### Air Swing Switch

(Airflow direction adjustment Side-to-Side)



To obtain a fix airflow direction, set the air swing switch to "ON" for the vanes to swing from side to side until the desired flow direction is reached, then switch it to "OFF".

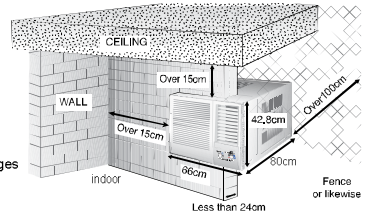
### 4 AIR CONDITIONER INSTALLATION

#### CHOOSING THE INSTALLATION LOCATION

- When installing, use the nearest power outlet. Make sure the power outlet is easy to reach so you can quickly disconnect your air conditioner in case of emergency.
- Ensure that the air conditioner is well supported, securely fastened, easily reachable and not obstructed.
- Avoid location with: salty or sulphurous air, draughts, dampness and flammable gas.
- If you install the drainage system, be sure to channel the condensed water to a suitable location.
- Covers, obstructions and unsteady support may cause excessive operating noise and vibration.
- The rear end of the air conditioner is splash proof. You don't need to shield or cover it.
- R32 refrigerant air conditioner installation and maintenance should be done by competent person.

#### PREPARATIONS BEFORE INSTALLATION

- There should not be any obstacles surrounding the unit.
- Prepare and installation hole slightly bigger than the cabinet size.
- Left and right side of the unit should be at least 15 cm away from the wall.
- The minimum installation height is 75cm. (Based on IEC 60335-2-40, there is no restriction for the minimum installation floor area since the refrigerant charges is less than 1.224kg.)

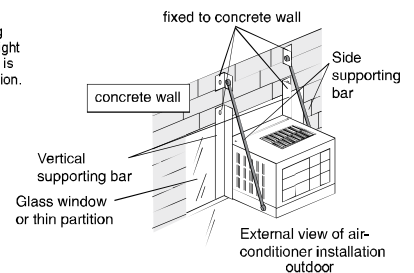


#### CAUTION POINT DURING INSTALLATION

When installing air conditioner at glass window or thin partition, fix the vertical and side supporting bar to the concrete wall in order to support the weight of the air-conditioner and reduce the vibration that is being transferred to the glass window or thin partition.

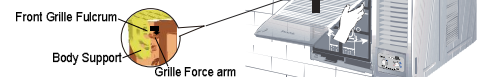
This can minimize the noise problem caused by improper installation.

- Proposed to use 1/8" x 1-1/4" angle-aluminium for installation frame and side supporting bar.

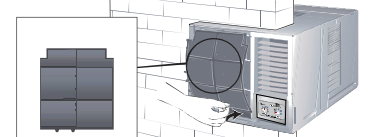


#### REMOVAL OF FRONT GRILLE

- Open the Intake Grille until over 90° front grille fulcrum can remove from Grille force arm.



- Remove the air filter. Tilt up and pull out the air filter by the holder.



- Remove the front grille.

- Remove the screw on the front grille.
- At the bottom right side of the front grille, press inward on the cabinet near the power cord, and pull the grille outward to the right until right tab releases.
- At the bottom left side, push inward on the cabinet and pull the grille outward to the left to release the left tab. Do not pull the bottom edge towards you for more than 3 inches to prevent the two top tabs from damage.
- Slide the front grille upwards to loosen the two top tabs from slots at the top of the cabinet.

