\prod_{i} CAUTION

This symbol shows that there is information included in the Operating Instructions and/or

1 SAFETY PRECAUTIONS

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

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.

This sign warns of risk of death or serious injury. CAUTION

This sign warns of risk of injury or damage to property

O This symbol (with a white background) denotes an action that is PROHIBITED.

These symbols denote actions that are COMPULSORY.

INSTALLATION PRECAUTION

Nation NRECAUTION
 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 or specialist for the installation work or specialist for the installation work. Or specialist for the installation work or specialist for the installation or sample: open flames, an operating gas appliance or an operating electric heater) of the cample: open flames, an operating gas appliance or an operating electric heater) of the work of the proposition work or specialist for the installation of the installation of the installation system. Escaped refrigerant gas in contact with fire or heat, can produce dangerously toxic gas. Or confirm flare 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.

stove, gas water heater, electric room heater or other heat source. 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.



OPERATION PRECAUTION

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

Do not modify the length of power cord or use an extension cord.
 Do not louch 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 infect airflow.
 Do not linsert your fingers or other objects into the unit, rotating parts may cause injury.
 Do not try to repair the unit youse?

- ◆ Do not try to repair the unit yourself.
 ♦ Pour jn preeptry before operating and use a specified power cord.
 ♦ Pour jn preeptry before operating and use a specified power cord.
 † 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 rijury etc.
 This applicance is not Intended for use by persons (including childry 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 resonable for their safety. Children should be supervised to responsible for their safety. Children should be supervise ensure that they do not play with the appliance.

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

Risk of fire /

Do not use the unit for other purposes, than its intended use
Do not remove the power plug by pulling the cord.
Do not block the air intake and outlet vanes.
Do not spissh or direct water at the unit.
Do not expose the unit to direct sunlight during operation.
Do not expose the unit to direct sunlight during operation or when the front intake grille has been removed.
Do not operate the unit without the air filter installed or when the front intake grille has been removed.
Do not operate any combustion equipment near the unit's air flow were combustion equipment near the unit's

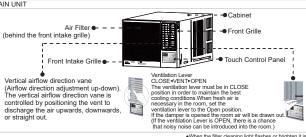
- - air flow area.

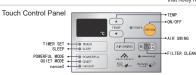
 Do not sit or step on the unit, you may fall down accidentally

 Do not touch the sharp aluminium fin, sharp parts may
- Do not bouch the sharp aluminium fin, sharp parts may
 Do not use means to accelerate the defrosting process or 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 oxtensive usage.
- - Ventilate the room occasionally where the unit is installed.
 Unplug the power cord when cleaning the unit.

2 PARTS IDENTIFICATION

MAIN UNIT





oise can be introduced into the room.)

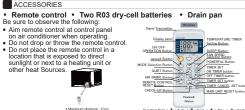
When the filter cleaning light flashes or brighten, It is recommended to clean the filter after dismantle Filter cleaning light will flashes about 20 second if diefn press the "MAN DNIT RESET"; talk tkeep brighten after flashes about 20 second.

After the filter is cleaned, please lightly press the "Reset" button on the remote control or bouch the FILTER CLEAN button on the control panel will be control to be control panel or the presence of the please of the presence of the please of the

TYPES OF SIGNAL SOUND - One long "BEEP" and one short "BEEP". (Sound from the main unit.)

ACCESSORIES







3 PREPARATION BEFORE OPERATING

⚠ WARNING

Ensure that the power plug is securely inserted. A loose plug may cause a fire or an electric shock.

If the unit is not going to be used for an extended period of time, remove the power plug. Otherwise, approximately 2.5W of electricity will be used even if the unit has been turned off using the remote control.
If operation is stopped, and to be restarted immediately, the unit will resume operation only after 3 minutes.

HOW TO INSERT BATTERIES







Do not use rechargeable (Ni-Cd) batteries because such batteries differ from the standard dry cell batteries in shape, dimensions and performance.

ABOUT THE BATTERIES

- The batteries can be used for approximately one year.

 Be sure to replace the batteries with two new identical batteries.

 Remove the batteries if the air conditioner will not be used for an extended period of time.

OPERATION CONDITIONS Use the air conditioner under the following conditions: Operating temperature range

- Avoid installation in the following locations.

 *Mechanical processing plants and other places with a lot of mechanical oil.

 *High himidity meas such as laundy room and bathroom.

 *Air conditioner COOLINGHEATING normal operating temperature enfodor maximum temperature 30(30) °C, lowest temperature 16(10)°C

 *Outdoor maximum temperature 43(24) °C, lowest temperature 16(0)°C

 - Who the air conditioner is used at room temperature of 21 degrees or less 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.

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.

- 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 concensed 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

Dimension

- 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.)

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 INSTALLATION PROCEDURES

CAUTION POINT DURING INSTALLATION

- 1 Remove the rear cabinet screws and chassis locking bracket from the cabinet. Save for later use.
- 2 Slide the chassis out from the cabinet





- 4 Slide the chassis into the cabinet.



Depending upon the location of AC outlet route the AC cord to either left or right sid 6 before Installing the front grille

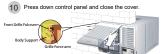


Attach the front grille to the cabinet and fasten it with a screw.



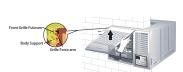
8 Attach air filter to the front grille. (see anti-bacterial filter installation instructions included in this package)



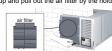


REMOVAL OF FRONT GRILLE

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



Tilt up and pull out the air filter by the holder



3 Remove the front grille.

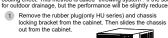
- Remove the screw on the front grille.
 At the bottom right side of the front grille, press inward on the cabinet near the power cord, and pull the grille outward to the right until right tab releases.
 At the bottom left side, push inward on the schied and will the gille outward to the before the control of t
- cabinet and pull the grille outward to the left to release the left tab. Do not pull the bottom
- edge towards to 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.



This is a "INVERTER HEAT PUMP" model, in order to prevent the water overflows from the machine, please make sure provide an outside drainage by using the following the procedure.

H. series
This is a "INVERTER COOLING" model The design of spraying condensate water on the condenser achieve the best cooling effect. This method is called "throwing system". If the sound of spraying makes you annoying, you can use the following methods for outdoor drainage, but the performance will be signifyed reduced.





Underside view with drain pan and hole in place.

NOTE: Drain hose or tubing can be purchased locally to satisfy your particular needs.

4 Slide the chassis back into the cabinet. Lock the chassis to the cabinet reusing the chassis locking bracket.





ELECTRIC WORK

- ELECTRIC WORK

 Always use at the rated voltage and with a specific air conditioning circuit.

 This equipment must be earthed and strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electric shock or fire in case of malfunction.

 A 16 Ampere time delay fuse or circuit breaker is required.

 Nominal cross sectional area of power supply wire must be 3 core x 1.5 mm² or above.

 The power supply must be from an independent circuit.

 All electrical installations must be made in accordance with local wiring and safety regulation wherever applicable.

 There must be a double pole switch with a minimum of 3.5 mm contact gap in the fixed installation circuit.

 Please engage and authorized dealer or specialist for the installation work.

3 Connect a drain hose. Fit the drain hose to the drain pan



2 Install the drain pan nstall the ...

Install the drain pan at the right corner of the cabinet right corner of t using 2 screws.

NOISE CONSIDERATION

- Select an installation location that can support the weight of the air conditioner and one that will not cause increased operating noise and vibration.
- Ensure that when installed, airflow and noise from the rear side of the unit (outdoor) do not disturb neighbouring elements.
- Obstacles placed in front of the air outlet on the rear side of the unit (outdoor), or covers placed over it will cause excessive noise and (outdoor), or covers placed of deterioration in performance.



TRANSFERRING

Repositioning or transfer of the air conditioner due to renovation or moving requires an additional service charge. Please consult your dealer before moving.

5 AIR CONDITIONER OPERATION

OPERATING THE UNIT



Start operation by pressing OPERATION.
The operation will turn on and the display panel will light up.
To stop the operation, press the OPERATION again.

The unit will stop operating and the display panel light will turn off.

SETTING DISPLAY TEMPERATURE



Press TEMP/TIMER ▲ or ▼ to set the display temperature. The temperature can be set between 16°C and 30°C. Recommended temperature: 26°C~28°C NOTES:

•The latest set temperature will be stored and displayed when the air-con is ON.



Press MODE to select the desired operation.
(The indicator will light up and a "beep" sound will indicate changing setting)
AUTO mode
All rocadilioners are automatically operated according to indoor and outdoor temperatures.
COOL mode
To set room temperature to your preference of cooling comfort.
HEAT mode
To set room temperature to your preference of heating comfort.
DRY mode

DRY mode unit operates at low fan speed to give a gentle cooling operation.



Press MODE to select the desired operation.
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AUTO mode
Air conditioners are automatically operated according to indoor and outdoor temperatures.
COOL mode

COOL mode
To set room temperature to your preference of cooling comfort.
DRY mode
DRY mode unit operates at low fan speed to give a gentle cooling operation

SELECTING FAN SPEED



Press FAN SPEED selection button to choose fan speed level of the fan. (The indicator will light up and a "beep" sound will indicate changing setting)

If air conditioner automatically selects COOL or DEHUMIDIFYING mode and the fan speed is at AUTO speed, it will operate the "Self-cleaning" function to clear the dust on Heat exchanger,(Defer air flow for 40 seconds or intermittently operate)

ADJUSTING HORIZONTAL AIRFLOW DIRECTION



Press AIR SWING button to select air swing direction angle. (The indicator will light up and a "beep" sound will indicate changing setting)

Press the upper button to adjust left and right airflow direction. Press the lower button to stop AIR SWING.

POWERFUL OPERATION





To reduce / increase the temperature quickly under cool mode/heat mode

Press POWERFUL button, after powerful is selected, the operation will go on for 4 hours, after that it will shift back to previous operation mode.

SETTING THE OFF TIMER



If you want to cancel this operation, press powerful button once more

When the air conditioner is OFF:
Press the TIMER-OFF button to set the timer.
Press the same button until the preferred hour of operation is reached.
(The TIMER indicator light will blink to await for setting)
Press TIMER SET button to complete the setting, at this time, the TIMER indicator light is steady

NOTE: it is unavailable to set ON TIMER and OFF TIMER simultaneously. The timer figure will change according to the time remaining.



QUIET OPERATION

To reduce / increase temperature quickly : Press QUIET button. If you want to cancel this operation, press QUIET button once more

SETTING THE ON TIMER



When the air conditioner is ON:

Press the TIMER-ON button to set the timer.

Press the same button until the preferred hour of operation is reached.

(The TIMER indicator light will blink to await for setting.)

Press TIMER SET button to complete the setting. At this time, the TIMER indicator light is steady

The timer figure will change according to the time remaining.

CANCEL OFF TIMER SETTING



Press the CANCEL button to cancel the timer setting. The TIMER indicator light will turn off. However the temperature remains displayed.

instead of blinking.



•When the OFF/ON button is pressed, the nance™X function automatically starts operation.
•To manually ON (start) or OFF (close) this operation, press ≜., (nanceX indicator is on or off).
•Even when the machine is turned off, this operation can still be activated, in this case, the blades and air volume will be operated according to the remote control settings.

If a power interruption occurs during operation, the operation will resume immediately after the power.

•If a power interruption occurs during operation, the operation will resume immediately after the pow is restored. Note: When nanoe^{ThX} is in action, it will produce nano-ions, so sometimes it will make a little sound. If you really care about this sound, please turn off this function. Note: NanoeX can also be started in HEAT mode, and nanoeX can be started independently when COOLHEAT/DRY is not running. Note: When nanoeX is started alone, the remote control display screen is shown on the right The air volume and direction can be adjusted automatically (ON or OFF)

nanoeX can keep skin moisturized and hair soft.
 (The effect on skin and hair will vary according to the season, surrounding environment (temperature, humidity).

•nanoeX can alleviate the peculiar smell in the room and inhibit the growth of bacteria and mold.
(It can also effectively reduce the odor (smoke and oily smoke) or bacteria attached to the curtain.
The inhibitory effects of bacteria and molds are the results of demonstration in confined spaces, not actual use of spain addition, the decdorizing effect will vary depending on the environment (temperature, humidity), operating time, propose and they true. ozone, and fiber type.)

As nanceX is produced by using the air in the room, it may not be produced due to temperature and humidity conditions.

ornalidis.

ornal

SLEEP(Cooling mode)

This setting enables the human body to enter sleep and automatically adjust the temperature to achieve sleep comfort and energy-efficient operation.

When the sleep button is pressed for touch control panel sleep light on).

When the sleep button is pressed for touch control panel sleep light on).

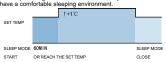
When the sleep is activated, the SLEEP LED is on, and pressing it again to cancel the sleep schedule.

After sleep is activated, the SLEEP LED is on, and pressing it again will cancel the sleep mode (SLEEP LED is dim).

SLEEP mode is released when the machine is turned off.

Note: During sleep operation, in order to avoid over-cooling and over-heating, the temperature, air volume and wind direction Will not follow the remote control settings and will be adjusted automatically. If the user needs cannot be met, the temperature or air volume can be reset.

After the body enters the sleep state, the body temperature drops on the sleep mode, the air conditioner will keep running for one hour or increase by 1°C after reaching the set temperature, so that people have a comfortable sleeping environment.



6 HELPFUL INFORMATION & ENERGY SAVING HINTS

HELPEUL INFORMATION

Auto Restart Control

Operation will automatically resume under the previous operation mode.
 If the unit was set to TIMER mode or SLEEP mode, operation will not resume automatically.

Timer Setting When power failure occurs, the timer setting is cancelled. Once power returns, reset timer

ENERGY SAVING HINTS

- Clean the air filter every 2 weeks. Regular cleaning of the air filter preserves efficiency Keeping ventilation set to close keeps cool air in and hot air out.

 - Avoid direct sunlight and heat.
- For health reason do not overcool your room.
 Your air conditioner's cooling capacity should match your room size.

7 CARE AND MAINTENANCE



Always turn off the air conditioner and the main power supply before cleaning the unit.

Switch off the power supply if the unit is not going to be used for a long period of time.

Clean the cabinet, front grille with mild soap or detergent and lukewarm water

 The front intake grille can be easily removed for cleaning purposes (refer to Remove the front intake grille procedures). Gently wash it with water and a sponge. • The filter can be easily cleaned using a vacuum cleaner. Vacuum the front of the filter and then wash the

rear with water. If it is badly spoiled, wash with a mild household detergent.

• Do not clean with benzene, thinner, scouring powder or cloth soaked in caustic chemicals

If the unit is extremely dirty, heat transfer is less Efficient and the unit may not cool effectively. Contact Shun Hing Electric Service Centre Ltd. for an annual check. (Annual check is not covered by the warranty
 If the air filter becomes clogged with dust, the cooling capacity will drop, and 6% of the electricity used to

operate the air conditioner will be wasted.

NOTE: Do not dry the front panel or the air filter in direct sunlight. (Exposure to direct sunlight may discolour deform the panel.)

PRE-SEASON INSPECTION

Is the discharged air cold?

After 15 minutes of operation, it is normal for the temperature difference between intake and outlet air to be more than 8°C for cooling.

Are the air intake and outlet vanes of the indoor and outdoor side obstructed?

Are the remote control batteries weak?

The temperature difference between the blower outlet and the suction temperature under the normal state of the machin:cooling 8°C or above, heating (Heat pump model) 14°C or above, is a normal phenomenon.

RECOMMENDED INSPECTION

Usage over several seasons will reduce performance as the unit becomes dirty. A dirty unit may produce foul odours and dust may clog the dehumidifying drainage. Seasonal inspection is recommended in addition to regular cleaning. Consult Shun Hing Electric Service Centre Ltd.,

8 BEFORE CALLING FOR SERVICE



Check the following points before calling for repairs or service. If the malfunction persists, please contact Shun Hing Electric Service Centre Ltd.,

Condition 1 If the unit is too noisy during operation.
The following sounds are normal during operation:

A low humming sound indicating that the unit is operating. · A soft clicking sound when the compressor turns on and off

A sort clicking sound when the compressor turns on and on.
 A flowing sound due to circulation of the refrigerant when the compressor is turned on.
 A splashing sound indicating condensation in the condenser coil. If you hear other noises, please consult Shun Hing Electric Service Centre Ltd.,

Condition 2 If the unit does not operate

The main power cord is not plugged in.
The main circuit breaker has tripped.
Remote control batteries are weak.

Condition 3 If the unit does not cool properly.

. The room is too big for the unit's capacity. The ventilation lever is set to OPEN

The air circulation is impeded by curtains or furniture.
After 15 minutes of operation, it is normal for the temp o minutes or operation, it is normal for the temperature noe between intake and outlet air to be more than 8°C ling.

tion for Users on Collection and Disposal of Old Equipment and used Batter (minimission on Disposal in other Countries outside the European Union)
These symbols are only valid in the European Union. If you wish to discard
these items, please contact your local authorities or dealer and ask for the
correct method of disposal. A A Note for the battery symbol (bottom two symbol This symbol might be used in combination with

it complies with the requirement set by the Directive for the chemical involved.

NOTE:

1. The enclosure opposing the room side is splash proof (IPX4).

2. Do not install this appliance in a laundry room or other locations where water may drip from the ceiling, etc.

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

Condition 4 If water drips off the rear of the unit.

Humidity is high.
 Condensed water is overflowing.
 To rectify the problem, mount an optional drain

Condition 5 If water drips inside the room. •The unit is tilted inward. To rectify this, tilt the unit

Mightly outward.
 Mount the optional drain pan if you prefer.
 The drain pan may be blocked.

Condition 6

pan to the unit.

 Squeaking noise during operation,
 Squeaking noise after shutting down
 (This is due to the expansion or contraction of the host due to temperature changes)



To call Shun Hing Electric Service Centre Ltd. IMMEDIATELY Turn off the power and contact Shun Hing Electric Service Centre Ltd. as soon as any of the following events occur.

The circuit breaker frequently trips or the fuse blows

regularly.

If water or foreign objects have accidentally entered the air conditioner. If there is abnormal sound during operation.

Panasonic Corporation Website: http://www.panasonic.com