GREE
Change for life

Owner's Manual
Original Instructions
Commercial Air Conditioners

Multi VRF Floor Standing Indoor Unit

Models:
GMV-ND100L/A-T
GMV-ND140L/A-T

Thank you for choosing commercial air conditioners. Please read this Owner's Manual carefully before operation and retain it for future reference.

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@cn.gree.com for the electronic version.

GREE ELECTRIC APPLIANCES,INC.OF ZHUHAI
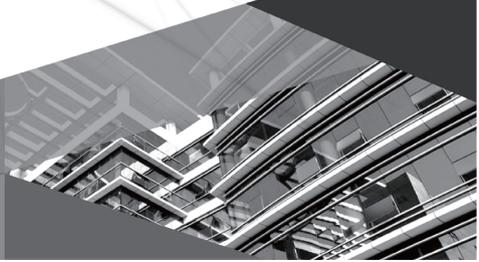
To Users

Thank you for selecting Gree product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

(1) 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.

(2) In order to ensure reliability of product, the product may consume some power under stand-by status for maintaining normal communication of system and preheating refrigerant and lubricant. If the product is not to be used for long, cut off the power supply; please energize and preheat the unit in advance before reusing it.

(3) Please properly select the model according to actual using environment; otherwise it may impact the using convenience.

(4) This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for above special places, please adopt special air conditioner with anti-corrosive or anti-explosion function.

(5) If the product needs to be installed, moved or maintained, please contact our designated dealer or local service center for professional support. Users should not disassemble or maintain the unit by themselves, otherwise it may cause relative damage, and our company will bear no responsibilities.

(6) All the illustrations and information in the instruction manual are only

for reference. In order to make the product better, we will continuously conduct improvement and innovation. If there is adjustment in the product, please subject to actual product.

Exception Clauses

Manufacturer will bear no responsibilities when personal injury or property loss is caused by the following reasons:

(1) Damage the product due to improper use or misuse of the product.
(2) Alter, change, maintain or use the product with other equipment without abiding by the instruction manual of manufacturer.
(3) After verification, the defect of product is directly caused by corrosive gas.
(4) After verification, defects are due to improper operation during transportation of product.
(5) Operate, repair, maintain the unit without abiding by instruction manual or related regulations.
(6) After verification, the problem or dispute is caused by the quality specification or performance of parts and components that produced by other manufacturers.
(7) The damage is caused by natural calamities, bad using environment or force majeure.

Contents

1 Safety Notices (Please be sure to abide them)

⚠ **WARNING**: If not abide them strictly, it may cause severe damage to the unit or the people.

⚠ **NOTICE**: If not abide them strictly, it may cause slight or medium damage to the unit or the people.

🚫 This sign indicates that the items must be prohibited. Improper operation may cause severe damage or death to people.

❗ This sign indicates that the items must be observed. Improper operation may cause damage to people or property.

	Follow this manual to complete the installation work. Please read this manual carefully before turning on or repairing the unit.		Installation should be conducted by the dealer or qualified personnel. Please do not attempt to install the air conditioner by yourself. Improper installation may lead to water leakage, electric shock or fire hazard, etc.
	Before installation, please check whether the power supply is complied with that specified on the nameplate and check the safety of the power supply.		The air conditioner must be grounded reliably for avoiding electric shock. Please do not connect the earthing wire to gas pipe, water pipe, lightning rod or telephone line.
	Be sure to use special accessories and parts for installation to prevent water leakage, electric shock and fire hazard, etc.		If refrigerant leakage happens, please ventilate the room immediately.

exclusive	Diameter of power cord should be large enough. The damaged power cord and connection wire must be replaced with special cables.		When the power cord is connected, please fix the electric box cover properly to avoid safety accidents.
N₂	Never fail to comply with the nitrogen-charging welding process. Do charge nitrogen when welding the pipes.		Never short circuit or cancel the pressure switch to prevent unit damage.
	As for the unit controlled by the wired controller, connect the wired controller well firstly and then energize the unit; otherwise, the unit can't operate normally.		When installation is finished, please check whether the drainage pipes, pipelines and electric wires are connected correctly to avoid water leakage, refrigerant leakage, electric shock or fire, etc.
	Do not insert fingers or objects into air outlet or air return grille.		Open the door and window frequently to keep good ventilation for avoiding oxygen deficit when gas heater or oil heater is used in the room.
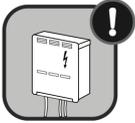
	Never plug in or unplug the power plug directly to turn on or turn off the air conditioner.		Once the air conditioner is turned on, it can be turned off only after it has operated for 5min at least; otherwise, it will affect the oil return of compressor.
	Do not allow children to operate this air conditioner.		Do not operate this air conditioner with wet hands.
	The air conditioner can be cleaned only when it has been turned off and the power has been cut off; otherwise, it may cause electric shock or injury.		Never spray or flush water towards the air conditioner; otherwise, malfunction or electric shock may happen.
	Do not expose the air conditioner to the moist or corrosive environment.		Put through the power 8 hours in advance before operation. Do not cut off the power when the air conditioner stops operation for only about one night (protect the compressor).
	Volatile liquid, such as diluent or gasoline, will damage the appearance of air conditioner. Only soft dry cloth and wet cloth dipped with neutral detergent can be used to clean the outer case of air conditioner.		Under cooling mode, please don't set the room temperature too low; keep the temperature difference between indoor and outdoor within 5°C (41°F).
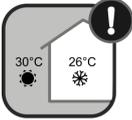
	If there are any abnormal circumstances (such as burning smell, etc.), please turn off the unit and cut off the main power supply immediately, and then contact Gree appointed service center. If those abnormal circumstances still exit, the unit may be damaged and it may lead to electric shock or fire hazard.		Do not repair the unit by yourself. Wrong maintenance may cause electric shock or fire hazard. Please contact Gree appointed service center for help.

Any personal injury or property loss caused by improper installation, improper debug, unnecessary repair or not following the instructions of this manual should not be the responsibility of Gree Electric Appliances, Inc. of Zhuhai.

2 Product Introduction

2.1 Outline of the Unit and Main Parts
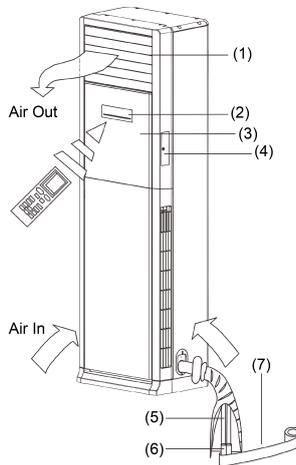
Fig 2.1

No.	Part Name	No.	Part Name
(1)	Air outlet	(5)	Connecting pipe
(2)	Display screen and button	(6)	Drainage pipe
(3)	Front panel	(7)	Wrapping tape
(4)	Remote control box	—	—

2.2 Rated Operating Condition

Item	Indoor Condition		Outdoor Condition	
	DB	WB	DB	WB
Rated	27	19	35	24
Rated	20	15	7	6

3 Installation Instruction

3.1 Schematic Diagram of Installation Space

30cm

Space to the ceiling

Air outlet side

200cm above

10cm

Space to the wall:(10cm at least for the pipe side)

5cm

Space to the rear side
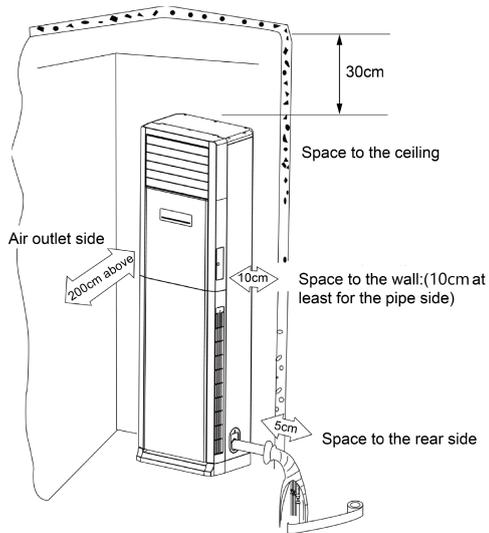
Fig 3.1

! **NOTES!**

① The unit shall be installed by the professional personnel according to this installation instruction to ensure proper use.

② Please contact the local Gree appointed service center before installation. Any malfunction caused by the unit that is not installed by the Gree appointed service center would probably not be dealt with on time because of the inconvenience of the business contact.

③ It should be guided under the professional personnel when the unit is moved to other place.

3.2 Requirements for Communication Line

! **NOTES!**

If the unit is installed in the place with strong electromagnetic interference, shielded wire must be applied on the communication wire between indoor unit and wired controller. Twisted pair lines with shielding function must be applied on the communication wire between indoor unit and indoor unit (outdoor unit).

3.2.1 Select Communication Line for Indoor Unit and Wired Controller

Fig 3.2

Material type	Total length of communication line between indoor unit and wired controller L (m/feet)	Wire size (mm²/AWG)	Material standard	Remarks
Light/Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤250m (L≤820-1/5feet)	2×0.75~2×1.25 (2×AWG18 ~2×AWG16)	IEC 60227 -5:2007	(1) Total length of communication line can't exceed 250m. (820-1/5feet). (2) The cord shall be Circular cord (the cores shall be twisted together). (3) If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

3.2.2 Select Communication Line for Indoor Unit and Indoor Unit (Outdoor Unit)

$$L=LO1+LO2+LO3+Li1+Li2+\ldots\ldots+Lin(n≤80)$$
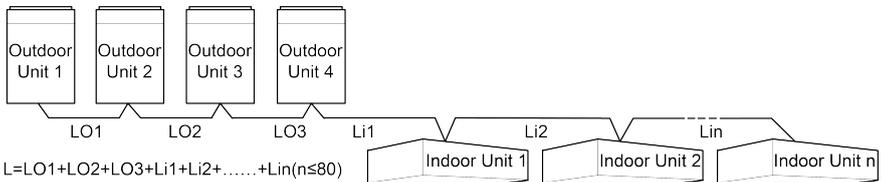
Fig 3.3

Material Type	Total Length L (m/feet) of Communication Cable between Indoor Unit and Indoor (Outdoor) Unit	Wire size (mm²/AWG)	Material Standard	Remarks
Light/Ordinary polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤1000m (L≤3280-5/6feet)	≥2×0.75 (≥2×AWG18)	IEC 60227 -5:2007	(1) If the wire diameter is enlarged to 2 ×1mm² (2×AWG16), the total communication line length can reach 1500m (4921-1/4feet). (2) The cord shall be Circular cord (the cores shall be twisted together). (3) If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

3.3 Wiring Requirements

Model	Power Cord Size	Air Switch Capacity (A)	Minimum Sectional Area of Ground Wire(mm²/AWG)	Minimum Sectional Area of Power Cord(mm²/AWG)
GMV-ND100L/A-T	220V~240V 50Hz 208V~230V 60Hz	6	1.0/AWG18	1.0/AWG18
GMV-ND140L/A-T	220V~240V 50Hz 208V~230V 60Hz	6	1.0/AWG18	1.0/AWG18

4 Installation Instructions

4.1 Installation of Indoor Unit
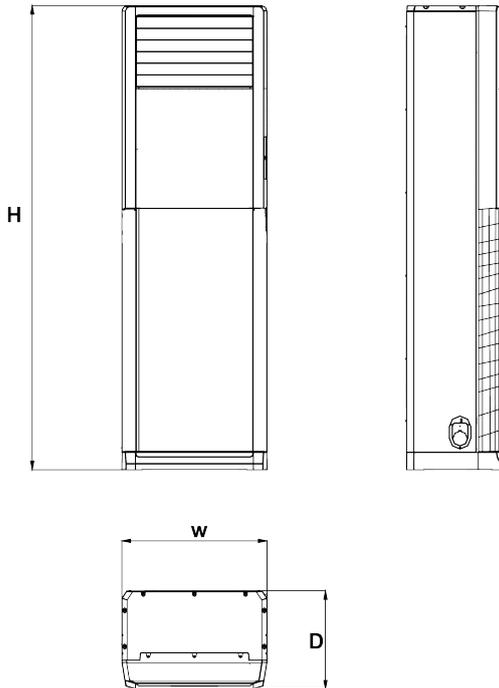
Fig 4.1

Unit: mm

Item Model	W	H	D
GMV-ND100L/A-T GMV-ND140L/A-T	580	1870	400

4.2 Debugging

The indoor unit defaults to be slave indoor unit when ex-factory. During project debugging, if master indoor unit hasn't been set manually, the outdoor unit will appoint one indoor unit as the master indoor unit automatically. Then you can reset the master indoor unit by remote controller or wired controller.

4.2.1 Setting by Remote Controller

Point the remote controller at the light board or wired controller.

In fan mode, set master mode indoor unit through ▲ and ▼ button:

(1) Adjust set temperature to 30°C.

(2) Within 5 seconds, press ▼ button and then press ▲ button repeatedly for three times.

(3) After finishing setting, "UC" is displayed on receiver light board for 5 seconds and "MASTER" icon is displayed on wired controller.

4.3 Preparation of the Piping Hole

(1) Make the piping hole (Φ65mm) in the wall at a slight downward slant to the outdoor side.

(2) Insert the piping-hole sleeve into the hole to prevent the connected piping and wiring from being damaged when passing through the hole.

4.4 Installation of the Drainage Pipes

(1) Make sure drainage pipe is led outdoors (discharge side).

(2) Butt-joint drainage pipe in the unit with blowing drainage pipe and fix them with insulated tape.

(3) If the drainage pipe should be wrapped with heat-preservation material (at least 9mm thickness), and then wrap it with tape to prevent air from entering into the pipe, which will cause condensation.

(4) After connecting, check if water can discharge properly or if there is

any leakage (As shown in Fig 4.5).

(5) It is not allowed to connect the condensate drain pipe into waste pipe or other pipelines which are likely to produce corrosive or peculiar smell to prevent the smell from entering indoors or corrupt the unit.

(6) It is not allowed to connect the condensate drain pipe into rain pipe to prevent rain water from pouring in and cause property loss or personal injury.

(7) Condensate drain pipe should be connected into special drain system for air conditioner.

4.5 Installation the Connection Pipe

Before wiring and piping, please remove the filter after opening the glass panel.

(1) As shown in Fig 4.2, take out the decorative strip at position 1 and then unscrew the screws. Removethe screws fixing the filter after opening the glass panel. At last take out the filter along the arrow direction at position Fig 4.3.

(2) During piping and wiring in the left and at the rear side, the attached accessories should be used, as shown in Fig 4.4.

Connection pipe

Drainage pipe

Flare-end connection

Drainage piping hole

Drainage piping

Blowing drainage pipe wrapping tape

Fig 4.2   Fig 4.3   Fig 4.4   Fig 4.5

Pipe   Flare Nut Pipe

Ordinary   Torque Wrench
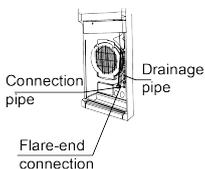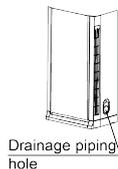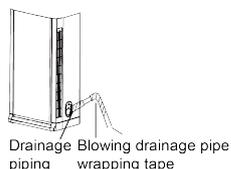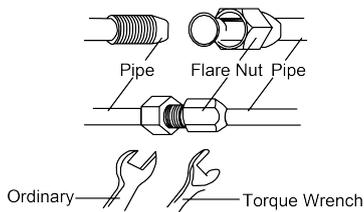
Fig 4.6

Models	Gas Pipe(mm/inch)		Liquid pipe(mm/inch)	
GMV-ND100L/A-T	Φ15.9	5/8	Φ9.52	3/8
GMV-ND140L/A-T	Φ15.9	5/8	Φ9.52	3/8

4.6 Installation of the Baffle
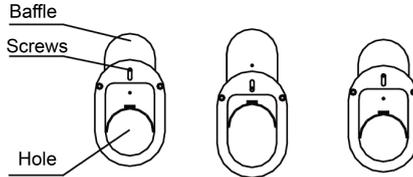
Fig 4.7

Please install it after installation of connection pipe and drainage pipe according to Fig 4.7.

(1) Loosen the screws and adjust the baffle position up and down to clamp connection pipe/drainage pipe as much as possible.

(2) Tighten the screws.

5 Wiring Work

NOTES!

① Units must be earthed securely, or it may cause electric shock.

② Please read the wiring diagram carefully before carry out the wiring work, incorrect wiring could cause malfunction or even damage the unit.

③ The unit should be powered by independent circuit and specific socket.

④ The wiring should be in accordance with related regulations in order to ensure the units reliable running.

⑤ Install circuit breaker for branch circuit according to related regulations and electrical standards.

⑥ Keep cable away from refrigerant pipings, compressor and fan motor.

⑦ The communication wires should be separated from power cord and connection wire between indoor unit and outdoor unit.

⑧ Adjust the static pressure via wired controller according to site circumstance.

5.1 Connect Cables and Terminals of Wiring Board

Connection of Wire and Patch Board Terminal.

(1) The connection of wire (as shown in Fig 5.1).

    1) Strip about 25mm insulation of the wire end by stripping and cutting tool.

    2) Remove the wiring screws on the terminal board.

    3) Shape the tail of wire into ring by needle nose plier, and keep the gauge of ring in accordance with screw.

    4) Use the screwdriver for tightening the terminal.

(2) The connection of stranded wire (as shown in Fig 5.2).

    1) Strip about 10mm insulation of the end of stranded wire by stripping and cutting tool.

    2) Loosen the wiring screws on terminal board.

    3) Insert the wire into the ring tongue terminal and tighten by crimping tool.

    4) Use the screwdriver for tightening the terminal.
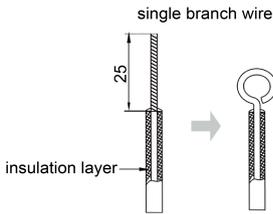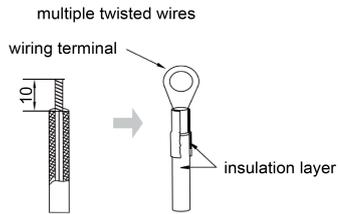
Fig 5.1   Fig 5.2

5.2 Power Cord Connection

🛈 **NOTES!**

All indoor units must be unified of power supply so that they can be powered ON/OFF at the same time.
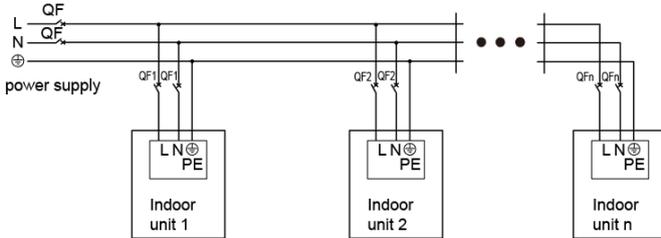
Note: The maximum connection quantity "n" for indoor unit is decided by the capacity of outdoor unit. Please refer to the unit capacity of unit for details.

Fig 5.3

For units with single-phase power supply.

(1) Detach the electric box lid.

(2) Let the power cord pass through the wiring through-holes.

(3) Connect the power cord to terminal "L, N, ⏚ ".

(4) Fix the power card with wiring clamp.

5.3 Connection of Communication Line of IDU and ODU

(1) Open the cover of electric box of indoor unit.

(2) Lead the communication line across the rubber ring.

(3)   Connect the communication line to terminal D1 and D2 on the 4-digit wiring board of indoor unit, as shown in Fig 5.4.

Fig 5.4

Note:Indoor unit quantity n is according to the outdoor unit capacity.
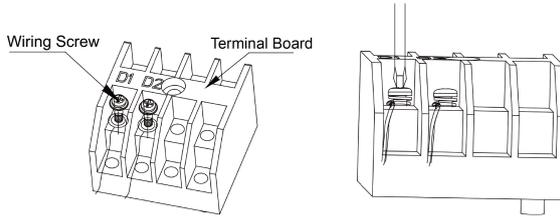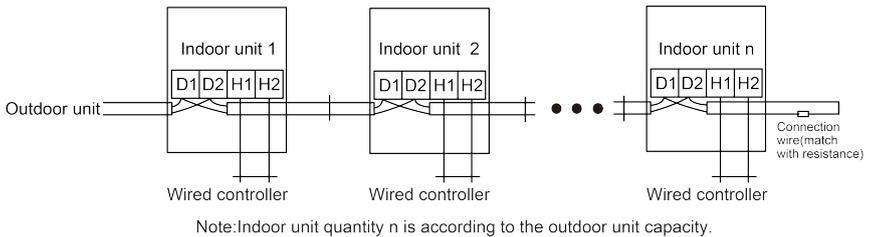
Fig 5.5

(4)   Secure the communication line with the wire clamp on the electric box.

(5)   In order to ensure the reliability of communication between IDU and ODU and the communication among each IDU, add a matched resistance (supplied in a package before ex-factory) on the wiring board of the last indoor unit in a series connection. The matched resistance should be connected in parallel between terminal screw D1 and D2, as shown in Fig 5.5.

5.4 Connection of Communication Line of Wired Controller

(1)   Open the cover of electric box of indoor unit.

(2)   Lead the communication line of wired controller across the rubber ring.

(3)   Connect the communication wire to terminal H1 and H2 of indoor 4-bit wiring board.

(4)   Fix the communication wire with wire clip on the electric box.

5.5 Illuminate for Connection of Wired Controller and Indoor Units Network

(1)   Communication wire of indoor unit and outdoor unit (or indoor unit) is connected to D1, D2.

(2)   Wired controller is connected to H1, H2.

(3)   One indoor unit can only connect to one wired controller.

(4)   One wired controller can only connect to one floor standing indoor unit.

NOTES!

①   The display of floor standing type unit corresponds to a built-in wired controller, it's an acquiescent "master wired controller". When the floor standing type unit externally connect a wired controller, the address of display and wired controller for floor standing type unit should be set, it should set a master wired controller (address is 01) and a slave wired controller (address is 02). The setting method of display for floor standing unit is: under power-off status, press "Mode" and "Speed" buttons simultainously for 5 seconds to switch the settings of master wired controller and slave wired controller. For the address setting method of wired controller please refer to user instruction of wired controller.

②   The display of floor standing type unit can be set as the master wired controller or the slave wired controller.

③   When the indoor unit of floor standing type unit is connected to wired controller and the wired controller is master wired controller, the parameter of the unit can be inquired and set through wired controller, and the inquiring and setting method please refer to user instruction of wired controller.

6 Control and Display

6.1 Control Panel

| Speed | Function | ▼ | ▲ | Light | Mode | ON/OFF |
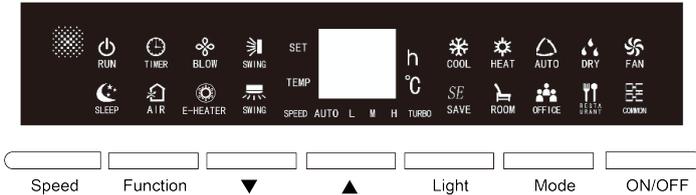
NOTES!

"AIR" function is an optional function of indoor unit, for the unit without such function, this function is invalid; "E-HEATER", "ROOM", "OFFICE", "RESTAURANT", "COMMON" are reserved functions of indoor unit that cannot be set.

6.2 Operational Instruction

6.2.1 Start Up and Close Down the Unit

Press "ON/OFF" button to start up the unit. Press "ON/OFF" button to close down the unit.

6.2.2 Mode Setting

Under power-on status, each time press "Mode" button, the mode will be switched according to the following order circularly:

(Auto) (Cooling) (Dry) (Fan) (Heating)
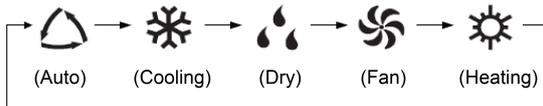
NOTES!

① Only the master indoor unit can set auto mode.

② Under auto mode, if the indoor unit is in auto cooling, the "△" and "❄" icons are on; if the indoor unit is in auto heating, the "△" and "☼" icons are on.

6.2.3 Setting of Light ON/OFF Function

(1) Light ON/OFF Function: can set the ON and OFF of light for display panel.

(2) Under power-on or power-off status, press "Light" button to turn on and turn off the light of display panel.

(3) When the light of display panel is turned off, press the other buttons other than "Light" button, the light on display panel will be turned off after 5 seconds.

6.2.4 Temperature Setting

Press "▼" or "▲" buttons under power-on status, the set temperature will be increased or decreased at 1°C each time; when long press the buttons, the temperature will be increased or decreased at 1°C every 0.3 seconds. The temperature setting range is: 16°C ~ 30°C.

NOTES!

Under auto mode, the temperature cannot be set through pressing "▼" or "▲" buttons.

6.2.5 Function Setting

Press "Function" button under power-on or power-off status, it can enter into function setting status. Under function setting status, press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, it will quit the function setting status.

(1) Up and down swing function settings.

Press "Function" button under power-on status to switch to up and down swing function, when "⬆️" icon flickers, press "▲" or "▼" button to start up or cancel the up and down swing function. If "⬆️" is on it means the function has been started up; if "⬆️" icon is off it means the function has been canceled.

(2) Left and right swing function settings.

Press "Function" button under power-on status to switch to left and right swing function, when "⬅️➡️" flickers, press "▲" or "▼" button to start up or cancel

the left and right swing function. If " " icon is on it means the function has been started up; if " " icon is off it means the function has been canceled.

(3) Settings of X-fan.

X-fan function: after closing down the unit under cooling and dry mode, the air conditioner will automatically dry the water of evaporator of indoor unit to prevent breeding of bacteria and mildew.

Turn on or cancel X-fan function: with the unit is started up, under cooling or dry mode, press "Function" button to switch to X-fan function, when " " flickers, press "▲" or "▼" buttons to start or cancel X-fan function. If " " icon is on it means the X-fan function has been started up, if " " icon is off it means the X-fan function has been canceled.

(4) Settings of Timer Function.

1) Timer Function: under power-on status, the count down of power-off time can be set. Under power-off status, the count down of power-on time can be set.

2) Timer setting: press "function" button to switch to timer function, when " " icon flichers, press "▲" or "▼" button to adjust the setting time. After setting the time, press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, the setting time is confirmed and quit the function setting status. After quitting the function setting status, the " " icon is on, it means the timer function has been turned on.

3) Cancel timer: press "Function" button to switch to timer function, when " " icon flickers, press "▲" or "▼" button to set the time to be "00", then the timer function is canceled; press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, it will quit the function setting status. After quitting the function setting status, the " " icon is off, it means the timer function has been canceled.

4) Count down setting range: 00~24 hours, in which "00" refers to

closedown of timer function. Each time press "▲" or "▼" button, if it is within 10 hours, it will increase or decrease 0.5 hour each time, if long press "▲" or "▼" button, it will increase or decrease 0.5 hour every 0.3 seconds; if it is over 10 hours, each time press "▲" or "▼" button will increase or decrease 1 hour each time, and if long press "▲" or "▼" button, it will increase or decrease 1 hour every 0.3 seconds.

(5) Setting of air renewal function.

    1) Air renewal function: through adjusting the fresh air volume to improve the air quality and keep the indoor fresh air.

    2) Air renewal setting: press "Function" button to switch to air renewal function, when " AIR " icon flickers, press "▲" or "▼" button to adjust the air renewal level; after setting air renewal level, press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, the air renewal function has been confirmed to be turned on and then quit the function setting status. After quitting the function setting status, the " AIR " icon is on, it means the air renewal function has been turned on.

    3) Cancel air renewal: press "Function" button to switch to air renewal function, when " AIR " icon flickers, press "▲" or "▼" button to set the air renewal as "00", then the air renewal function is canceled; press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, it will quit the function setting status. After quitting function setting status, the " AIR " icon is off, it means the air renewal function is canceled.

    4) Adjustment range of air renewal level: it can adjust the air renewal level to be 00~10, in which "00" refers to closing down air renewal function.

(6) Setting of Sleeping Function.

    1) Sleeping function: set the unit to enter into sleeping operational status, the unit will operate according to the preset sleeping

temperature curve to create a confortable sleeping environment and improve sleeping quality.

2) Turn on or cancel sleeping function: press "Function" button under power-on status to switch to sleeping function, when " 🌙 " icon flickers, press "▲" or "▼" button to turn on or cancel sleeping function. If " 🌙 " icon is on, it means the sleeping function is turned on; if " 🌙 " icon is off, it means the sleeping function is canceled.

3) There is no sleeping function under auto and swing mode.

(7) Setting of energy-saving function.

1) Energy-saving function: through setting the lower temperature limit of cooling and dry mode and upper temperature limit of heating mode, to make the air conditioner operate in a smaller temperature range, thus save energy.

2) Turn on cooling energy-saving: with the unit is started up, under cooling or dry mode, press "Function" button to switch to energy-saving function, when " SE SAVE " icon flickers, press "▲"or "▼" button to adjust cooling temperature limit, after setting cooling temperature limit, press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, the energy-saving function is confirmed to be turned on and quit the function setting status. After quitting function setting status, the " SE SAVE " icon is on, it means the cooling energy-saving function has been turned on.

3) Turn on heating energy-saving: with the unit is started up, under heating mode, press "Function" button to switch to energy-saving function, press "▲"or "▼" button to adjust heating temperature limit, if the " SE SAVE " icon flickers, after setting heating temperature limit, press "ON/OFF" button or without pressing any buttons for consecutive 5 seconds, the energy-saving function is confirmed to be turned on and quit the function setting status. After quitting function setting status, the " SE SAVE " icon is on, it means the heating

energy-saving function has been turned on.

4) Cancel energy-saving function: under energy-saving function setting status or under normal power-on status, press "Function" button and "▼" button simultaneously to cancel energy-saving function, when " 𝑆𝐸 SAVE " icon is off, it means the energy-saving function is canceled.

6.2.6 Speed Settings

Under power-on status, press "Speed" button, the speed will be circularly switched according to the following order:

NOTES!

① Under dry mode, the speed cannot be adjusted, it will be automatically set to be low.

② When the speed of indoor unit is adjusted to be auto speed, the indoor unit will automatically change speed according to the indoor ambient temperature, to make the indoor ambient temperature be more stable and comfortable.

6.2.7 Special Function

(1) Inquire address of indoor unit.

Under power-off status, press "Speed" button and "ON/OFF" button simultaneously for 5 seconds, then the "88" LED will display the engineering No. of the indoor unit for 5 seconds; if the engineering No. is over two digits, it will circularly display the higher two digits and lower two digits.

(2) Inquire unit type.

Under power-off status, simultaneously press "Mode" button and "ON/OFF" button for 5 seconds, then the "88" LED will display corresponding code for 5 seconds: heat pump unit will display "nA", cooling only unit will display "nC", heating only uint will display "nH", swing type unit will display "nF".

(3) Setting of power-fail memory function.

Under power-off status, simultaneously press "Mode" button and "▲" button for 5 seconds to switch the memory method: if "88" LED displays "on", it means it will memorize the on and off status of the unit after being de-energized (that is, after de-energizing and energizing the unit, the unit will resume to be the status before it is de-energized); if "88" LED displays "oF", it means it will not memorized the on and off status of the unit after being de-energized (that is, after de-energizing and energizing the unit, the unit will still be power-off status).

(4) Setting of master indoor unit function.

Under power-off status, long press "Mode" button for 5 seconds to set the indoor unit to be master pattern indoor unit (master indoor unit), after finishing setting, the "88" LED will display "UC" for 5 seconds.

NOTES!

When the master indoor unit is started up, the operational light " " on display panel will flicker for three times.

① Settings of Child Lock Function.

a) Under power-on or power-off status, simultaneously press "▲" button and "▼" button for 5 seconds, it will turn on child lock function, the "88" LED will flicker and display "An" for three times; press "▲" button and "▼" button again for 5 seconds, it will cancel child lock function.

b) Under child lock status, the unit will not response if pressing other buttons, and the "88" LED will flicker and display "An" to remind the user that the unit is under child lock status.

② Long-distance Shielding Function.

a) Long-distance shielding function: long-distance monitor or centralized controller can remotely control related functions of indoor unit or conduct shielding to make the operation invalid, thus realize long-distance control function.

b) Long-distance shielding function can be divided into full shielding and partial shielding. When it is in full shielding, all the remote control or operation by pressing buttons to the indoor unit will be

invalid. If it is in partial shielding, the remote control or operation by pressing buttons to the shielded function of indoor unit will be invalid.

c) When long-distance monitor or centralized controller conduct long-distance shielding to indoor unit, if the user wants to remotely control or operate the unit by pressing buttons, the "88" LED will flicker and display "Ay" to remind the user that it is under long-distance shielding status.

7 The Best Usage Method

(1) Adjust the set temperature properly in proper to prevent electricity wasting. It is better tocontrol the difference of the indoor and outdoor temperatures within 5°C.

(2) The better effect will be maintained by adjusting the guide louver downward for heating and horizontal for cooling.

(3) When the air conditioner is running, don't open windows or doors for long time, otherwise the efficiency of unit will be lowered.

(4) Prevent the cooled air blowing to body directly for long time and making indoor temperature too low, for it is bad for health.

(5) Do not pour water to unit or clean it by water, otherwise a malfunction or electric shock may happen.

(6) Do not mangle the power cord and the communication cord. The damaged power cord and communication cord can only be replaced by the specified ones.

(7) This air conditioner allows voltage fluctuation within±10%.

(8) This air conditioner cannot be used for drying clothes and refrigerating food, etc.

8 Maintenance Method

⚠️ **WARNING!**

① Do turn off the unit and cut off the power when cleaning the air conditioner, otherwise electric shock may happen.

② Do not make the air conditioner wet or electric shock may be incurred; ensure that the air conditioner will not be cleaned by water rinsing under any circumstance.

③ Volatile liquid like thinner or gasoline would damage the appearance of the air conditioner (Only soft dry cloth and wet cloth moistened with neutral detergent could be used to clean the surface panel of the air conditioner).

8.1 Cleaning Panel

❗ **NOTES!**

Do take down it before cleaning.

① Pull along the direction of arrows to take down the panel.

② Clean the panel.

Clean it with a soft-hair brush, water and neutral cleaning fluid, and then dry it.

⚠️ **CAUTION!**

① Do not use water above 45°C to wash the panel to prevent decoloration or eformation.

② Install the panel.

As shown in Fig 8.1, install the stands of both ends of the panel into the slot and put the middle rotating shaft into the groove, then place the panel and clasp back along the arrow direction.

8.2 Cleaning the Air Filters

(1)   Disassembling the air filter.

As shown in Fig 8.1, take out the decorative strip at position ① and unscrew the screw. After opening the glass panel and unscrew the screws fixing the air filter. At last pull out the air filter along the arrow direction ②.

(2)   Cleaning the filter.

Slightly flat the filter or clean the filter with electric cleaner. If there is too much dust on the filter, clean it with a little neutral detergent or warm water. After that, dry the filter and reinstall it, as shown in Fig 8.1.

NOTES!

Do not dry the filter by exposing it under direct sunshine or near a heating oven, or it may get deformed.
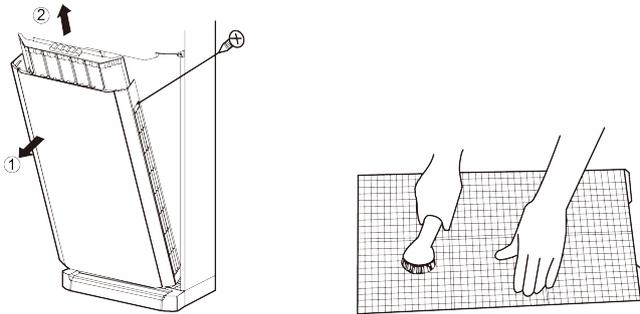
Fig 8.1

8.3 Check Before the Usage Season

(1) Check if there is blockage in the inlet or outlet vent of the air conditioner.

(2) Check if the earth wire is earthed reliably.

(3) Check if the batteries in the wireless remote controller have been replaced.

(4) Check if the air filter has been installed properly.

In order to start up the air conditioner smoothly after it has been turned off for a long time, energize the unit 8 hours before turning it on.

8.4 Check After the Usage Season

(1) Clean filter and body of air conditioner.

(2) Cut off the main power supply of air conditioner.

9 Table of Error Code for Indoor Unit

Error Code	Content	Error Code	Content	Error Code	Content
L0	Indoor Unit Error.	L9	Quantity Of Group Control Indoor Units Setting Error.	d8	Water Temperature Sensor Error.
L1	Indoor Fan Protection.	LA	Indoor Units Incompatibility Error.	d9	Jumper Cap Error.
L2	E-heater Protection.	LH	Low Air Quality Warning.	dA	Indoor Unit Network Address Error.
L3	Water Full Protection.	LC	Outdoor-Indoor Incompatibility Error.	dH	Wired Controller Circuit Board Error.
L4	Power supply of wired controller is faulted.	d1	Indoor Unit Circuit Board Error.	dC	Capacity DIP Switch Setting Error.
L5	Anti-freezing Protection.	d3	Ambient Temperature Sensor Error.	dE	Indoor Unit CO_2 Sensor Error.
L7	No Master Indoor Unit Error.	d4	Inlet Pipe Temperature Sensor Error.	C0	Communication Error.

Error Code	Content	Error Code	Content	Error Code	Content
L8	Power Insufficiency Protection.	d6	Outlet Pipe Temperature Sensor Error.	AJ	Filter Cleaning Reminding.
db	Special Code: Project Debugging Code.	dL	Outlet Air Temperature Sensor Error.	—	—

10 Malfunction Analyzing

⚠ **WARNING!**

Do not repair the air conditioner by yourself for the incorrect repair would lead to electric shockor fire. Please contact the service center and have the unit repaired by the specialized personnel. Check the following items before contacting the service center, as it could save your time and cost.

Malfunction Phenomena	Malfunction Analyzing
The air conditioner could not start up just after turned off.	The over load protection switch of the unit makes it run after 3 minutes delay.
Odor gave out when the unit just was turned on.	Odors or cigarette smoke which has been absorbed in is discharged out.
Slight bicker was heard when the unit was running.	This is the sound of the running refrigerant.
Mist came from the air outlet vent when cooling.	Indoor air is cooled rapidly.
Creak sound was heard when the unit was running or after it was turned off.	It is the sound emitted by the expansion of the panel and other parts because of the temperature change.
The air conditioner failed to run.	Is the power supply cut off ? Is the power supply connected ? Is the circuit protector started aside ? Is the voltage too high or too low ? If TIMER had been set on the wireless remote controller ?

Malfunction Phenomena	Malfunction Analyzing
The cooling (heating) effect of the air conditioner was not good.	Is the temperature set properly ? Is the inlet, outlet vent of the outdoor unit blocked ? Is the air filter too dirty to cause blockage ? Are windows and doors closed ? Is the air speed too low ? Is there other heat source in the room ?
The wireless remote controller cannot work.	In the event that the battery is replaced but the wireless remote control still malfunctions, then open the back cover and press. "ACL" button to make it normal. When the air conditioner is under abnormal interference or its functions are changed too frequently, then the wireless remote controller would works improperly. At this time, it is available to resume the normal operation through de-energizing and then energizing the wireless controller again. Is the controller within the receiving area? or is there blockage? Check if the voltages of batteries in the wireless remote controller are sufficient; Otherwise change the batteries.

10.1 Service Center

When the following phenomena appeared, please stop operating immediately, cut off the main power supply of the unit and then contact the service center of the air conditioner.

(1) Harsh sound heard when running.

(2) The fuse or protector opened frequently.

(3) Substance or water pulled in the unit involuntarily.

(4) Water leakage in room.

(5) Power cord overheated.

(6) Abnormal odor is given out when running.

10.2 After-sales Service

When quality or other problems arise upon the purchased air conditioner, please contact the local service center.