



Owner's Manual
Air Conditioners



Applicable models:

GMV-ND100L/A-T GMV-ND140L/A-T

- Thank you for choosing 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 sent email to global@gree.com.cn or electronic version.
- GREE reserves the right to interpret this manual which will be subject to any change due to product improvement without further notice.
- GREE Electric Appliances, Inc. of Zhuhai reserves the final right to interpret this manual.

### **User Notice**

For correct installation and operation, please read all instructions carefully. Before reading the instructions, please be aware of the following items:

- (1) Execution standard of GMV Multi VRF: ISO 15042-2011.
- (2) For the safe operation of this unit, please read and follow the instructions carefully.
- (3) During operation, total capacity of indoor units should not exceed the total capacity of outdoor units. Otherwise, indoor units will not provide enough cooling or heating.
- (4) Direct operators or maintainers should well keep this manual.
- (5) If this unit fails to operate normally, please contact our service center as soon as possible and provide the following information:
- Content on the nameplate (model number, cooling capacity, production code, ex-factory date).
- Malfunction details (before and after the malfunction occurs).
- (6) Each unit has been strictly tested and proved to be qualified before ex-factory. In order to prevent units from being damaged or operating normally because of improper disassembly, please do not disassemble the unit by yourself. If you need to disassemble and check units, please contact our service center. We will send specialists to guide the disassembly.
- (7) All graphics in this manual are only for your reference. For sales or production reasons, these graphics are subject to change by manufacturer without prior notice.
- (8) 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. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

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### 1 Safety Precautions

8

Means items that must be forbidden! Otherwise, it may lead to personal injury or death or serious damage.

Means items that must be followed! Otherwise, it may lead to personal injury or property loss.



Follow this instruction to complete the installation work. Please carefull read this manual before unit startup and service.



Installation should be conducted by dealer or qualified personnel. Please do not attempt to install the unit by yourself. Improper handling may result in waterleakage, electric shock or fire disaster etc.



Before installation, please check if the power supply is in accordance with the requirements specified on the nameplate. And also take care of the power safety.



Make sure the unit can be earthed properly and soundly after plugging into the socket so as to avoid electric shock. Please do not connect the ground wire to gas pipe, water pipe, lightning rod or telephoneline.



Be sure to use the exclusive accessory and part to prevent the water leakage, electric shock and fire accidents.



If refrigerant leakage happens during installation, please ventilate immediately. Poisonous gas will emerge if the refrigerant gas meets fire.



Wire size of power cord should be large enough. The damaged power cord and connection wire should be replaced by exclusive cable.



After connecting the power cord, please fix the electric box cover properly in order to avoid accident.



Never fail to comply with the nitrigen charge requirements.Charge nitrogen when welding pipes.



Never short-circiut or cancel the pressure switch to prevent unit damage.



Please firstly connect the wired controller before energization, otherwise wired controller can not be used.



Before using the unit, please check if the piping and wiring are correct to avoid water leakage,refrigerant leakage, electric shock, or fire etc.

Do not insert fingers or objects into air outlet/inlet grille.		Open the door and window and keep good ventilation in the room to avoid oxygen deficit when the gas/oil supplied heating equipment is used.
Never start up or shut off the air conditioner by means of directly plug or unplug the power cord.		Turn off the unit after it runs at least five minutes; otherwise it will influence oil return of the compressor.
Do not allow children operate this unit.		Do not operate this unit with wet hands.
Turn off the unit or cut off the power supply before cleaning the unit, otherwise electric shock or injury may happen.		Never spray or flush water towards unit, otherwise malfunction or electric shock may happen.
Do not expose the unit to the moist or corrosive circumstances.	24H	Electrify the unit 8 hours before operation. Please switch on for 8 hours before operation. Do not cut off the power when 24 hours short-time halting (to protect the compressor).
Volatile liquid, such as diluent or gas will damage the unit appearance.Only use soft cloth with a little neutral detergent to clean the outer casing of unit.	30°C 26°C	Under cooling mode, please don't set the room temperature too low and keep the temperature difference between indoor and outdoor unit within 5.
If anything abnormal happens (such as burning smell), please power off the unit and cut off the main power supply, and then immerdiately contact Gree appointed service center. If abnormality keeps going, the unit might be damaged and lead to electric shock or fire.		User is not allowed to repair the unit. Fault service may cause electric shock or fire accidents. 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

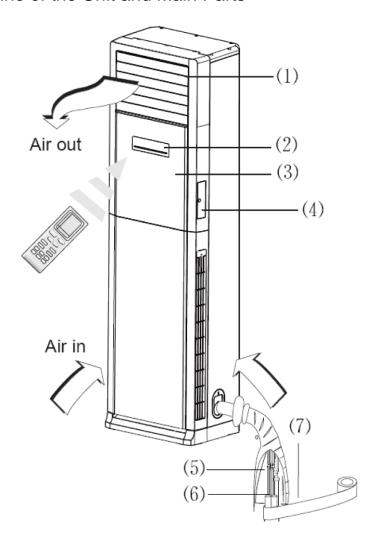


Fig2.1

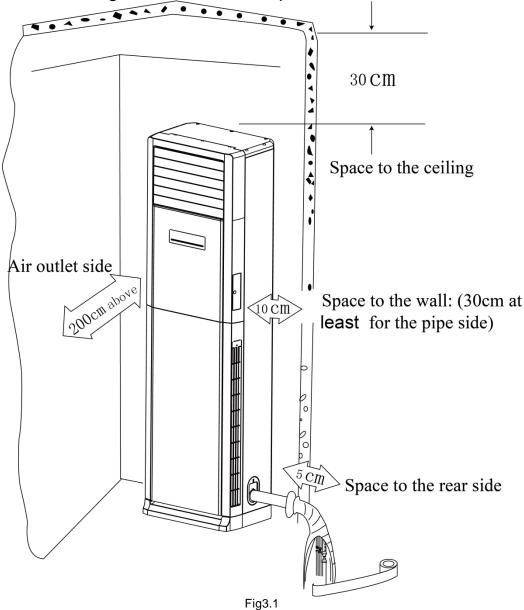
No.	Part Name	No.	Part Name
1	Air outlet	(5)	Connecting pipe
2	Display screen and button	6	Drainage pipe
3	3 Front panel		Wrapping tape
4	Remote control box		

2.2 Rated Operating Condition

ltom	Indoor C	Condition	Outdoor Condition		
item	DBTemperature°C WBTemperature°		DBTemperature°C	WBTemperature°C	
Rated Cooling	ling 27 19		35	24	
Rated Heating	20	15	7	6	

### 3 Installation Instruction

### 3.1 Schematic diagram of installation spaces



# 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 malfunctioncaused 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 air conditioner unit is moved to other place.

### 3.2 Requirements for Communication Line



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 line 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 3.2.1

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≤250 (L≤820-1/5feet)	2×0.75~2×1.25 (2×AWG18~2×AWG16)	60227-5:2007	Total length of communication line can't exceed 250m. (820-1/5feet). The cord shall be Circular cord (the cores shall be twisted together). 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)

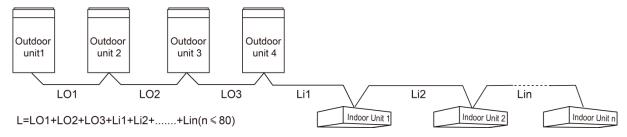


Fig 3.2.2

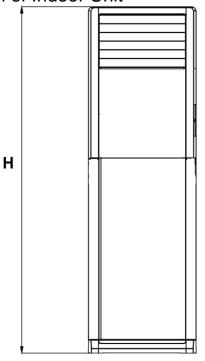
Material Type	Total Length L (m/feet) of Communication Cable between Indoor Unit and Indoor (Outdoor) Unit	Wire size (mm²/AWG)	Material Standard	Remarks
Light/Ordinary polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤1000 (L≪3280-5/6feet)	≥2×0.75 (≥2×AWG18)	IEC 60227-5:2007	1) If the 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.

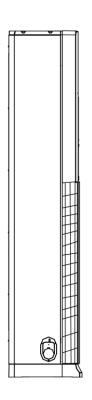
# 3.3 Wiring Requirements

Model	Power Cord Size	Air Switch apacity (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





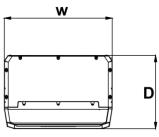


Fig 4.1

Unit: mm

			•
Model	m W	Н	D
GMV-ND100L/A-T GMV-ND140L/A-T	580	1870	400

# 4.2 Debugging

Setting of master indoor unit must be done after finishing installation of unit. Otherwise, the whole system will report "L7" error and the whole unit cannot operate.

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

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 ( $\Phi$  65mm) 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.

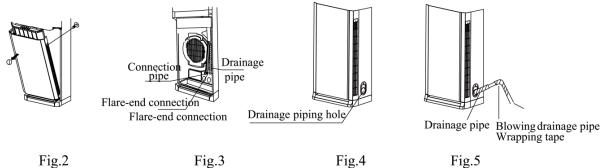
### 4.4 Installation of the drainage pipe

- (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.5)

### 4.5 Installation the connection pipes

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

- (1) As shown in Fig.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 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.



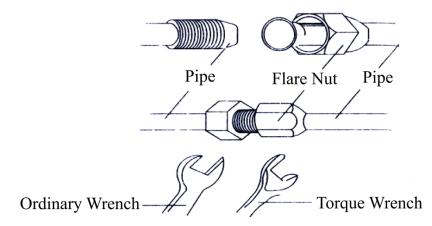
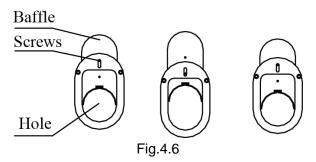


Fig 4.5

Models	Gas Pipe(r	mm/inch)	Liquid pi	pe(mm/inch)
GMV-ND100L/A-T	Ф16	5/8	Ф9	3/8
GMV-ND140L/A-T	Ф16	5/8	Ф9	3/8

### 4.6 Installation of the Baffle



Please install it after installation of connection pipe and drainage pipe according to Fig.4.6

- 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

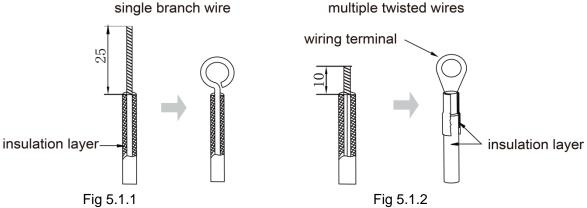


- ① Units must be earthed securely, or it may cause electric shock.
- Please carefully read the wiring diagram before carry out the wiring work, incorrect wiring could cause malfunction or even damage the unit.
- The unit should be powered by independent circuit and specific socket.
- ④ The wiring should 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.
- Keep cable away from refrigerant pipings, compressor and fan motor.
- The communication wires should be separated from power cord and connection wire between indoor unit and outdoor unit.
- 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

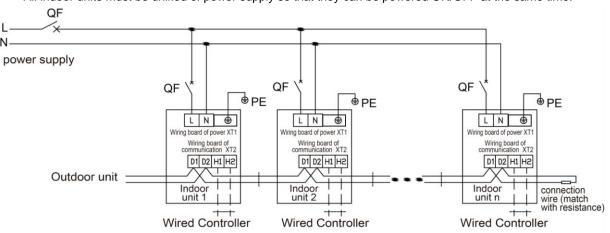
- (1) The connection of wire (as shown in fig 5.1.1)
  - ① Strip about 25mm insulation of the wire end by stripping and cutting tool.
  - 2 Remove the wiring screws on the terminal board.
  - Shape the tail of wire into ring by needle nose plier, and keep the gauge of ring in accordance with screw.
  - 4 Use the screwdriver for tightening the terminal.
- (2) The connection of stranded wire (as shown in fig 5.1.2)
  - 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.



### 5.2 Power Cord Connection



All indoor units must be unified of power supply so that they can be powered ON/OFF at the same time.



Note: indoor unit quantity n is according to the outdoor unit capacity.

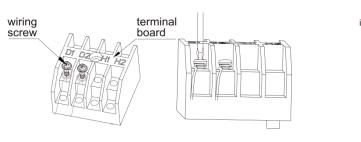
Fig 5.2

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.5.3.1.



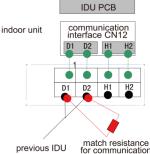


Fig 5.3.1

Fig 5.3.2

- (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.5.3.2.

#### 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

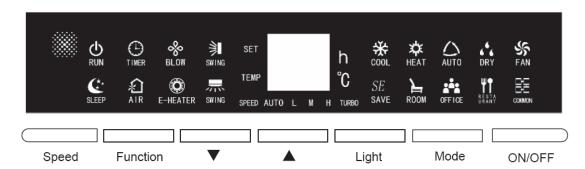
- (1) Communication wire of indoor unit and outdoor unit (or indoor unit) is connected to D1,D2.
- (2) Wired controller is connected to H1,H2.
- (3) One indoor unit can only connect to one wired controller.
- (4) One wired controller can only conntect to one floor standing indoor unit.

# ⚠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



# **⚠**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 obligate functions of indoor unit that cannot be set.

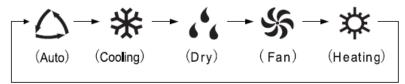
### 6.2 Operational Instruction

#### 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:



# ⚠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 "桊" 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 " $\nabla$ " or " $\Delta$ " 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:  $16^{\circ}$ C $\sim$ 30°C.



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 "left" icon is on it means the function has been started up; if "left" 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 quiting 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 "press" icon flickers, press "A" or "V" 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 quiting the function setting status, the "press" 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 second; 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 second.
- (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 "☐" 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 quiting the function setting status, the " 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 "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 quiting function setting status, the "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 "see" icon flickers, press "▲"or" ▼" button to turn on or cancel sleeping function. If "see" icon is on, it means the sleeping function is turned on; if "see" 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 "F" 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 quiting function setting status, the "SE" 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" 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 quiting function setting status, the "SE" 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" 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.
- 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 masterindoor unit is started up, the operational light "On display panel will flicker for three times.

#### (5) Settings of Child Lock Function

- ① 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.
- ② 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.
- (6) Long-distance Shielding Function
- ① 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.
- ② 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.
- ③ 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



- (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



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.



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

(3) Install the panel

As shown in Fig.II, 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

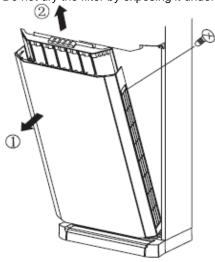
As shown in Fig. 7.2, take out the decorative strip at position ① and unscrew the screw. After opening the glass panel and unscrew the screws fixing the air filter. At last pull out the air filter along the arrow direction.

#### (2) 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.7.2.

### ⚠Note:

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



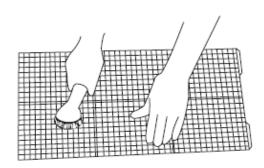


Fig. 7.2

### 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 period, 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 Codes for Indoor Unit

Error Code	Content	Error Code	Content	Error Code	Content
LO	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 CO2 Sensor Error
L7	No Master Indoor Unit Error	d4	Inlet Pipe Temperature Sensor Error	C0	Communication Error
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



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?
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.
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### 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.

- ◆ Harsh sound heard when running;
- The fuse or protector opened frequently;
- Substance or water pulled in the unit involuntarily;
- Water leakage in room;
- ◆ Power cord overheated;
- ◆ 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.



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