



# **Multi Variable Air Conditioners One-way Cassette Type Indoor Unit**

## **Owner's Manual**

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### **Air Conditioners**

Models:

GMV-ND22TD/A-T

GMV-ND28TD/A-T

GMV-ND36TD/A-T

GMV-ND45TD/A-T

GMV-ND50TD/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](http://www.gree.com) or sent email to [global@gree.com.cn](mailto: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.
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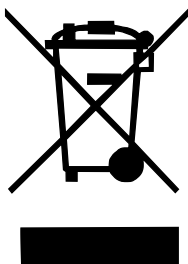
## Preface

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

- (1) For the safe operation of this unit, please read and follow the instructions carefully.
- (2) During operation, total capacity of indoor units should not exceed the total capacity of outdoor units. otherwise, poor effect of cooling or heating may result.
- (3) Direct operators or maintainers should well keep this manual.
- (4) 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.
- (5) 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.
- (6) All graphics in this manual is only for your reference. For sales or production reasons,these graphics are subject to change by manufacturer without prior notice.

## User Notice


- 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.
- **DISPOSAL:** Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.




## Contents

1 Safety Precautions .....	1
2 Product Introduction .....	3
2.1 Names of Key Components .....	3
2.2 Rated Working Condition .....	3
2.3 Unit Functions .....	4
3 Preparations for Installation .....	5
3.1 Standard Fittings .....	5
3.2 Installation Position Selection .....	6
3.3 Requirements of communication wire selection .....	6
3.4 Wiring Requirement .....	7
4 Installation Instructions .....	8
4.1 Indoor unit installation .....	8
4.2 Refrigerant Pipe Connection .....	9
4.3 Drainage Pipe Installation and Drainage System Testing .....	10
4.4 Panel installation .....	12
4.5 Wired controller installation .....	13
5 Wiring Work .....	14
5.1 Connection of Wire and Patch Board Terminal .....	14
5.2 Power Cord Connection .....	14
5.3 Connection of Communication Wire between Indoor Unit and Outdoor Unit(or indoor unit) ...	15
5.4 Connection of Communication Wire for Wired Controller .....	15
5.5 Instructions on Connecting Wired Controller and Indoor Units Network ...	16
6 Routine Maintenance .....	18
6.1 Cleaning of Filter .....	18
6.2 Maintenance before the Seasonal Use .....	18
6.3 Maintenance after the Seasonal Use .....	18
7 Table of Error Codes for Indoor Unit .....	19
8 Troubleshooting .....	19

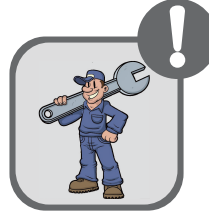
## 1 Safety Precautions

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

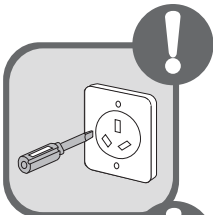
 means items that must be followed! Otherwise, it may lead to personal injury or property loss.



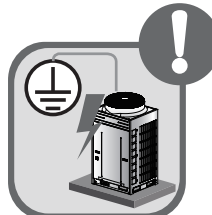
Please install the unit according to instructions in this manual. Read this manual carefully before starting up or checking the machine.



Installation should be performed by dealer or qualified technicians. Do not install the product by yourself. Improper installation may result in water leakage, electric shock or fire hazard.



Make sure the local power supply is in accordance with units before installation, and check the power supply carefully.



This air conditioner must be properly grounded through the receptacle to avoid electric shock. The grounding wire shouldn't be connected with gas pipe, water pipe, lightning arrester or telephone line.



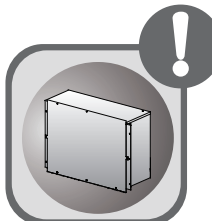
Please use specialized accessories or parts to carry out installation, or water leakage, electric shock, fire hazard may result.



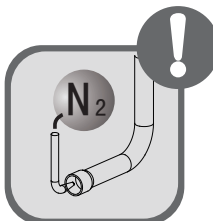
R410A refrigerant can produce poisonous gas once it meets fire, so please ventilate the room immediately if refrigerant leaks out during installation.



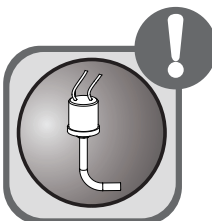
Diameter of power cord must be large enough. Damaged power cord and connecting wire must be replaced by specialized electric cable.



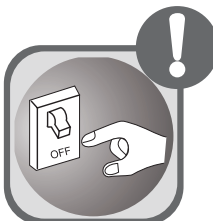
After the power cord is connected, please install the cover of electric box to avoid danger.



Nitrogen must be charged according to technical requirements.



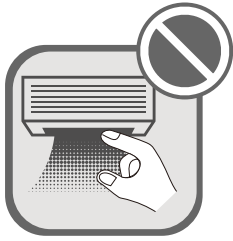
Short circuit is forbidden. Do not cancel the pressure switch in case the unit may be damaged.



For units with wired controller, do not connect power supply until the wired controller is well installed. Otherwise, the wired controller cannot be used.



When the installation is finished, please check and make sure the drain pipe, pipeline and electric wire are all well connected in order to avoid water leakage, refrigerant leakage, electric shock or fire hazard.



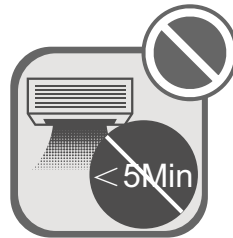
Do not extend fingers or objects into air outlet or air return grille.



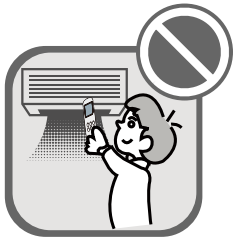
If you use gas heater or petroleum heater in the same room, please open the door or window to maintain good air circulation in case the room may lack of oxygen.



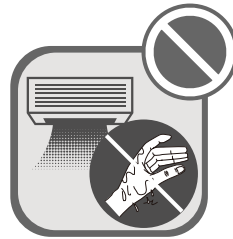
Never start or stop the air conditioner by inserting or removing the power cord.



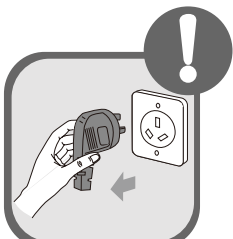
Do not turn off the air conditioner until it runs for at least 5 minutes. Otherwise, oil-return of the compressor will be affected.



Children are not allowed to operate the air conditioner.



Do not operate the air conditioner with wet hands.



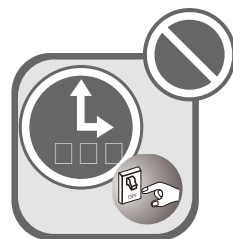
Please turn the unit off and unplug your air conditioner before cleaning. Otherwise, it may cause electric shock or personal injury.



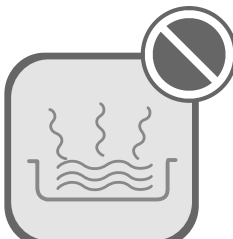
Do not spray water on the air conditioner or it will cause malfunction or electric shock.



Do not expose the air conditioner directly to water or place it in a damp or corrosive environment.



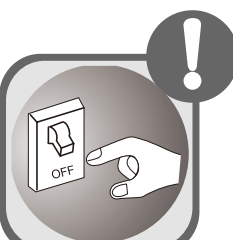
Connect power supply 8 hours before operation. Do not disconnect power if you want to stop the unit in a short period of time, e.g. in one night. (This is for protecting the compressor.)



Volatile liquid like thinner or gasoline will damage the appearance of air conditioner. (Please use soft dry cloth and wet cloth with mild detergent to clean the outer case of air conditioner.)



During Cooling mode, indoor temperature should not be set too low. Keep the difference between indoor temp and outdoor temp within 5°C.



If abnormal condition occurs (e.g. unpleasant smell), please turn off the unit at once and disconnect power supply. Then contact GREE service center. If the air conditioner continues to operate despite of abnormal condition, the unit may be damaged and it may cause electric shock or fire hazard.)

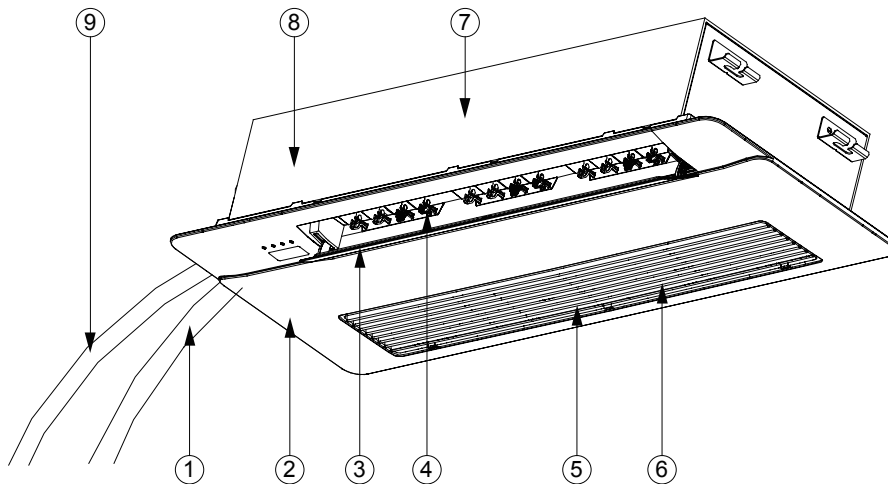


Do not repair the air conditioner by yourself. Improper repair will cause electric shock or fire hazard. Please contact GREE service center and have it repaired by professional technicians.

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 Names of Key Components



No.	①	②	③	④	⑤
Name	Connection pipe	Panel	Air louver	Swing blade	Air-in grille
No.	⑥	⑦	⑧	⑨	
Name	Built-in filter	Main body	Drainage device (built-in)	Drainage Pipe	

### 2.2 Rated Working Condition

	Indoor Side Condition		Outdoor Side Condition	
	Dry Bulb Temp °C	Wet Bulb Temp °C	Dry Bulb Temp °C	Wet Bulb Temp °C
Rated Cooling	27	19	35	24
Rated Heating	20	15	7	6

Indoor Unit Working Temperature Range: 16°C~ 32°C.

## 2.3 Unit Functions


Unit Functions	Wired Controller XK46(Optional)	Wired Controller XK49(Optional)	Remote Controller YAD1F(Standard)	Remote Controller YV1L1(Optional)
Operation Mode (Cooling, Heating, Fan, Dehumidifying)	✓	✓	✓	✓
Fan Speed Adjustment	✓	✓	✓	✓
Temperature Adjustment	✓	✓	✓	✓
X-fan Function	✓	×	✓	✓
Quiet Function	✓	×	×	✓
Sleep Function	✓	×	✓	✓
Save Function	✓	×	×	✓
E-heater Function	×	×	×	×
Memory Function	✓	✓	×	×
Absence Function	✓	×	✓	✓
Timer Function	✓	×	✓	✓
Low Temp Dehumidify Function	✓	×	×	✓
Filter Cleaning Reminding Function	✓	×	×	×
I Feel	×	×	✓	✓
Light Function	✓	×	✓	✓
Swing	✓	✓	✓	✓



### Notes:

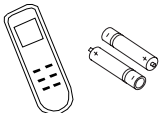
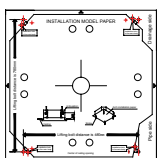

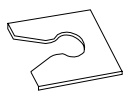









- ① ✓: included, X: not included.
- ② Please refer to the user manual of Wired Controller or Remote Controller for function details.

### 3 Preparations for Installation

 **Note:** this picture is for reference only, please refer to the actual product; the unit of dimension is mm.

#### 3.1 Standard Fittings

Use the following provided accessories according to the requirement.

No.	Name	Appearance	Q'ty	Usage
1	wireless controller		1	To control the indoor unit
2	paper pattern for installation		1	Locate the drill hole on ceiling
3	Tapping screw with washer		4	Fix paper pattern
4	Washer fixing plate		4	Prevent the washer from falling off
5	Drain Hose Assembly		1	To connect with the hard PVC drain pipe
6	Special Nut		1	To be used for connecting the refrigerant pipe
7	M10X8 Nut with Washer		4	To be used together with the hanger bolt for installing the unit.
8	M10 Nut (M10X8.4 Nut)		4	To be used together with the hanger bolt for installing the unit.
9	M10 Washer (Spring Washer M10X2.6)		4	To be used together with the hanger bolt for installing the unit.
10	Insulation		1	To insulate the gas pipe
11	Insulation		1	To insulate the liquid pipe
12	Sponge		1	To insulate the drain pipe
13	Fastener		4	To fasten the sponge



### 3.2 Installation Position Selection

- (1) The appliance shall not be installed in the laundry.
- (2) The location should be able to withstand the weight of unit.
- (3) The water can be drained conveniently from drainage pipe.
- (4) There should be no obstruction near air inlet and air outlet.
- (5) Follow the installation distance required in the fig below to ensure sufficient space for maintenance.
- (6) The installation location should be far from heat sources, flammable or explosive gas, or smog spread in the air.
- (7) The indoor unit, outdoor unit, power cord and connection electricity wire should be at least 1m from television and radio in order to prevent interference and noise. (Even though 1m distance is ensure, there may be noise if the electric wave is too strong.)

Unit: mm

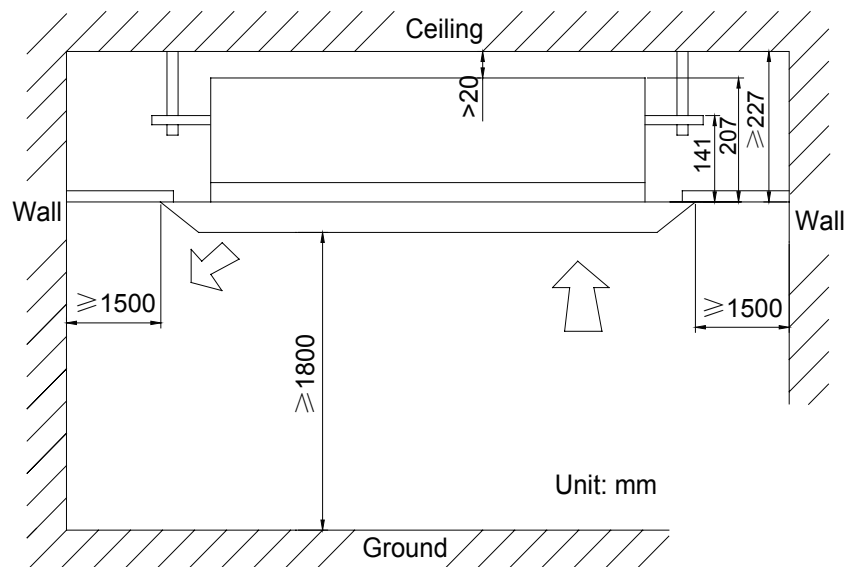


Fig 3.2

#### ⚠ Notes:

- ① The unit shall be installed in accordance with national standards or local regulations..
- ② Only qualified personnel can carry out installation work, please contact with local dealer before installation..
- ③ Make sure all the installation work completed before energizing.

### 3.3 Requirements of communication wire selection

#### ⚠ Note:

If air conditioner used under strong electronic-magnetic interference circumstance, STP( shielded twisted pair) communication cable must be adopted.

#### 3.3.1 Selection of communication wire between indoor unit and wired controller

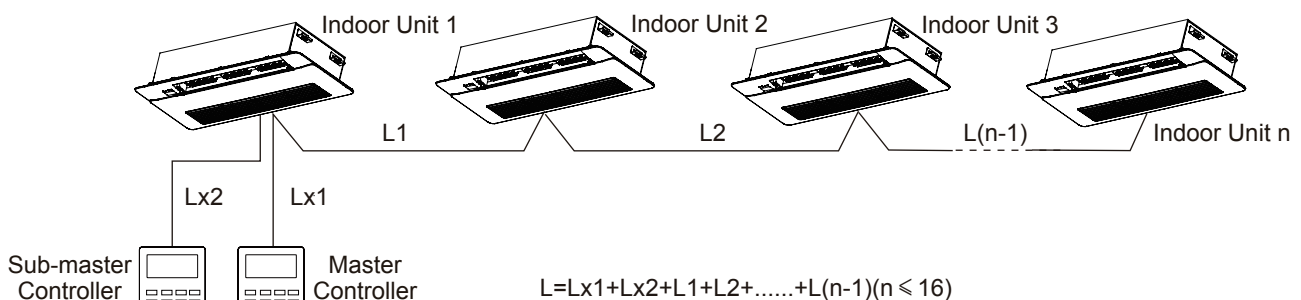


Fig 3.3.1

Wire type	Total length of communication wire between indoor unit and wired controller (m)	Wire diameter (mm <sup>2</sup> )	Wire tandard	Remark
Light/normal PVC hose	$L \leq 250$	$2 \times 0.75 \sim 2 \times 1.25$	IEC 60227-5	The total length of communication line should not exceed 250m.

### 3.3.2 Selection of communication wire between indoor unit and indoor unit (or outdoor unit)

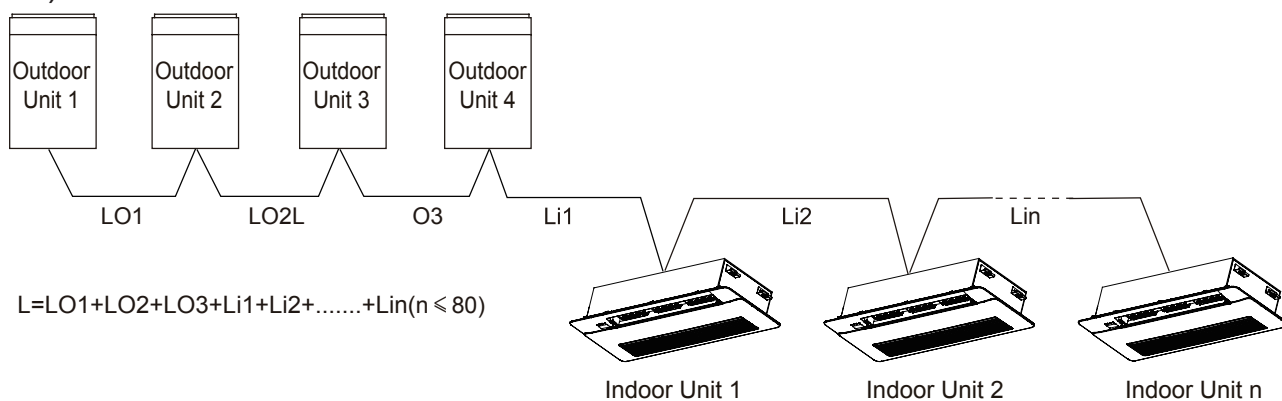


Fig 3.3.2

Wire type	Total length of communication wire between indoor unit and indoor unit(outdoor unit) (m)	Wire diameter (mm <sup>2</sup> )	Wire standard	Remark
Light/normal PVC hose	$L \leq 1000$	$\geq 2 \times 0.75$	IEC 60227-5	The communication wire can be prolong if the wire diameter is $2 \times 1 \text{ mm}^2$ . But the total length of communication wire can't exceed 1500m

### 3.4 Wiring Requirement

Dimension of power cord and capacity of air switch.

Model	Power Cord Size	Air Switch Capacity (A)	Minimum Sectional Area of Ground Wire (mm <sup>2</sup> )	Minimum Sectional Area of Power Cord (mm <sup>2</sup> )
GMV-ND22TD/A-T GMV-ND28TD/A-T GMV-ND36TD/A-T GMV-ND45TD/A-T GMV-ND50TD/A-T	208-230V ~ 60Hz 220-240V ~ 50Hz	6	1.0	1.0

#### ⚠ Notes:

- ① An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- ② The circuit breaker and power cord specification in above sheet is based on max power(max current) of the unit.
- ③ The power cord specification in above sheet is based on ambient temperature of 40°C.
- ④ The circuit breaker specification in above sheet is based on ambient temperature of 40°C. If the working condition is different, please adjust it according to the specification sheet of circuit breaker.

## 4 Installation Instructions

### 4.1 Indoor unit installation

#### 4.1.1 Ceiling opening Dimension and suspension bolt position.

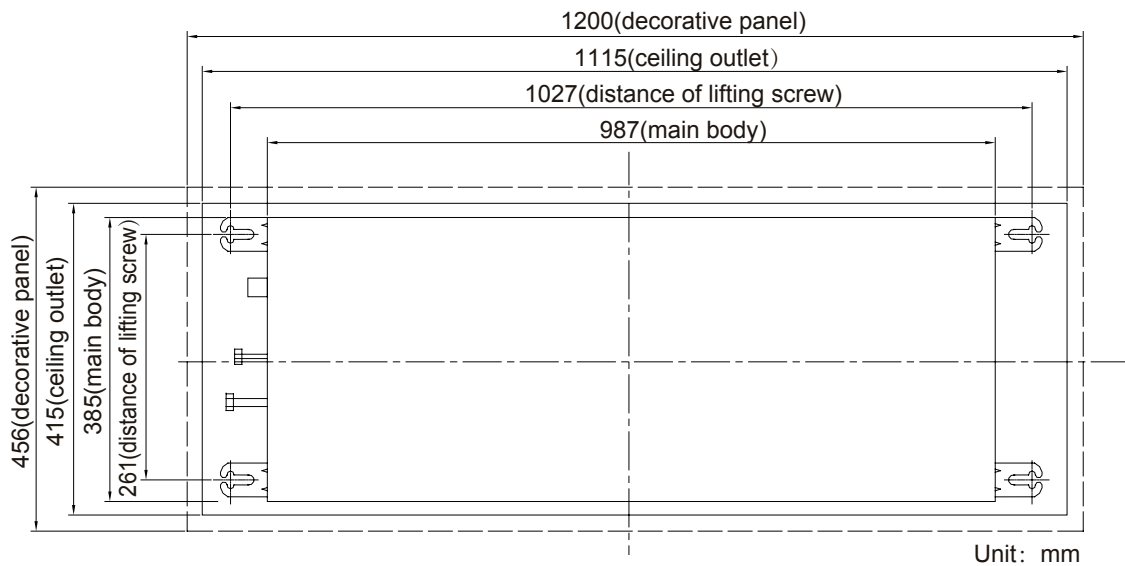


Fig 4.1.1

#### 4.1.2 Suspend the indoor unit

##### (1) Drill bolt holes and install bolts

- 1) Stick the reference cardboard on the installation position; drill 4 holes according to the hole site on the cardboard as shown in fig 4.1.2; diameter of drilling hole is according to the diameter of expansion bolt and the depth is 60-70mm, as shown in fig 4.1.3.

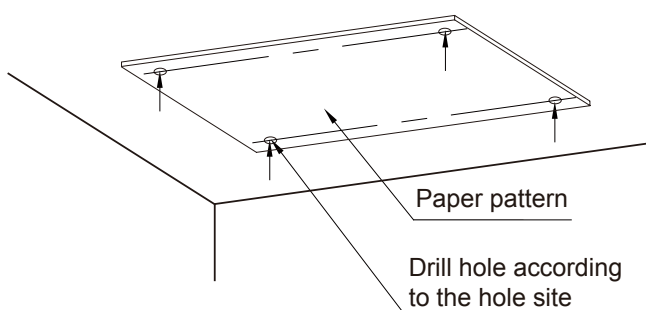


Fig 4.1.2

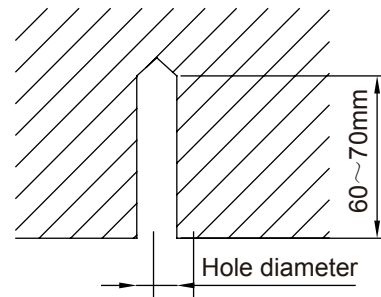


Fig 4.1.3

- 2) Insert the M10 expansion bolt into the hole and then knock the nail into the bolt, as shown in fig 4.1.4.

**Note:** The length of bolt depends on the installation height of the unit, bolts are field supplied.

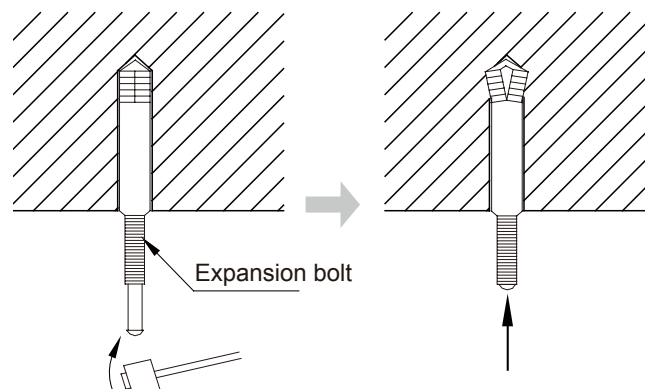


Fig 4.1.4

## (2) Install the indoor unit temporarily

Assemble suspension bolt on the expansion bolt, attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from upper and lower sides of the hanger bracket. The washer fixing plate will prevent the washer from falling.

## (3) The usage of paper pattern

Refer to paper pattern of installation for ceiling opening dimension. The center of ceiling opening is indicated on the paper pattern. Fix the paper pattern to the unit with 4 screws and fix the corners of the waterspout at the drainage pipe by screws.

## (4) Adjust the unit to the right position.

## (5) Check the level of the unit

The indoor unit is equipped with build-in water pump and float switch, verify the levelness of 4 directions by level gauge or vinyl tube (filled with water) respectively.

## (6) Remove the washer locating plate and then tighten the nut on it.

## (7) Remove the paper pattern.

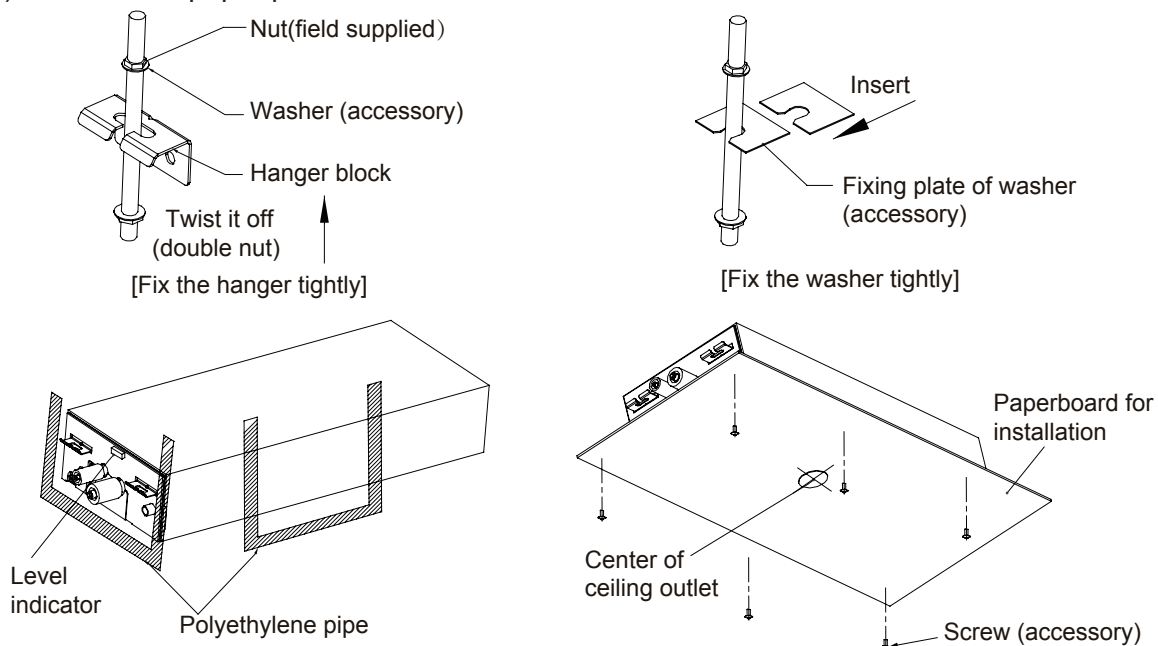
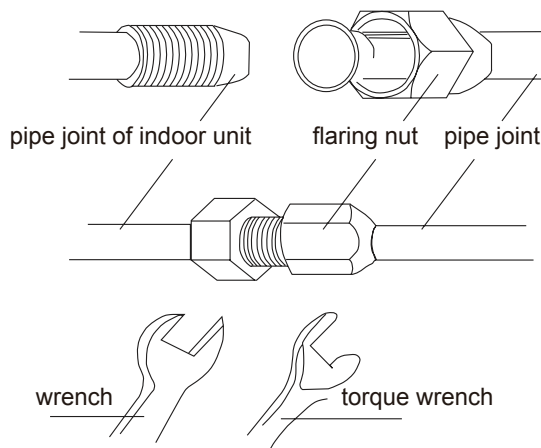


Fig 4.1.5

## 4.2 Refrigerant Pipe Connection

(1) Aim the flaring port of copper pipe at the center of screwed joint and then tighten the flaring nut with hand as shown in fig 4.2.

(2) Tighten the flaring nut with torque wrench.



Torque for tightening nut

Pipe diameter (mm)	Torque (N·m)
φ6.35	15~30
φ9.52	35~40
Φ12.7	45~50
φ15.9	60~65

Fig.4.2

- (3) Use pipe bend when bending the pipe and the bending angle should not be too small.
- (4) Wrap the connection pipe and joint with sponge and then tie them firmly with tape.

### 4.3 Drainage Pipe Installation and Drainage System Testing

#### 4.3.1 Notice for Installation of Drain Pipe

- (1) The drainage pipe should be short and the gradient downwards should be at least 1%~2% in order to drain condensation water smoothly.
- (2) The diameter of drainage hose should be bigger or equal to the diameter of drainage pipe joint.
- (3) Install drainage pipe according to the following fig and arrange insulation to the drainage pipe. Improper installation may lead to water leakage and damp the furniture and other things in the room.
- (4) You can buy normal hard PVC pipe used as the drainage pipe. During connection, insert the end of PVC pipe into the drainage hole and then tighten it with drainage hole and wire binder. Can't connect the drainage hole and drainage hole with glue.
- (5) When the drainage pipelines are used for several units, the position of pipeline should be about 100mm lower than the drainage port of each unit. In this case, thicker pipes should be applied.

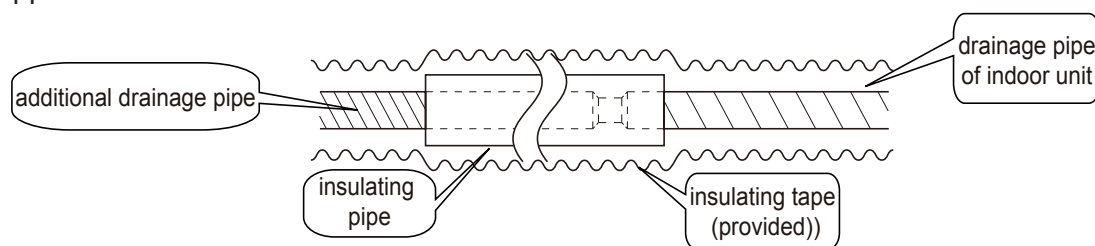


Fig 4.3.1

#### 4.3.2 Drainage pipe installation

- (1) Drainage pipe should have the same diameter or larger diameter than the connecting pipes (PVC pipe, outside diameter 25mm, thickness $\geq$ 1.5mm)
- (2) Keep drainage pipe short and sloping downwards at a gradient of at least 1% for preventing forming air bubbles.
- (3) If the gradient of drainage pipe could not meet the installation requirements, raising pipe should be applied.
- (4) Insert the drainage hose into drain socket, tighten the metal clamp securely.
- (5) Warp the sealing pad over drain hose and metal clamp for heat insulation.
- (6) Make sure to perform insulation work for all drainage piping in order to prevent any possible water drop due to dew condensation.
- (7) Apply the suitable diameter for converging drainage pipe according to the operating capacity of the unit.

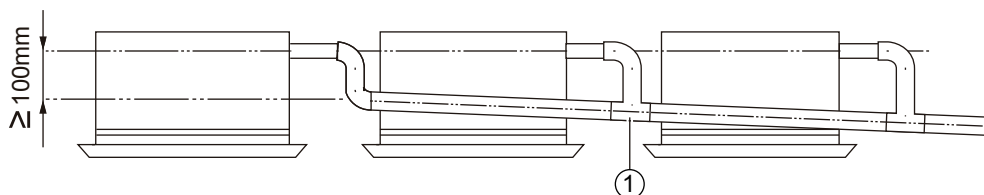


Fig 4.3.2

① –drainage pipes assembled by T-shaped joints

- (8) The installation height of raising pipe for drainage should be lower than 850mm. The gradient from raising pipe towards drainage direction should be at least 1%~2%. If the raising pipe is vertical with the unit, the raising height should be less than 800mm.

- (9) If the raising pipe is vertical with the unit, the distance between raising pipe and unit should be less than 300mm.

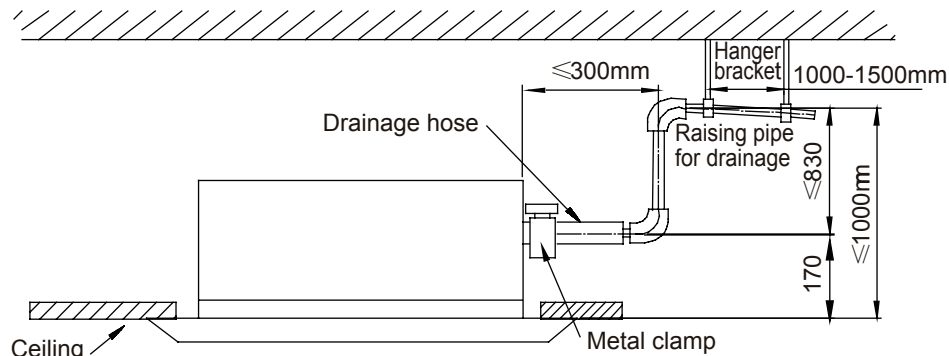


Fig 4.3.3

- (10) Drain pipes should have a downward slope of at least 1%~2%, in order to prevent pipes from sagging, install hanger bracket at intervals of 1000~1500mm.

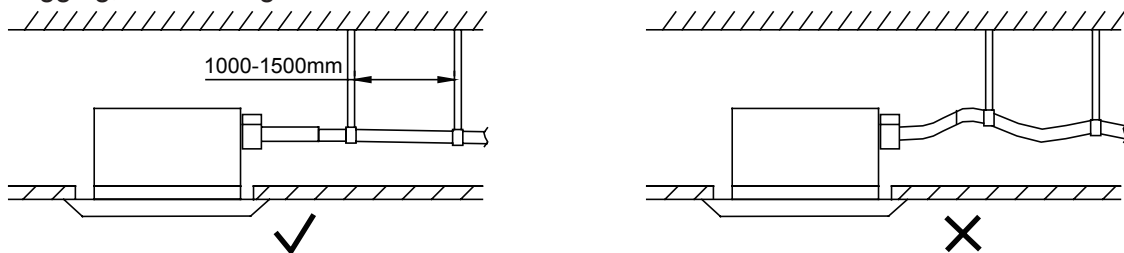


Fig 4.3.4

### 4.3.3 Test of Drainage System

- (1) Please test drainage system after electric work is finished.

Inject approximately 1L purified water to drain pan from air vent, ensure that not to splash the water over the electrical components (e.g. water pump. etc.).

- 1) In case of commissioning finished, please energize the IDUs and switch to cooling or dry mode, meanwhile, the water pump operates, you can check the draining through the transparent part of drain socket.
- 2) If communication wire is not connected, communication malfunction "C0" will occur after 60s of energizing. In this case, the water pump operates automatically. Check if the water pump drains normally through drainage port. The water pump will stop automatically after running for 10min.

- (2) During the test, please carefully check the drainage joint, make sure no any leakage occur.

- (3) It's strongly recommend to do the drain test before ceiling decoration.

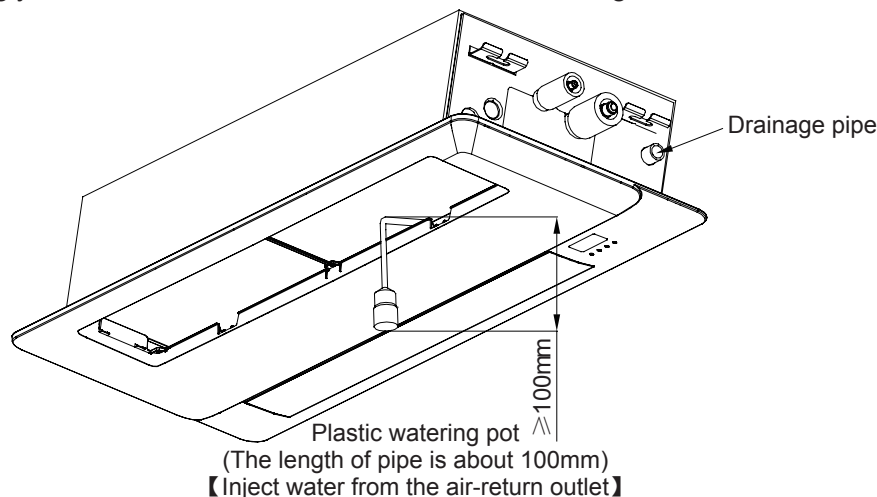


Fig 4.3.5

## 4.4 Panel installation

### 4.4.1 Notices for installation

- (1) Improper decorative panel installation could cause the following problems.

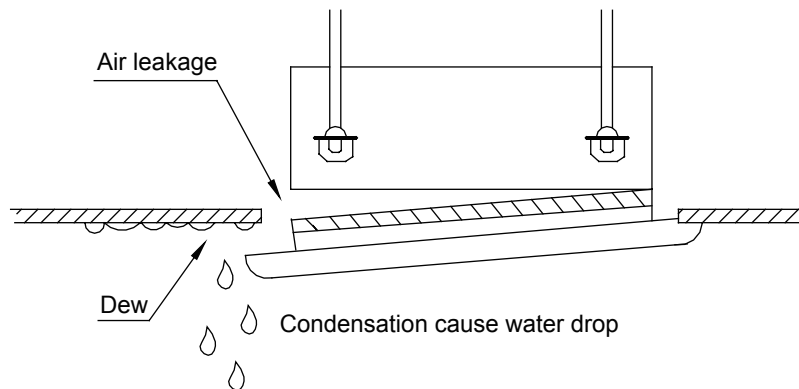


Fig 4.4.1

- (2) Ensure that its clearance-free between decoration panel and ceiling board after installation, if not, please adjust the body position.

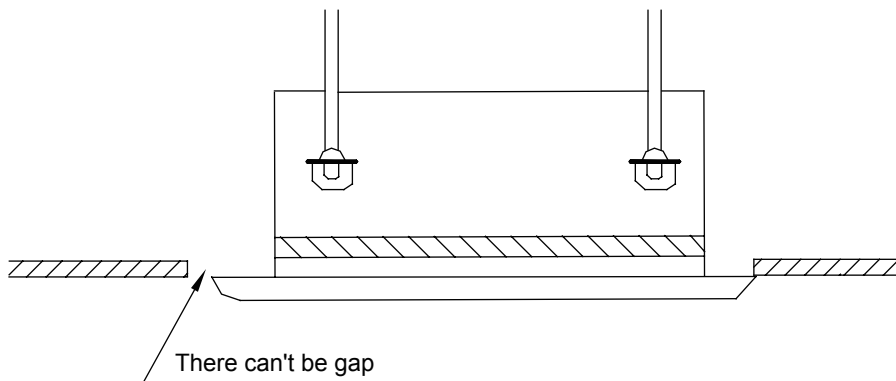


Fig 4.4.2

- (3) Connect the decoration panel terminals (Female) to body terminals (male) as shown in figure 4.4.3.

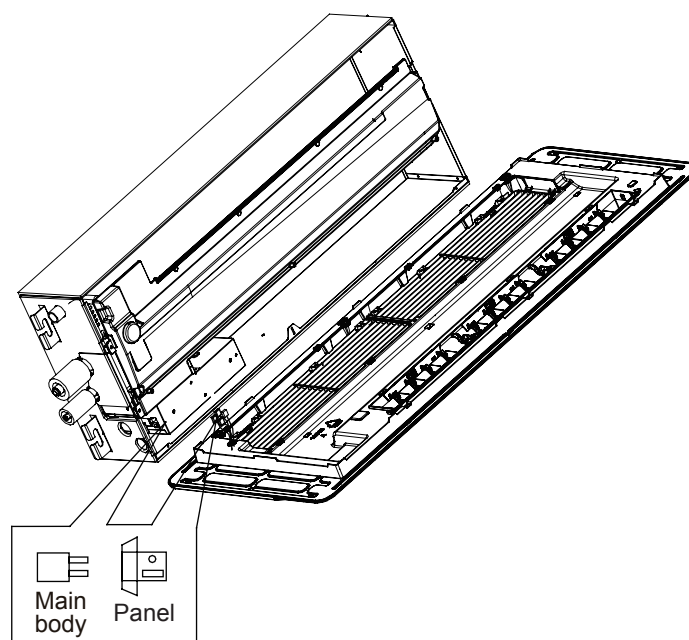
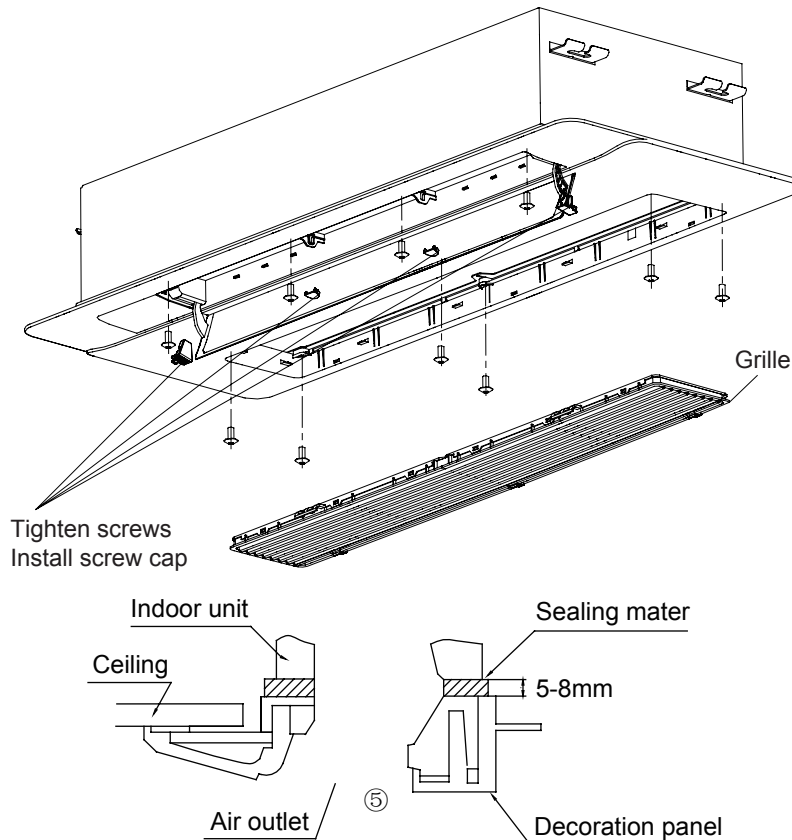


Fig 4.4.3

#### 4.4.2 Panel installation

- (1) Remove the grille from the panel, and then open the horizontal louver.
- (2) Aim the screw hole on panel at the corresponding screw hole on main unit.
- (3) Screw up the screws on corresponding holes and then install the corresponding screw cover.
- (4) Close the horizontal louver, connect the butt terminal and arrange the wires.
- (5) Install the grille.



#### 4.5 Wired controller installation

Wired controller is optional accessory. If wired controller is needed, please contact your local dealer and install the wired controller according to the instruction manual.

##### **Note:**

Do perform the commissioning operation before first use, automatic addressing or other settings, please refer to the manual of ODU.



## 5 Wiring Work

### **Warning!**

Before obtaining access to terminals, all supply circuits must be disconnected.

### **Notes:**

- ① Units must be earthed securely, or it may cause electric shock.
- ② Please carefully read the wiring diagram 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 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.
- 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 5.1.2)

- 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.

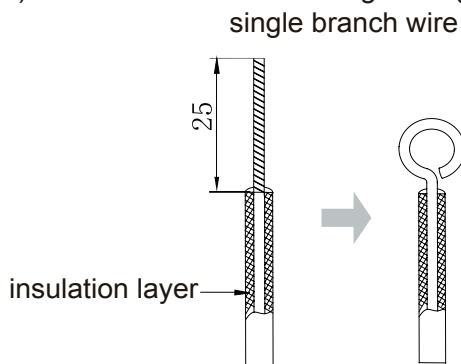


Fig 5.1.1

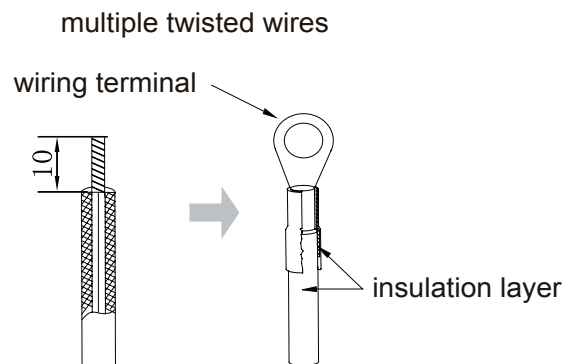


Fig 5.1.2

### 5.2 Power Cord Connection

#### **Note:**

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

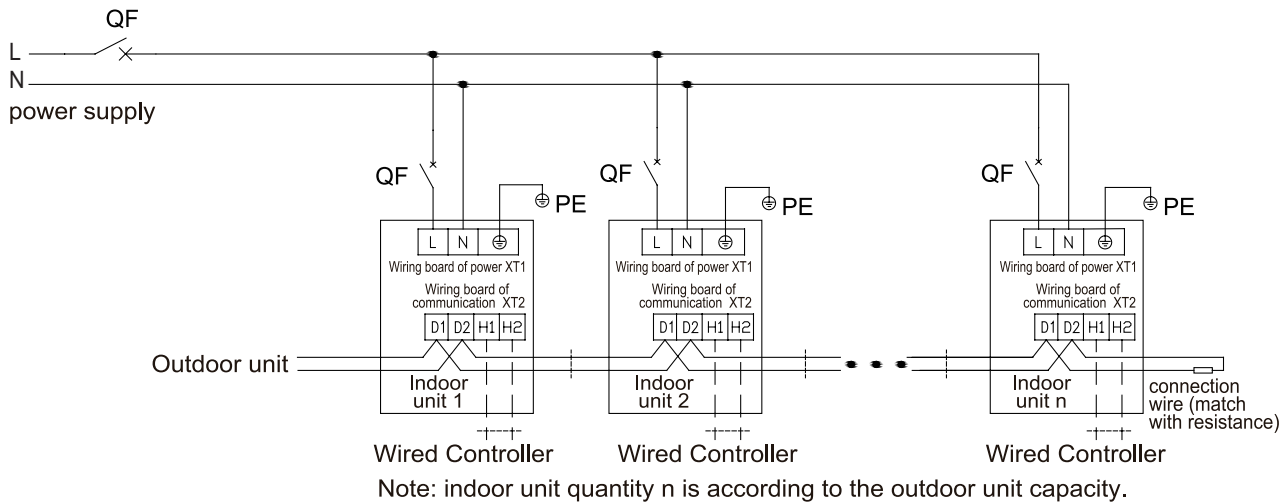


Fig 5.2

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, PE".
- 4) Fix the power card with wiring clamp.

### 5.3 Connection of Communication Wire between Indoor Unit and Outdoor Unit(or indoor unit)

- (1) Detach the electric box lid.
- (2) Let the Communication cable pass through the wiring through-holes.
- (3) Connect the communication wire to terminal D1 and D2 of indoor 4-bit wiring board, as shown in fig 5.3.1.

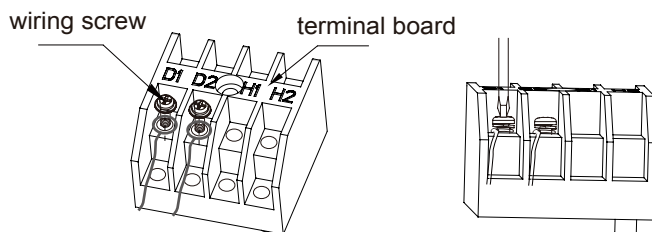


Fig 5.3.1

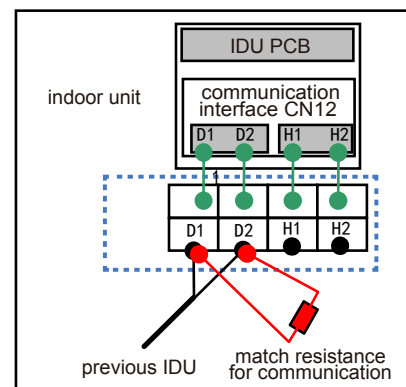


Fig 5.3.2

- (4) Fix the communication cable with clamp of electric box.
- (5) For more reliable communication, make sure connect the terminal resistor to the most downstream IDU of the communication bus (terminal D1 and D2), as shown in fig 5.3.2, terminal resistor is provided with each ODU.

### 5.4 Connection of Communication Wire for Wired Controller

- (1) Detach the electric box lid.
- (2) Let the communication wire pass through the wiring through-holes.
- (3) Connect the communication wire to terminal H1 and H2 of indoor 4-bit wiring board.
- (4) Fix the communication wire with clamp.
- (5) Wiring instructions of signal receiver and wired controller:
  - 1) Wired controller (standard) is shown as Fig.5.4.1, wireless controller (optional) is shown as

Fig.5.4.2,signal receiver is provided with panel as standard accessory.

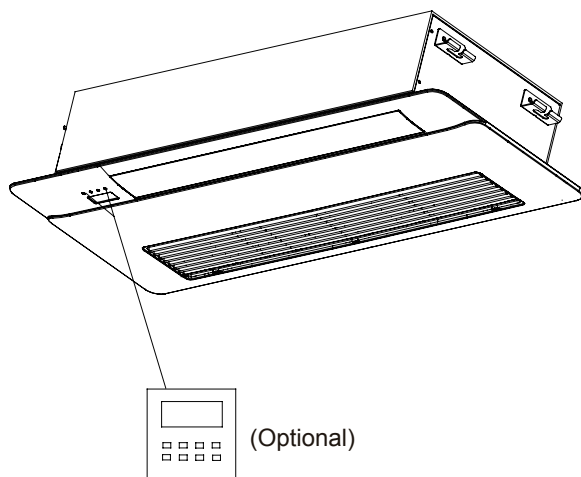


Fig 5.4.1

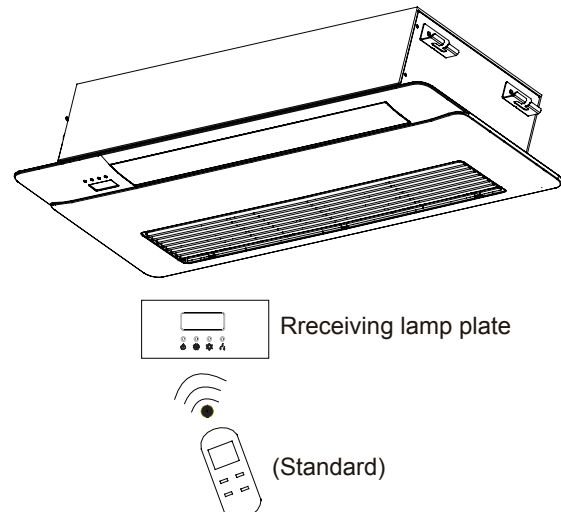


Fig 5.4.2

2) Both IDU and wired controller are equipped with signal receiver, and available for wireless control respectively.

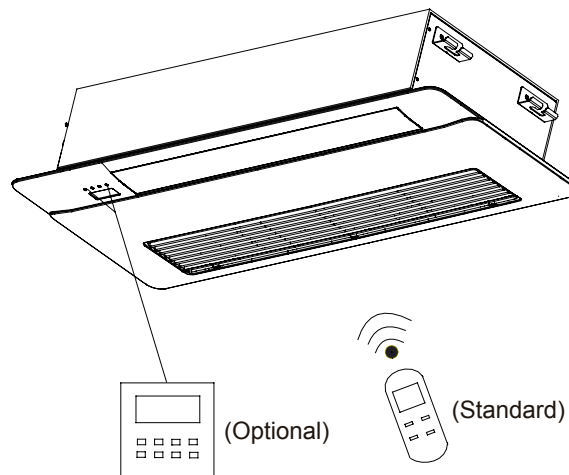


Fig 5.4.3

## 5.5 Instructions on Connecting 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 connect two wired controllers that must be set as master one and slave one.
- (4) One wired controller can control 16 indoor unitS in maximum at the same time. (as shown in fig 5.5)



### Notes:

- ① The type of indoor units must be the same if they are controlled by the same wired controller.
- ② When the indoor unit is controlled by two wired controllers, the addresses of the two wired controllers should be different through address setting. Address 1 is for main controller; Address 2 is for slave controller. Detailed setting please refer to the instruction manual of wired controller.

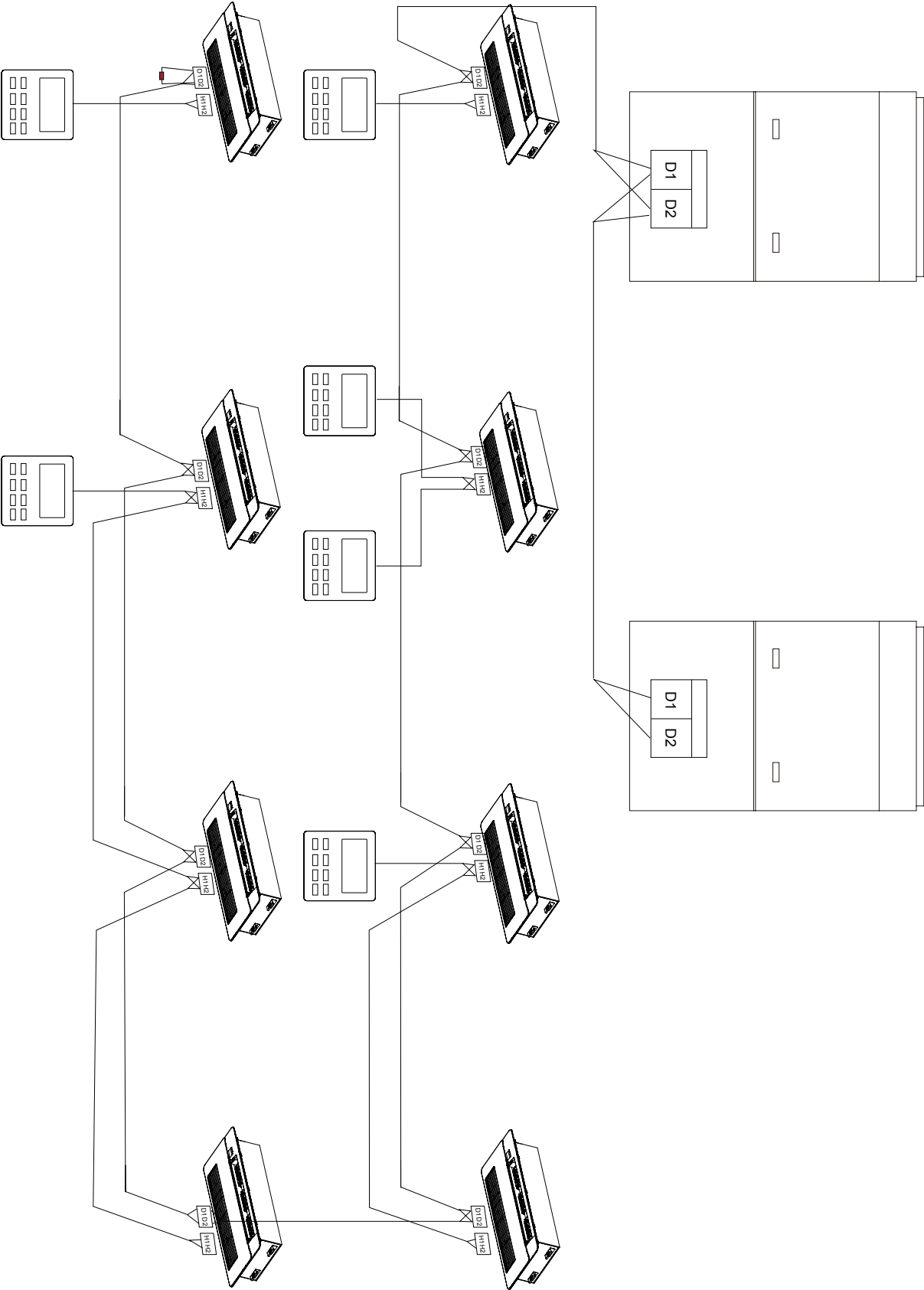


Fig 5.5

## 6 Routine Maintenance



### **Warning:**

- ① Do not turn off the unit and cut off the main power supply when cleaning the air conditioner to avoid electric shock or injury.
- ② Stand at solid table when cleaning the unit.
- ③ Do not clean the unit with hot water whose temperature is higher than 45°C to prevent fade or deformation.
- ④ Do not dry the filters by fire, or it may catch fire or become deformed.
- ⑤ Clean the filter with a wet cloth dipped in neutral detergent.
- ⑥ Please contact after-sales service staff if there is abnormal situation.

### 6.1 Cleaning of Filter

- (1) Remove the filters from inlet of IDU. Use a vacuum cleaner to remove dust. If the filters are dirty, wash them with warm water and mild detergent, and dry the filters in the shade.
- (2) If the unit used in the environment with much dust, please clean it regularly. (usually once every two weeks).

### 6.2 Maintenance before the Seasonal Use

- (1) Check if the air inlet and air outlet of indoor and outdoor unit are blocked.
- (2) Check if securely grounded.
- (3) Check if all the power cord and communication cable are securely connected.
- (4) Check if any error code displayed after energized.

### 6.3 Maintenance after the Seasonal Use

- (1) Set the unit in fan mode for half a day in a sunny day to dry the inner part of unit;
- (2) When the unit won't be used for a long time, please cut off power supply for energy saving; the characters on the wired controller screen will disappear after cutting off the power supply.

## 7 Table of Error Codes 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 Quantity Warning	dA	Indoor Unit Hardware Address Error
L3	Water Full Protection	LC	Outdoor-Indoor Incompatibility Error	dH	Wired Controller PC-Board Error
L4	Wired Controller Power Supply Error	d1	Indoor Unit PC-Board Error	dC	Capacity DIP Switch Setting Error.
L5	Anti-Frosting Protection	d3	Ambient Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L7	No Master Indoor Unit Error	d4	Inlet Pipe Temperature Sensor Error	dE	Indoor Unit CO <sub>2</sub> Sensor Error
L8	Power Insufficiency Protection	d6	Outlet Pipe Temperature Sensor Error	db	Special Code: Field Debugging Code

## 8 Troubleshooting

The air conditioner is not expected to be serviced by users. Incorrect repair may cause electric shock or fire, so please contact an authorized service center for professional service. The following checks prior to contact may save your time and money.

Phenomenon	Troubleshooting
The unit can't start	① Power supply is not connected. ② Circuit breaker tripping caused by leakage of electricity. ③ Input voltage is too low. ④ Defect of main PC-board.
The unit stops after running for a while.	① The inlet or outlet of ODU or IDU are blocked by obstacle.
Poor cooling effect	① The filter is dirty. ② Too heavy heat load of room(e.g. too many people) ③ Door or windows is open. ④ Inlet and outlet of IDU are blocked. ⑤ Setting temperature is too high. ⑥ Refrigerant is insufficient (e.g. refrigerant leakage)
Poor heating effect	① The filter is dirty. ② Door or window is open. ③ Setting temperature is too low. ④ Refrigerant is insufficient (e.g. refrigerant leakage)
Indoor fan doesn't start up during heating	① At starting, the IDU fan could not operate till the heat exchange become hot, for preventing delivering the cool air. ② At defrosting, the IDU fan stopped due to system switch to cooling mode. for preventing delivering the cool air, and resume operating after defrosting.



### Note:

If air conditioner still fails to work normally after checking and handling as described above, please stop using it immediately and contact local service center for assistance.

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