



# Multi Variable Air Conditioners Floor and Ceiling Type Indoor Unit

## **Owner's Manual**

### **Air Conditioners**

#### Models:

GMV-ND28ZD/A-T	GMV-ND36ZD/A-T
GMV-ND50ZD/A-T	GMV-ND63ZD/A-T
GMV-ND71ZD/A-T	GMV-ND90ZD/A-T
GMV-ND112ZD/A-T	GMV-ND125ZD/A-T
GMV-ND140ZD/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.
- GREE Electric Appliances, Inc. of Zhuhai reserves the final right to interpret this manual.

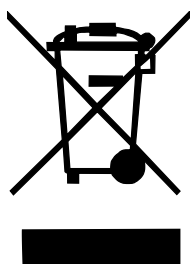
## Preface

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 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.





- **DISPOSAL:** This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

# 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 .....	5
3.3 Requirements of Communication Wire Selection .....	6
3.4 Wiring Requirements .....	7
4 Installation Instructions .....	8
4.1 Installation of Indoor Unit .....	8
4.2 Refrigerant Pipe Connection .....	10
4.3 Drainage Pipe Installation and Drainage System Testing .....	11
4.4 Installation of Wired Controller .....	14
5 Wiring Work .....	15
5.1 Connection of Wire and Patch Board Terminal .....	15
5.2 Power Cord Connection .....	16
5.3 Connection of Communication Wire between Indoor Unit and Outdoor Unit(or indoor unit) ....	16
5.4 Connection of Communication Wire for Wired Controller .....	17
5.5 Wiring Instructions of Wired Controller and Indoor Units Network .....	17
6 Routine Maintenance .....	19
6.1 Cleaning of Filter .....	19
6.2 Maintenance before the Seasonal Use .....	19
6.3 Maintenance after the Seasonal Use .....	19
7 Table of Error Codes for Indoor Unit .....	20
8 Troubleshooting .....	20

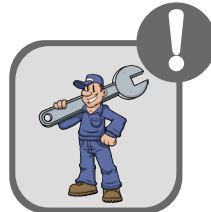
## 1 Safety Precautions

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

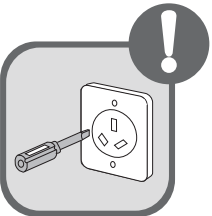
 means items that must be followed! Otherwise, it may lead to personal injury or property loss.



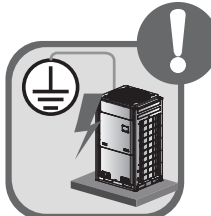
Follow this instruction to complete the installation work. Please carefully read this manual before unit startup and service.



Installation should be conducted by dealer or qualified personnel. Please do not attempt to install the unit by yourself. Improper handling may result in water leakage, 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 telephone line.



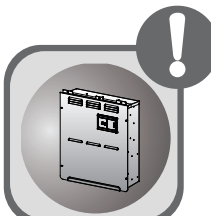
Be sure to use the exclusive accessory and part to prevent the water leakage, electric shock and fire accidents.



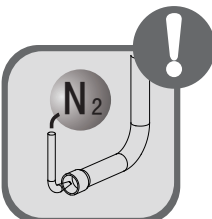
If refrigerant leakage happens during installation, please ventilate immediately. Poisonous gas will emerge if the refrigerant gas meets fire.



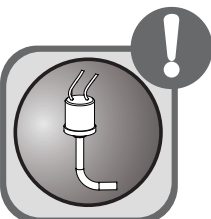
Wire size of power cord should be large enough. The damaged power cord and connection wire should be replaced by exclusive cable.



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



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



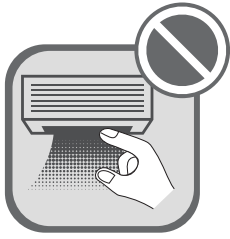
Never short-circuit or cancel the pressure switch to prevent unit damage.



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.



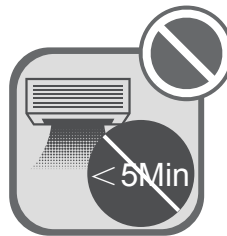
Do not insert fingers or objects into air outlet/inlet grille.



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.



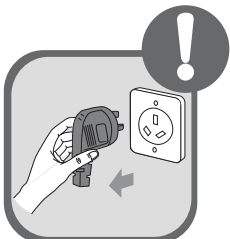
Turn off the unit after it runs at least five minutes; otherwise it will influence oil return of the compressor.



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.



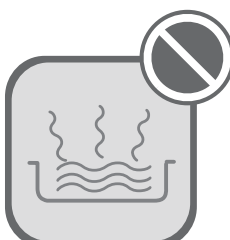
Never spray or flush water towards unit, otherwise malfunction or electric shock may happen.



Do not expose the unit to the moist or corrosive circumstances.



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.



Under cooling mode, please don't set the room temperature too low and keep the temperature difference between indoor and outdoor unit within 5°C.



If anything abnormal happens (such as burning smell), please power off the unit and cut off the main power supply, and then immediately contact Gree appointed service center. If abnormality keeps going, the unit might be damaged and lead to electric shock or fire.

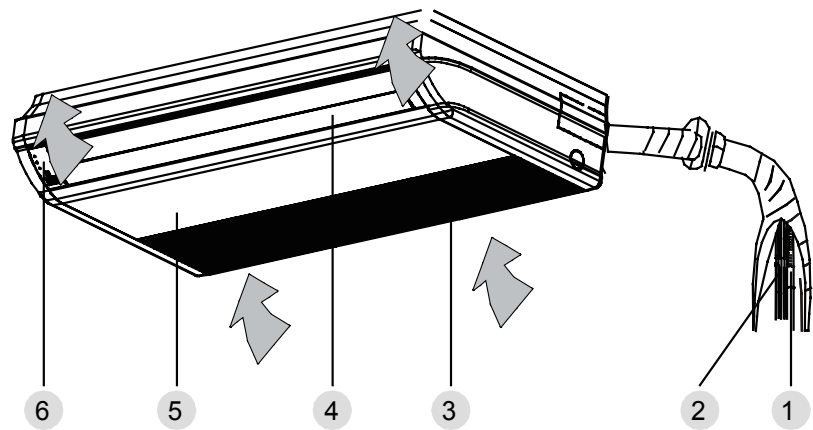


User is not allowed to repair the unit. Fault service may cause electric shock or fire accidents. Please contact Gree appointed service center for help.

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 Names of Key Components



No.	①	②	③	④	⑤	⑥
Name	Drainage Pipe	Connection Pipe	Air Inlet Grille (With Filter)	Louver	Main Unit	Display board

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

## 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:

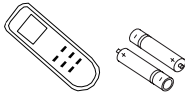
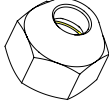

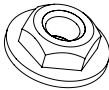

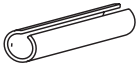
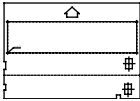

- ① ✓: included, X: not included.
- ② Please refer to the user manual of Wired Controller or Remote Controller for function details.

### 3 Preparations for Installation

**⚠ Note:** Product graphics are only for reference. Please refer to actual products. Unspecified measure unit is mm.

#### 3.1 Standard Fittings

Use the following provided accessories according to the requirement.

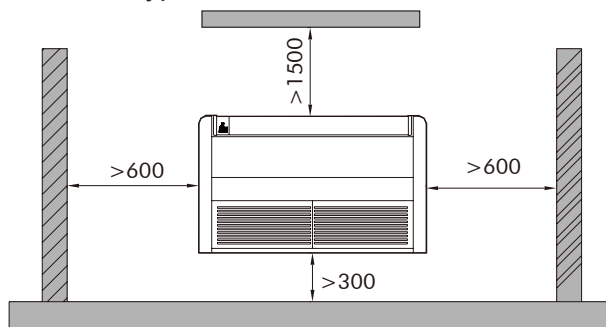
No.	Name	Appearance	Q'ty	Usage
1	Remote controller		1+2	To control the indoor unit
2	Special nut		1	To connect gas pipe
3	Special nut		1	To connect liquid pipe
4	M10X8 nut with washer		8	To be used together with the suspension bolt for installing the unit.
5	Insulation		1	To insulate the gas pipe
6	Insulation		1	To insulate the liquid pipe
7	Installation Paperboard		1	Locate the drill hole on ceiling Or Wall
8	Fastener		4	To fasten the sponge

#### 3.2 Installation Position Selection

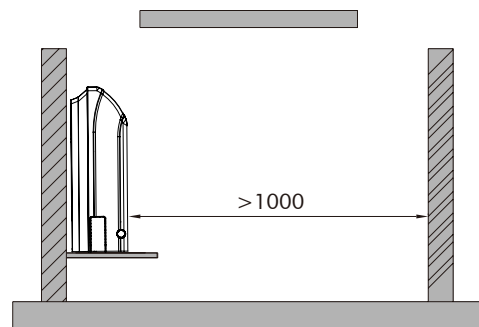
- (1) The location should be able to withstand the weight of unit.
- (2) The water can be drained conveniently from drainage pipe.
- (3) There should be no obstruction near air inlet and air outlet.

Unit: mm

##### ◆ Floor type



##### ◆ Ceiling type





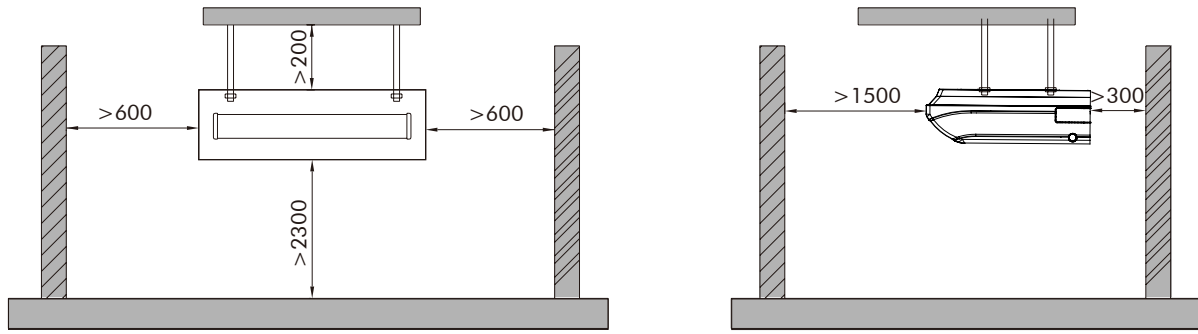


Fig. 3.2

- (4) Follow the installation distance required in the fig below to ensure sufficient space for maintenance.
- (5) The installation location should be far from heat sources, flammable or explosive gas, or smog spread in the air.
- (6) 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 ensured, there may be noise if the electric wave is too strong.)

#### ⚠ 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 Select communication line for indoor unit and wired controller

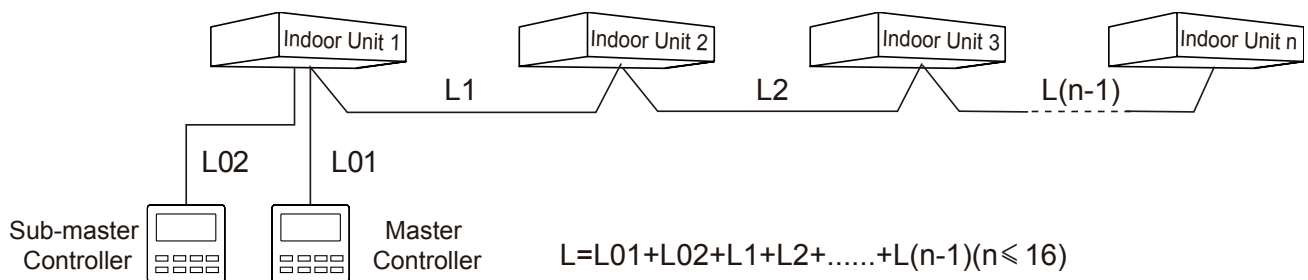


Fig 3.3.1

Wire Type	Total Length of Communication Line L(m)	Wire Gauge (mm <sup>2</sup> )	Wire Standard	Remark
Light/Common PVC Jacket Soft Wire	$L \leq 250$	2×0.75~2×1.25	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 (Outdoor Unit )

## Multi Variable Air Conditioners Floor and Ceiling Type Indoor Unit

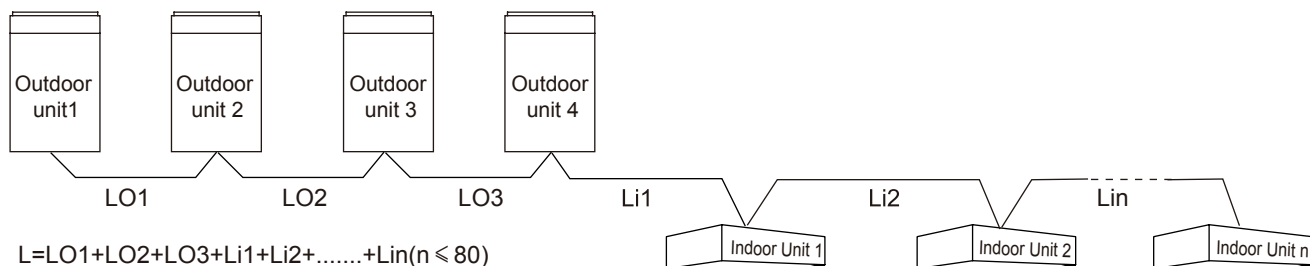


Fig 3.3.2

Wire Type	Total Length of communication Line L(m)	Wire Gauge (mm <sup>2</sup> )	Wire Standard	Remark
Light/Common PVC Jacket Soft Wire	$L \leq 1000$	$\geq 2 \times 0.75$	IEC 60227-5	If wire gauge is $2 \times 1 \text{ mm}^2$ , then it's OK to increase the length of communication line. But total length should not exceed 1500m.

### 3.4 Wiring Requirements

Dimension of power cord and capacity of air switch

Models:	Power specification	Air Switch Capacity (A)	Minimum Sectional Area of Grounding Wire(mm <sup>2</sup> )	Minimum Sectional Area of Power Cord (mm <sup>2</sup> )
GMV-ND28ZD/A-T	220~240V-1ph-50Hz 208~230V-1ph-60Hz	6	1	1
GMV-ND36ZD/A-T		6	1	1
GMV-ND50ZD/A-T		6	1	1
GMV-ND63ZD/A-T		6	1	1
GMV-ND71ZD/A-T		6	1	1
GMV-ND90ZD/A-T		6	1	1
GMV-ND112ZD/A-T		6	1	1
GMV-ND125ZD/A-T		6	1	1
GMV-ND140ZD/A-T		6	1	1

#### ⚠ Notes:

- ① The circuit breaker and power cord specification in above sheet are based on max power (max current) of the unit.
  - ② The power cord specification in above sheet is based on ambient temperature of 40°C.
  - ③ 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 Installation of Indoor Unit

#### 4.1.1 Outline Dimension and Installation Spots

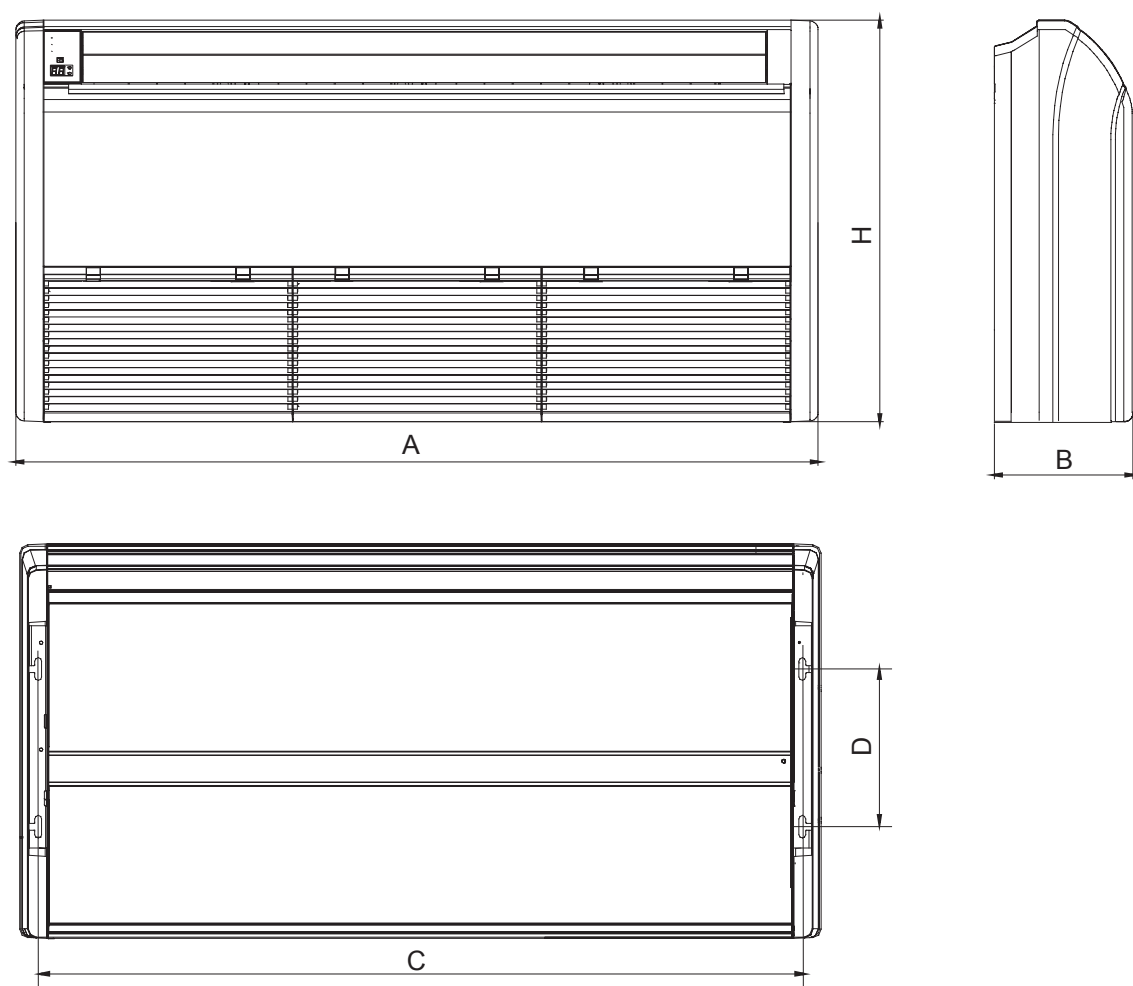



Fig 4.1.1

Below are dimensions of A, B, C, etc. for different models:

Unit: mm

Models:	A	B	C	D	H	Drainage Pipe(Outer Diameter × wall thickness)	Outer Diameter of Connection Pipe	
							Liquid pipe	Gas pipe
GMV-ND28ZD/A-T	1220	225	1158	280	700	φ17×1.75	6.35	9.52
GMV-ND36ZD/A-T	1220	225	1158	280	700		6.35	12.7
GMV-ND50ZD/A-T	1220	225	1158	280	700		6.35	12.7
GMV-ND63ZD/A-T	1420	245	1354	280	700		9.52	15.9
GMV-ND71ZD/A-T	1420	245	1354	280	700		9.52	15.9
GMV-ND90ZD/A-T	1420	245	1354	280	700		9.52	15.9
GMV-ND112ZD/A-T	1700	245	1634	280	700		9.52	15.9
GMV-ND125ZD/A-T	1700	245	1634	280	700		9.52	15.9
GMV-ND140ZD/A-T	1700	245	1634	280	700		9.52	15.9

 Important: The drilling work and installation of unit must be carried out by qualified personnel.

### 4.1.2 Suspend Indoor Unit

- (1) Determine the location of the hanger through the paper pattern for installation, and then remove the paper pattern, as shown in the left fig of Fig 4.1.2.1.

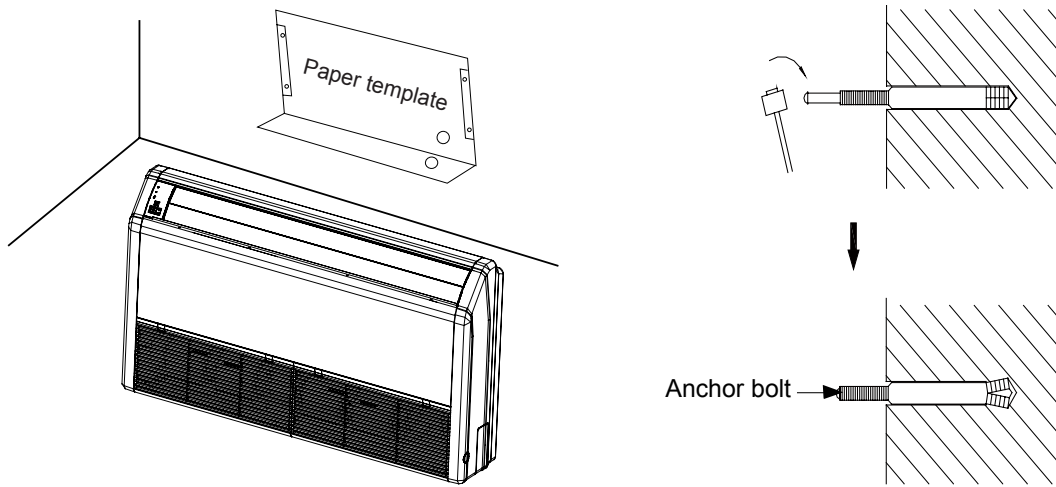


Fig 4.1.2.1

- (2) Insert the expansion bolts into the drilled holes, and drive the iron nail into the bolt with a hammer, as shown in the right fig of Fig 4.1.2.1.
- (3) Remove the right and left side panels, as shown in Fig 4.1.2.2.
- (4) Put the hanger bolt into the clasp of the indoor unit and then tighten the bolt on the hanger to prevent the indoor unit from moving, as shown in Fig 4.1.2.2.

◆ Floor type

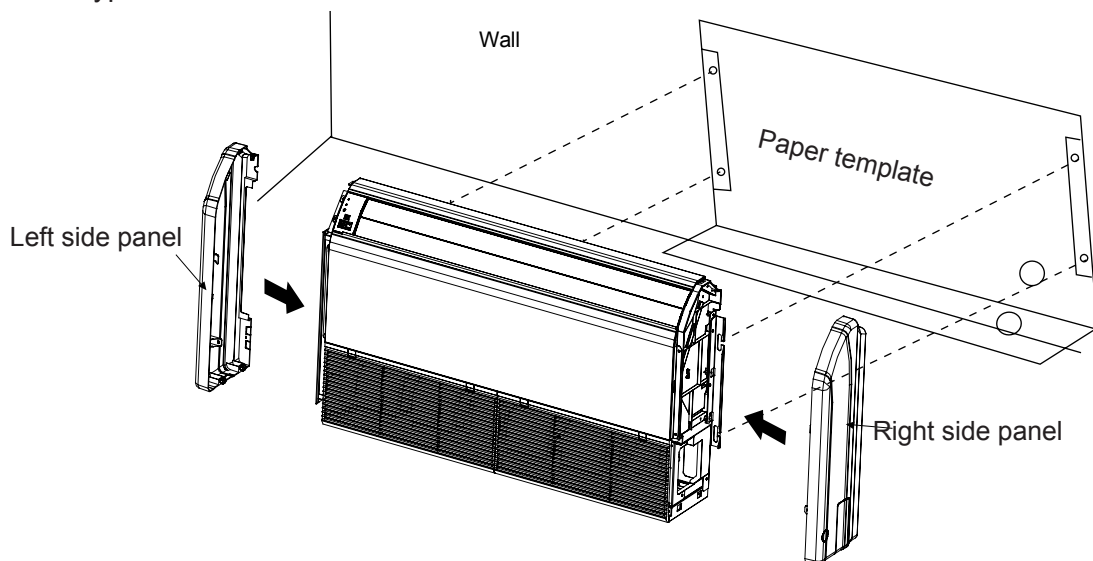


Fig 4.1.2.2

- (5) Reinstall and tighten the right and left side panels, as shown in Fig 4.1.2.3.
- (6) Adjust the height of the unit to make the drainage pipe slant slightly downward so that the water will drain out smoothly, as shown in Fig 4.1.2.3

◆ Ceiling type

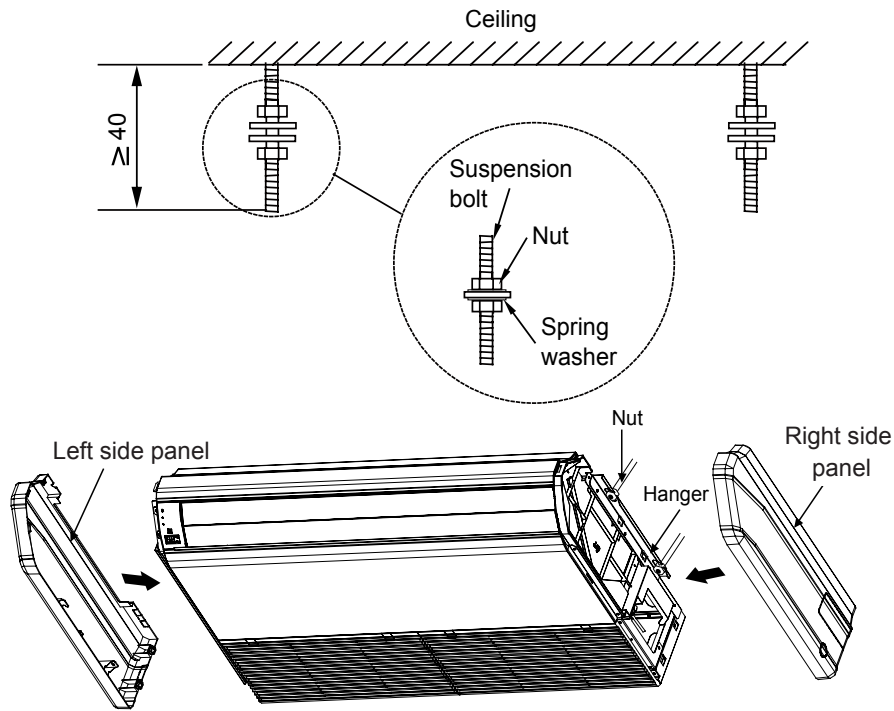


Fig 4.1.2.3

#### 4.1.3 Leveling

The water level test must be done after installing the indoor unit to make sure that the unit is horizontal, as shown below.

**⚠ Note:** Adjust the height of the unit to make the drainage pipe slant slightly downward so that the water will drain out smoothly.

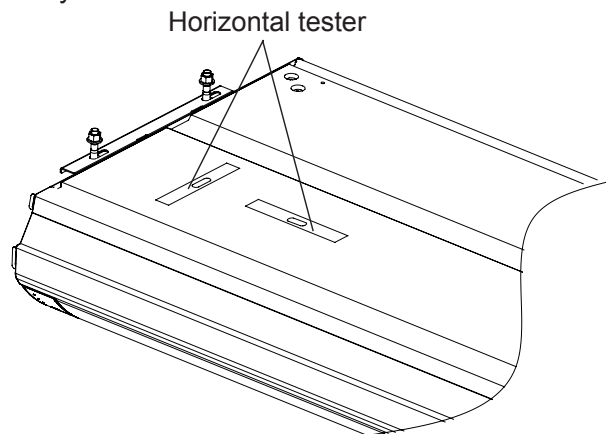


Fig 4.1.3

#### 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) Use a torque wrench to tighten up the flaring nut until the wrench gives out a click sound.

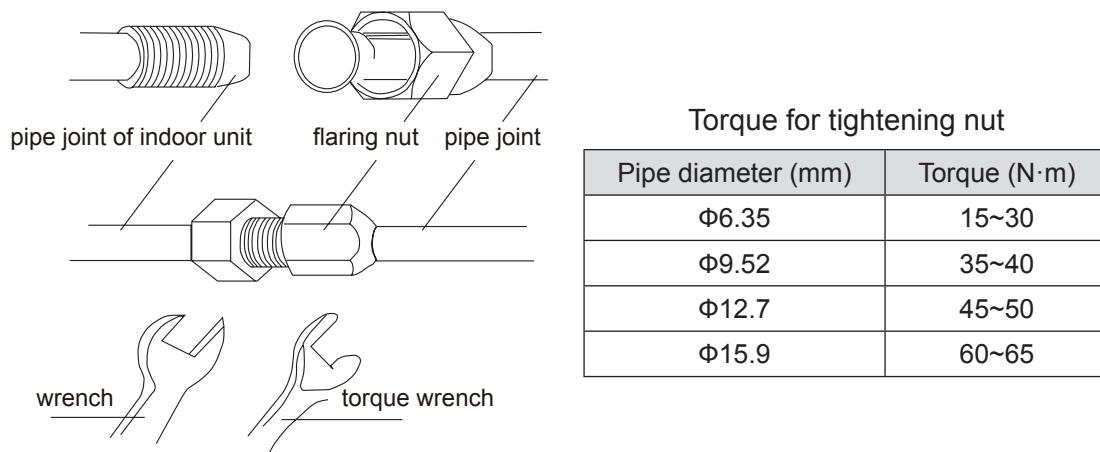


Fig.4.2

- (3) The pipe should not be bent too much or it may crack. Use a pipe bender when bending the pipe.
- (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 Drainage 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 hose and wire binder. Never connect the drainage hole and drainage hose 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.

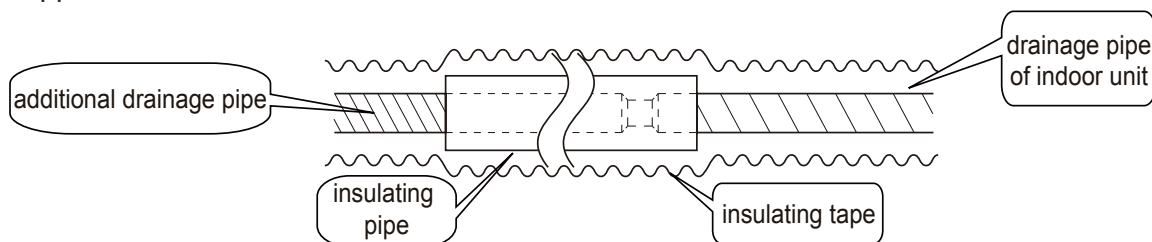


Fig 4.3.1.1

- (6) Connect the drainage pipe properly, as shown in Fig 4.3.1.2.

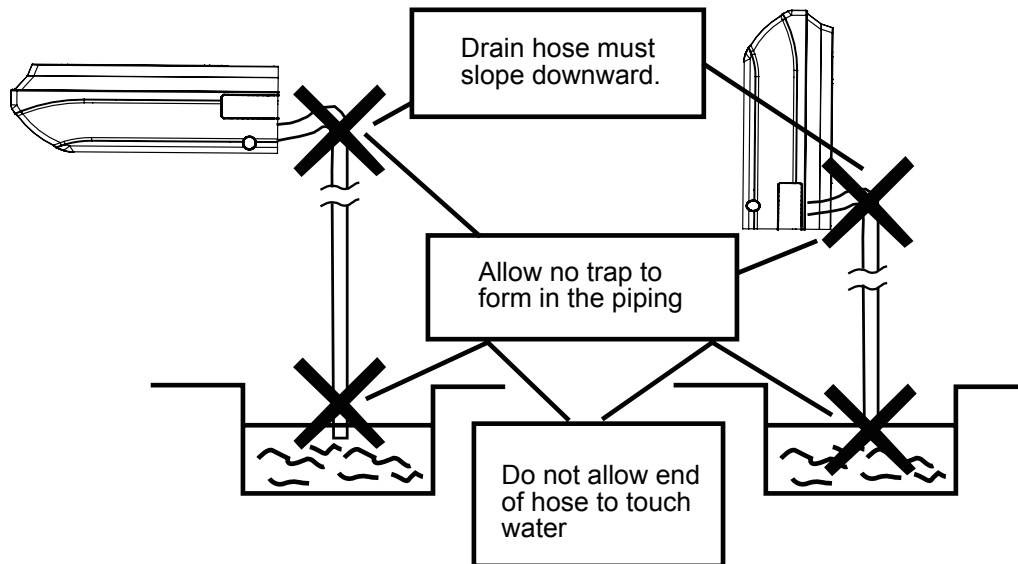


Fig 4.3.1.2

#### 4.3.2 Installation of Drainage pipe

- (1) Drainage pipe should have the same diameter or larger diameter than the connection pipes (PVC pipe, outside diameter 17mm, thickness $\geq$ 1.75mm).
- (2) Keep drainage pipe short and sloping downwards at a gradient of at least 1% for preventing forming air bubbles.
- (3) Insert the drainage hose into drain socket and then tighten the metal clamp securely.
- (4) Warp the sealing pad over drainage hose and metal clamp for heat insulation.
- (5) Make sure to perform insulation work for all drainage hoses in the room in order to prevent any possible water dropping due to dew condensation.
- (6) Apply the suitable diameter for converging drainage pipe according to the operating capacity of the unit, as show in Fig 4.3.2.1.

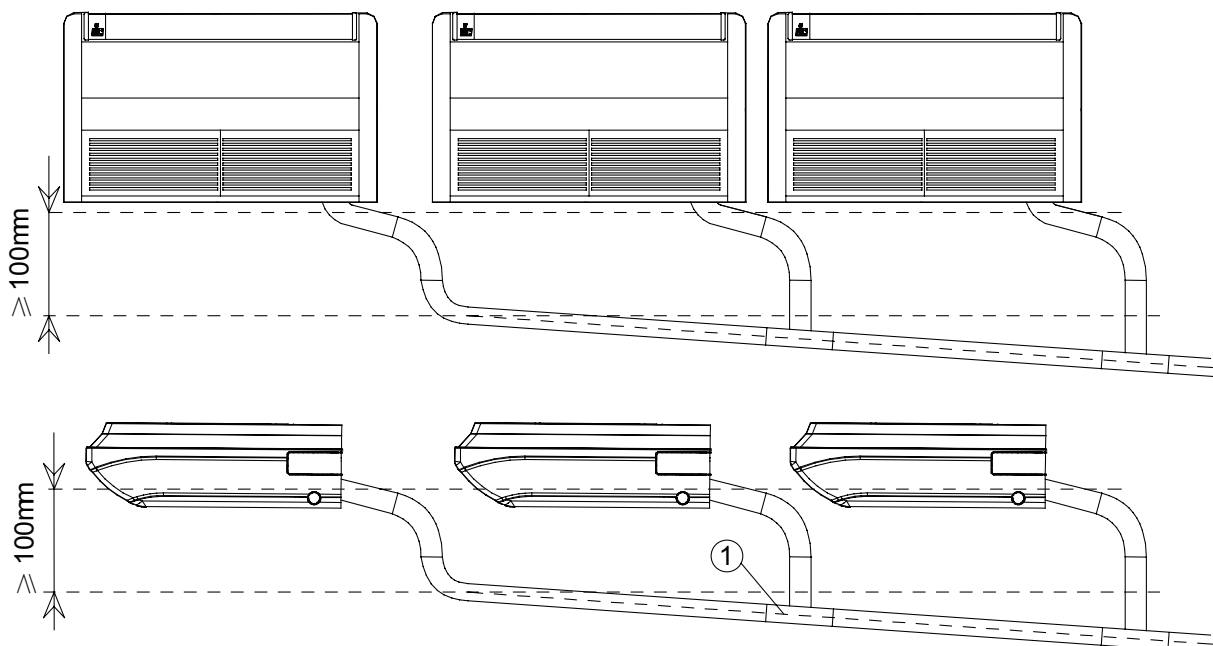


Fig 4.3.2.1

① - Drainage pipes assembled by T-shaped joints

(7) The horizontal pipe can't be connected to vertical pipe in the same level; please select the connection way as shown in following fig.

NO1: Three-way connection of drainage pipe joints (Fig 4.3.2.2)

NO2: Connection of downspout elbow (Fig 4.3.2.3)

NO3: Inserting horizontal pipe connection (Fig 4.3.2.4)

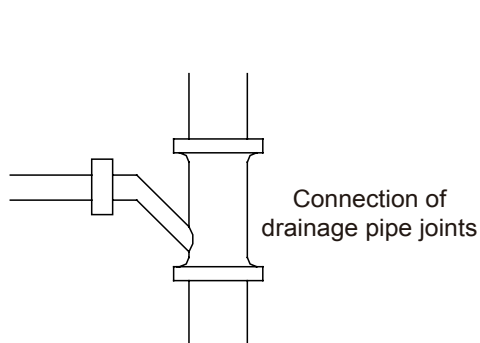


Fig 4.3.2.2

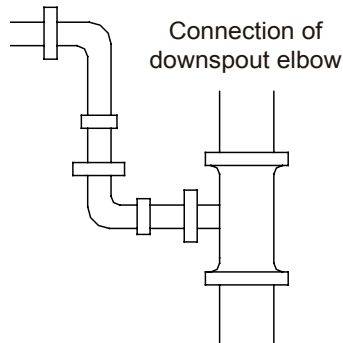


Fig 4.3.2.3

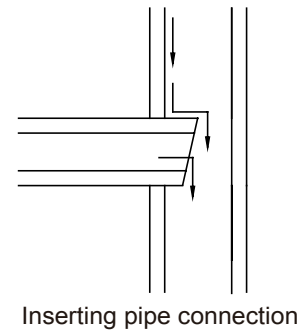


Fig 4.3.2.4

(8) Drainage 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.

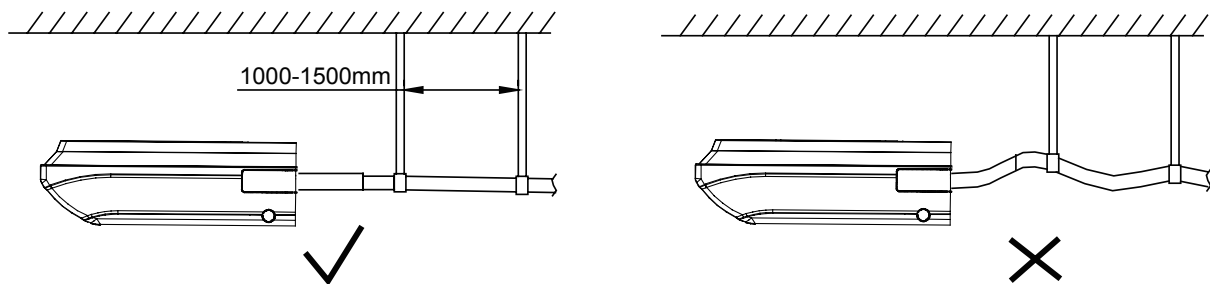


Fig 4.3.2.5

(9) Prepare the local piping at the connection point for the drainage pipe, as shown in Fig 4.3.2.6.

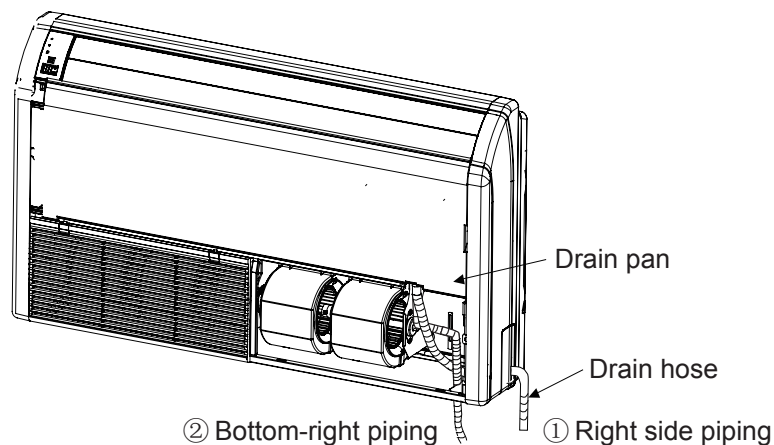


Fig 4.3.2.6

### 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; pay attention not to splash the water over the electrical components (e.g. water pump. etc.):

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

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



Ceiling type



Floor type

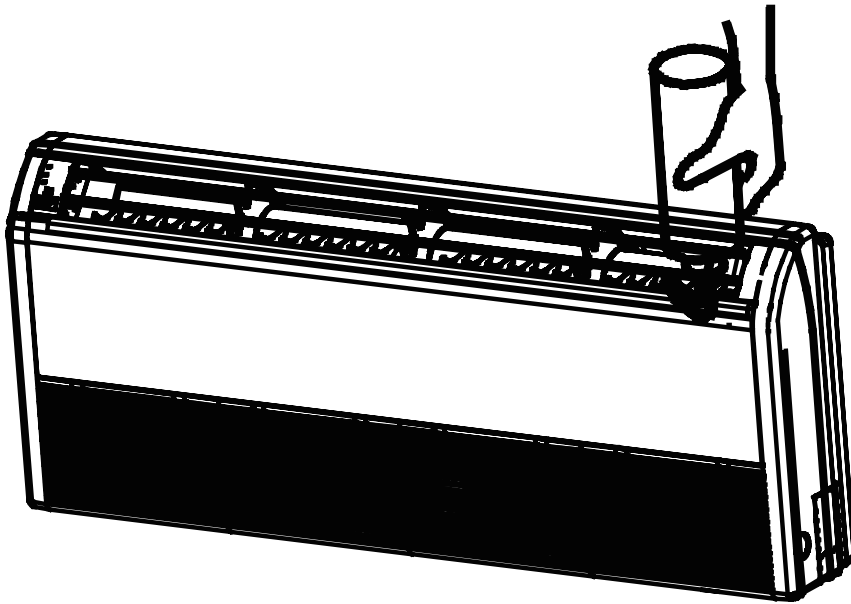


Fig 4.3.3

#### 4.4 Installation of Wired Controller

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

### ⚠ Notes:

- ① Units must be grounded securely, or it may cause electric shock.
- ② Please carefully read the nameplate and the wiring diagram before carry out the wiring work, incorrect wiring could cause malfunction or even damage the unit.
- ③ The capacity of power supply must be sufficient and the sectional area of wires in the room should be above  $2.5\text{mm}^2$ .
- ④ The unit should be powered by independent circuit and specific socket.
- ⑤ The wiring should be in accordance with related regulations in order to ensure the units operate reliably.
- ⑥ Install circuit breaker for branch circuit according to related regulations and electrical standards.
- ⑦ All wiring must use pressure terminal or single wire. Multi-twisted wire that connects directly to the wiring board may cause fire hazard.
- ⑧ Keep cable away from refrigerant piping, compressor and fan motor.
- ⑨ Do not alter the inner wires of air conditioner. Manufacturer does not assume responsibility for damage or abnormal operation due to this reason.
- ⑩ If the unit is installed in places with strong electromagnetic interference, it's recommended to use twin-twisted shield wire. During wire connection, please pay attention that the metal shield layer of the twin-twisted wire must be grounded(outer case) in order to prevent the unit from electromagnetic interference.
- ⑪ The communication wires should be separated from power cord and connection wire between indoor unit and outdoor unit.
- ⑫ If the project needs higher static pressure, you can set it through the wired controller.
- ⑬ The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.

### 5.1 Connection of Wire and Patch Board Terminal

#### (1) Connection of single branch wire (as shown in Fig 5.1.1)

- 1) Use a stripper to strip away about 25mm of the insulation layer at the end of single branch line so that the single-core wire can be exposed.
- 2) Remove the wiring screws on the patch board.
- 3) Shape the tail of wire into ring by needle nose plier, and keep the gauge of ring in accordance with screw.
- 4) Lead the screw across the circle of the single branch line and fix it on the wiring board.

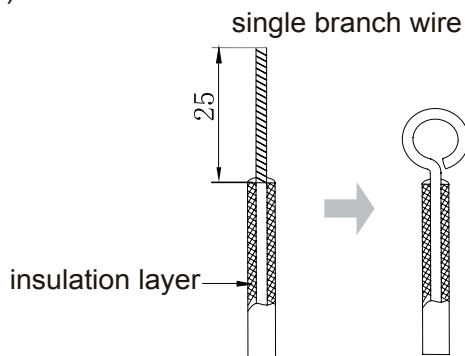


Fig 5.1.1

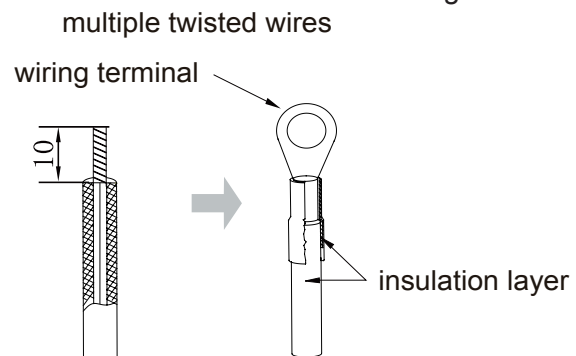


Fig 5.1.2

#### (2) Connection of multi-twisted wire (as shown in Fig 5.1.2)

- 1) Use a wired stripper to strip away about 10mm of the insulation layer at the end of multi-

twisted wire.

- 2) Loosen the wiring screws on patch board.
- 3) Use a round terminal fastener or a plier to securely fasten the round terminal with each core wire of the multi-core wire.
- 4) Confirm the position of each core wire on the round terminal and then use a screwdriver to tighten the terminal screw.

## 5.2 Power Cord Connection

### ⚠ Note:

- ① All indoor units must be unified of power supply so that they can be powered ON/OFF at the same time.
- ② 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.

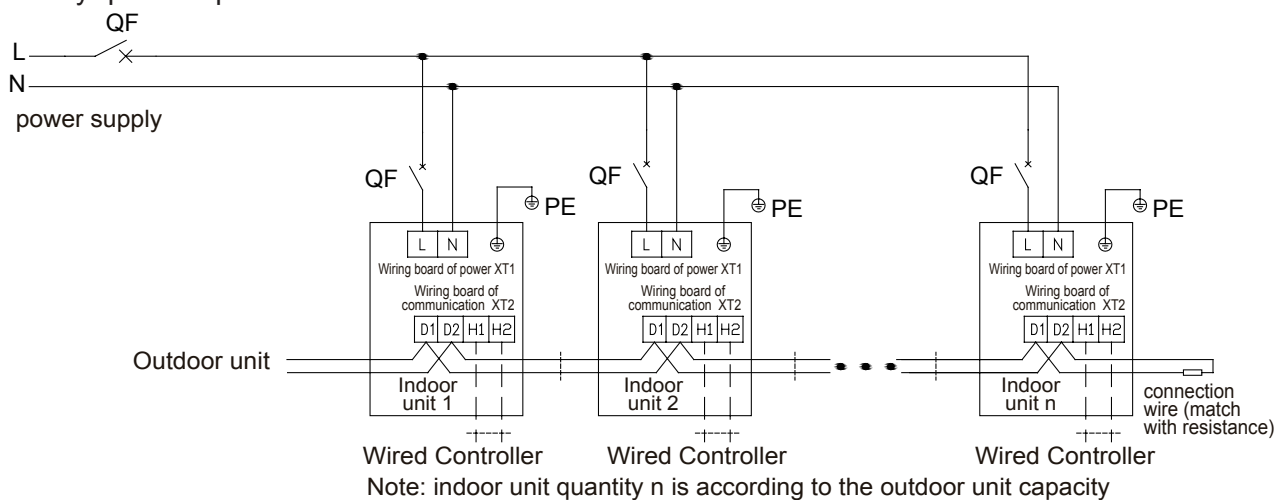


Fig 5.2

- For units with single-phase power supply.
- (1) Detach the electric box cover.
  - (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 cover.
- (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.

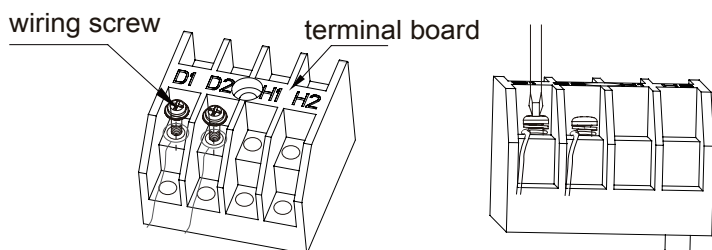


Fig 5.3.1

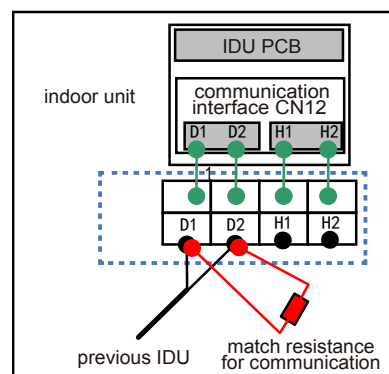


Fig 5.3.2

- (4) Fix the communication cable with clamp of electric box.
- (5) 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 Wire for Wired Controller

- (1) Detach the electric box cover.
- (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.

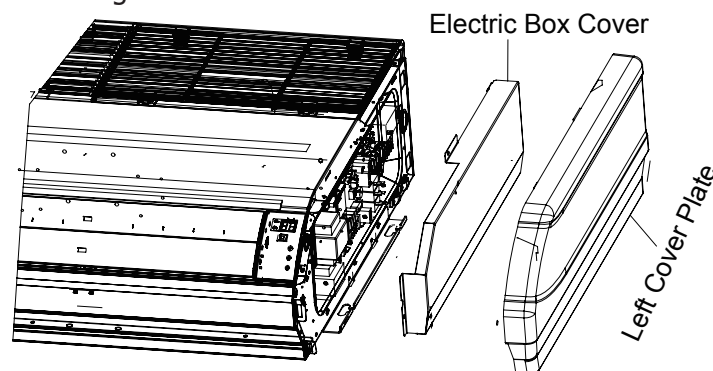


Fig 5.4.1

- (6) Both IDU and wired controller are equipped with signal receiver, and available for remote control respectively. (Fig 5.4.2)

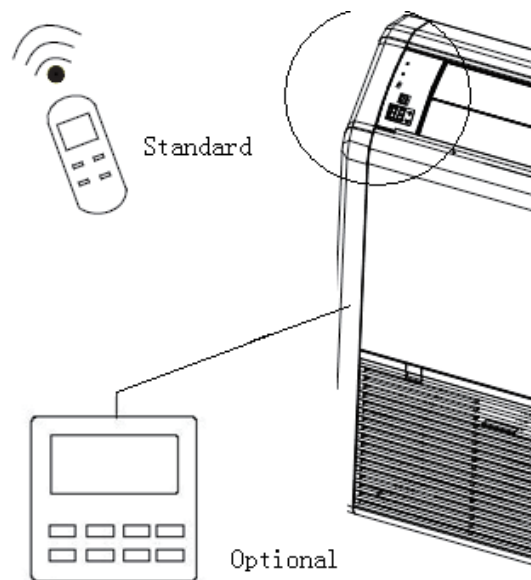


Fig 5.4.2

### 5.5 Wiring Instructions 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 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)

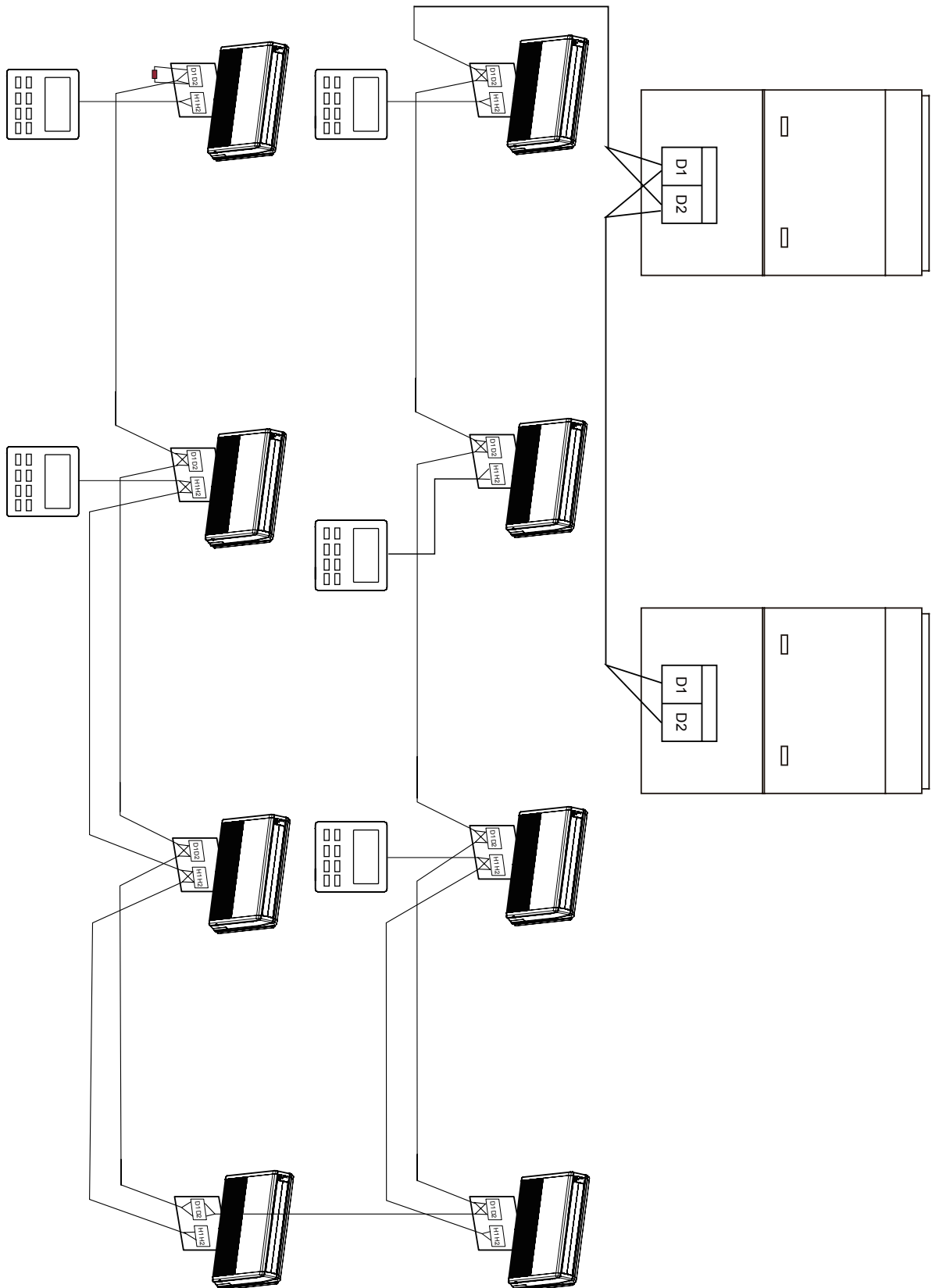


Fig 5.5

⚠ 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 wired controller; Address 2 is for slave wired controller. Detailed setting please refer to the owner's manual of wired controller.

## 6 Routine Maintenance

### **Warning:**

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 Do turn off the unit and cut off the main power supply when cleaning the air conditioner to avoid electric shock or injury.

③ Stand at solid table when cleaning the unit.

④ Do not clean the unit using hot water of over 45°C to prevent the unit from losing color or deforming.

⑤ Do not dry the filters by fire, or it may catch fire or become deformed.

⑥ Clean the filter with a wet cloth dipped in neutral detergent.

⑦ Please contact after-sales service staff if there is abnormal situation.

### 6.1 Cleaning of Filter

(1) Remove the air filter on the air inlet for cleaning. Use a dust catcher or water to clean it. If the filter is very dirty(e.g. greasy), you can clean it using warm water(below 45°C) that is mixed with mild detergent. Then let it dry naturally in cool places;

(2) If the air conditioner is used in dusty place, please clean the air filter regularly (generally once every 2 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 the grounding wire is in good condition.

(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	LA	Indoor Units Incompatibility Error	d9	Jumper Cap Error
L1	Indoor Fan Protection	LH	Low Air Quality Warning	dA	Indoor Unit Network Address Error
L2	E-heater Protection	LC	ODU-IDU Incompatibility Error	dH	Wired Controller PCB Error
L3	Water Full Protection	d1	Indoor Unit PCB Error	dC	Capacity DIP Switch Setting Error
L4	Wired Controller Power Supply Error	d3	Ambient Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L5	Freeze protection	d4	Inlet Pipe Temperature Sensor Error	dE	Indoor Unit CO <sub>2</sub> Sensor Error
L7	No Master Indoor Unit Error	d6	Outlet Pipe Temperature Sensor Error	db	Special Code: Field Debugging Code
L8	Power Insufficiency Protection	d7	Humidity Sensor Error	C0	Communication Error
L9	Quantity Of Group Control Indoor Units Setting Error	d8	Water Temperature Sensor Error	AJ	Filter Cleaning Reminder

## 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 up	① Power supply is not connected ② Circuit breaker tripping caused by leakage of electricity ③ Input voltage is too low ④ Operation button is closed ⑤ Control loop is abnormal
The unit stops after running for a while	① There is obstacle in front of the condenser ② Control loop is abnormal ③ Set the unit in cooling mode when outdoor ambient temperature is higher than 43°C
Poor cooling effect	① The filter is dirty or blocked ② Too heavy heat load of room(e.g. too many people) ③ Door or window is open ④ Inlet and outlet of IDU are blocked ⑤ Setting temperature is too high or refrigerant leaks ⑥ The performance of room temperature sensor is getting worse
Poor heating effect	① The filter is dirty or blocked ② Door or window is open ③ Setting temperature is too low ④ Refrigerant leakage ⑤ Outdoor ambient temperature is lower than -5°C ⑥ Abnormality of control circuit

Indoor fan doesn't start up during heating	<ul style="list-style-type: none"><li>① Placing position of tube temperature sensor head is not suitable</li><li>② Tube temperature sensor head isn't inserted well</li><li>③ Wiring of tube temperature sensor head is broken</li><li>④ Capacitor is leaking electricity</li></ul>
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**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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