



Owner's Manual

Original Instructions

Commercial Air Conditioners

Multi Variable Air Conditioners Floor and Ceiling Type Indoor Unit

Models:

GMV-ND28ZD/A-T GMV-ND36ZD/A-T GMV-ND50ZD/A-T GMV-ND56ZD/A-T GMV-ND71ZD/A-T GMV-ND90ZD/A-T GMV-ND125ZD/A-T GMV-ND160ZD/A-T GMV-ND160ZD/A-T

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

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

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

To Users

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

- (1) This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- (2) In order to ensure reliability of product, the product may consume some power under stand-by status for maintaining normal communication of system and preheating refrigerant and lubricant. If the product is not to be used for long, cut off the power supply; please energize and preheat the unit in advance before reusing it.
- (3) Please properly select the model according to actual using environment, otherwise it may impact the using convenience.
- (4) This product has gone through strict inspection and operational test before leaving the factory. In order to avoid damage due to improper disassembly and inspection, which may impact the normal operation of unit, please do not disassemble the unit by yourself. You can contact with the special maintenance center of our company if necessary.
- (5) When the product is faulted and cannot be operated, please contact with our maintenance center as soon as possible by providing the following information.
 - 1) Contents of nameplate of product (model, cooling/heating capacity, product No., exfactory date).
 - 2) Malfunction status (specify the situations before and after the error occurs).
- (6) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation. We have the right to make necessary revision to the product from time to time due to the reason of sales or production, and reserve the right to revise the contents without further notice.
- (7) The final right to interpret for this instruction manual belongs to Gree Electric Appliances, Inc. of Zhuhai.

Exception Clauses

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

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

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1 Safety Notices (Please be sure to abide)



Warning: If not abide strictly, it may cause severe damage to the unit or the people.



Note: If not abide strictly, it may cause slight or medium damage to the unit or the people.



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



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



WARNING!

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

	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.
Specialized Fittings	Please use specialized accessories or parts to carry out installation, or water leakage, electric shock, fire hazard may resulted.	R410A refrigerant can produce poisonous gas once it meets fire, so please ventilate the room immediately if refrigerant leaks out during installation.
Specialized	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.
N ₂	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.	S SMin	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.	24H	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 or wet cloth with mild detergent to clean the outer case of air conditioner.	30°C **	During Cooling mode, indoor temperature should not be set too low. Keep the difference between indoor temp and outdoor temp within 5°C.
The state of the s	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.	7	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.

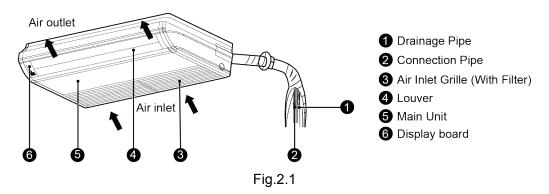


Correct Disposal of this Product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. 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.

2 Product Introduction

2.1 Names of Key Components



2.2 Rated Working Condition

To at a surdition	Indoor Side Condition Ou			de Condition
Test 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

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

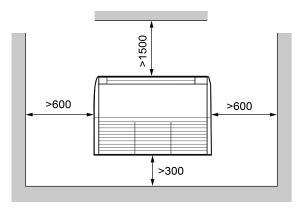
Use the following provided accessories according to the requirement.

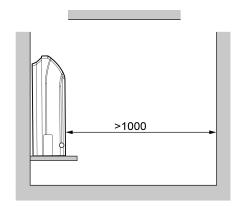
No.	Name	Appearance	Q'ty	Usage
1	Remote Controller		1+2	To control the indoor unit
2	Special Nut		2	GMV-ND28~50ZD/A-T
2	Special Nut		1	GMV-ND56~160ZD/A-T
3	Corrugated Pipe		1	GMV-ND56~160ZD/A-T
4	M10X8 Nut with Washer		8	To be used together with the suspension bolt for installing the unit.
5	Insulation		1	To insulate the gas pipe
6	Insulation		1	To insulate the liquid pipe
7	Paper Pattern for Installation		1	Locate the drill hole on ceiling or wall
8	Fastener	•	4	To fasten the sponge

3.2 Installation Position Selection

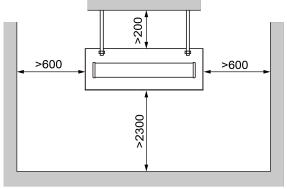
- (1) The location should be able to withstand the weight of unit.
- (2) The water can be drained conveniently from drainage pipe.
- (3) There should be no obstruction near air inlet and air outlet.
- (4) Follow the installation distance required in the Fig.3.2 below to ensure sufficient space for maintenance.
- (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.)
 Unit:mm

Floor type





Ceiling type



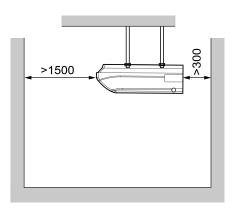


Fig.3.2



- 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

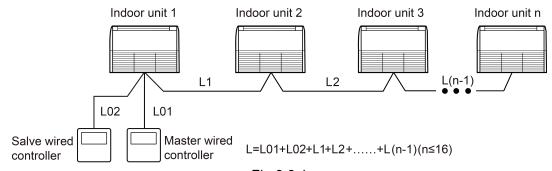


Fig.3.3.1

Material Type	Total Length of Communication Line between Indoor Unit and Wired Controller L (m)	Wire Size (mm²)	Material Standard	Remarks
Light/Ordinary polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤250m	2×0.75~2×1.2 5	IEC 60227-5	 Total length of communication line can't exceed 250m. 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.

3.3.2 Select Communication Line for Indoor Unit and Outdoor Unit

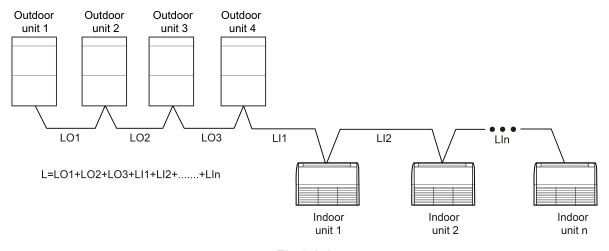


Fig.3.3.2

Material Type	Total Length L (m) of Communication Cable between Indoor Unit and Indoor (Outdoor) Unit	Wire Size (mm²)	Material Standard	Remarks
Light/Ordinary polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤1000m	≥2×0.75	IEC 60227-5	 If the wire diameter is enlarged to 2×1 mm², the total communication line length can reach 1500m. 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.

3.4 Wiring Requirement



- 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.

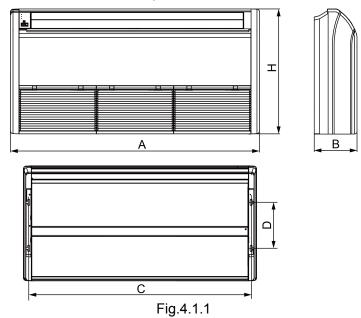
Dimension of power cord and capacity of air switch:

Models	Power Specification	Air Switch Capacity (A)	Minimum Sectional Area of Grounding Wire(mm²)	Minimum Sectional Area of Power Cord (mm²)
GMV-ND28ZD/A-T		6	1	1
GMV-ND36ZD/A-T		6	1	1
GMV-ND50ZD/A-T		6	1	1
GMV-ND56ZD/A-T	220-240V-1ph- 50Hz 208-230V-1ph-	6	1	1
GMV-ND63ZD/A-T		6	1	1
GMV-ND71ZD/A-T		6	1	1
GMV-ND90ZD/A-T	60Hz	6	1	1
GMV-ND112ZD/A-T		6	1	1
GMV-ND125ZD/A-T		6	1	1
GMV-ND140ZD/A-T		6	1	1
GMV-ND160ZD/A-T		6	1	1

4 Installation Instructions

4.1 Indoor Unit Installation

4.1.1 Indoor Unit Dimension and Suspension Bolt Position



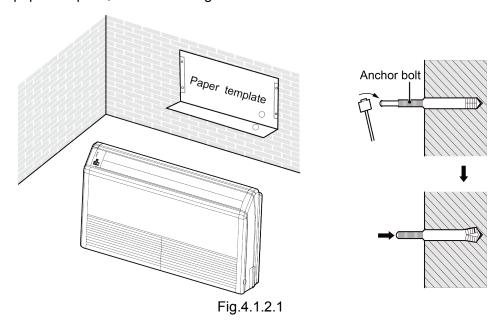
Below are dimensions of A, B, C, etc. for different models:

Modele	А	В	Drainage Outer dian C D H Diameter ×		C D H pipe(Outer			
iviodeis	Models I I I I I I I I I I I I		(mm)	(mm) Vall thickness) (mm)	Liquid pipe	Gas pipe		
GMV-ND28ZD/A-T							6.35	9.52
GMV-ND36ZD/A-T GMV-ND50ZD/A-T	1220	225	1158	280	700		6.35	12.7
GMV-ND56ZD/A-T							9.52	15.9
GMV-ND63ZD/A-T GMV-ND71ZD/A-T GMV-ND90ZD/A-T	1420	245	1354	280	700	Ф17×1.75	9.52	15.9
GMV-ND112ZD/A-T GMV-ND125ZD/A-T GMV-ND140ZD/A-T	1700	245	1634	280	700		9.52	15.9
GMV-ND160ZD/A-T							9.52	19.05

Important: The drilling work must be carried out by qualified personnel.

4.1.2 Suspend the Indoor Unit

(1) Determine the location of the hanger through the paper template, and then remove the paper template, as shown in Fig.4.1.2.1 left.



- (2) Insert the anchor bolts into the drilled holes, and drive the pins completely into the anchor bolts with a hammer, as shown in Fig.4.1.2.1 right.
- (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 tighten screws on the hanger to prevent the indoor unit from moving, as shown in 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 drain pipe slant slightly downward so that the drainage will become much smoother, as shown in Fig.4.1.2.3.

Floor type

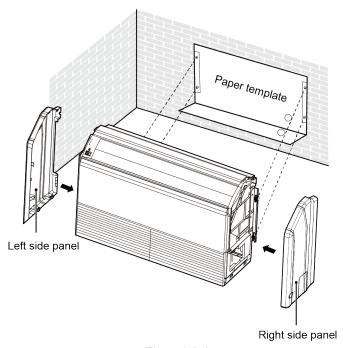
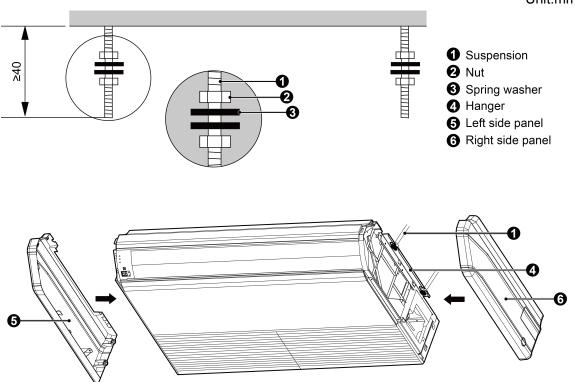


Fig.4.1.2.2

Ceiling type





4.1.3 Leveling

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

Fig.4.1.2.3

Note: Adjust the height of the unit to make the drain pipe slant slightly downward so that the drainage will become much smoother.

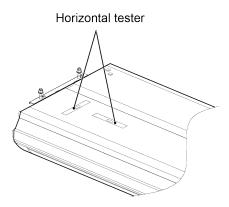


Fig.4.1.3

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) Tighten the flaring nut with torque wrench.

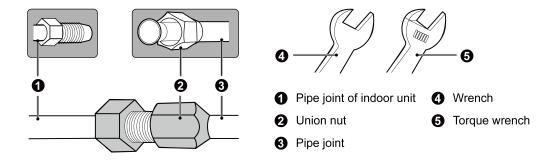


Fig.4.2

Torque for Tightening Nut				
Pipe Diameter (mm)	Torque (N·m)			
Ф6.35	15~30			
Ф9.52	35~40			
Ф12.7	45~50			
Ф15.9	60~65			
Ф19.05	70~75			

- (3) Use pipe bender 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 Drainage Pipe

- (1) It is not allowed to connect the condensate drain pipe into waste pipe or other pipelines which are likely to produce corrosive or peculiar smell to prevent the smell from entering indoors or corrupt the unit.
- (2) It is not allowed to connect the condensate drain pipe into rain pipe to prevent rain water from pouring in and cause property loss or personal injury.
- (3) Condensate drain pipe should be connected into special drain system for air conditioner.
- (4) The drainage pipe should be short and the gradient downwards should be at least 1%~2% in order to drain condensation water smoothly.
- (5) The diameter of drainage hose should be bigger or equal to the diameter of drainage pipe joint.
- (6) Install drainage pipe according to the following Fig.4.3.1.1 and arrange insulation tow the drainage pipe. Improper installation may lead to water leakage and damp the furniture and other things in the room.
- (7) 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.

(8) 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.

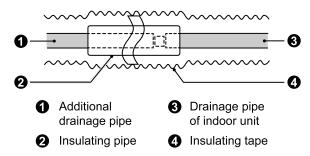


Fig.4.3.1.1

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

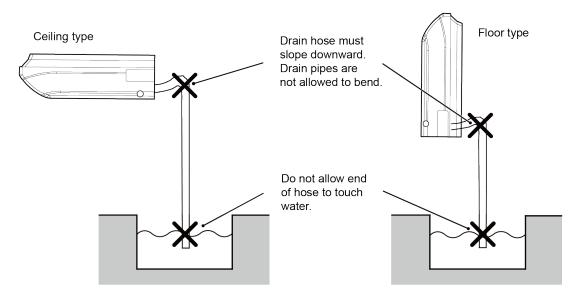


Fig.4.3.1.2

4.3.2 Drainage Pipe Installation

- (1) Drainage pipe should have the same diameter or larger diameter than the connection pipes (PVC pipe, outside diameter 17mm, thickness≥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, tighten the metal clamp securely.
- (4) Warp the sealing pad over drain hose and metal clamp for heat insulation.
- (5) Make sure to perform insulation work for all drainage piping in order to prevent any possible water drop due to dew condensation.
- (6) Apply the suitable diameter for converging drainage pipe according to the operating capacity of the unit, as shown in Fig.4.3.2.1.

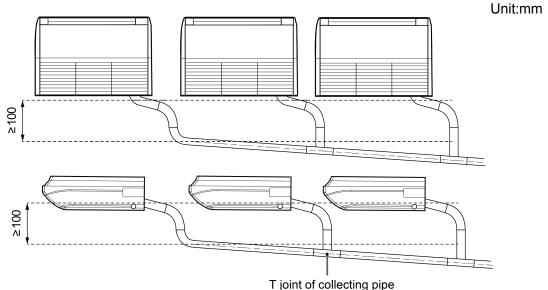
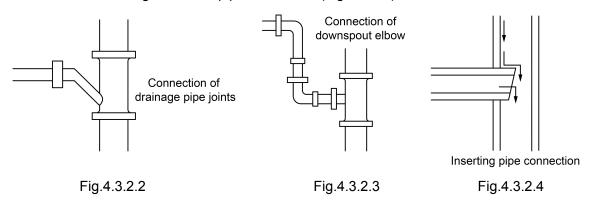
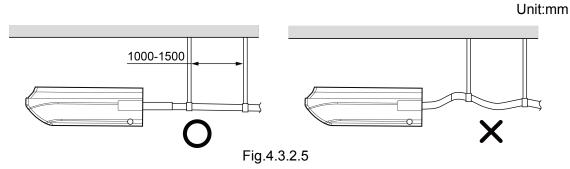


Fig.4.3.2.1

- (7) The horizontal pipe can't be connected to vertical pipe in the same level; please select the connection way as shown in following figure.
 - No.1: Three-way connection of drainage pipe joints (Fig.4.3.2.2).
 - No.2: Connection of downspout elbow (Fig.4.3.2.3).
 - No.3: Inserting horizontal pipe connection (Fig.4.3.2.4).



(8) 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.



(9) Prepare the local piping at the connection point for the drain pipe, as shown in the installation drawings.

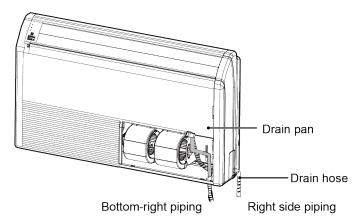


Fig.4.3.2.6

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, ensure that 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.

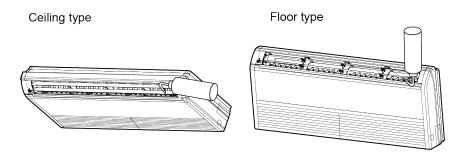


Fig.4.3.3

4.4 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.



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

5 Wiring Work



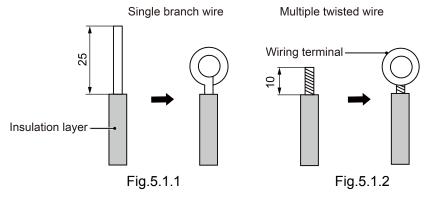
- ① Units must be grounded securely, or it may cause electric shock.
- ② Please carefully read the wiring diagram before carry out the wiring work, incorrect wiring could cause malfunction or even damage the unit.
- ③ The capacity of power supply must be sufficient and the sectional area of wires in the room should be above 2.5 mm².

- 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 reliable running.
- ⑥ Install circuit breaker for branch circuit according to related regulations and electrical standards.
- Trimp terminal or single wire must be applied for all wires.
- 9 Do not change the wiring inside the unit.
- (iii) If there is strong electromagnetic interference around the unit, shielded twisted pair line should be applied; the metal shielded layer of twisted pair wire must be grounded to avoid electromagnetic interference.
- (1) The communication wires should be separated from power cord and connection wire between indoor unit and outdoor unit.
- (12) 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 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) 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 patch board.
 - 3) Insert the wire into the ring tongue terminal and tighten by crimping tool.
 - 4) Use the screwdriver for tightening the terminal.

Unit:mm



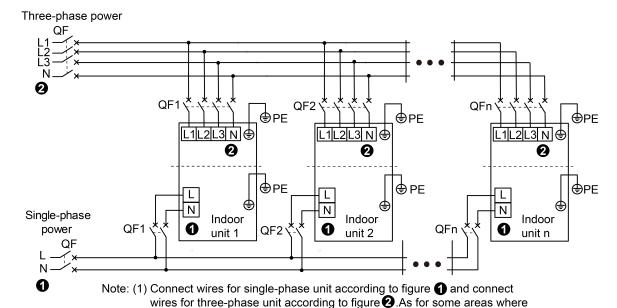
5.2 Power Cord Connection



① Every unit should be equipped with a circuit breaker for short-circuit and overload

protection.

② During operation, all indoor units connected to the same outdoor unit system must be kept energized status. Otherwise, the unit can't operate normally.



(2) The maximum connection quantity "n" for indoor unit is decided by the capacity of outdoor unit. Please refer to the unit capacity of unit for details.

there's no neutral wire, please refer to the wiring diagram of unit for details.

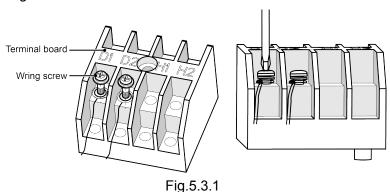
Fig.5.2

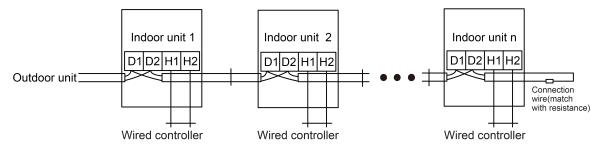
- (1) Detach the electric box lid.
- (2) Let the power cord pass through the wiring through-holes.
- (3) Connect wires according to Fig. 5.2.
- (4) Fix the power cord with wiring clamp.

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

For units with single-phase power supply.

- (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.





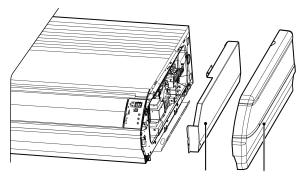
Note:Indoor unit quantity n is according to the outdoor unit capacity.

Fig.5.3.2

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



Electric box cover Left cover plate

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)

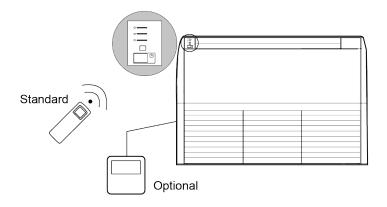
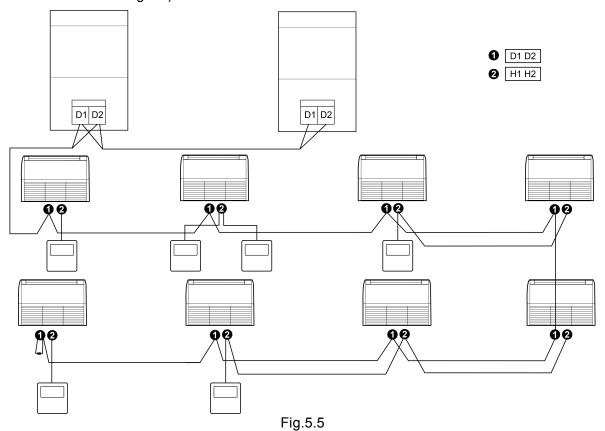


Fig.5.4.2

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)



Notes:

- ① The type of indoor units must be the same if they are controlled by the same wired controller.
- 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 owner's manual of wired controller.

6 Routine Maintenance



Warning:

- ① Do 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 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 then 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
LO	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 ₂ Sensor Error
L7	No Master Indoor Unit Error	d6	Outlet Pipe Temperature Sensor Error	dy	Water Temperature Sensor Error
L8	Power Insufficiency Protection	d7	Humidity Sensor Error	C0	Communication Error
L9	Quantity Of Group Control Indoor Units Setting Error	d8	Water Temperature Error	AJ	Filter Cleaning Reminder
db	Special Code: Field Debugging Code				

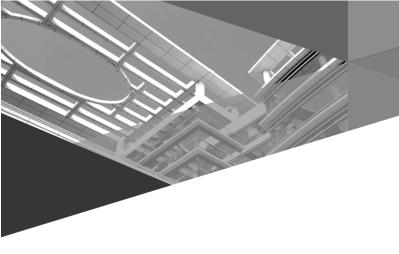
8 Troubleshooting

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



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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