



Original InstructionsCommercial Air Conditioners

Multi Variable Air Conditioners Ducted Type Indoor Unit

Models:

GMV-ND224PH/A-T GMV-ND280PH/A-T

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

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

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

To Users

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

- (1) This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- (2) In order to ensure reliability of product, the product may consume some power under stand-by status for maintaining normal communication of system and preheating refrigerant and lubricant. If the product is not to be used for long, cut off the power supply; please energize and preheat the unit in advance before reusing it.
- (3) Please properly select the model according to actual using environment; otherwise it may impact the using convenience.
- (4) This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for above special places, please adopt special air conditioner with anti-corrosive or anti-explosion function.
- (5) If the product needs to be installed, moved or maintained, please contact our designated dealer or local service center for professional support. Users should not disassemble or maintain the unit by themselves, otherwise it may cause relative damage, and our company will bear no responsibilities.
- (6) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation. If there is adjustment in the product, please subject to actual product.

Exception Clauses

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

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

Contents

1 Safety Notices (Please be Sure to Abide)	1
2 Product Introduction	3
2.1 Names of Key Components	3
2.2 Rated Working Condition	3
3 Preparations for Installation	4
3.1 Standard Fittings	4
3.2 Location for Installation	4
3.3 Requirements for Communication Line	5
3.4 Wiring Requirements	6
4 Installation Instructions	7
4.1 Installation of Indoor Unit	7
4.2 Refrigerant Pipe Connection	9
4.3 Drainage Pipe Installation and Drainage System Testing	9
4.4 Installation of Air Duct	12
4.5 Installation of Wired Controller	13
4.6 External Static Pressure Settings	13
5 Wiring Work	14
5.1 Connection of Wire and Patch Board Terminal	14
5.2 Power Cord Connection	15
5.3 Connection of Communication Wire between Indoor Unit and Outdoor Unit (or Inc	door Unit) 16
5.4 Connect Communication Wire of Wired Controller	16
5.5 Illuminate for Connection 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 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.

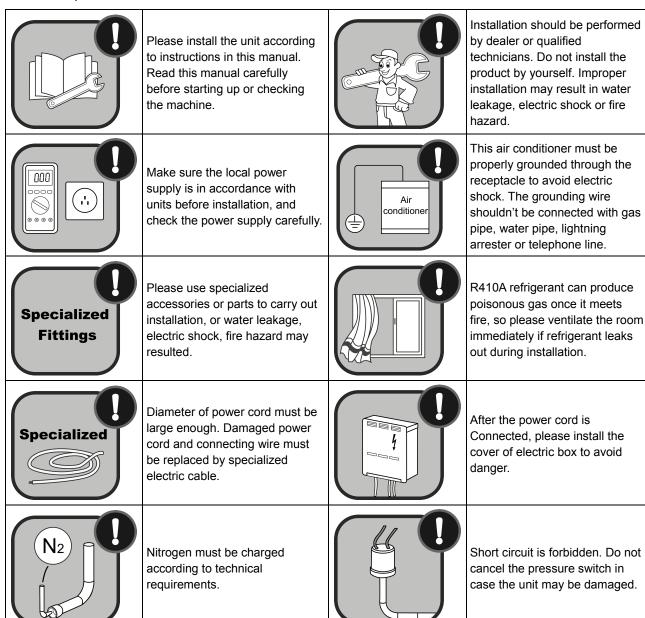


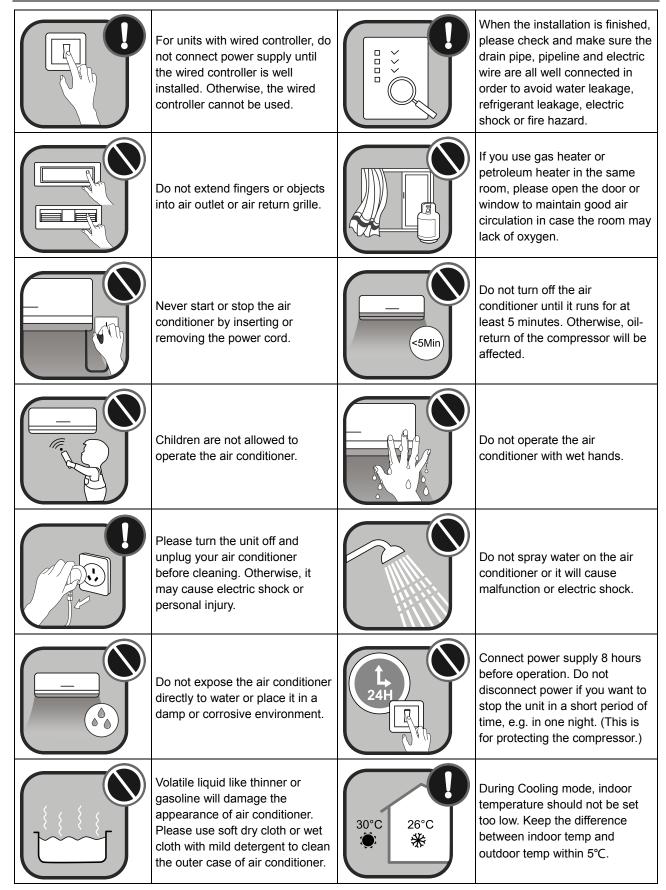
This sign indicates that the items must be observed. Improper operation may cause damage to people or property.

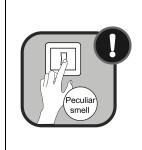


WARNING!

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.







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.



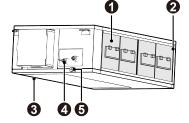
Correct Disposal of this product

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

- 1 Filter
- Air inlet
- 3 Air outlet
- 4 Fittings
- **5** Drainage pipe joint



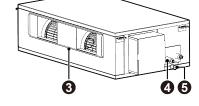


Fig.2.1.1

2.2 Rated Working Condition

	Indoor Sid	e 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

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

Please use the supplied standard fittings listed below as instructed.

No.	Name	Appearance	Q'ty	Usage
1	Wired Controller	999	1pc.	To control the indoor unit
2	Special Nut		1pc.	To be used for connecting the refrigerant pipe
3	M10×8 Nut with Washer		4pcs.	To be used together with the hanger bolt for installing the unit
4	M10 Nut (M10×8.4 Nut)		8 pcs.	To be used together with the hanger bolt for installing the unit
5	M10 Washer (Spring Washer M10×2.6)		4 pcs.	To be used together with the hanger bolt for installing the unit
6	M10 Washer (М10×Ф30×2.5)	0	4 pcs.	To be used together with the hanger bolt for installing the unit
7	Insulation		2 pc.	To insulate the gas/liquid pipe
8	Fastener	•	8 pcs.	To fasten the sponge
9	Hanger		4 pcs.	To fix the indoor unit
10	M8 Nut (M8×6.8)		8 pcs.	To fix the hook on the cabinet of the unit
11	M8 Washer (Spring Washer M8×2.1)		8 pcs.	To fix the hook on the cabinet of the unit
12	M8 Washer (M8×Φ16×1.5)	0	8 pcs.	To fix the hook on the cabinet of the unit
13	paper pattern for installation	_	1 pc.	Locate the drill hole on ceiling

3.2 Location for Installation

- (1) The appliance shall not be installed in the laundry.
- (2) The top holder must be strong enough to support unit's weight.
- (3) Drain pipe can drain water out easily.
- (4) There is no obstacle at inlet or outlet. Please ensure good air circulation.
- (5) In order to make sure the space for maintenance, please install the indoor unit according to the dimension described below.
- (6) Keep the unit away from heating source, inflammable gas or smoke.
- (7) This is a concealed ceiling type unit.
- (8) Indoor unit, outdoor unit, power cord and electric wire should stay at least 1m from the TV set and radio. Otherwise, these electrical appliances may have image interference and noise (Even if the distance is 1m when there is strong electric wave, noise may still occur).

Unit: mm

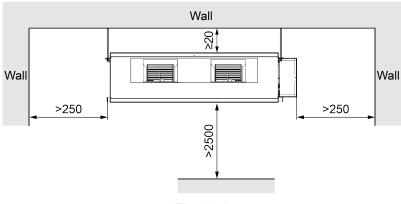


Fig.3.2.1

NOTES!

- ① Installation of the unit must be in accordance with National Electric Codes and local regulations.
- ② Improper installation will affect unit's performance, so do not install the unit by yourself. Please contact local dealer to arrange professional technicians for the installation.
- 3 Do not connect power until all installation work is finished.

3.3 Requirements for Communication Line



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

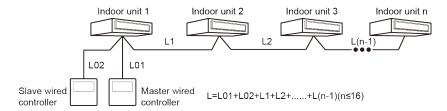


Fig.3.3.1

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≤250	2×0.75 ~2×1.25	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

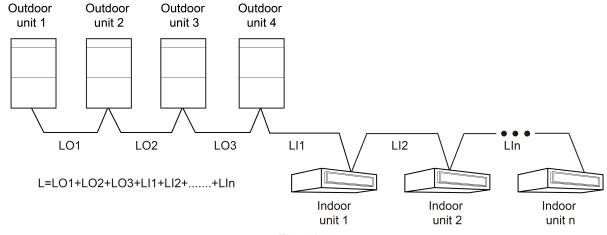


Fig.3.3.2

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≤1000	≥2×0.75	IEC 60227-5	 If the wire diameter is enlarged to 2×1 mm², the total communication line length can reach 1500 m. 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 Requirements

Power Cord Size and Air Switch Capacity

Model	Power Cord Size	Air Switch Capacity (A)	Minimum Sectional Area of Ground Wire(mm²)	Minimum Sectional Area of Power Cord(mm²)
GMV-ND224PH/A-T	220-240V ~50Hz	10	1.0	1.0
GMV-ND280PH/A-T	208-230V ~60Hz	10	1.0	1.0

NOTES!

- ① Use copper wire only as unit's power cord. Operating temperature should be within its rated value.
- If the length of power cord is more than 15 m, please increase properly the sectional area of power cord to avoid overload, which may cause accident.
- 3 Above selection requirements: Power cord size is based on BV single-core wire (2~4pc) at 40°C ambient temperature when laying across plastic pipe. Air switch is D type and used at 40°C. If actual installation condition varies, please lower the capacity appropriately according to the specifications of power cord and air switch provided by manufacturer.
- 4 Install cut-off device near the unit. The minimum distance between each stage of cut-off device should be 3 mm (The same for both indoor unit and outdoor unit).

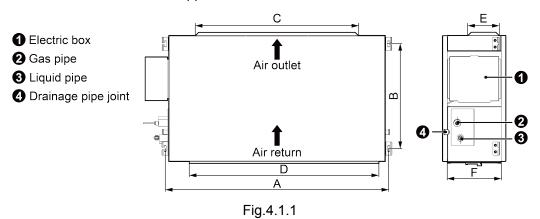
4 Installation Instructions

4.1 Installation of Indoor Unit

4.1.1 Outline Dimension and Installation Spots

Equip with an inspection hatch after lifting the unit. For the convenience of maintenance, the service port should be on one side of the electric box and below unit's lower level.

Below are the outline dimension applicable to indoor units



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

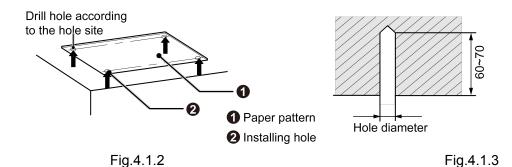
Unit: mm

Model	А	В	С	D	E	F
GMV-ND224PH/A-T	1353	632	992	1150	192	327
GMV-ND280PH/A-T	1563	707	992	1350	192	402

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.

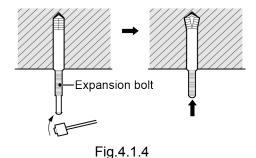
Unit: mm



2) Insert the M10 expansion bolt into the hole and then knock the nail into the bolt, as shown in Fig.4.1.4, and then remove the paper pattern.



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



(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 can be used to prevent the washer from falling.

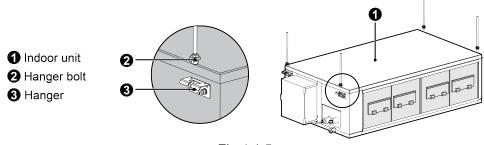
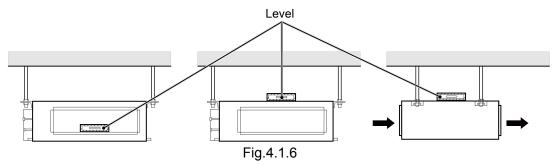


Fig.4.1.5

NOTES!

- ① Before operation, please prepare all pipelines (connection pipe, drainage hose) and wires (connection wire for wired controller, connection wire for indoor unit).
- ② When drilling holes on ceiling (air return outlet or air outlet), you can need to reinforce the ceiling to prevent vibration. For details, please consult user or builder.
- 3 If the strength of the ceiling is not good, please install a beam bracket, and then put the unit on the beam bracket.
- (3) Adjust the unit to the right position.
- (4) Check the level of the unit and then tighten the nut.

After the indoor unit is installed, remember to check the horizontal status of the whole unit. It should be horizontal from front to back and slant 1% from left to right, following the drainage direction.



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.4.2.1
- (2) Tighten the flaring nut with torque wrench.

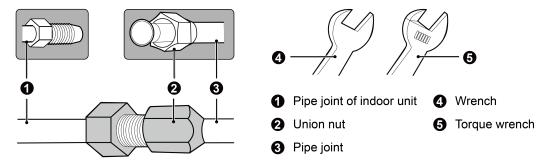


Fig.4.2.1

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 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) 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. and arrange insulation to 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 hole and wire binder. Can't connect the drainage hole and drainage hole 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.

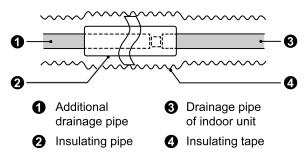
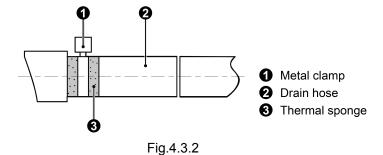


Fig.4.3.1

4.3.2 Drainage pipe installation

- (1) Insert the drain hose into the drain hole and tighten it with tapes, as shown in Fig.4.3.2. Model with water pump will be provided with drain hose, while other models please prepare the drain hose by yourself.
- (2) Tighten the pipe clamp, with the distance between screw nut and hose smaller than 4mm.
- (3) Use sealing plate to make the pipe clamp and hose insulated, as shown in Fig.4.3.3.



Unit: mm

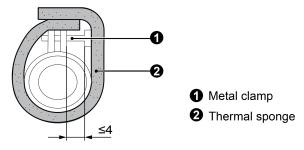
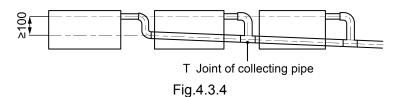


Fig.4.3.3

(4) When connecting several drain pipes, follow the instruction as indicated in Fig.4.3.4. Choose the drain collecting pipe that matches with unit capacity.





- (5) Install the trap as shown in following Fig.4.3.5.
- (6) Install one trap for each unit.
- (7) Convenience for cleaning trap in the future should be considered when installing it.

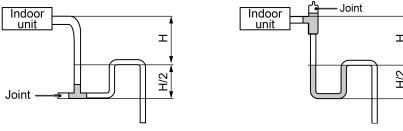
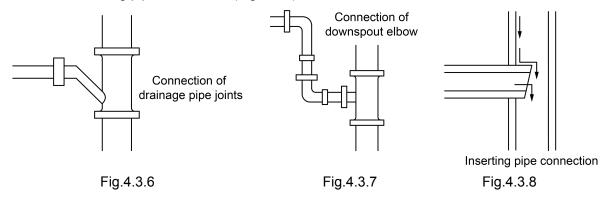


Fig.4.3.5

- (8) The horizontal pipe can be connected to vertical pipe in the same level; please select the connection way as shown in following Fig.
 - No.1: Connection of drainage pipe joints (Fig.4.3.6)
 - No.2: Connection of downspout elbow (Fig.4.3.7)
 - No.3: Inserting pipe connection (Fig.4.3.8)



(9) 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 1000~1500 mm.

Unit: mm

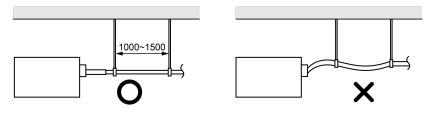


Fig.4.3.9

4.3.3 Test of Drainage System

- (1) Inject some water to the water tray of indoor unit as following:
 - 1) Connect the drain hose to the other drain connection pipe of water tray and inject approximately 1L water. (Remove the drain hose after finishing testing and then put on the plug of water tray.)
 - 2) Spray 1L water on evaporator with sprayer.

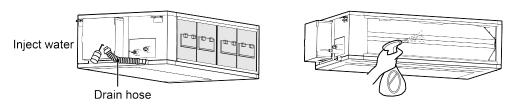


Fig.4.3.10

- (2) Check if the water drains smoothly from the drain pipe and check if there is water leakage on the connection pipe.
- (3) Arrange insulation of drain hose and pipe clamp after checking the drain system.

4.4 Installation of Air Duct



- There should be insulating layer on air-out duct, air-return duct and fresh air duct to avoid heat loss and moisture. Adhere a nail on the air duct and then add thermal sponge with a layer of tin. Fasten it with a nail cover and then seal the junction with tin tapes. You can also use other materials that have good insulation quality.
- ② Each air-out duct and air-return duct should be fixed on a pre-made board with iron frame. The junction of air duct should be well-sealed in order to prevent air leakage.
- 3 The design and construction of air duct should comply with national requirements.
- The edge of air-return duct is suggested to be more than 150mm away from the wall. Add a filter to the air-return opening.
- ⑤ Please consider noise-damping and vibration damping for the design and construction of air duct. Besides, noise source must be away from people. For instance, do not have the air-return opening installed on top of the user (Offices, rest area, etc).

4.4.1 Installation of Air-out Duct

Installation of the Rectangular Duct

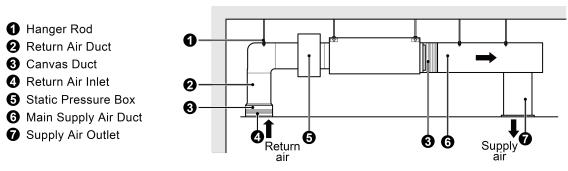
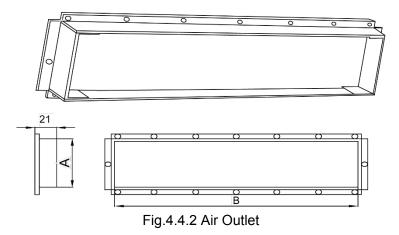


Fig.4.4.1

4.4.2 Shape and Size of Air Outlet and Air-return Opening

Unit: mm



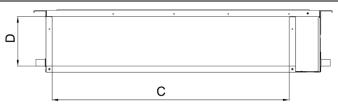


Fig.4.4.3 Air-return Opening

Unit: mm

Model	Size of Air Outlet		Size of Air –return Opening		
Model	А	В	С	D	
GMV-ND224PH/A-T	192	992	1150	327	
GMV-ND280PH/A-T	192	992	1350	402	

4.5 Installation of Wired Controller

Please refer to User Manual of Wired Controller for the installation details.



When installation is finished, the unit must be tested and debugged before operation. Please refer to Instruction Manual of ODU for auto addressing and debugging details.

4.6 External Static Pressure Settings

Unit parameters can be set in unit ON or OFF status.

- (1) Long press FUNCTION button for 5s and the temperature zone displays "C00"; long press FUNCTION button for another 5s to enter the interface of setting wired controller parameters. "P00" is displayed in temperature zone.
- (2) Press "▲" or "▼" button to select parameter code. Press MODE button to enter parameter setting. At that time, parameter value is blinking. Press "▲" or "▼" button to adjust the parameter value and press ENTER/CANCEL button to finish setting.
- (3) Press ENTER/CANCEL button to return to last step until exists setting parameters.

The parameter setting list is as following:

Parameter code	Parameter name	Parameter range	Default value	Note
P30	Set static pressure of indoor fan motor	01-09: static pressure level of indoor fan motor	05	There are two kinds of static pressure level: 5 levels: 03, 04, 05, 06, 07 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09 Static pressure level range is different for different models; the wired controller will automatically select static pressure level range of indoor fan motor according to the model of indoor unit.

NOTES!

- ① Under parameter setting status, FAN, TIMER, SLEEP and SWING button are invalid. Press ON/OFF button to go back to home page, but not turning on/off the unit.
- ② If the length of power cord is more than 15 m, please increase properly the sectional area of power cord to avoid overload, which may cause accident.

External static pressure	Static pressure level of indoor fan motor
50 Pa	01
60 Pa	02
70 Pa	03
90 Pa	04
100 Pa	05
120 Pa	06
150 Pa	07
180 Pa	08
200 Pa	09



- ① Keep in mind that a shortage of airflow quantity or water leakage will result because the air conditioner will be operated outside the rated range of airflow quantity if the external static pressure is wrongly set.
- 2 The Sound Pressure Level will change if the external static pressure is wrongly set.

5 Wiring Work



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

NOTES!

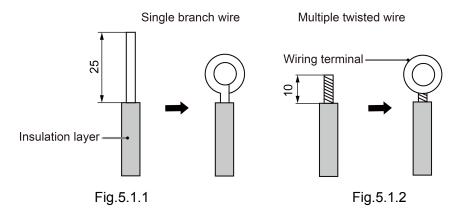
- ① Units must be earthed securely, or it may cause electric shock.
- 2 Please carefully read the wiring diagram before carry out the wiring work, incorrect wiring could cause malfunction or even damage the unit.
- ③ The unit should be powered by independent circuit and specific socket.
- The wiring 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.
- 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.

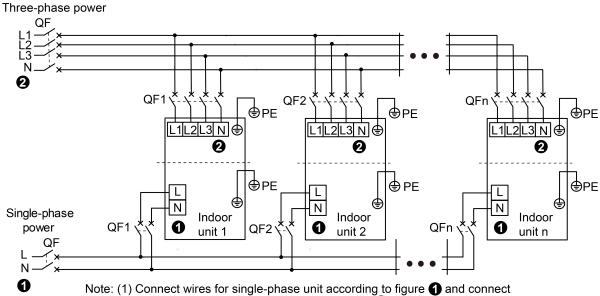
Unit: mm



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.



- wires for three-phase unit according to figure 2. As for some areas where there's no neutral wire, please refer to the wiring diagram of unit for details.
 - (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.

Fig.5.2.1

- (1) Detach the electric box lid.
- (2) Let the power cord pass through the wiring through-holes.
- (3) Connect wires according to Fig. 5.2.1

(4) Fix the power cord 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.

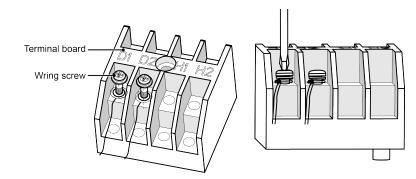
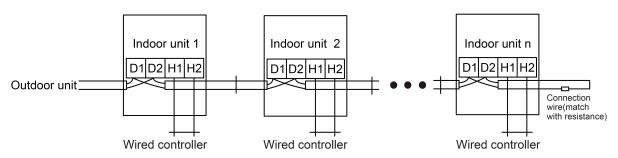


Fig.5.3.1



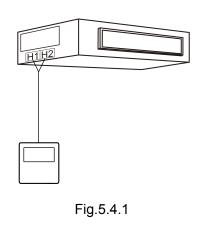
Note:Indoor unit quantity n is according to the outdoor unit capacity.

Fig.5.3.2

- (4) Fix the communication cable with clamp of electric box.
- (5) For more reliable communication, make sure connect the 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 Connect Communication Wire of Wired Controller

- (1) Open electric box cover of indoor unit.
- (2) Let the communication wire go through the rubber ring.
- (3) Connect the communication wire to terminal H1 and H2 of indoor 4-bit wiring board.
- (4) Fix the communication wire with wire clip on the electric box.
- (5) Wiring instructions of remote receiving light board and wired controller:
 - 1) Fig.5.4.1 shows the installation of wired controller.



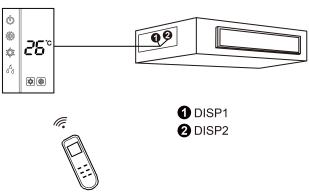


Fig.5.4.2

- 2) Fig.5.4.2 shows the installation of remote controller.
- 3) Wired controller and receiving light board can be installed at the same time. When operating through a remote controller, both wired controller and the receiving light board can receive the signals, as shown in Fig.5.4.3.

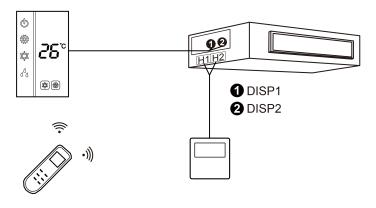


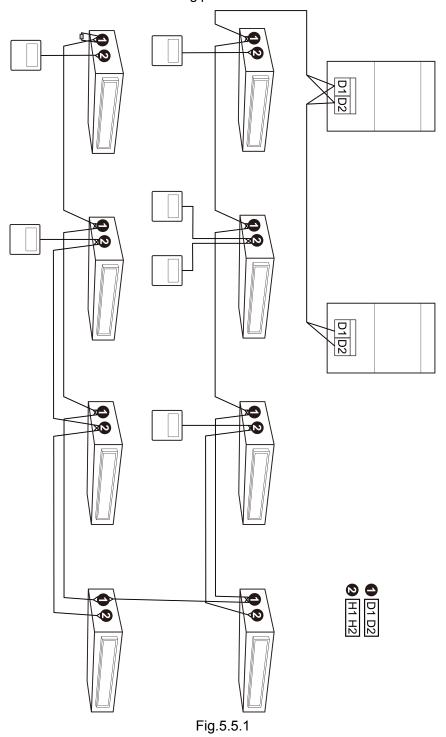
Fig.5.4.3

5.5 Illuminate for Connection of Wired Controller and Indoor Units Network

- (1) Communication wire of indoor unit and outdoor unit (or indoor unit) is connected to D1, D2.
- (2) Wired controller is connected to H1, H2.
- (3) One indoor unit can 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.5.5.1).

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.



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 Do not clean the unit with hot water whose temperature is higher than 45℃ 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	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 De	bugging Code	e		

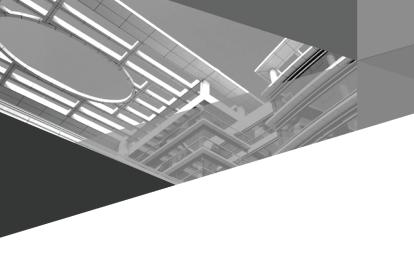
8 Troubleshooting

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.
	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.
	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.
	Refrigerant is insufficient (e.g. refrigerant leakage).
Indoor fan doesn't start up	① At starting, the IDU fan could not operate till the heat exchange become hot, for
	preventing delivering the cool air.
during heating.	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.



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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