



Owner's Manual

Original Instructions

Air Conditioners

Rooftop Packaged

Models:

GK-H03NH3AS

GK-H5.5NH3AS

GK-H5.5NH3AF

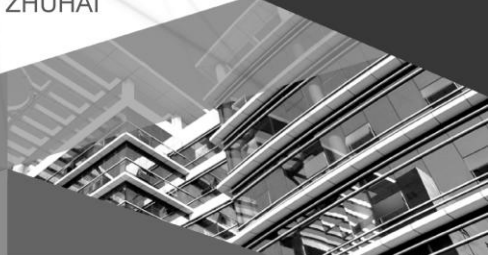
GK-H10NH3AF

GK-H15NH3AF

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

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@gree.com.cn 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 is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- (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., ex-factory 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)

SPECIAL WARNING:

- (1) Be sure to comply with national gas regulations.
- (2) Do not pierce or burn.
- (3) Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- (4) Be aware that refrigerants may not contain an odor.



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



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



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



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

Please read this operating manual carefully before operating the unit.



Before using the air conditioner, please read the instruction manual.



Before installing the air conditioner, please read the instruction manual.

Before repairing the air conditioner, please read the instruction manual.



The figures in this manual may be different with the material objects, please refer to the material objects for reference.



PROHIBITED

(1) The air conditioner should be grounded to avoid electric shock. Do not connect the ground wire to gas pipe, water pipe, lightning arrester or telephone wire.

(2) According to federal/state/local laws and regulations, all packages and transportation materials, including nails, metal or wooden parts, and plastic packing material, must be treated in a safe way.



WARNING

- (1) 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.
- (2) Do not use or store flammable, explosive, poisonous or other dangerous substances beside the air conditioner.
- (3) Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- (4) Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- (5) The appliance shall be installed in accordance with national wiring regulations.
- (6) An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- (7) Air conditioner should be stored with protective measures against mechanical damage caused by accident.
- (8) During installation, use the specialized accessories and components, otherwise water leakage, electric shock or fire hazard may occur.
- (9) Please install the air conditioner in a secure place that can withstand the weight of air conditioner. Insecure installation may cause the air conditioner falling down and lead to injury.
- (10) Be sure to adopt independent power circuit. If the power cord is damaged, it must be repaired by the manufacturer, service agent or other professional agents.
- (11) In case of trouble (e.g. burnt smell), please immediately cut off the main power of air conditioner unit.
- (12) The air conditioner can be cleaned only after it is turned off and power-disconnected, otherwise electric shock may occur.
- (13) The air conditioner is not intended to be cleaned or maintained by children without supervision.
- (14) Do not alter the setting of pressure sensor or other protective devices. If the protective devices are short-circuited or changed against rules, fire hazard or even explosion may occur.
- (15) Do not operate the air conditioner with wet hands. Do not wash or sprinkle water on the air conditioner, otherwise malfunction or electric shock will occur.
- (16) Do not dry the filter with naked flame or an air blower; otherwise the filter will be out of shape.



WARNING

(17) When installing or re-installing the air conditioner, please keep the refrigerant circuit away from substances other than the specified refrigerant, such as air. Any presence of foreign substances will cause abnormal pressure change or even explosion, resulting in injury.



NOTICE

- (1) Do not put a finger or other objects into the air inlet or air return grill.
- (2) Please do not foot on or place any goods on air conditioner unit.
- (3) Before installation, please check the power supply for compliance with the ratings on nameplate. Check the power safety as well.
- (4) Please adopt safety protection measures before touching the refrigerant pipe, otherwise your hands may be hurt.
- (5) Please arrange the drain pipe according to the instruction manual.
- (6) Never stop the air conditioner by directly cutting off the power.
- (7) Never install the air conditioner in the following places:
 - a) Places with oil smoke or volatile liquid: plastic parts may deteriorate and fall off or even cause water leakage.
 - b) Places with corrosive gas: copper pipe or the welding parts may be corroded and cause refrigerant leakage. Places with oil smoke or volatile liquid: plastic parts may deteriorate and fall off or even cause water leakage.
- (8) Adopt proper measures to protect the unit from small animals because they may damage the electric components and cause malfunction of the air conditioner.
- (9) The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.



OBSERVED

- (1) If wired control is to be used, it should be connected first before powering up the unit, otherwise the wired control may not be able to use.
- (2) Before operating the unit under low temperature, connect it to power for 8 hours. If it is stopped for a short time, for example, one night, do not cut off the power (This is to protect the compressor).
- (3) Once started, the air conditioner shall not be stopped at least after 5 minutes or longer; otherwise the oil return to compressor may be affected.
- (4) Please disconnect the main power if to put the air conditioner unit out of use for a long period.

2 Product Introduction

GREE rooftop packaged units provide a wide capacity range from 3 to 15 Ton. These units are completely assembled, piped and wired at the factory to provide one-piece shipment and rigging. Each unit is pressurized with a holding charge of Refrigerant-410a for storage and shipping.

The compact design, attractive appearance, outstanding anti-rust cabinet and quiet operation make these units suitable for almost any manufactured or modular homes, offices, restaurants, residences or similar places.

2.1 Nominal Operating Condition

Item	Outdoor Conditon		Indoor Condition	
	DB Temperatrue(°C)	WB Temperatrue(°C)	DB Temperatrue(°C)	WB Temperatrue(°C)
Cooling	35	24	27	19
Heating	7	6	20	15

2.2 Operating Range

GK-H03NH3AS, GK-H5.5NH3AS, GK-H5.5NH3AF, GK-H10NH3AF, GK-H15NH3AF

Item	Outdoor Condition (DB °C)
Cooling	18~48
Heating	-10~24


3 Pre-installation Instruction

3.1 Checking Product Received

Upon receiving the product, check any damage from transportation. Shipping damage is the responsibility of the carrier. Verify the model number, specifications and accessories are correct prior to installation. The distributor or manufacturer will not accept claims from dealers for transportation damage or installation of incorrectly shipped units.

3.2 Standard Accessory Parts

The standard accessory parts listed below are furnished and should be used as required.

No.	Name	Appearance	Q'ty	Usage
1	Wired Controller		1	To control the unit

3.3 Before Beginning Installation

Carefully read all instructions for the installation prior to installing product. Make sure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally. Make sure everything needed to install the product is on hand before starting.

3.4 Codes & Regulations

This product is designed and manufactured to comply with national codes. It is installer’s responsibilities to install the product in accordance with such codes and/or any prevailing local codes/regulations. The manufacturer assumes no responsibilities for equipment installed in violation of any codes or regulations.

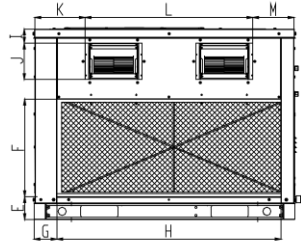
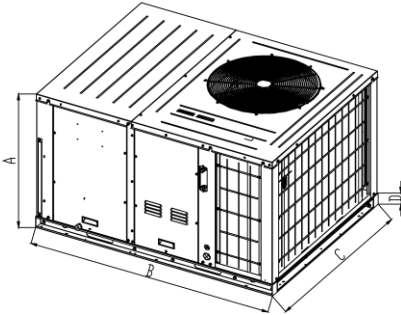
3.5 Replacement Parts

When reporting shortages or damages, or ordering repair parts, give the complete product model and serial numbers as stamped on the product.

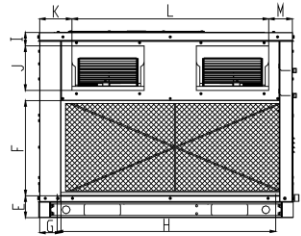
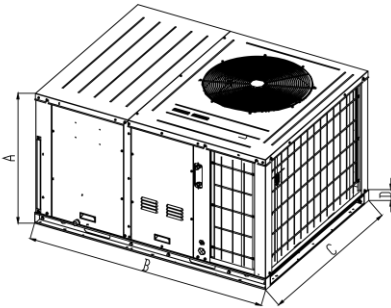
Replacement parts for this product are available through your contractor or local distributor.

4 Installation Instructions

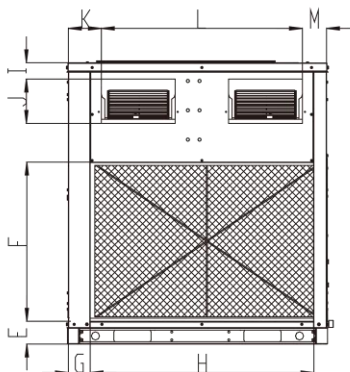
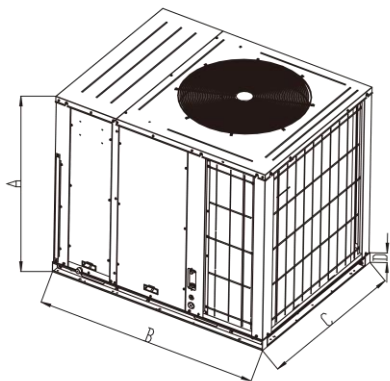
4.1 Physical Dimension



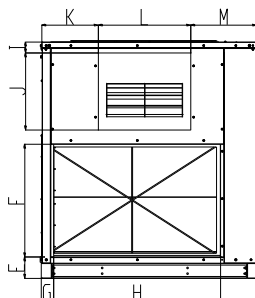
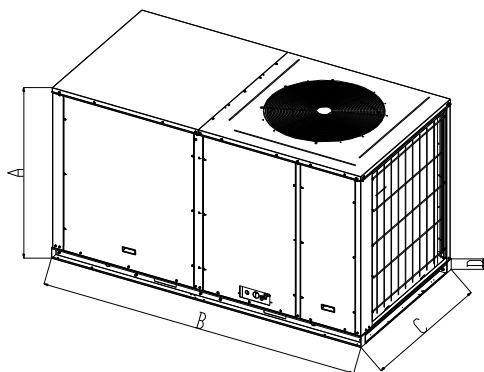
GK-H03NH3AS



GK-H5.5NH3AS, GK-H5.5NH3AF



GK-H10NH3AF



GK-H15NH3AF

Dimension (mm)	Dimension												
	A	B	C	D	E	F	G	H	I	J	K	L	M
GK-H03NH3AS	815	1450	1120	70	98	417	94	916	60	155	215	719	178
GK-H5.5NH3AS	815	1450	1120	70	98	417	94	916	65	190	144	866	105
GK-H5.5NH3AF	815	1450	1120	70	98	417	94	916	65	190	144	866	105
GK-H10NH3AF	1215	1450	1120	70	98	686	94	916	70	190	144	866	105
GK-H15NH3AF	1245	2260	1140	80	111	595	50	914	58	406	298	487	349

Note: Above diagrams may be different from actual mode.

4.2 General Information

Model Name	Model			Power Supply
	Refrigerant	Function	Climate type	V, Ph, Hz
GK-H03NH3AS	R410A	Heat Pump	T1	220-240V, 1Ph, 50/60Hz
GK-H5.5NH3AS	R410A	Heat Pump	T1	220-240V, 1Ph, 50/60Hz
GK-H5.5NH3AF	R410A	Heat Pump	T1	220-240V, 3Ph, 60Hz
GK-H10NH3AF	R410A	Heat Pump	T1	220-240V, 3Ph, 60Hz
GK-H15NH3AF	R410A	Heat Pump	T1	220-240V, 3Ph, 60Hz

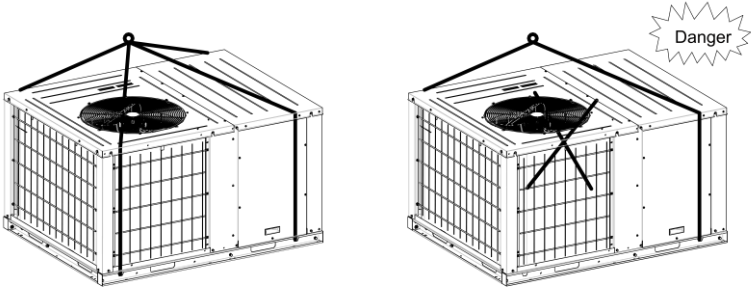
Note: 1Ton =12000Btu/h = 3.517kW

4.3 Location

To ensure the unit in proper function, selection of installation location must be in accordance with following principles.

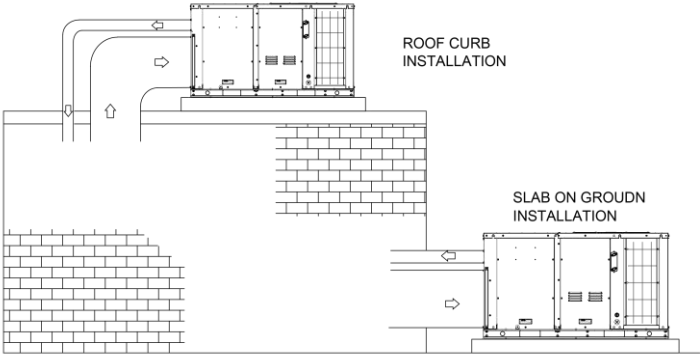
- (1) Unit shall be installed so that the air discharged by outdoor fan will not return and that sufficient space for repair shall be provided around the unit.
- (2) The installation site must have good ventilation, so that the unit can take in and exhaust enough air.
- (3) Place of installation shall be strong enough to support the weight of unit, and it shall be able to insulate noise and prevent vibration. Ensure that the wind and noise from the unit will not affect your neighbors.
- (4) Avoid direct sunshine over the unit. It is better to set up a sun shield as the protection.
- (5) Place of installation must be able to drain the rainwater and defrosting water.
- (6) Place of installation must ensure the unit will not subject to the influence of rubbish or oil fog.
- (7) The installation site must be at a place where the air exhaust outlet does not face strong wind.
- (8) Unit must be fixed on stable and solid surface of floor.

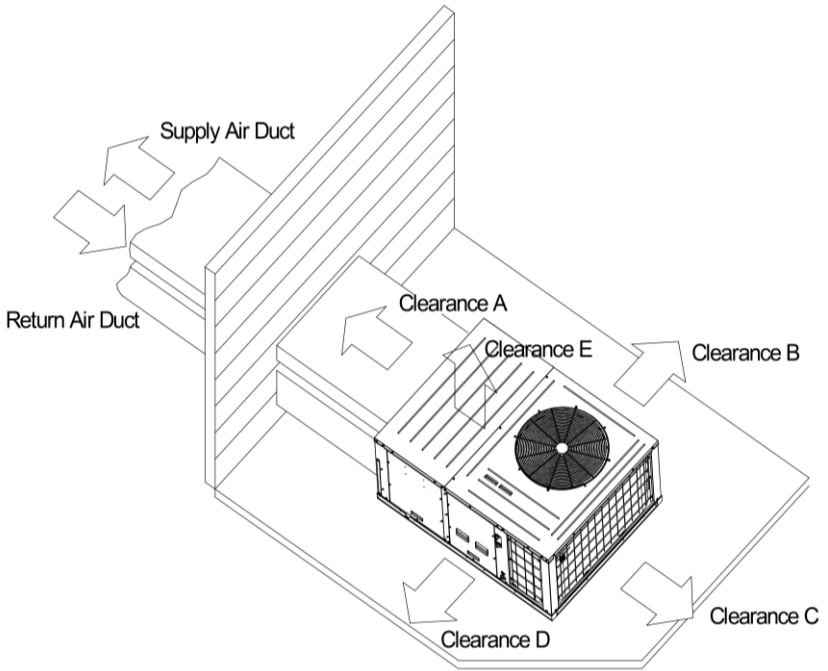
4.4 Crane Way



- (1) When removing the unit, two ropes are needed to hang the unit along the four ways.
- (2) In order to avoid the extrusion, between the ropes should be add something to protect the unit (e.g. batten).
- (3) Please use M12 to tight the support fundus.

4.5 Installation Positions and Clearances



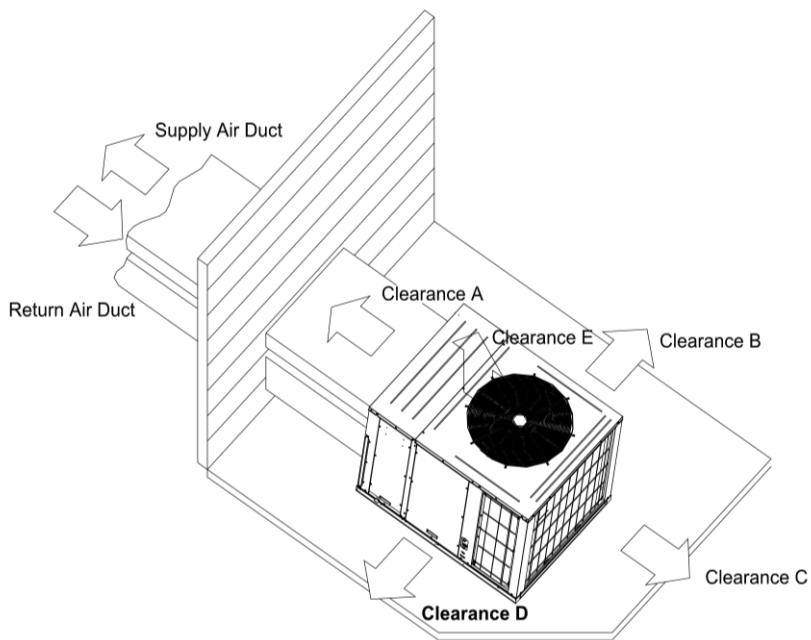


GK-H03NH3AS, GK-H5.5NH3AS, GK-H5.5NH3AF

Note: Above diagrams may be different from actual model.

GK-H03NH3AS, GK-H5.5NH3AS, GK-H5.5NH3AF

Installation Clearances		
DIMENSION (Minimum)	mm	inch
A	600	24
B	1100	43
C	860	34
D	1100	43
E	1100	43



GK-H10NH3AF, GK-H15NH3AF

Note: Above diagrams may be different from actual model.

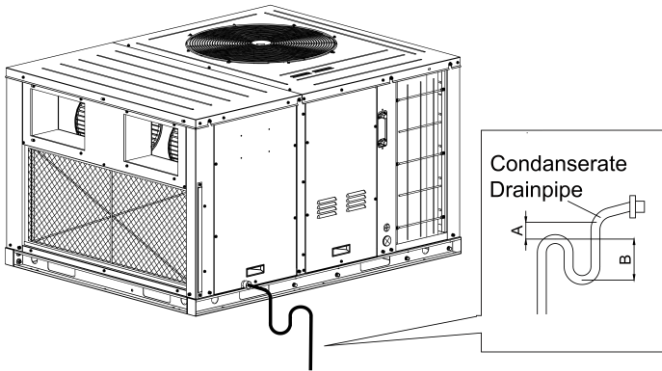
GK-H10NH3AF, GK-H15NH3AF

Installation Clearances		
DIMENSION (Minimum)	mm	inch
A	1000	39
B	1500	59
C	1100	43
D	1100	43
E	1830	72

4.6 Installation of Condensate Pipe

- (1) After the unit is installed, it is required to check the level of the whole unit. The unit must be placed horizontally to ensure the unit in proper function.
- (2) When shipped out from factory, both the condensate outlets are blocked by rubber plug. So before installation, please take the rubber plug out.

- (3) Condensate removal is performed by attaching a PVC pipe to the drain pan and terminated in accordance with local or state Plumbing/HVAC codes.
- (4) The condensate pipe shall be installed with an inclining angel of 5~10°, so as to facilitate the drainage of condensate.
- (5) As the inside of the unit is in the negative pressure status, it is required to set up a backwater elbow. The requirements is: $A=B \geq P/10+20(\text{mm})$.
- (6) P is the absolute pressure inside the unit. The unit of the pressure is Pa.
- (7) After the electrical installation is completed, carry out the testing of the drainage system.



Model Name	Drain Connection Size(mm)
GK-H03NH3AS	20
GK-H5.5NH3AS	20
GK-H5.5NH3AF	20
GK-H10NH3AF	20
GK-H15NH3AF	20

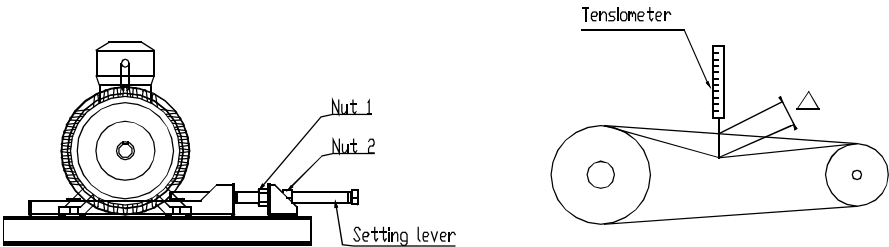
4.7 Adjust the Tightness of the Belt (Only above 10 Ton)

- (1) The rotation of the fan is achieved by the transmission of the belt. The velocity and stability of the fan is associated with the tightness of the belt and the tightness should be adjusted after a period of time.
- (2) For a new belt, the tightness should be adjusted for at least twice within 24

hours. After one week running, the tightness of the belt should be adjusted again, we should routinely check it every 1-2 months; also ensure the test results complying with the following table.

- (3) The adjustment of the tightness of the belt is shown in the following figure. Loosen screws fixing motor on the base, move motor along the direction of arrow as shown in the picture, and then fix the screw again.
- (4) The tightness level of belt is tested by tensiometer as shown in the following figure, when reaches the deviation length, read the value on the meter, the value should be in the category specified in the following table.

Section area of the belt	Diameter of the small wheel(mm)	Diameter of the big wheel(mm)	The total length of the belt(mm)	Deviation length(m)	Tension(N)	
					Min.	Max.
SPA	100	190	1700	9.9	13	14
	100	180	1682	9.9	13	14
	106	190	1700	9.9	12	14
	100	170	1657	9.8	13	14
	106	180	1682	9.8	12	14
	112	190	1732	10.0	12	13



Note: Above diagrams may be different from actual model.

5 Electrical Installation

5.1 Electrical Date and Wire Sizing

Model Name	Power Supply (V, Ph, Hz)	Capability of Air Switch(A)	Min. Sectional Area of Earth Wire(mm ²)	Min. Sectional Area of Power Cord(mm ²)
GK-H03NH3AS	220-240V,1Ph, 50/60Hz	25A	4.0	4.0
GK-H5.5NH3AS	220-240V,1Ph, 50/60Hz	40A	10.0	10.0
GK-H5.5NH3AF	220-240V,3Ph, 60Hz	40A	10.0	10.0
GK-H10NH3AF	220-240V,3Ph, 60Hz	50A	10.0	10.0
GK-H15NH3AF	220-240V,3Ph, 60Hz	125A	35.0	35.0

5.2 Connect Wiring to the Terminals

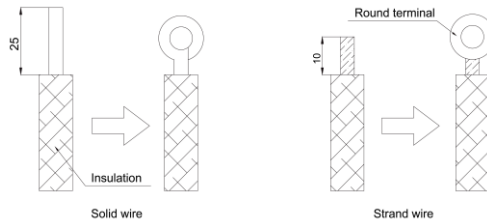


NOTICE!

Please note the following items before installing the electric appliance.

- ①. Check if the power supply accords with its value on the nameplate.
- ②. The capacity of the power supply must be large enough.
- ③. The circuit should be installed by the professional technician.
- ④. In fixed circuit, there must be electricity leakage protection switch of enough power capacity and air switch with space between its electrode contacts $\geq 3\text{mm}$.
- ⑤. Single wire connection.
 - a) Peel off the insulation for 25mm with pliers.
 - b) Remove the screw from the terminal board.
 - c) Bend the peeled wire into circle with pliers.
 - d) Screw cross the circle and fix it on the terminal board.
- ⑥. Strand wires connection.
 - a) Peel off the insulation for 10mm with pliers.
 - b) Remove the screw from the terminal board.
 - c) Clamp a round terminal of the peeled wires.

d) Screw cross the circle and fix it on the terminal board.



WARNING!

If the power line or the signal line is defective, use the special coil to replace it.

- ①. Before connecting lines, read the voltages of the relevant parts on the nameplate. Then carry out line connection according to the schematic diagram.
- ②. The air-conditioning unit shall have special power supply line which shall be equipped with electricity leakage switch and air switch, so as to deal with overload conditions.
- ③. The air-conditioning unit must have grounding to avoid hazard owing to insulation failure.
- ④. All fitting lines must use crimp terminals or single wire. If multiple twisted wires are connected to terminal board, arc may arise.
- ⑤. All line connections must conform to the schematic diagram of lines. Wrong connection may cause abnormal operation or damage of the air-conditioning unit.
- ⑥. Do not let any cable contact the refrigerant pipe, the compressor and moving parts such as fan.
- ⑦. Do not change the internal line connections inside the air-conditioning unit. The manufacturer shall not be liable for any loss or abnormal operation arising from wrong line connections.
- ⑧. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- ⑨. All of the supplied components, material, and electric operation should be accorded with the local principles.

- ⑩. The null line of power input must be connected to the “N” section of the terminal board! A wrong connection will cause the damage of unit!

5.3 Electrical Connections-Supply Voltage

- (1) Air-conditioning unit with single-phase power supply.
 - 1) Remove the Electric Box Cover of the unit.
 - 2) Pass the cable though rubber ring.
 - 3) Connect the power supply cable to the terminals and the grounding screw.
 - 4) Use cable fastener to bundle and fix the cable.
- (2) Air-conditioning unit with 3-phase power supply.
 - 1) Remove the Electric Box Cover of the unit.
 - 2) Pass the cable though rubber ring.
 - 3) Connect the power supply cable to terminals and the grounding screw according to wiring diagram.
 - 4) Use cable fastener to bundle and fix the cable.
- (3) Low Voltage Connections.

Low voltage wiring is to be copper conductors. The wire size of the communication line should be no less than 0.75mm^2 .

- 1) Remove the Electric Box Cover of the unit.
- 2) Pass the signal cable of the wire controller though rubber ring.
- 3) Connect the signal cable to terminals according to wiring diagram.
- 4) Use cable fastener to bundle and fix the cable.



NOTICE!

Take great care when carrying out the following connections, so as to avoid malfunction of the air-conditioning unit because of electromagnetic interference.

- ①. The signal line of the wire controller must be separated from the power line.
- ②. In case the unit is installed in a place vulnerable by electromagnetic interference, it is better to use shielded cable or double-twisted cable as the signal line of the wire controller.

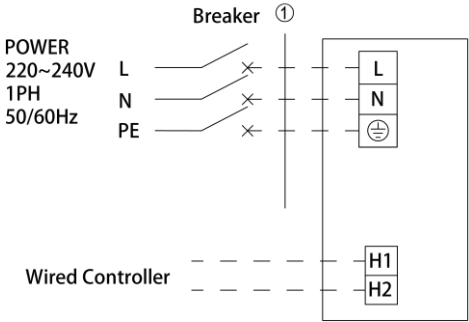


WARNING!

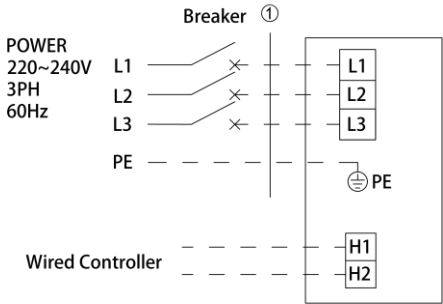
The NULL LINE of power input MUST be connected to the “N” section of the terminal board!

A WRONG CONNECTION will cause the DAMAGE of unit!

5.4 Wiring Diagram



GK-H03NH3AS, GK-H5.5NH3AS



GK-H5.5NH3AF, GK-H10NH3AF, GK-H15NH3AF

6 Maintenance

To protract the life of the air-conditioning unit, check and maintain the unit regularly with a qualified service person.

- (1) Cleaning the Air Filter
 - 1) Do not disassemble the air filter when cleaning it. Otherwise failure may be caused.
 - 2) If the air-conditioning unit is used in an environment with much dust,

you should clean the air filter frequently (once every two weeks).

(2) Cleaning the Outdoor Heat Exchanger

Outdoor heat exchanger must be cleaned regularly, at least once every two months. You can clean the surface with vacuum cleaner or nylon brush, please do not wash it with water.

(3) Maintenance at the Beginning of Operating Season

- 1) Check the air inlet and outlet of the units to confirm there is no blockage.
- 2) Check to see if the grounding wire is in good condition.
- 3) Check to see if the line connection is in good condition.
- 4) Check the drainage pipe so as to confirm the fluency flow of condensate.

(4) Maintenance at the End of the Operational Season

- 1) When the weather is clear, operate the unit for half a day, so as to dry the inside of the unit.
- 2) If not to use the air-conditioning unit for a long time, please disconnect the power supply.



NOTICE!

You shall pay attention to the following matters when cleaning the air-conditioning unit.

- ①. Cut off all power supply before contacting the line connecting equipment.
- ②. Only clean the air-conditioning unit after the unit is shut off and the power supply is disconnected. Otherwise electrical shock or injury may be caused.
- ③. Do not use water to clean the air-conditioning unit. Otherwise there may be electrical shock.
- ④. Pay more attention to the place that the air conditioner should be installed firm.

7 Trial Run

- (1) The power supply should be turned on only after finishing all the installation.
- (2) All the control wires and cables are connected correctly and safely.
- (3) All the objects like screws and wires etc that remained in the unit should be cleared after installation.

(4) Switch on power supply and press the ON/OFF button to start operation.

8 Troubleshooting

If your air-conditioning unit suffers from abnormal operation or failure, please first check the following points before repair.

Failure	Possible cause	Solution
The unit can not be started.	The power supply does not connect or improper phase sequence.	Connect the power supply or change two random phase.
	Electrical leakage of air-conditioning unit causes tripping of leakage switch.	Contact the nearest service center.
	The voltage is too low.	Contact the dealer.
	The control loop has failure.	Contact the nearest service center.
The unit operates for a while and then stops.	Air outlet port or intake port of the unit is blocked.	Move the obstacles.
	There is obstacle in front of the condenser.	Move the obstacles.
	The control loop is abnormal.	Contact the nearest service center.
Poor cooling effect.	Air filter is dirty.	Clean air filter.
	Air outlet port or intake port of indoor unit or outdoor unit is blocked.	Move the obstacles.
	Too many persons or a heat source in the Room.	If possible, clear heat sources.
	Doors or windows are open.	Close windows and doors.
	Refrigerant leakage.	Contact the nearest service center.

Note: After carrying out the check of the above items and taking relevant measures to solve the problems found but the air-conditioning unit still does not function well, please stop the operation of the unit immediately and contact the nearest service center. Only ask professional serviceman to check and repair the unit.

9 Unit Function

9.1 Setting of Double Indoor Room Sensors

This series of Rooftop Packaged Unit has two indoor room sensors. One is located at the air intake of the unit and the other one is located inside the wire controller.

User can select one from the two indoor room sensors on the basis of the engineering requirement.

(Refer to the section of wire controller instructions for detailed operation.)

9.2 Checking of Outdoor Ambient Temperature

The outdoor ambient temperature can be checked on the wire controller for the convenience of users before going out.

(Refer to the section of wire controller instructions for detailed operation.)

10 Error Code Meaning

Number	Error code	Error	Remarks
1	E1	Compressor high pressure protection	
2	E2	Indoor anti-freeze protection	
3	E3	Compressor low pressure protection, refrigerant lack protection and refrigerant collecting mode	
4	E4	Compressor high discharge temperature protection	
5	E6	Communication error	
6	E8	Indoor fan motor error	
7	F0	Indoor ambient temperature sensor error	
8	F1	Evaporator temperature sensor error	
9	F2	Condenser temperature sensor error	
10	F3	Outdoor ambient temperature sensor error	
11	F4	Discharge temperature sensor error	
12	F5	Temperature sensor error of wired controller	

Number	Error code	Error	Remarks
13	C5	Capacity code error	
14	EE	Outdoor memory chip error	
15	PF	Electric box sensor error	
16	H3	Compressor overload protection	
17	H4	Overloading	
18	H5	IPM protection	
19	H6	DC fan motor error	
20	H7	Drive desynchronizing protection	
21	Lc	Activation failure	
22	Ld	Compressor phase sequence protection	
23	LE	Compressor stalling protection	
24	LF	Power protection	
25	Lp	Indoor and outdoor mismatch	
26	U7	4-way valve direction changing protection	
27	P0	Drive reset protection	
28	P5	Over-current protection	
29	P6	Communication error between main control and drive	
30	P7	Drive module sensor error	
31	P8	Drive module over temperature protection	
32	P9	Zero passage protection	
33	PA	AC current protection	
34	Pc	Drive current error	
35	Pd	Sensor connecting protection	
36	PE	Temperature drift protection	
37	PL	Bus low voltage protection	
38	PH	Bus high voltage protection	
39	PU	Charge loop error	
40	PP	Input voltage abnormality	
41	ee	Drive memory chip error	

Number	Error code	Error	Remarks
42	08	Defrosting	
43	09	Oil return	
44	HC	pfC protection	
45	C4	ODU jumper cap failure	
46	d1	DRED1 mode	
47	d2	DRED2 mode	
48	d3	DRED3 mode	
49	E9	Water overflow protection	
50	EL	Emergency Stop(Fire alarm)	

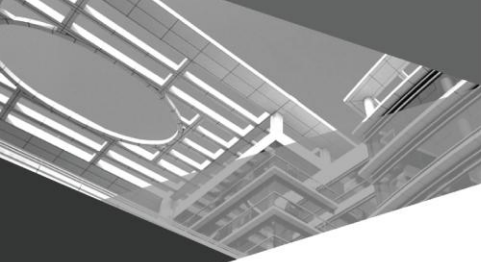
Number	Error code	Error	Remarks
1	AL	Fan DC busbar under voltage protection	
2	AH	Fan DC busbar over voltage protection	
3	AA	Fan AC current protection (input side)	
4	A1	Fan IPM module protection	
5	AF	Fan PFC abnormality	
6	Ac	Fan startup failure	
7	Ad	Fan Missing phase	
8	A0	Fan Drive module resetting	
9	UL	Fan current protection	
10	UP	Fan power protection	
11	AE	Fan Current sensor malfunction	
12	AJ	The Fan motor in loss of synchronization	
13	A6	Malfunction from Fan driving part to main-control communication	
14	A8	Overheat protection of Fan radiator	
15	A9	Fan radiator sensor malfunction	
16	An	Fan Drive Storage chip malfunction	
17	AU	Fan Charge circuit malfunction	

Number	Error code	Error	Remarks
18	AP	Fan AC input voltage abnormality	
19	Ar	Fan driver board environment temperature sensor malfunction	
20	U9	Fan AC contactor protection or input zero crossing error	

Note: These error codes only show on “88” display of the main board.

Note: When the unit is connected with the wired controller, the error code will be H6 shown on it.

Note: While these error codes show on “88” display of the main board and then _1 or _2 shows on it.



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070

Tel: (+86-756) 8522218

Fax: (+86-756) 8669426

E-mail: gree@gree.com.cn www.gree.com



600005060784