

FLEXX

Installation & Owner's Manual Indoor Unit

Original Instructions

Air Conditioners

Air Handlers

Models:

FLEXX24HP230V1AH

FLEXX36HP230V1AH

FLEXX48HP230V1AH

FLEXX60HP230V1AH

Thank you for choosing our product.

Please read this Installation & Owner's Manual carefully before operation and retain it for future reference.

If you lose this Manual, please contact your local distributor or visit www.greecomcomfort.com/resources now to download and file the electronic version.

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. Contact a licensed HVAC professional for maintenance, if necessary.
- (5) When the product is faulted and cannot be operated, please contact a licensed HVAC professional as soon as possible by providing the following information.
 - 1) Contents of nameplate of product (model, cooling/heating capacity, product No., serial number and date of manufacture).
 - 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. We continuously seek to improve our products. We reserve the right to make necessary revisions in the product from time to time

for sales or production purposes and reserve the right to revise the contents without further notice.

- (7) If the power cord is damaged, it must be replaced by a licensed HVAC contractor or electrician.
- (8) Gree Electric Appliances Inc. of Zhuhai assumes no responsibility for personal injury, property loss or equipment damage caused by improper installation and commissioning, unnecessary maintenance, or not following relevant national rules and regulations, industrial standards and requirements in this instruction manual.
- (9) 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) Altering, changing, maintaining or using the product with other equipment without following 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) Operating, repairing or servicing the unit without following the 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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This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can dispose of this product for environmental safe recycling.




1 Safety Precautions


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.

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory--authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing. Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and National Electrical Code (NEC) for special requirements. Recognize safety information. This is the safety--alert symbol .

When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, **CAUTION** and **NOTICE**. These words are used with the safety--alert symbol.

 **DANGER** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 **WARNING** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 **CAUTION** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE Indicates important but not hazard-related information, used to indicate risk of property damage.

⚠ WARNING**Electrical shock hazard:**

Failure to follow this warning could result in personal injury or death.

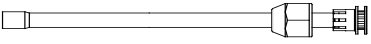
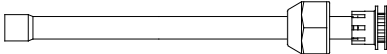
Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

2 Product Introduction

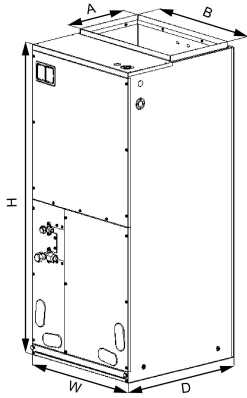
2.1 Product Description

GREE air handlers offer the perfect combination of superior product quality, operating efficiency, operating sound levels and value for money. The condensing unit uses the environmentally friendly refrigerant R410A, which is chlorine-free to help prevent damage to the ozone layer.

2.2 Optional Accessories

Indoor unit accessories				
No.	Name	Appearance	Q'ty	Usage
1	Adapter pipe		1	Connect the unit with the liquid pipe
2	Adapter pipe		1	Connect the unit with the gas pipe

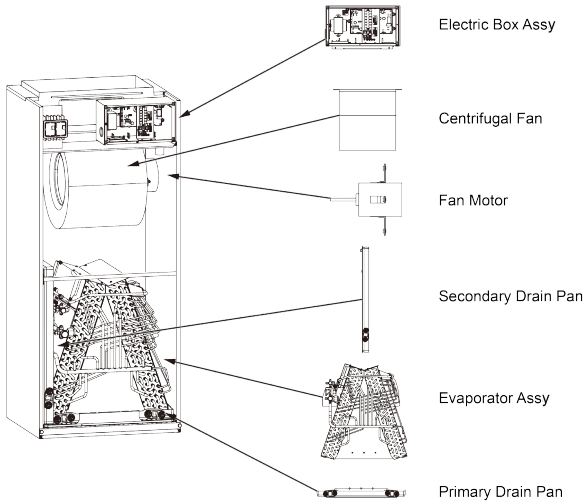
2.3 Physical Dimension



Unit: inch(mm)

Model	Dimension				
	W	D	H	A	B
FLEXX24HP230V1AH FLEXX36HP230V1AH	21-1/4(540)	21-1/4(540)	48-1/4(1224)	11-5/8(295)	20(508)
FLEXX48HP230V1AH FLEXX60HP230V1AH	24-3/4(630)	21-1/4(540)	57(1448)	11-5/8(295)	20(508)

2.4 Names of Main Parts



2.5 General Information

Model	Cooling capacity(ton)	Optional electric heater	(KW)
FLEXX24,36HP230V1AH	2.0 / 3.0	FLEXXHTR5KW	5
FLEXX24,36HP230V1AH	2.0 / 3.0	FLEXXHTR8KW	8
FLEXX36,48,60HP230V1AH	3.0 / 4.0 / 5.0	FLEXXHTR10KW	10
FLEXX48,60HP230V1AH	4.0 / 5.0	FLEXXHTR15KW	15
FLEXX48,60HP230V1AH	4.0 / 5.0	FLEXXHTR20KW	20

Model	Motor @ 230V ~, 60Hz	
	HP	FLA
FLEXX24HP230V1AH FLEXX36HP230V1AH	1/2	2.1
FLEXX48HP230V1AH FLEXX60HP230V1AH	1	3.2

Model	Filter size
FLEXX24HP230V1AH FLEXX36HP230V1AH	19 1/4 x 20 1/4 x 1/2 (490×516×15)
FLEXX48HP230V1AH FLEXX60HP230V1AH	20 1/2 x 20 1/4 x 1/2 (525×516×15)

3 Preparation for Installation

3.1 Pre-Installation Instruction 3.1.1 Checking

Product Received

After receiving the product, please check if there is any damage caused by 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.

3.1.2 Before 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.

3.1.3 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.

3.1.4 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.

3.2 Important Safety Instructions

Recognize safety symbols, words, and labels

The following symbols and labels are used throughout this manual to indicate

immediate or potential hazards. It is the owner's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of serious personal injury or death, property damage and/or product damage.

⚠ DANGER Immediate hazards which will result in property damage, product damage, severe personal injury or death.

⚠ WARNING Hazards or unsafe practices could result in property damage, product damage, severe personal injury or death.

NOTICE Hazards or unsafe practices which may result in property damage, product damage, severe personal injury or death.

⚠ WARNING Before serving or installing this equipment. The electrical power to this unit must be in the "off" position. Caution, more than one disconnect may exist. Failure to observe this warning may result in an electrical shock that can cause personal injury or death.

⚠ WARNING

The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary due to the passage of laws. A certified technician must perform the installation and service of this product. Should questions arise, contact your local EPA office.

⚠ WARNING

Due to high system pressure and electrical shock in potential, installation and service work can be dangerous. Only trained and qualified persons are permitted to install or service this equipment. Observe all warnings contained in this manual and labels/tags attached to the equipment.

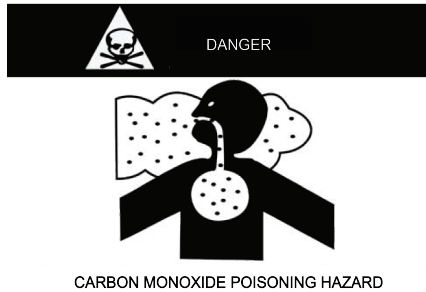
⚠ WARNING

This product is factory shipped for use with a 208/230V-1Ph-60Hz electrical power supply. This air handler must not be reconfigured to operate with any other power supply.

⚠ WARNING

The unit must have an uninterrupted, unbroken electric grounding to minimize the possibility of personal injury if an electric fault occurs. The electric grounding

circuit may consist of an appropriate sized power cord which connected with the grounding piece located in the unit control box and also connecting to the building electric service panel. Other methods of grounding are permitted if performed in accordance with the “National Electric Code” (NEC)/ “American National Standards Institute” (ANSI)/ “National Fire Protection Association” (NFPA) 70 and local/state codes. In Canada, electric grounding conforms to the Canadian electric code CSA c22.1. failure to observe this warning can result in electrical shock that can cause personal injury.



Special warning for installation of furnaces or air handling units in enclosed areas, such as garages, utility rooms or parking areas.

Carbon monoxide producing devices (such as an automobile, space heater, gas water heater, etc.) should not be operated in enclosed areas such as unventilated garages, utility rooms or parking areas because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area such as a garage, utility room or parking area and a carbon monoxide producing device is operated therein, there must be adequate ventilation directly to outside.

This ventilation is necessary to avoid the danger of CO poisoning which can occur if a carbon monoxide producing device continues to operate in the enclosed area. Carbon monoxide emission can be (re)circulated throughout the building if the furnace or air handler is operating in any mode.

CO can cause serious illness including permanent brain damage or death.

4 Installation

4.1 Unit Inspection

Upon delivery, inspect the unit for damage. Any damage must be reported immediately to the carrier. Do not install such an equipment damaged by freight which determines the integrity and safety of the unit.

Please check the equipment model number to ensure the unit is appropriately sized for the condensing unit.

If an incorrect unit is supplied, it must not be installed and it is to be returned to the supplier. The manufacturer assumes no responsibility for the installation of incorrectly delivered units. The evaporator coil contains high-pressure inert gas for holding charge.

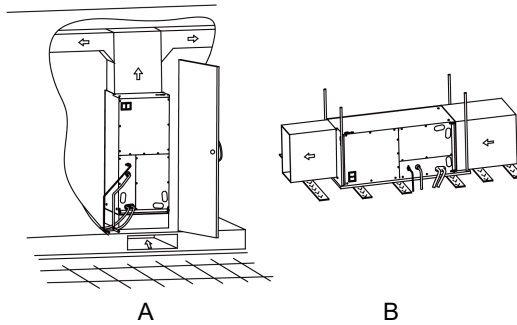
4.2 Location

⚠ WARNING This air handler is designed for indoor installation only. Do not install it outdoors.

When installing the air handler, take consideration to minimize the length of refrigerant tubing as much as possible. Do not install the air handler in a location either above or below the condenser that violates the instructions provided with the condenser. Service clearance is to take precedence. Allow a minimum of 24" in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. See local and state codes for requirements. When installing this unit in an area that may become wet, elevate the unit with a sturdy, non-porous material. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage.

This air handler is designed for a complete supply and return ductwork system. Do not operate this product without all ductwork attached.

Based upon the actual conditions, if air handler is installed as Fig. A or Fig. B make sure that there is enough space for care and maintenance and the air handler is not accessible to the general public.



4.3 Piping Work

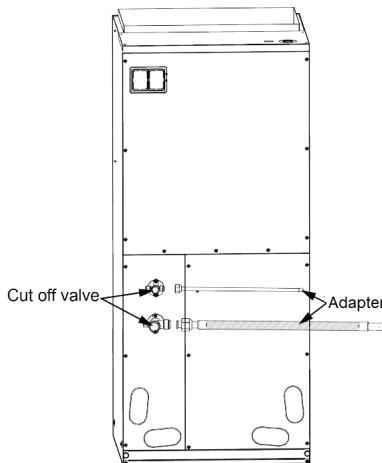
4.3.1 Specification of Connection Pipe

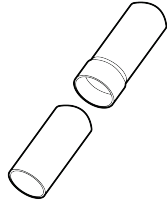
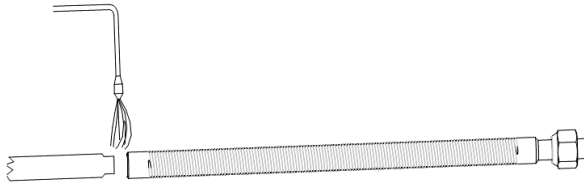
Model	External diameter (inch)	
	Gas pipe	Liquid pipe
FLEXX24HP230V1AH	Φ3/4	Φ3/8
FLEXX36HP230V1AH		
FLEXX48HP230V1AH		
FLEXX60HP230V1AH		

4.3.2 Piping Preparation

4.3.2.1 Solder Connection

All cut ends are to be round, burr free, and cleaned. Failure to follow this practice increases the chances for refrigerant leakage.



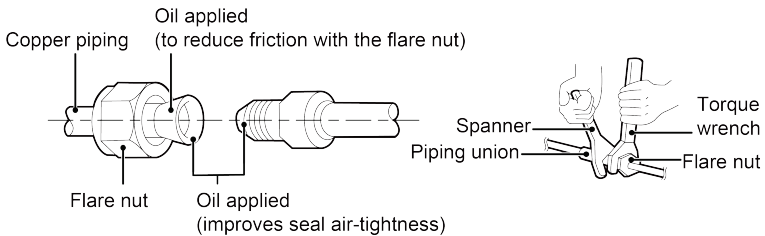


Line set size matches service valve connection



Do not crimp service valve connector when pipe is smaller than connector

4.3.2.2 Screw Connection

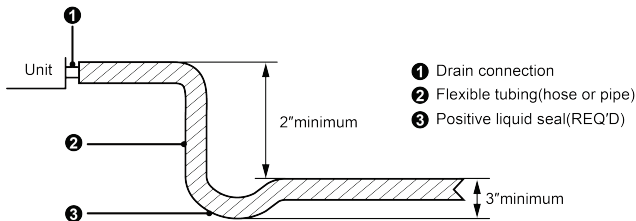


Pipe diameter (inch)	Tightening torque (N·m)
Φ1/4	15-30
Φ3/8	35-40
Φ1/2	45-50
Φ5/8	60-65
Φ3/4	70-75
Φ7/8	80-85

4.4 Condensate Removal

- (1) Do not connect the condensate drain pipe into sewer pipe or other pipelines which are likely to produce corrosive or bad odors to prevent the smell from entering indoors and/or corroding the unit.

- (2) Do not connect the condensate drain pipe to any rain drainage pipe to prevent rain water from backing up and causing property loss or personal injury.
- (3) Condensate drain pipe should be connected into dedicated drain system for the air conditioner.
- (4) The drain pan has primary and secondary drain connections. Condensate removal is performed by attaching a 3/4" PVC pipe to the evaporator coil pan and terminated in accordance with local or state Plumbing/HVAC codes. The installation must include a "P" style trap that is located close to the evaporator coil. Do not over-tighten the drain connection to prevent possible damage to the evaporator drain pan. See the following figure for details of a typical condensate line "P" trap.



4.5 Ductwork

This air handler is designed for a complete supply and return ductwork system.

⚠ WARNING

Do not operate the unit without all ductwork attached and completed.

Inadequate ductwork restricts airflow and can result in improper performance and compressor or heater failure.

Ductwork is to be constructed in a manner that limits restrictions and maintains suitable air velocity. Ductwork is to be sealed to the unit in a manner to prevent air leakage and infiltration.

Return ductwork: Do not terminate the return ductwork in an area that can introduce toxic or objectionable fumes/odors into the ductwork. The return ductwork is to be introduced into the air handler bottom (up flow configuration).

Return Air Filters: each installation must include a return air filter. This filter may be installed at the air handler or externally such as a return air filter grille.

4.6 Electric Heater

The air handlers listed in this manual do not have factory installed electric heat. Electric heat is available as an accessory. Please refer to installation instructions provided with heater kit for the correct installation procedure.

⚠ WARNING Refer to the “installing electric heater” section of this manual and the instructions provided with the heater kit for the correct installation procedure.

⚠ WARNING The electrical characteristics of the air handler, the electric heater kit, and the supply power should be identical. This air handler does not have factory installed electric heater. Electric heater is available as an accessory. If installing this option, the only heater kits that can be used are the series as indicated below.

4.6.1 Electric Heater Kits Available

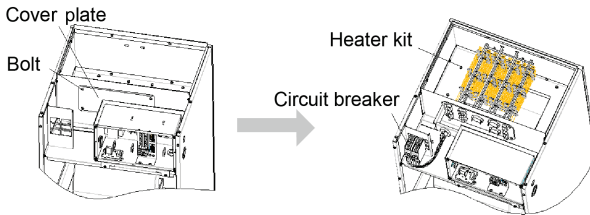
SEE PAGE 4 FOR HEATER KIT OPTIONS

4.6.2 Electric Heater Kits Installation

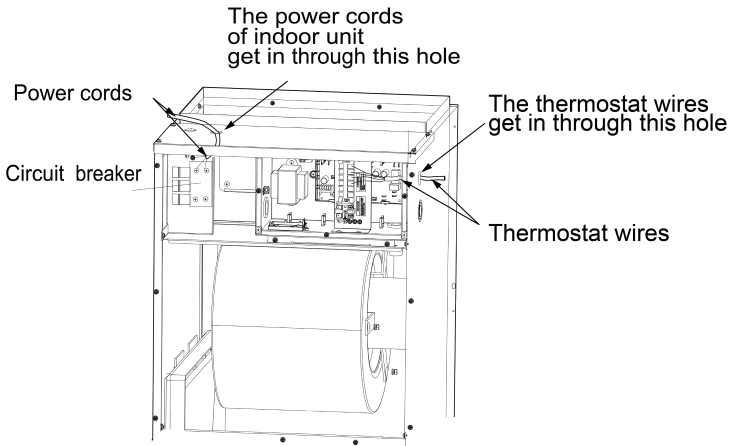
⚠ CAUTION

- (1) Ensure that the power supply is disconnected prior to installing the heater kit.
- (2) A means of strain relief and conductor protection must be provided at the supply wire entry into cabinet.
- (3) Use copper conductors only.
- (4) Installation must follow national electric code and other applicable codes.
- (5) If this appliance is installed in an enclosed area such as a garage or utility room with any carbon monoxide producing source, ensure the area is properly ventilated.
 - 1) Refer to the Table for appropriate heater kit.
 - 2) Check any physical damage, do not install damaged heater kit.
 - 3) Remove the upper access panel from air handler.
 - 4) Remove cover plate from air handler.
 - 5) Slide the heater kit in to the slot and secure element plate with previously removed screws.

- 6) Insert power leads into the circuit breaker lugs or stripped red and black wires (for heater kit without circuit breaker) and tighten.
- 7) Connect ground wire to ground lug.
- 8) Knock off appropriate area of the plastic circuit breaker cover on the access panel of the air handler. Knock off the holes according to the actual installation number and positions of circuit breakers. If circuit breaker is not installed, do not knock off the holes; otherwise, electric shock may occur.
- 9) Replace access panel and check operation.



- 10) Connection of power cords and thermostat wires.



4.7 Electrical Installation

4.7.1 Requirement and Notice on Electrical Installation

⚠ WARNING

The electrical installation for the air conditioner should observe the following requirements:

- ①. The electrical installation must be conducted by professionals in compliance with local laws and regulations and the instructions in this manual. Never

extend the power cords. The electric circuit must be equipped with a circuit breaker and air switch both with sufficient capacity.

- ②. The unit's operating power must be within the nominal range stated in the instruction manual. Use a specialized power circuit for the air conditioner. Do not draw power from another power circuit.
- ③. The air conditioner circuit should be at least 1.5m away from any inflammable surface.
- ④. The external power cords, the thermostat wires and thermostat must be effectively fixed.
- ⑤. The external power cords, the thermostat wires and thermostat can't directly contact any hot objects. For example: they must not contact chimney pipes, warm gas pipes or other hot objects.
- ⑥. The external power cords, the thermostat wires and thermostat must not be squeezed. Never pull, stretch or bend the wires.
- ⑦. The external power cords, the thermostat wires and thermostat must not collide with any metal beam or edge on the ceiling, or touch any metal burrs or sharp metal edge around.
- ⑧. Connect wires correspondingly by referring to the circuit diagram labeled on the unit or electric box. Screws must be tightened up. Slipped screws must be replaced by specialized flat-head screws.
- ⑨. Please use the power cables that are delivered along with the air conditioner. Do not change the power cables arbitrarily. Do not change the length and terminals of the power cables. If you want to change the power cables, please contact Gree's local service center.
- ⑩. Wiring terminals should be connected securely to the terminal board. Loose connection is forbidden.
 - After the electrical installation is finished, please use wire clamps to secure the power cords and the thermostat wires. Make sure the wires are not clamped too tight.
 - The wire gauge of power cord should be large enough. Damaged power cords or other wires must be replaced by specialized wires. Wiring work must be done according to national wiring rules and regulations.

4.7.2 Electrical Parameters - Without Optional Heater

Model	Power supply	Minimum circuit ampacity (A)	Maximum overcurrent protection (A)
FLEXX24HP230V1AH FLEXX36HP230V1AH FLEXX48HP230V1AH FLEXX60HP230V1AH	208/230V-1Ph-60Hz	4	15

NOTICE

- ①. Fuse is located on the main board.
- ②. Install a circuit breaker at every power terminal near the units (indoor unit and thermostat) with at least 3mm contact gap. The units must be able to be plugged or unplugged.
- ③. Circuit breaker and power cord specifications listed in the above table are determined based on the maximum power input of the units.
- ④. Specifications of power cords listed in the above table are applicable in a working condition where ambient temperature is 40°C and multi-core copper cable (e.g. YJV copper cable, with insulated PE and PVC sheath) is protected by a conduit, and is resistant to 90°C in maximum (see IEC 60364-5-52). If working condition changes, please adjust the specifications according to national standards.
- ⑤. Specifications of circuit breaker are based on a working condition where the working temperature is 40°C. If working condition changes, please adjust the specifications according to national standards.
- ⑥. Adopt 5pc of AWG18 power cords to be the communication cords between indoor unit and thermostat. The maximum length is 30m. Please select a proper length according to local conditions. Communication cords must not be twisted together.
- ⑦. The wire gauge of communication cord should not be less than AWG18. It's recommended to use AWG18 power cords as the communication cords.

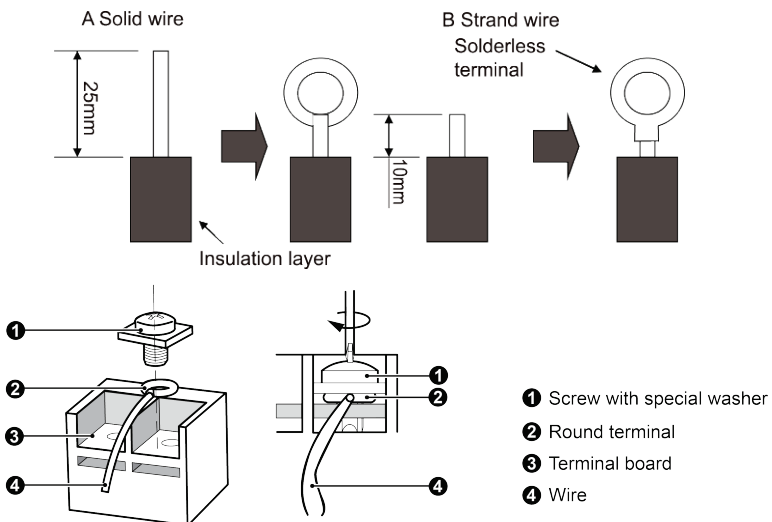
4.7.3 Connection of Power Cords and Thermostat Wires

(1) For solid wires (as shown below):

- 1) Use wire cutters to cut off the wire end and then peel away about 25mm of the insulation layer.
- 2) Use a screwdriver to unscrew the terminal screw on the terminal board.
- 3) Use nippers to bend the solid wire into a ring that fits the terminal screw.
- 4) Form a proper ring and then put it on the terminal board. Use a screwdriver to tighten up the terminal screw.

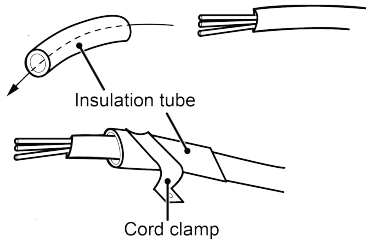
(2) For strand wires (as shown below):

- 1) Use wire cutters to cut off the wire end and then peel away about 10mm of the insulation layer.
- 2) Use a screwdriver to unscrew the terminal screw on the terminal board.
- 3) Use a round terminal fastener or clamp to fix the round terminal securely on the peeled wire end.
- 4) Locate the round terminal conduit. Use a screwdriver to replace it and tighten up the terminal screw (as shown below).



(3) How to connect the thermostat wires and power cords.

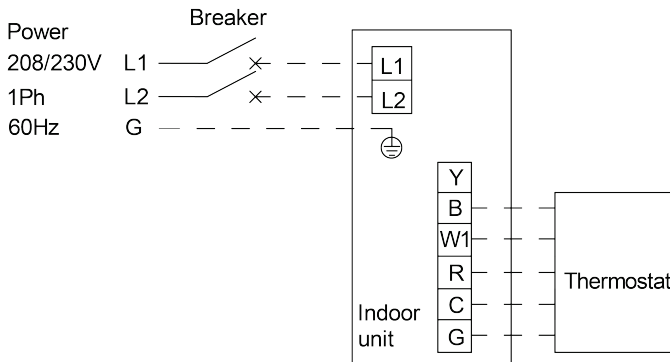
Lead the thermostat wires and power cords through the insulation tube. Then fix the wires with wire clamps (as shown in the following figure.)



⚠ WARNING

- ①. Before operating, please confirm the indoor unit and thermostat are powered on.
- ②. Match the terminal numbers and wire colors with the colors indicated in the indoor unit.
- ③. Wrong wire connection may burn the electrical components.
- ④. Connect the wires securely to the wiring box. Incomplete installation may lead to fire hazard.
- ⑤. Please use wire clamps to secure the external covers of connecting wires. (Insulators must be clamped securely; otherwise, electric leakage may occur.)
- ⑥. Ground wire should be connected.

Wires of indoor unit (Only for air handler without electric heater)



⚠ WARNING

- ①. High and low voltage wires should be led through different rubber grommets of the electric box cover.
- ②. Do not bundle up the thermostat wires or lay them side by side, otherwise errors will occur.
- ③. High and low voltage wires should be secured separately. Secure the former ones with big clamps and the latter ones with small clamps.
- ④. Use screws to tighten up the thermostat wires and power cords of unit on terminal board. Wrong connection may lead to fire hazard.
- ⑤. If the thermostat wires of unit and power cords are not correctly connected, the air conditioner may get damaged.
- ⑥. Ground the unit through connecting the ground wire.
- ⑦. The units should comply with applicable local and national rules and regulations on power consumption.
- ⑧. When connecting the power cords, make sure the phase sequence of the power supply matches with the corresponding terminals, otherwise the compressor will get reversed and operate abnormally.

5 Installation Check and Trial Run

5.1 Checking Items after Installation

Items to be checked	Problems might happen due to improper installation	Check
Check if each parts of the unit have been installed reliably.	The unit might fall off, vibrate or emit noise.	
Check if the unit has passed through leakage test.	It may cause deficiency of cooling (heating) capacity.	
Check if the unit has been insulated properly.	It may cause condensation and water drop.	
Check if the water can be drained fluently.	It may cause condensation and water drop.	
Check if the power voltage accords with that on the nameplate.	Malfunction might happen and parts might be burned.	
Check if the wiring and pipe line has been installed correctly.	Malfunction might happen and parts might be burned.	

Items to be checked	Problems might happen due to improper installation	Check
Check if the unit has been earthed soundly.	Hazard of electricity leakage.	
Check if the wiring conforms to the wire gage.	Malfunction might happen and parts might be burned.	
Check if there is obstruction blocking the air inlet/outlet.	It may cause deficiency of cooling (heating) capacity.	
Check if the piping length and refrigeration charging volume has been recorded.	Uncertain about the refrigerant charging volume.	
Check if the piping connection and valves have been set properly.	It may cause unit abnormality and damage the unit.	
Make sure there is no crack among air return and supply pipe.	It may cause air leak, vibration and noise.	
Check if the panel is mounted securely.	It may cause air leak, vibration and condensation.	

5.2 Trial Run

5.2.1 Preparative for Trial Run

- (1) Never power on the unit until all the installation work has been done.
- (2) All the control circuit and wiring has been connected correctly and soundly. Valves on the gas and liquid line should be completely open.
- (3) All the scattered objects should be removed, especially metal filing, thrum and clip.
- (4) Check if the unit appearance and piping system has been damaged during transportation or handling.
- (5) Check if the terminals are loose and the phases are correct.

5.2.2 Trial Run

- (1) Trial run can be operated by professional personnel only after above items have been checked (items to be checked as per actual condition).
- (2) Power on the unit and press ON/OFF button to activate.
- (3) After compressor start-up, immediately stop the unit if you hear an abnormal sound.
- (4) Trial run under several modes and check if the unit operates normally.

6 Common Malfunction and Elimination

If the unit doesn't run normally, please check the following items before ask for service.

Phenomenon	Reason	Treatment
The unit can not be activated.	The unit doesn't connect with power supply.	Connect with power supply.
	Low voltage.	Check if circuit voltage is within rated scope.
	Fuse broken or breaker trips off.	Replace fuse or connect breaker.
The unit operates but stops immediately.	Air inlet/outlet of indoor unit is blocked.	Remove obstacles.
Abnormal cooling or heating.	Air inlet/outlet of indoor unit is blocked.	Remove obstacles.
	Inappropriate temperature setting.	Adjust setting at thermostat.
	Doors or windows are opened.	Close the door or windows.
	Direct sunshine.	Draw curtain or louver.
	Too much heat source in the room.	Reduce heat source.
	Filter screen is blocked by dirt.	Clean the filter.

NOTE: If reasons are still unclear after checking above items, please contact a licensed HVAC professional and provide the symptoms and detailed model information.

Following circumstances are not malfunction.

“Malfunction”		Reason
Unit doesn't run.	When unit is started immediately after it is just turned off.	Overload protection switch makes it run after 3 minutes delay.
	When power is turned on.	Standby operating for about 1 minute.
Mist comes from the unit.	Under cooling.	Indoor high humidity air is cooled rapidly.
The unit emits noise.	Slight cracking sound is heard when just turned on.	It is noise when electronic expansion valve initialization.
	There is consecutive sound when cooling.	That's sound for gas refrigerant flowing in the unit.
	There is sound when unit starts or stops.	That's sound for gas refrigerant stops flowing.
	There is slight and consecutive sound when unit is running or after running.	That's sound for operation of drainage system.
The unit blows out dust.	When unit runs after no operation for a long period.	Dust in indoor unit is blew out.
The unit emits odor.	Operating.	The room odor absorbed by the unit is blew out again.
Indoor unit still runs after switch off.	After every indoor unit receives "stop" signal, fan will keep running.	Indoor fan can be set as "ON" or "AUTO" mode. Under "ON" mode, indoor fan will keep running after switch off the unit.

7 Maintenance and Care

Scheduled service, maintenance and cleaning should be performed by professional personnel, to prolong the unit life span.

7.1 Drain Pipe

Regularly check the drain pipe for obstructions to ensure proper condensate removal.

7.2 Notice before Seasonal Use

- (1) Check if the inlet/outlet of the indoor unit is clogged.
- (2) Check if the ground wire is secured properly.
- (3) Check if the filter is correctly installed.

- (4) Check if the unit is installed securely. If there is something abnormal, please contact a licensed HVAC professional.

7.3 Maintenance after Seasonal Use

- (1) Cut off main power supply of the unit.
- (2) Clean filter screen of indoor units.
- (3) Clean the dust of sundries on the indoor units.
- (4) In the event of rusting, use the anti-rust paint to stop spreading of rust.

7.4 Parts Replacement

Purchase parts from a licensed HVAC professional if necessary.

8 After-Sales Service

If the air-conditioning unit you bought has any quality problems or is malfunctioning, please contact a licensed HVAC professional or your installing contractor.

Warranty should meet the following requirements:

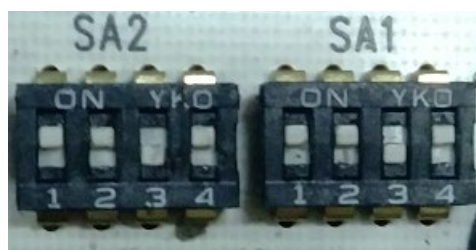
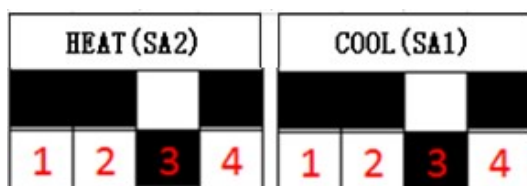
- (1) First run of the unit should be operated by a licensed HVAC professional
- (2) Only factory manufactured accessories can be used on the machine.
- (3) All the instructions listed in this manual should be followed.
- (4) Warranty will be automatically invalid if you fail to follow the items mentioned above.

9.1 Air Handler Dip Switch Settings

Default factory setting is: Low air flow setting.
"ON" side is 0, the other side is 1.

For example:

Below is the default setting of 36K: 0010 0010



24K dip switch:

Low air flow setting: 0101 (HEAT) /0101 (COOL)
Mid. air flow setting: 0110 (HEAT) /0110 (COOL)
High air flow setting: 0111 (HEAT) /0111 (COOL)

36K dip switch:

Low air flow setting: 0010 (HEAT) /0010 (COOL)
Mid. air flow setting: 0011 (HEAT) /0011 (COOL)
High air flow setting: 0100 (HEAT) /0100 (COOL)

48K dip switch:

Low air flow setting: 1011 (HEAT) /1011 (COOL)
Mid. air flow setting: 1100 (HEAT) /1100 (COOL)
High air flow setting: 1101 (HEAT) /1101 (COOL)

60K dip switch:

Low air flow setting: 1000 (HEAT) /1000 (COOL)
Mid. air flow setting: 1001 (HEAT) /1001 (COOL)
High air flow setting: 1010 (HEAT) /1010 (COOL)



U.S. CONTACT INFORMATION
TRADEWINDS, LLC

www.greecomfort.com/resources
E-mail: info@twclimate.com
Contractor Support 888-850-7928 | Mon-Fri 8AM-5PM EDT



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



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