



# Owner's Manual

Original Instructions

Air Conditioners | **Air Handler**



Thank you for choosing our product. 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.unitedappliances.com](http://www.unitedappliances.com) for the electronic version.

NOTE : Actual product may be different from graphics, please refer to actual products.

**Models:**

UADH24-DD3D1

UADH30-DD3D1

UADH36-DD3D1

UADH42-DD3D1

UADH48-DD3D1

UADH60-DD3D1

## 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 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 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.

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# 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.

## **WARNING**

### **PROPOSITION 65:**

Respirable particles of fiberglass are known to State of California to cause cancer. This appliance contains fiberglass insulation.

California Proposition 65 warnings are required for certain products, which are not covered by the OSHA standards. All manufacturer products meet current federal OSHA Guidelines for safety.

Products that contain or produce any of the more than 600 listed chemicals known in California can cause cancer or birth defects, such as fiberglass insulation, lead in brass and natural gas combustion products. Warnings are issued for such products sold in California as required by California Proposition 65.

All “new equipment” shipped for sale in California will have labels stating that the product contains and /or produces Proposition 65 chemicals. We cannot always know “when, or if” products will be sold in the California market. Although we have not changed our processes, having the same label on all our products facilitates manufacturing and shipping.

## **WARNING**

All phases of this installation must conform to NATIONAL, STATE AND LOCAL CODES. If it is required for additional information, please contact your local distributor.

## **WARNING**

The unit must be permanently grounded. Failure to do so can lead to electrical shock causing personal injury or death.

## **WARNING**

The material of plenum and ductwork must meet the standard NFPA 90B.

The supply air plenum or duct must have a solid sheet metal bottom piece directly after the air handler unit with no openings, registers or flexible air ducts located in it.



The first 6 inches of supply air plenum and ductwork must be constructed of sheet metal as required by NFPA 90B. Metal plenum or duct may be connected to the non-combustible floor base for downflow. Exposing combustible non-metal material to the supply opening of a downflow unit can cause a fire resulting in property damage, personal injury or death. If flexible supply air ducts are used they may be located only in the side walls of the rectangular plenum, a minimum of 6 inches from the solid bottom.

## 2 Product Introduction

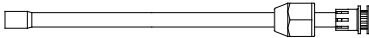
### 2.1 Product Description

The UA air handler 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.

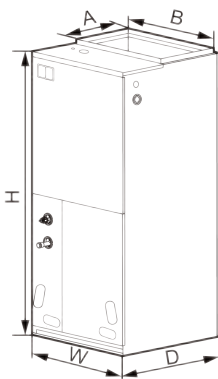
### 2.2 Operating Range

—	Cooling	Heating
Indoor temperature	64.4°F (18°C)~89.6°F (32°C)	50°F (10°C)~80.6°F (27°C)

### 2.3 Optional Accessories

Indoor unit accessories				
No.	Name	Appearance	Q'ty	Usage
1	Throw-over pipe		1	Connect the unit with the liquid pipe

### 2.4 Physical Dimension

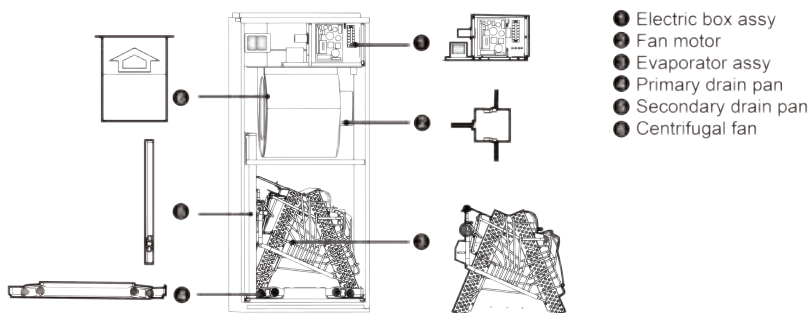


Unit: inch(mm)

Model	Dimension				
	W	D	H	A	B
UADH24-DD3D1	18-1/8	21-1/4	43-1/2	11-5/8	16-3/4
UADH30-DD3D1	(460)	(540)	(1105)	(295)	(426)
UADH36-DD3D1	21-1/4	21-1/4	48-3/16	11-5/8	20
UADH42-DD3D1	(540)	(540)	(1224)	(295)	(508)
UADH48-DD3D1	24-13/16	21-1/4	52	11-5/8	20
UADH60-DD3D1	(630)	(540)	(1320)	(295)	(508)

**NOTE:** The outdoor unit models that can be matched with the indoor unit can be found on the AHRI website.

## 2.5 Names of Main Parts



## 2.6 General Information

Unit: mm

Model	Filter size
UADH24-DD3D1	420×516×15
UADH30-DD3D1	420×516×15
UADH36-DD3D1	490×516×15
UADH42-DD3D1	490×516×15
UADH48-DD3D1	525×516×15
UADH60-DD3D1	525×516×15

### NOTES:

- ①. Based upon W/nominal tonnage, dry coil and filter should be installed.
- ②. Use 0.96 as approximate SCFM correction factor for wet coil.

## 2.7 Dip Switch Configuration

Set the indoor fan speed through the eight dip switches of the indoor main control board. The higher level, the higher speed of the indoor unit fan. Operation Instruction is below:

Dip switch settings must be completed before power on the unit.

After the unit is shut down or stopped at the temperature point, the indoor unit will delay for a few minutes and then shut down. The refrigeration can realize the drying function, relieve the mold of the air duct, and the heating can blow the waste heat and relieve the heat accumulation in the air duct.

During installation and debugging, pay attention to check whether the thermostat has set the fan delay and shutdown time. If the thermostat has been set, the actual delay and shutdown time of the fan is equal to the thermostat setting time plus the fan delay time of the indoor unit.

Model	Level	Heat (SA2)				Cool (SA1)			
UADH24-DD3D1	Level 1	1	0	0	0	0	0	0	0
	Level 2	1	0	0	1	0	0	0	0
	Level 3	1	0	1	0	0	0	0	0
	Level 4-Default	1	0	1	1	0	0	0	0
	Level 5	1	1	0	0	0	0	0	0
	Level 6	1	1	0	1	0	0	0	0
	Level 7	1	1	1	0	0	0	0	0
	Level 8	1	1	1	1	0	0	0	0
UADH30-DD3D1	Level 1	0	0	0	0	0	0	0	0
	Level 2	0	0	0	1	0	0	0	0
	Level 3	0	0	1	0	0	0	0	0
	Level 4-Default	0	0	1	1	0	0	0	0
	Level 5	0	1	0	0	0	0	0	0
	Level 6	0	1	0	1	0	0	0	0
	Level 7	0	1	1	0	0	0	0	0
	Level 8	0	1	1	1	0	0	0	0
UADH36-DD3D1	Level 1	1	0	0	0	0	0	0	0
	Level 2	1	0	0	1	0	0	0	0
	Level 3	1	0	1	0	0	0	0	0
	Level 4-Default	1	0	1	1	0	0	0	0
	Level 5	1	1	0	0	0	0	0	0
	Level 6	1	1	0	1	0	0	0	0
	Level 7	1	1	1	0	0	0	0	0
	Level 8	1	1	1	1	0	0	0	0

Model	Level	Heat (SA2)				Cool (SA1)			
UADH42-DD3D1	Level 1	0	0	0	0	0	0	0	0
	Level 2	0	0	0	1	0	0	0	0
	Level 3	0	0	1	0	0	0	0	0
	Level 4-Default	0	0	1	1	0	0	0	0
	Level 5	0	1	0	0	0	0	0	0
	Level 6	0	1	0	1	0	0	0	0
	Level 7	0	1	1	0	0	0	0	0
	Level 8	0	1	1	1	0	0	0	0
UADH48-DD3D1	Level 1	1	0	0	0	0	0	0	0
	Level 2	1	0	0	1	0	0	0	0
	Level 3	1	0	1	0	0	0	0	0
	Level 4	1	0	1	1	0	0	0	0
	Level 5	1	1	0	0	0	0	0	0
	Level 6-Default	1	1	0	1	0	0	0	0
	Level 7	1	1	1	0	0	0	0	0
	Level 8	1	1	1	1	0	0	0	0
UADH60-DD3D1	Level 1	0	0	0	0	0	0	0	0
	Level 2	0	0	0	1	0	0	0	0
	Level 3	0	0	1	0	0	0	0	0
	Level 4	0	0	1	1	0	0	0	0
	Level 5	0	1	0	0	0	0	0	0
	Level 6-Default	0	1	0	1	0	0	0	0
	Level 7	0	1	1	0	0	0	0	0
	Level 8	0	1	1	1	0	0	0	0

**NOTE:** 0 means dip switch to 'on', 1 means dip switch to number.

## 2.8 Fan Performance Data

External static pressure should stay within the minimum and maximum limits shown in the table below in order to ensure proper operation of both cooling and heating operation.

Model	UADH24-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1030	900	-	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1080	960	900	-	-	-	-	-	-	-	-	-

Model	UADH24-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 3(CFM)	1220	1120	1060	990	-	-	-	-	-	-	-	-
Speed 4(CFM)	1380	1250	1120	1070	1020	920	-	-	-	-	-	-
Speed 5(CFM)	1550	1490	1440	1390	1290	1180	1090	970	-	-	-	-
Speed 6(CFM)	1620	1540	1500	1450	1400	1360	1250	1130	960	-	-	-
Speed 7(CFM)	1700	1630	1580	1530	1450	1400	1370	1270	1150	970	-	-
Speed 8(CFM)	1750	1700	1650	1600	1590	1500	1420	1330	1200	1050	950	-

Model	UADH30-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1110	980	-	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1160	1040	980	-	-	-	-	-	-	-	-	-
Speed 3(CFM)	1300	1200	1140	1070	-	-	-	-	-	-	-	-
Speed 4(CFM)	1460	1330	1200	1150	1100	1000	900	-	-	-	-	-
Speed 5(CFM)	1630	1570	1520	1470	1370	1260	1090	900	-	-	-	-
Speed 6(CFM)	1700	1620	1580	1530	1480	1440	1330	1210	1040	920	-	-
Speed 7(CFM)	1780	1710	1660	1610	1530	1480	1450	1350	1230	1130	960	-
Speed 8(CFM)	1800	1780	1730	1680	1670	1580	1500	1410	1280	1150	970	-

Model	UADH36-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1050	950	-	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1220	1120	1020	960	-	-	-	-	-	-	-	-
Speed 3(CFM)	1380	1260	1200	1100	950	-	-	-	-	-	-	-
Speed 4(CFM)	1630	1580	1500	1430	1370	1200	1050	970	-	-	-	-
Speed 5(CFM)	1710	1650	1600	1560	1480	1400	1250	1130	960	-	-	-
Speed 6(CFM)	1775	1725	1675	1635	1560	1495	1405	1315	1205	1040	-	-
Speed 7(CFM)	1840	1800	1750	1710	1640	1590	1500	1420	1330	1220	1100	930
Speed 8(CFM)	1870	1830	1810	1800	1760	1690	1620	1520	1440	1350	1250	1150

Model	UADH42-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1100	1000	-	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1300	1200	1100	1010	-	-	-	-	-	-	-	-
Speed 3(CFM)	1380	1260	1200	1100	950	-	-	-	-	-	-	-
Speed 4(CFM)	1710	1650	1600	1560	1480	1400	1230	1150	1080	-	-	-
Speed 5(CFM)	1775	1725	1675	1635	1560	1495	1405	1315	1205	1075	-	-
Speed 6(CFM)	1840	1800	1750	1710	1640	1590	1500	1420	1330	1220	1080	900
Speed 7(CFM)	1870	1830	1810	1800	1760	1690	1620	1520	1440	1350	1250	1150
Speed 8(CFM)	1900	1860	1840	1830	1790	1720	1650	1550	1470	1380	1280	1180

Model	UADH48-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1640	1500	-	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1680	1560	1500	-	-	-	-	-	-	-	-	-
Speed 3(CFM)	1810	1690	1620	1550	-	-	-	-	-	-	-	-
Speed 4(CFM)	1930	1830	1770	1710	1580	1480	-	-	-	-	-	-
Speed 5(CFM)	2200	2110	2040	1980	1860	1720	1620	1490	-	-	-	-
Speed 6(CFM)	2240	2190	2145	2100	2010	1870	1750	1615	1500	-	-	-
Speed 7(CFM)	2280	2240	2200	2180	2130	2080	2000	1880	1750	1600	-	-
Speed 8(CFM)	2300	2260	2220	2190	2140	2090	2040	1980	1930	1800	1700	1550

Model	UADH60-DD3D1											
Level	Static pressure:Inches W.C.(Pa)											
	0 (0)	0.1 (25)	0.15 (37)	0.2 (50)	0.3 (75)	0.4 (100)	0.5 (125)	0.6 (150)	0.7 (175)	0.8 (200)	0.9 (225)	1 (250)
Speed 1(CFM)	1660	1540	1470	-	-	-	-	-	-	-	-	-
Speed 2(CFM)	1850	1720	1650	1600	-	-	-	-	-	-	-	-
Speed 3(CFM)	1920	1800	1730	1650	1480	-	-	-	-	-	-	-
Speed 4(CFM)	2110	2000	1950	1860	1760	1640	1500	-	-	-	-	-
Speed 5(CFM)	2250	2200	2190	2140	2040	1930	1800	1670	1520	-	-	-
Speed 6(CFM)	2260	2220	2200	2170	2090	2010	1910	1760	1650	1550	-	-
Speed 7(CFM)	2300	2260	2230	2200	2150	2115	2050	1990	1920	1790	1650	1470
Speed 8(CFM)	2320	2280	2250	2230	2190	2140	2080	2040	2000	1950	1920	1890

**NOTE:** Please refer to above table for fan speed selection, and '-' indicates that the electric heater is not allowed to be used.

## 3 Preparative 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.

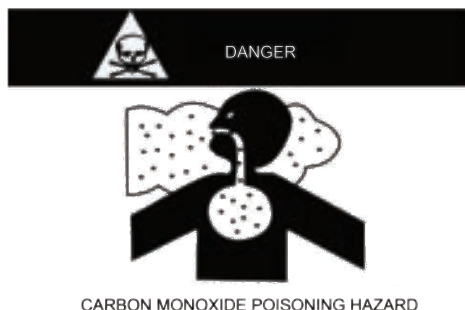
## **⚠ WARNING**

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

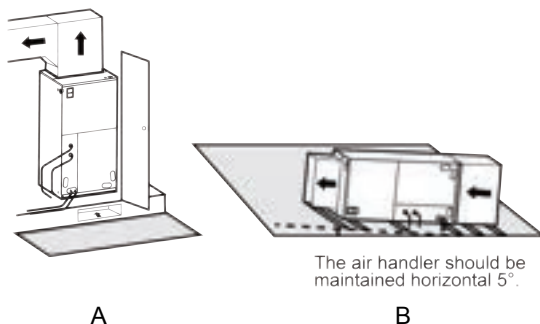
**⚠ WARNING** This air handler is designed for indoor installation only. Do not install it outdoors.

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. The supply duct must be longer than 5 feet(1.524m).

Based upon the actual conditions, if air handler is installed as Fig. A, the air handler should be concealed in a specific room or space and make sure the air handler is not accessible to the general public.

Based upon the actual conditions, if air handler is installed as Fig. B, make sure that there is enough space for care and maintenance and the height between the air handler and ground is above 2500mm. And the air handler is not accessible to the general public. And the air handler should be maintained horizontal 5° angle to ensure smooth drainage.



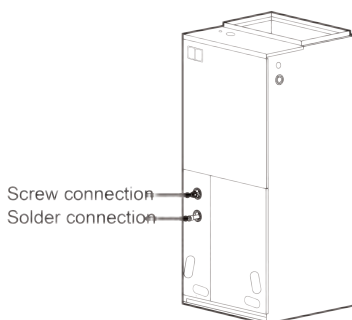
## 4.3 Piping Work

### 4.3.1 Specification of Connection Pipe

Model	External diameter (inch)	
	Gas pipe	Liquid pipe
UADH24-DD3D1 UADH30-DD3D1 UADH36-DD3D1 UADH42-DD3D1 UADH48-DD3D1 UADH60-DD3D1	$\Phi 3/4$	$\Phi 3/8$

### 4.3.2 Piping Preparation

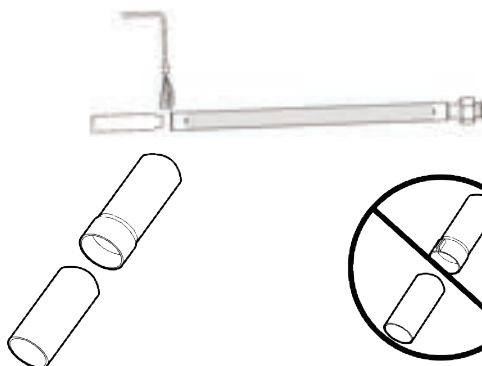
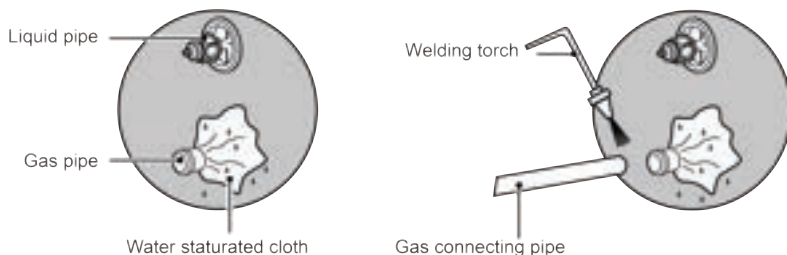
The gas pipe connection method adopts solder connection, the liquid pipe connection method is screw connection.



#### 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.

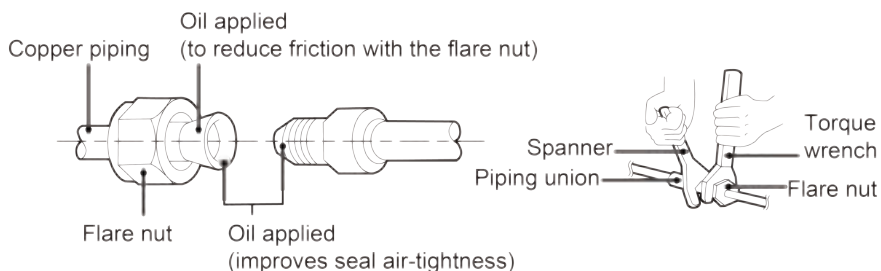
First, wrap the rubber grommet with water saturated cloth, and then weld off the cap closures from the gas pipes. Then weld the gas pipes with the connecting pipes.



Line set size matches service valve connector

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

#### 4.3.2.2 Screw Connection

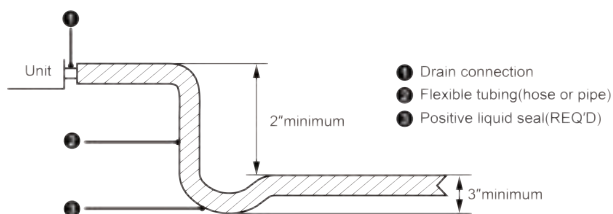


Pipe diameter (inch)	Tightening torque (N·m)
Φ1/4	15-30
Φ3/8	35-40
Φ1/2	45-50

Pipe diameter (inch)	Tightening torque (N·m)
Φ5/8	60-65
Φ3/4	70-75
Φ7/8	80-85

## 4.4 Condensate Removal

- (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 drain pan has primary and secondary drain connection. 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 closely to the evaporator coil. Do not over-tighten the drain connection in order 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**

Field ductwork must meet the National Fire Protection Association NFPA 90A, NFPA 90B and any applicable local ordinance.

Sheet metal ductwork run in unconditioned spaces must be insulated and covered with a vapor barrier. Fibrous ductwork may be used if constructed and installed in accordance with SMACNA Construction Standard on Fibrous Glass Ducts. Ductwork

must comply with National Fire Protection Association as tested by U/L Standard 181 for Class I Air Ducts. Check local codes for requirements on ductwork and insulation.

Duct system must be designed within the range of external static pressure the unit is designed to operate against. It is important that the system airflow be adequate. Make sure supply and return ductwork, grills, special filters, accessories, etc. are accounted for in total resistance. See fan performance data in this manual.

Do not operate the unit without all ductwork completed.

Do not operate this product without all ductwork attached.

Inadequate ductwork that restricts airflow 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 that will prevent leakage.

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 filtering may be performed at the air handler or externally such as a return air filter grille.

## 4.6 Electric Heater (Optional)

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 “Electric heater kits installation” 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. It is forbidden to use the electric heater other than those recommended.

**⚠ WARNING** Installation and debugging when attention to verify the switch sequence of electrical heating and fan, ensure the fan must be turned on when electric heating operation and ensure the electric heating is turned off before the fan to avoid

unsafe.

**▲ WARNING** Refer to the “Fan Performance Data” section of this manual, otherwise it is possible to cause an exception and dry risk of electric heating.

**▲ WARNING** The supply ducts that are 5 feet away from electric heating must be at least 1 foot away from other combustibles or walls.

#### 4.6.1 Electric Heater Kits Available

SN.	Kit	Description	Ref. air handler use(ton)
1	BLR 5000W/240V	Circuit breaker, 5kW heat strip	2.0/2.5/3.0/3.5/4.0/5.0
2	BLR 8000W/240V	Circuit breaker, 8kW heat strip	2.0/2.5/3.0/3.5/4.0/5.0
3	BLR 10000W/240V	Circuit breaker, 10kW heat strip	3.0/3.5/4.0/5.0
4	BLR 15000W/240V	Circuit breaker, 15kW heat strip	4.0/5.0
5	BLR 20000W/240V	Circuit breaker, 20kW heat strip	4.0/5.0

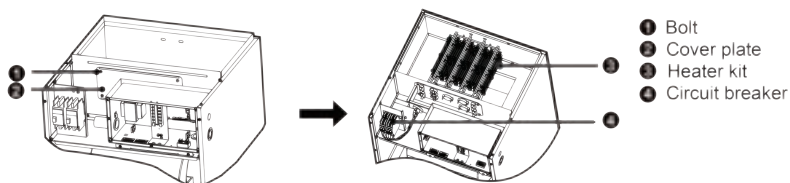
#### 4.6.2 Electric Heater Kits Installation

### ▲ CAUTION

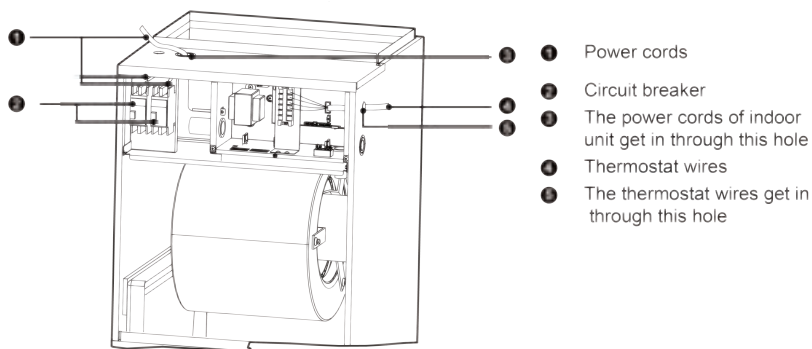
- (1) Ensure that all power supply is disconnected prior to installing the heater kit.
- (2) A means of strain relief and conductor protection must be provided at the supply wire entrance into cabinet.
- (3) Use copper conductors only.
- (4) Installation must follow national electric code and other applicable codes.
- (5) If this appliance is installed in an enclosed area such as a garage or utility room with any carbon monoxide producing appliance, 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; M6 screws are required for grounding screws when installing electric heating.
- 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 firmly to the terminal board. Loose connection is forbidden.
- ⑪. 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.
- ⑫. 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

Model	Power supply	Minimum circuit ampacity (A)	Maximum overcurrent protection (A)
UADH24-DD3D1	208/230V-1Ph-60Hz	3.5	15
UADH30-DD3D1		4.4	
UADH36-DD3D1		4.5	
UADH42-DD3D1		5.0	
UADH48-DD3D1		6.9	
UADH60-DD3D1		7.5	

### 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 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.
- ⑤. 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.
- ⑥. The wire gauge of communication cord should not be less than AWG18. It's recommended to use AWG18 power cords as the communication cords.

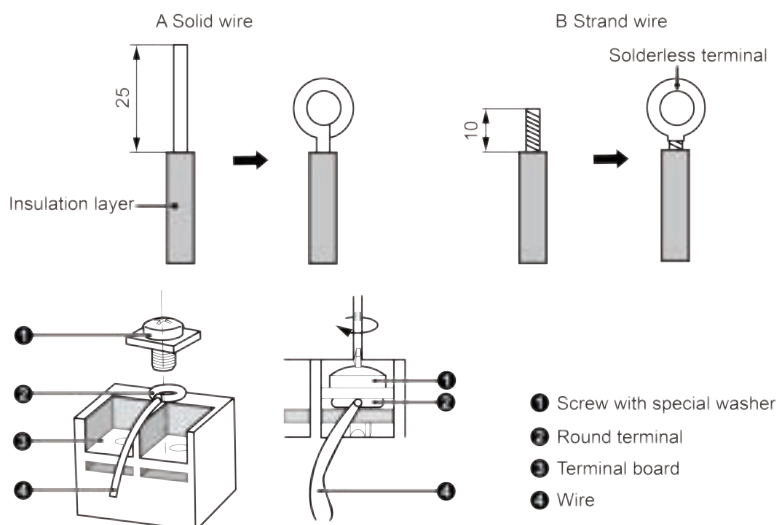
## 4.7.3 Connection of Power Cords and Thermostat Wires

- (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):

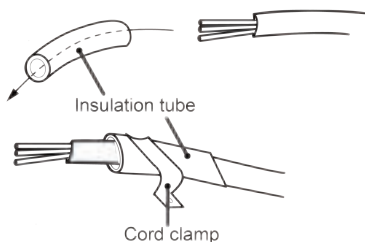
- 1) Use wire cutters to cut off the wire end and then peel away about 10mm of the insulation layer.
- 2) Use a screwdriver to unscrew the terminal screw on the terminal board.
- 3) Use a round terminal fastener or clamp to fix the round terminal firmly on the peeled wire end.
- 4) Locate the round terminal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

Unit:mm



(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.)



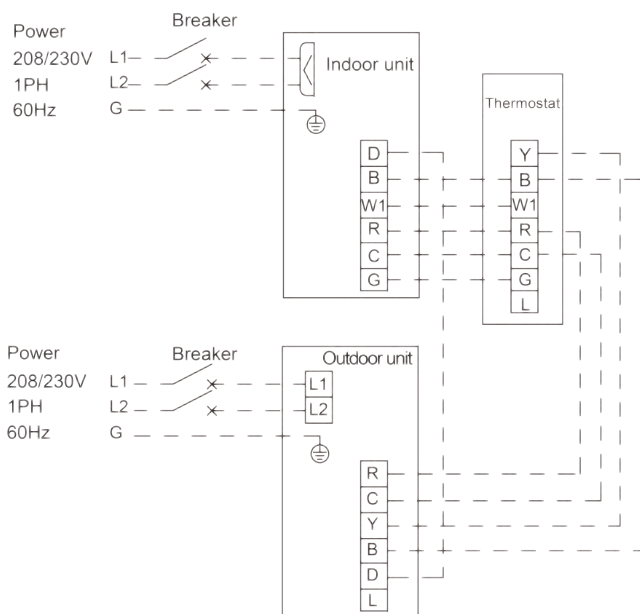
# **WARNING**

- ①. Before working, please check whether the indoor unit and thermostat are

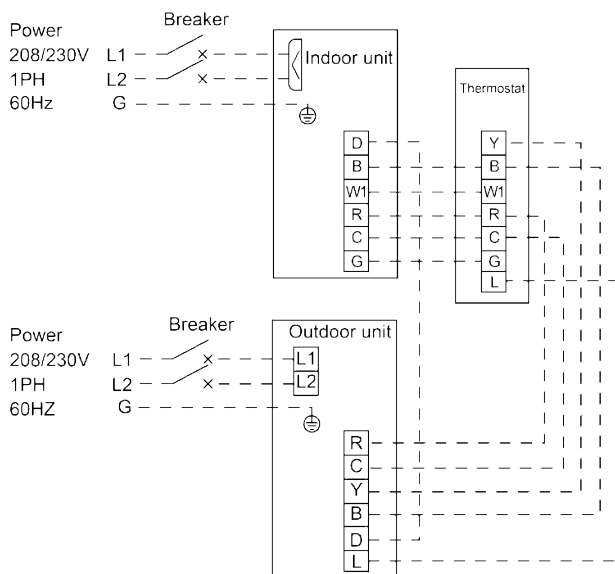
powered on.

- 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 firmly 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.

Electrical wiring of indoor units (Only for air handler without electric heater)

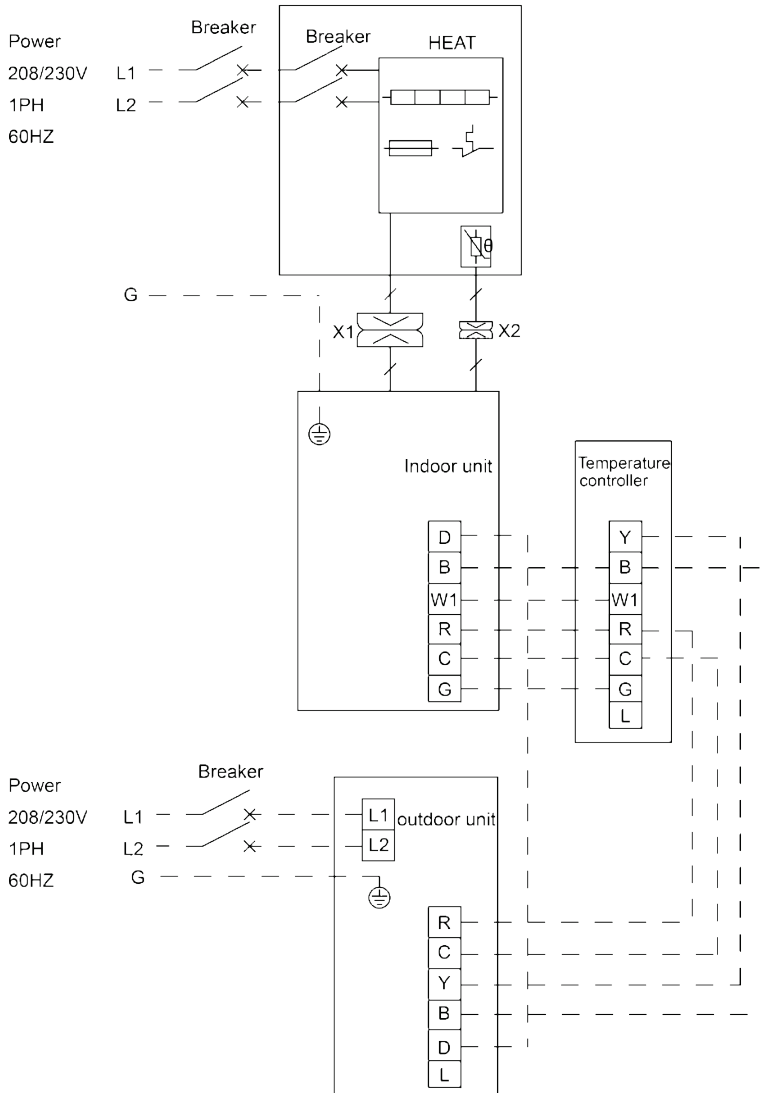


**UADH24-DD3D1, UADH30-DD3D1, UADH36-DD3D1**

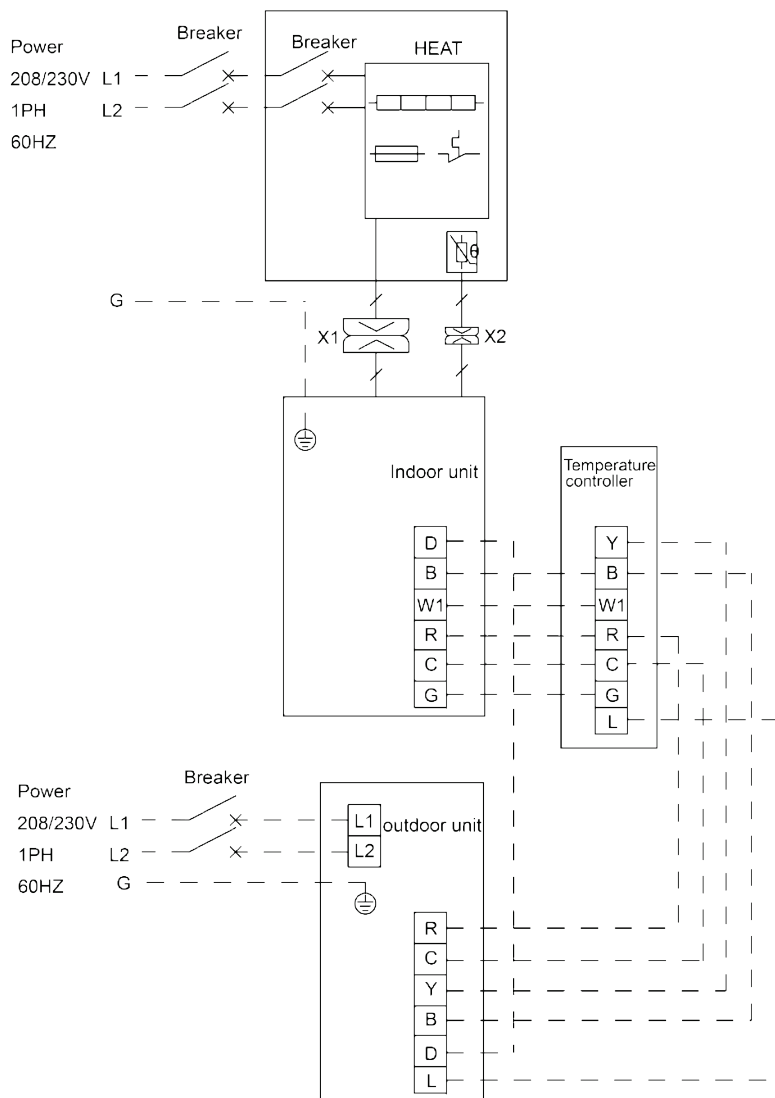


### UADH42-DD3D1, UADH48-DD3D1, UADH60-DD3D1

Electrical wiring of indoor units (Only for air handler with electric heater)



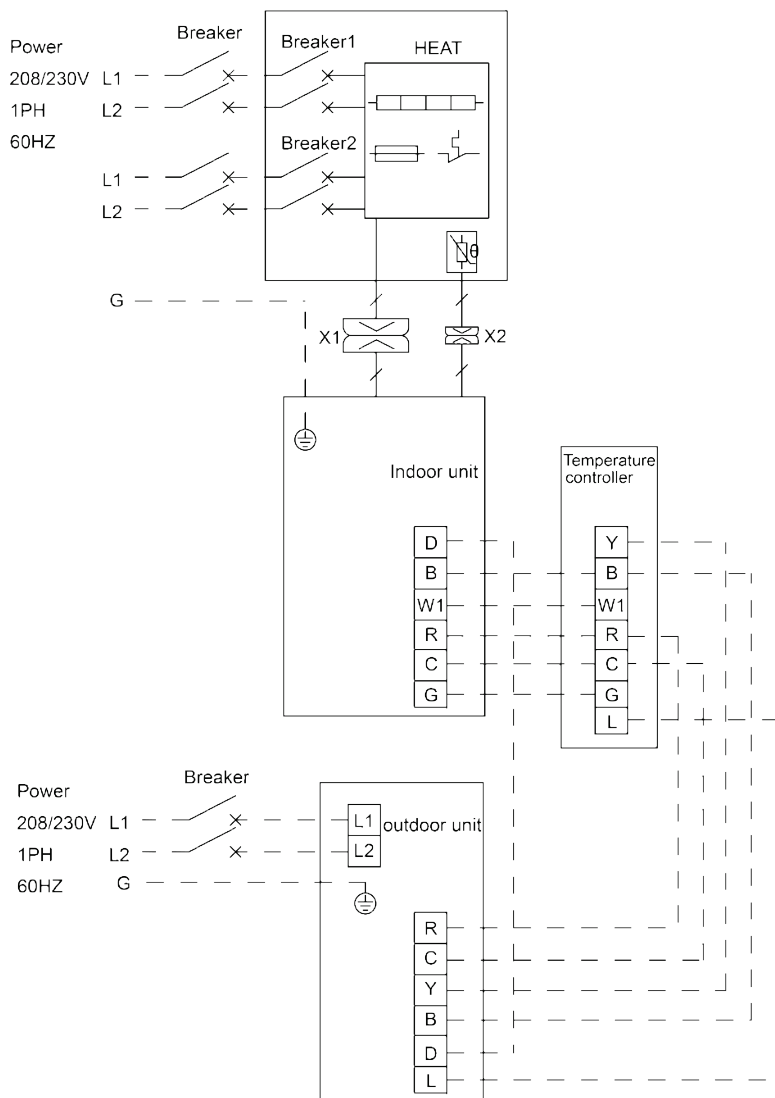
**UADH24-DD3D1, UADH30-DD3D1, UADH36-DD3D1**



### UADH42-DD3D1, UADH48-DD3D1, UADH60-DD3D1

(only for air handler with BLR 5000W/240V, BLR 8000W/240V or BLR 10000W/240V)





### UADH48-DD3D1, UADH60-DD3D1

(only for air handler with BLR 15000W/240V or BLR 20000W/240V)

#### NOTE:

Y means Compressor control signal for the outdoor unit;

B which is energized under the heating mode means 4-way valve control signal;

D means defrosting signal;

R means 24V AC power supply;

C means 24V common;

G means indoor unit fan signal for the indoor unit;

W1 means heater control signal;

L reserved function.

**NOTE:** For cooling only unit, there is no need to connect the B and D terminals.

**NOTE:** When outdoor defrosts, D of outdoor unit will send 24V signal to avoid cold winds.

**NOTE:** L reserved function, the wiring board does not pick up.

**NOTE:** Breaker must be incorporated in the fixed wiring in accordance with the wiring rules.

**NOTE:** When installing electric heating, M6 screws are required for grounding screws.

## **WARNING**

- ①. High and low voltage wires should be led through different rubber rings 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 the 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.	
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 firmly.	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 starting up, please immediately stop the unit when abnormal sound emits.
- (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 Gree

service center and show phenomena and models.

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 receive "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.

There are LED indicators on the main board of the indoor unit, which are used to display the operating status and malfunction information of the unit.

LED indicator	Color	Function
Power Indicator	Red	Indoor unit main board is powered on, Power Indicator is on.
Running Indicator	Green	After detecting the indoor fan turn-on signal, the running indicator light is on, when detecting the indoor fan turning-off signal, the running indicator light is off. When detecting a system failure, the running indicator light flashes.

Different running indicator flashing light means different system failure.

malfunction	Running Indicator status	Remark
Indoor Jumper cap failure	Light out 3S then flash once.	Flash means light on 0.5S then light out 0.5S.
Indoor fan failure	Light out 3S then flash twice.	
Indoor tube temperature sensor failure	Light out 3S then flash four times.	
Indoor air outlet temperature sensor failure	Light out 3S then flash six times.	

## 7 Maintenance and Care

Regular check, maintenance and care should be performed by professional personnel, which will prolong the unit life span.

### 7.1 Drain Pipe

Regularly check if the drain pipe is clogged in order to drain condensate smoothly.

### 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 earthed reliably.
- (3) Check if the filter screen has been set soundly.
- (4) Check if the unit is installed firmly. If there is something abnormal, please contact the local appointed service center.

### 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 local appointed service center or dealer if necessary. When user need to replace the mainboard, installer should put old mainboard jumper cap and the short-driven electrical resistance on the new mainboard. (If there is no short-driven electrical resistance put on the old motherboard, installer need not to replace short-driven electrical.)

## 8 After-Sales Service

In case the air-conditioning unit you bought has any quality problem or you have any inquiry, please contact the local after-sales service agency designated by factory.

**Warranty should meet the following requirements:**

- (1) First run of the unit should be operated by professional personnel from factory appointed service center.
- (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 fails to obey any item mentioned above.

## MANUFACTURER'S LIMITED WARRANTY

**1.0 WARRANTOR.** This Limited Warranty is offered by Dragon Trade International Corp , 1205 Highland Avenue, National City, California 91950, ("Manufacturer") on the Products described below.

**2.0 PRODUCT.** This Limited Warranty applies to the following products, residential and commercial air conditioner units manufactured by Manufacturer, collectively ("Product").

**3.0 WHO MAY USE THIS WARRANTY .** This Limited Warranty is intended only for the benefit original purchasers who purchase product from an authorized retailer or installer of the product in the United States on or after September 1, 2023, ("Consumer").

**4.0 WARRANTY COVERAGE .** Subject to the "Warranty Conditions, Limitations, and Exclusions" set forth hereinbelow, Manufacturer expressly warrants the Product as follows:

4.01 Manufacturer warrants the Product to be free from defects in material and workmanship as follows: for a period of ten (10) years on all parts, including the Compressor, and one (1) year on the remote controller from the date of delivery to the Consumer, ("Warranty Period"). Date of delivery to Consumer shall be the date earlier of the date the Product is delivered to the Consumer's installation contractor or the place of installation.

4.02 Manufacturer, in its sole discretion, will repair or replace, free of charge, the Product or component part thereof, which proves to be defective in materials or workmanship during the Warranty Period. Any replacement parts provided by will be of equal or greater quality than the replaced part.

4.03 All Warranty service or repairs must be performed in accordance with the provisions of the "How to Obtain Warranty Service" section set forth hereinbelow.

4.04 This Limited Warranty does NOT include labor, or any other costs incurred for service, maintenance, repair, removal, replacement, installation, compliance with local building and electrical codes; nor does it include shipping, handling, delivery or transportation cost of the Product or any replacement parts thereof.

**5.0 WARRANTY CONDITIONS, LIMITATIONS, AND EXCLUSIONS .** This Limited Warranty is subject to the following conditions, limitations, and exclusions:

5.01 This Limited Warranty only applies to Products purchased after September 1, 2023.

5.02 This Limited Warranty only applies to Products purchased by original consumer purchasers who, purchase the Product from an authorized retailer or installer of the Product, and install the Product, in the United States; it does not apply to Products received through promotions, contests, giveaways, or sponsorship events.



5.03 This Limited Warranty is transferrable if, and only if, the Products is purchased through, and registered with, an authorized a dealer.

5.04 This Limited Warranty only applies to Products installed by appropriately and validly licensed contractors in accordance with: (a) all applicable codes, laws, rules, regulations, and requirements, including without limitation all applicable building permits; and (b) all manufacturer installation instructions and best industry practices; and after proper handling and best transport practices from date of purchase.

5.05 This Limited Warranty does not apply to damage resulting from or repaired by: (a) improper installation or operator error; (b) installation by non or inappropriately licensed persons firms or entities; (c) misuse, abuse, accident, or unauthorized alteration; (d) natural disaster, weather, or acts of nature; (e) animals, vermin or pests; (f) power failures, including brownouts or surges; (g) frozen or broken pipes; (h) inadequate ventilation or corrosive environments at or around the installation site; (i) inadequate maintenance, including maintenance not performed in accordance with the Product operating manual or recognized best practices; (j) ordinary wear and tear; or (k) any other conditions or acts beyond the control of Manufacturer, (l) spare parts, damaged during maintenance and repairs.

5.06 EXCEPT AS OTHERWISE PROVIDED IN THIS LIMITED WARRANTY, OR AS REQUIRED BY LAW, MANUFACTURER MAKES NO OTHER WARRANTIES OF ANY KIND WITH RESPECT TO THE PRODUCT, AND HEREBY DISCLAIMS AND EXCLUDES ALL WARRANTIES AND REMEDIES NOT EXPRESSLY PROVIDED HEREIN OR REQUIRED BY LAW, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES. NO ONE IS AUTHORIZED TO CHANGE THIS LIMITED WARRANTY IN ANY RESPECT OR CREATE ANY OTHER OBLIGATION OR LIABILITY FOR MANUFACTURER IN CONNECTION WITH THE PRODUCT OR ANY UNITED APPLIANCES EQUIPMENT.

5.07 UNDER NO CIRCUMSTANCES SHALL MANUFACTURER BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, INFRINGEMENT OF THIRD PARTY RIGHTS, LOSS OF GOODWILL, LOSS OF REVENUE OR PROFITS, WORK INTERRUPTION, SYSTEM FAILURE, DETERIORATION OF OTHER PROPERTY, COSTS OF PRODUCT REMOVAL AND REINSTALLATION, INCREASE IN THE USE OF ENERGY, LOSS OF USE, INJURY TO PERSONS OR PROPERTY ARISING OUT OF OR RELATED TO THE PRODUCT, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT OR OTHERWISE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. IN NO EVENT SHALL MANUFACTURER'S LIABILITY EXCEED THE ACTUAL PURCHASE PRICE OF THE SYSTEM WITH RESPECT TO WHICH ANY CLAIM IS MADE.

5.08 SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF WARRANTIES OR EXCLUSIONS OR LIMITATIONS OF DAMAGES, INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY.

5.09 This Limited Warranty does not apply to (a) service calls when no covered Product defect is identified; or (b) to explain the use and operation of the Product to the Consumer.

5.10 In the event of a Product failure, the Product should be de-energized, but otherwise should remain as-is, where-is until inspected by an authorized technician, unless there is a life/safety threat or the likelihood of resultant physical damage to other property, in which case all appropriate safety precautions should be taken by qualified persons. Absent a life/safety threat or the likelihood of resultant physical damage to other property, the failure to maintain the Product as-is, where-is as provided herein, voids the Warranty.

## 6.0 Product Registration

It is recommended that Consumer complete the Product Registration Card included in the original Product packaging and return it to Manufacturer or register on the Product on the manufacturer's website. Doing so will facilitate a Warranty Claim (defined hereinbelow); however, the Consumer is not required to complete and return the Product Warranty Card for his Limited Warranty to be effective.

## 7.0 HOW TO OBTAIN WARRANTY SERVICE

7.01 During the Warranty Period, contact the Manufacturer by email at [customerservices@unitedappliances.com](mailto:customerservices@unitedappliances.com), or telephone at 800-691-2050, or United States mail at 1205 Highland Avenue, National City, California 91950, to notify Manufacturer of a claim under this Limited Warranty, ("Warranty Claim").

7.02 As part of the Warranty Claim, Consumer will be required to present the original purchase invoice for the Product, and completed Product registration, which shall include the name and CSLB license number of the certified installer, as well as any other reasonable documentation reflecting date of purchase and/or date of delivery of the Product to the Consumer.

7.03 Within thirty (30) days from the date the Warranty Claim is received by Manufacturer, an authorized service technician will visit the Consumer's residence to inspect the Product and determine whether the Warranty Claim is covered under this Limited Warranty.

7.04 If the Warranty Claim is covered, Manufacturer, subject to the labor and shipping limitations above, will, in its sole discretion, will repair or replace, the Product or any covered component part thereof, at no cost to the Consumer.

7.05 Consumer will be invoiced for all shipping and labor costs incurred in connection with the repair or replacement of the Product or any component part provided herein and shall pay such invoice upon receipt.

## 8.0 DISPUTE RESOLUTION

8.01 Agreement for Binding Arbitration. Arbitration under this Agreement is governed by the Federal Arbitration Act (9 U.S.C. §§ 1 et seq.). This Agreement applies to Consumer and Manufacturer, and their respective heirs, assigns, spouses, family members, affiliates, officers, directors, attorneys, insurers, shareholders, successors, subsidiaries and/or parent companies, and survives the termination of the Warranty Period. SUBJECT TO CONSUMER'S RIGHT TO BRING ANY CLAIM AGAINST MANUFACTURER IN A SMALL CLAIMS COURT OF

COMPETENT JURISDICTION CONSUMER AND MANUFACTURER AGREE THAT ANY DISPUTE, CLAIM OR CONTROVERSY ARISING OUT OF THIS AGREEMENT OR THE USE OF THE PRODUCT, INCLUDING ISSUES OF ARBITRABILITY, SHALL, ("DISPUTE"), AT THE OPTION OF EITHER PARTY, BE RESOLVED BY BINDING ARBITRATION BEFORE A SINGLE NEUTRAL ARBITRATOR ADMINISTERED BY JUDICIAL ARBITRATION AND MEDIATION SERVICES ("JAMS") UNDER ITS APPLICABLE ARBITRATION RULES IN EFFECT AT THE TIME THE DISPUTE ARISES. DISPUTES SHALL NOT BE RESOLVED BY COURT OR JURY TRIAL, AND CONSUMER IS WAIVING ANY RIGHT TO A COURT OR JURY TRIAL. The JAMS Policy on Consumer Arbitration and Minimum Standards of Procedural Fairness in effect at the time the Dispute arises are deemed incorporated by reference herein and shall govern the Arbitration.

The JAMS Rules and may be found at [www.jamsadr.com](http://www.jamsadr.com), by searching for "JAMS Arbitration Rules" using a service such as [www.Google.com](http://www.Google.com) or [www.Yahoo.com](http://www.Yahoo.com), or by asking Manufacturer for a copy of the rules. If for any reason JAMS will not administer the arbitration, either party may apply to a court of competent jurisdiction with authority over the location where the arbitration will be conducted for appointment of a neutral Arbitrator.

The Arbitration hearing shall, unless the Parties otherwise agree in writing, be held within forty-five miles of where CONSUMER resides. Manufacturer shall pay all costs and expenses unique to arbitration, including without limitation the arbitrator's fees. The Parties shall be entitled to discovery as provided by the Federal Rules of Civil Procedure. The arbitrator must follow applicable law and may award only those remedies that would have applied had the matter been heard in court. Judgment may be entered on the arbitrator's decision in any court of competent authority.

Either Consumer or Manufacturer may apply to a court of competent authority for temporary or preliminary injunctive relief in connection with an arbitrable controversy, but only upon the ground that the award to which that party may be entitled may be rendered ineffectual without such relief.

**8.02 Class, Collective, and Representative Action Waiver.** This Agreement affects your ability to participate in class, collective or representative actions. Consumer and Manufacturer agree to bring any Dispute in Arbitration on an individual basis only, and not on a class, collective, or private attorney general representative basis. There will be no right or authority for any Dispute to be brought, heard or arbitrated as a class, collective, representative, or private attorney general action, or as a member in any purported class, collective, representative, or private attorney general proceeding ("Class Action Waiver"). Notwithstanding any other provision of this Agreement or the JAMS Rules, disputes regarding the validity, enforceability, or breach of the Class Action Waiver may be resolved only by a civil court of competent jurisdiction and not by an arbitrator. In any case in which (1) the dispute is filed as a class, collective, representative, or private attorney general action and (2) a civil court of competent jurisdiction finds all or part of the Class Action Waiver unenforceable, the class, collective, representative, and/or private attorney general action to that extent must be litigated in a civil court of competent jurisdiction, but the portion of the Class Action Waiver that is enforceable shall be enforced in arbitration. The Class Action Waiver shall be severable in any case in which the dispute is filed as an individual action and severance is necessary to ensure that the individual action proceeds in arbitration.

8.03 Commencing the Arbitration. All claims in arbitration are subject to the same statutes of limitations that would apply in court under applicable law. The Party bringing the claim must demand arbitration in writing and deliver the written demand by hand or first-class mail to the other party within the applicable statute of limitations period. The demand for arbitration shall include identification of the parties, a statement of the legal and factual basis of the claim(s), and a specification of the remedy sought. Any demand for arbitration shall be provided to Provider's registered agent for service of process. The arbitrator shall resolve all disputes regarding the timeliness or propriety of the demand for arbitration.

8.04 Enforcement of this Agreement. This Agreement is the full and complete agreement relating to the formal resolution of disputes covered by this Agreement and shall supersede all other agreements concerning arbitration. In the event any part of this Agreement is held unenforceable, the rest of this Agreement will be enforceable. If the Class Action Waiver in Section 2 of this Agreement is unenforceable, Manufacturer and Consumer agree that this Agreement is otherwise silent as to any Party's ability to bring a class, collective, or representative action in arbitration.

## 9.0 GENERAL PROVISIONS

9.01 Governing Law. This Limited Warranty and any Warranty Claim hereunder shall be governed by the laws of the State of California, unless the Consumer lives in and the Product was installed in a residence located in a different state, in which case the laws of the state of installation shall apply.

9.02 Entire Agreement. This Agreement constitutes the entire agreement between the Parties hereto pertaining to the subject matter hereof, and all prior or contemporaneous agreements, representations, or understandings by and between the Parties, whether written or oral, are superseded and merged herein.

9.03 Modification; Waiver. No supplement, amendment or modification of this Limited Warranty shall be valid or binding unless in writing and executed by an authorized officer of Manufacturer. Manufacturer shall not be deemed to have waived any provision in this Agreement, unless specifically agreed to in writing and signed authorized officer of Manufacturer. No waiver of any provision of this Limited Warranty shall be deemed to constitute a continuing waiver of that provision, nor shall it be deemed to constitute a waiver of any other provision.

9.04 Severability. Should any provision of this Agreement be declared by any court of competent jurisdiction to be illegal or invalid, the validity of the remaining parts, terms, or provisions shall not be affected thereby, and said illegal and/or invalid part, term, or provision shall be deemed not to be a part of the Agreement.

## 10. NOTICE TO CONSUMER

This Limited Warranty gives you specific legal rights. You may have other rights which vary from state to state.

**RETURN AND EXCHANGE**



If you have any issues with your product or not entirely satisfied, please visit <https://unitedappliances.com/us/returns-exchange/> or scan the QR code for all the steps.



**Imported by**

Dragon Trade International Corp.

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