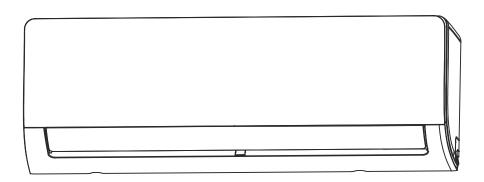
SPLIT-TYPE ROOM AIR CONDITIONER

Owner's Manual & Installation Manual





IMPORTANT NOTE:

Read this manual and SAFETY MANUAL(if any) carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.

Please check the applicable models, technical data, F-GAS(if any) and manufacturer information from the "Owner's Manual - Product Fiche " in the packaging of the outdoor unit (European Union products only) or in the packaging of the indoor unit (model dependent)

Table of Contents

Unit Specifications and Features	Safety Precautions	03
1. Indoor unit display C 2. Operating temperature. C 3. Other features 0 4. Setting angle of airflow 1 5. Manual operation (without Remote) 1 Care and Maintenance 1 Troubleshooting. 1 Installation Manual 1 Accessories. 1 Installation Summary - Indoor Unit 1 Unit Parts. 1 Indoor Unit Installation 1 5. Select installation location 1 Attach mounting plate to wall. 1 Drill wall hole for connective piping 2 Prepare refrigerant piping 2 Connect fain hose. 2 Connect signal and power cables. 2 Wrap piping and cables. 2 Wouth indoor unit. 2 Select installation location. 1 Install drian joint. 2 Anchor outdoor unit. 2 Connect on Pipe Length. 2 Note on Pipe Length. 2 Connect on Instructions - Refrigerant Piping 2 1. Cut pipe. 2	Owner's Manual	
2. Operating temperature.	Unit Specifications and Features	07
3. Other features	• •	
4. Setting angle of airflow. 5. Manual operation (without Remote)		
5. Manual operation (without Remote). Care and Maintenance		
Installation Manual Accessories 1		
Installation Manual Accessories 1	Care and Maintenance	1 ²
Accessories	Troubleshooting	13
Installation Summary - Indoor Unit 1 Jnit Parts 1 Indoor Unit Installation 1 Select installation location 1 Attach mounting plate to wall 1 Drill wall hole for connective piping 2 Prepare refrigerant piping 2 Connect drain hose 2 Connect signal and power cables 2 Wrap piping and cables 2 Wrap piping and cables 2 Mount indoor unit 2 utdoor Unit Installation 2 Select installation location 3 Install drain joint 2 Anchor outdoor unit 2 Connect signal and power cables 2 efrigerant Piping Connection 2 Note on Pipe Length 2 Connection Instructions – Refrigerant Piping 2 1. Cut pipe 2 2. Remove burrs 3 3. Flare pipe ends 3 4. Connect pipes 3 3. Flare pipe ends 3 4. Connect pipes 3 3. Flare pipe ends 3	Installation Manual	
Indicate		
ndoor Unit Installation 11 . Select installation location . Attach mounting plate to wall . Drill wall hole for connective piping . Prepare refrigerant piping . Connect drain hose . Connect signal and power cables . Wrap piping and cables . Mount indoor unit . Select installation location . Install drain joint . Anchor outdoor unit . Connect signal and power cables . efrigerant Piping Connection . Note on Pipe Length . Connection Instructions –Refrigerant Piping . Cut pipe . 2. Remove burrs . 3. Flare pipe ends . 4. Connect pipes . 5. Revacuation . 8. Evacuation . 9. Select installation location . 1. Cut pipe . 2. Remove burrs . 3. Flare pipe ends		
Select installation location 1 Attach mounting plate to wall 1 Drill wall hole for connective piping 2 Prepare refrigerant piping 2 Connect drain hose 2 Connect signal and power cables 2 Wrap piping and cables 2 Mount indoor unit 2 wtdoor Unit Installation 2 Select installation location 2 Install drain joint 2 Anchor outdoor unit 2 Connect signal and power cables 2 efrigerant Piping Connection 2 Note on Pipe Length 2 Connection Instructions –Refrigerant Piping 2 1. Cut pipe 2 2. Remove burrs 3 3. Flare pipe ends 3 4. Connect pipes 3 sir Evacuation 3 Evacuation Instructions 3 Note on Adding Refrigerant 3 lectrical and Gas Leak Checks 3 est Run 3	Jnit Parts	18
Attach mounting plate to wall. 1 Drill wall hole for connective piping. 2 Prepare refrigerant piping. 2 Connect drain hose. 2 Connect signal and power cables. 2 Wrap piping and cables. 2 Mount indoor unit. 2 select installation location. 2 Install drain joint. 2 Anchor outdoor unit. 2 Connect signal and power cables. 2 efrigerant Piping Connection. 2 Note on Pipe Length. 2 Connection Instructions –Refrigerant Piping. 2 1. Cut pipe. 2 2. Remove burrs. 3 3. Flare pipe ends. 3 4. Connect pipes. 3 Lir Evacuation. 3 Evacuation Instructions. 3 Note on Adding Refrigerant. 3 lectrical and Gas Leak Checks. 3 est Run. 3	ndoor Unit Installation	19
Drill wall hole for connective piping 2 Prepare refrigerant piping 2 Connect drain hose 2 Connect signal and power cables 2 Wrap piping and cables 2 Mount indoor unit 2 utdoor Unit Installation 2 Select installation location 2 Install drain joint 2 Anchor outdoor unit 2 Connect signal and power cables 2 efrigerant Piping Connection 2 Note on Pipe Length 2 Connection Instructions –Refrigerant Piping 2 1. Cut pipe 2 2. Remove burrs 3 3. Flare pipe ends 3 4. Connect pipes 3 Vir Evacuation 3 Evacuation Instructions 3 Note on Adding Refrigerant 3 lectrical and Gas Leak Checks 3 est Run 3		
Prepare refrigerant piping 2 Connect drain hose 2 Connect signal and power cables 2 Wap piping and cables 2 Mount indoor unit 2 utdoor Unit Installation 2 Select installation location 2 Install drain joint 2 Anchor outdoor unit 2 Connect signal and power cables 2 efrigerant Piping Connection 2 Note on Pipe Length 2 Connection Instructions –Refrigerant Piping 2 1. Cut pipe 2 2. Remove burrs 3 3. Flare pipe ends 3 4. Connect pipes 3 sir Evacuation 3 Evacuation Instructions 3 Note on Adding Refrigerant 3 lectrical and Gas Leak Checks 3 est Run 3	• .	
Connect drain hose 2 . Connect signal and power cables 2 . Wrap piping and cables 2 . Mount indoor unit 2 utdoor Unit Installation 2 Select installation location 5 Install drain joint 2 Anchor outdoor unit 2 Connect signal and power cables 2 efrigerant Piping Connection 2 Note on Pipe Length 2 Connection Instructions –Refrigerant Piping 2 1. Cut pipe 2 2. Remove burrs 3 3. Flare pipe ends 3 4. Connect pipes 3 ir Evacuation 3 Evacuation Instructions 3 Note on Adding Refrigerant 3 lectrical and Gas Leak Checks 3 est Run 3	, , e	
Connect signal and power cables	. 3 3	
Wrap piping and cables		
Mount indoor unit		
Select installation location		
Select installation location	utdoor Unit Installation	25
Install drain joint		
Connect signal and power cables. efrigerant Piping Connection	Install drain joint	26
efrigerant Piping ConnectionNote on Pipe Length2Connection Instructions – Refrigerant Piping21. Cut pipe22. Remove burrs33. Flare pipe ends34. Connect pipes3Ir Evacuation3Evacuation Instructions3Note on Adding Refrigerant3lectrical and Gas Leak Checks3est Run3		
Note on Pipe Length		
Connection Instructions –Refrigerant Piping		
1. Cut pipe		
2. Remove burrs	· · · · · · · · · · · · · · · · · · ·	
3. Flare pipe ends		
4. Connect pipes		
Evacuation Instructions	···	
Evacuation Instructions	ir Evacuation	32
lectrical and Gas Leak Checks3		
est Run3	Note on Adding Refrigerant	33
est Run3	lectrical and Gas Leak Checks	34

Safety Precautions

Read Safety Precautions Before Operation and Installation

Incorrect installation due to ignoring instructions can cause serious damage or injury. The seriousness of potential damage or injuries is classified as either a **WARNING** or **CAUTION**.



WARNING

This symbol indicates the possibility of personnel injury or loss of life.



CAUTION

This symbol indicates the possibility of property damage or serious consequences.



/ WARNING

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(European Union countries).

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.

WARNINGS FOR PRODUCT USE

- If an abnormal situation arises (like a burning smell), immediately turn off the unit and disconnect the power. Call your dealer for instructions to avoid electric shock, fire or injury.
- **Do not** insert fingers, rods or other objects into the air inlet or outlet. This may cause injury, since the fan may be rotating at high speeds.
- **Do not** use flammable sprays such as hair spray, lacquer or paint near the unit. This may cause fire or combustion.
- **Do not** operate the air conditioner in places near or around combustible gases. Emitted gas may collect around the unit and cause explosion.
- **Do not** operate your air conditioner in a wet room such as a bathroom or laundry room. Too much exposure to water can cause electrical components to short circuit.
- **Do not** expose your body directly to cool air for a prolonged period of time.
- **Do not** allow children to play with the air conditioner. Children must be supervised around the unit at all times.
- If the air conditioner is used together with burners or other heating devices, thoroughly ventilate the room to avoid oxygen deficiency.
- In certain functional environments, such as kitchens, server rooms, etc., the use of specially designed air-conditioning units is highly recommended.

CLEANING AND MAINTENANCE WARNINGS

- Turn off the device and disconnect the power before cleaning. Failure to do so can cause electrical shock.
- **Do not** clean the air conditioner with excessive amounts of water.
- **Do not** clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation.

! CAUTION

- Turn off the air conditioner and disconnect the power if you are not going to use it for a long time.
- Turn off and unplug the unit during storms.
- Make sure that water condensation can drain unhindered from the unit.
- **Do not** operate the air conditioner with wet hands. This may cause electric shock.
- **Do not** use device for any other purpose than its intended use.
- **Do not** climb onto or place objects on top of the outdoor unit.
- **<u>Do not</u>** allow the air conditioner to operate for long periods of time with doors or windows open, or if the humidity is very high.

⚠ ELECTRICAL WARNINGS

- Only use the specified power cord. If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Keep power plug clean. Remove any dust or grime that accumulates on or around the plug. Dirty plugs can cause fire or electric shock.
- **Do not** pull power cord to unplug unit. Hold the plug firmly and pull it from the outlet. Pulling directly on the cord can damage it, which can lead to fire or electric shock.
- **Do not** modify the length of the power supply cord or use an extension cord to power the unit.
- **<u>Do not</u>** share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electrical shock.
- The product must be properly grounded at the time of installation, or electrical shock may occur.
- For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. Connect cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.
- If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device(RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

TAKE NOTE OF FUSE SPECIFICATIONS

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board ,such as :

T3.15AL/250VAC, T5AL/250VAC, T3.15A/250VAC, T5A/250VAC, T20A/250VAC, T30A/250VAC, etc. **NOTE:** For the units using R32 or R290 refrigerant, only the blast-proof ceramic fuse can be used.

UV-C lamp(Applicable to the unit contains an UV-C lamp only)

This appliance contains a UV-C lamp. Read the maintenance instructions before opening the appliance.

- 1. Do not operate UV-C lamps outside of the appliance.
- 2. Appliances that are obviously damaged must not be operated.
- 3. Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin.

- 4. Before opening doors and access panels bearing the ULTRAVIOLET RADIATION hazard symbol for the conducting USER MAINTENANCE, it is recommended to disconnect the power.
- 5. The UV-C lamp can not be cleaned, repaired and replaced.
- 6. UV-C BARRIERS bearing the ULTRAVIOLET RADIATION hazard symbol should not be removed.
- **MARNING** This appliance contains an UV emitter. Do not stare at the light source.

/ WARNINGS FOR PRODUCT INSTALLATION

- 1. Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire.
- 2. Installation must be performed according to the installation instructions. Improper installation can cause water leakage, electrical shock, or fire. (In North America, installation must be performed in accordance with the requirement of NEC and CEC by authorized personnel only.)
- 3. Contact an authorized service technician for repair or maintenance of this unit. This appliance shall be installed in accordance with national wiring regulations.
- 4. Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and can cause the unit to fail.
- 5. Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage.
- 6. Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property.
- 7. For units that have an auxiliary electric heater, **do not** install the unit within 1 meter (3 feet) of any combustible materials.
- 8. **Do not** install the unit in a location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause fire.
- 9. Do not turn on the power until all work has been completed.
- 10. When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.
- 11. How to install the appliance to its support, please read the information for details in "indoor unit installation" and "outdoor unit installation" sections.

Note about Fluorinated Gasses(Not applicable to the unit using R290 Refrigerant)

- 1. This air-conditioning unit contains fluorinated greenhouse gasses. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself or the "Owner's Manual - Product Fiche" in the packaging of the outdoor unit. (European Union products only).
- 2. Installation, service, maintenance and repair of this unit must be performed by a certified technician.
- 3. Product uninstallation and recycling must be performed by a certified technician.
- 4. For equipment that contains fluorinated greenhouse gases in quantities of 5 tonnes of CO₂ equivalent or more, but of less than 50 tonnes of CO2 equivalent, If the system has a leakdetection system installed, it must be checked for leaks at least every 24 months.
- 5. When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

/ WARNING for Using R32/R290 Refrigerant

• When flammable refrigerant are employed, appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

For R32 frigerant models:

Appliance shall be installed, operated and stored in a room with a floor area larger than 4m². For R290 refrigerant models, appliance shall be installed, operated and stored in a room with a floor area larger than:

<=9000Btu/h units: 13m²

>9000Btu/h and <=12000Btu/h units: 17m² >12000Btu/h and <=18000Btu/h units: $26m^2$ >18000Btu/h and <=24000Btu/h units: 35m²

- Reusable mechanical connectors and flared joints are not allowed indoors. (**EN** Standard Requirements).
- Mechanical connectors used indoors shall have a rate of not more than 3g/year at 25% of the maximum allowable pressure. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated. (**UL** Standard Requirements)
- When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated. (**IEC** Standard Requirements)
- Mechanical connectors used indoors shall comply with ISO 14903.

European Disposal Guidelines

This marking shown on the product or its literature, indicates that waste electrical and eletrical equipment should not be mixed with general household waste.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **Do not** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.

Special notice

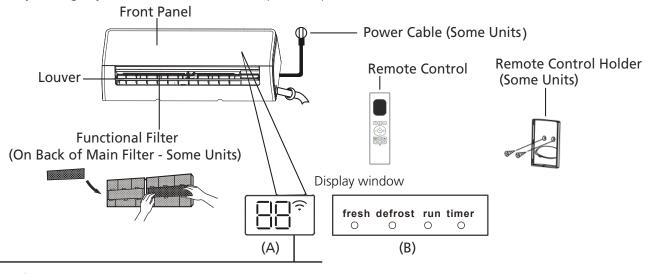
Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.

Unit Specifications and Features

Indoor unit display

NOTE: Different models have different front panels and display windows. Not all the display codes describing below are available for the air conditioner you purchased. Please check the indoor display window of the unit you purchased.

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.



- "fresh" when Fresh and UV-C lamp(if any)feature is activated(some units)
- "defrost" when defrost feature is activated.
- " run " when the unit is on.
- "timer" when TIMER is set.
- " when Wireless Control feature is activated(some units)
- Display Code Meanings

- " Displays temperature, operation feature and error codes:
 - " for 3 seconds when:
 - TIMER ON is set (if the unit is OFF, " Tremains on when TIMER ON is set)
 - FRESH, UV-C lamp, SWING, TURBO, ECO, or SILENCE feature is turned on
 - " of a seconds when:
 - TIMER OFF is set
 - FRESH, UV-C lamp, SWING, TURBO, ECO, or SILENCE feature is turned off
 - " **#** " when defrosting
 - "FP" when 8°C heating feature is turned on(some units)
 - " When Active Clean feature is turned on(For Inverter split type) when unit is self-cleaning(For Fixed-speed type)

Operating temperature

When your air conditioner is used outside of the following temperature ranges, certain safety protection features may activate and cause the unit to disable.

Inverter Split Type

	COOL mode	HEAT mode	DRY mode
Room Temperature	16°C - 32°C (60°F - 90°F)	0°C - 30°C (32°F - 86°F)	10°C - 32°C (50°F - 90°F)
	0°C - 50°C (32°F - 122°F)		
Outdoor Temperature	-15°C - 50°C (5°F - 122°F) (For models with low temp. cooling systems.)	-15°C - 24°C (5°F - 75°F)	0°C - 50°C (32°F - 122°F)
	0°C - 52°C (32°F - 126°F) (For special tropical models)		0°C - 52°C (32°F - 126°F) (For special tropical models)

FOR OUTDOOR UNITS WITH AUXILIARY ELECTRIC HEATER

When outside temperature is below 0°C (32°F), we strongly recommend keeping the unit plugged in at all time to ensure smooth ongoing performance.

Fixed-speed Type

	COOL mode	HEAT mode	DRY mode
Room Temperature	16°C-32°C (60°F-90°F)	0°C-30°C (32°F-86°F)	10°C-32°C (50°F-90°F)
	18°C-43°C (64°F-109°F)		11°C-43°C (52°F-109°F)
Outdoor Temperature	-7°C-43°C (19°F-109°F) (For models with low-temp cooling systems)	-7°C-24°C (19°F-75°F)	18°C-43°C (64°F-109°F)
	18°C-52°C (64°F-126°F) (For special tropical models)	(13 F-73 F)	18°C-52°C (64°F-126°F) (For special tropical models)

NOTE: Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.

To further optimize the performance of your unit, do the following:

- Keep doors and windows closed.
- Limit energy usage by using TIMER ON and TIMER OFF functions.
- Do not block air inlets or outlets.
- Regularly inspect and clean air filters.

A guide on using the infrared remote is not included in this literature package. Not all the functions are available for the air conditioner, please check the indoor display and remote control of the unit you purchased.

Other Features

Auto-Restart(some units)

If the unit loses power, it will automatically restart with the prior settings once power has been restored.

Anti-mildew (some units)

When turning off the unit from COOL, AUTO (COOL), or DRY modes, the air conditioner will continue operate at very low power to dry up condensed water and prevent mildew growth.

• Wireless Control (some units)

Wireless control allows you to control your air conditioner using your mobile phone and a wireless connection.

For the USB device access, replacement, maintenance operations must be carried out by professional staff.

Louver Angle Memory(some units) When turning on your unit, the louver will

automatically resume its former angle.

• Active Clean function(some units)

- The Active Clean Technology washes away dust when it adheres to the heat exchanger by automatically freezing and then rapidly thawing the frost. A "pi-pi" sound will be heard.
 The Active clean operation is used to produce more condensed water to improve the cleaning effect, and the cold air will blow out. After cleaning, the internal wind wheel then keeps operating with hot air to blow-dry the evaporator, thus keeping the inside clean.
- -- When this function is turned on, the indoor unit display window appears "CL", after 20 to 130 minutes, the unit will turn off automatically and cancel Active Clean function.
- -- For some units, the system will start hightemperature cleaning process, and the temperature of air outlet is very high. Please keep away from it. And this would lead to the rising of the room temperature.

Breeze Away (some units)

This feature avoids direct air flow blowing on the body and make you feel indulging in silky coolness.

Refrigerant Leakage Detection (some units)

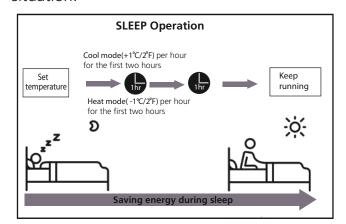
The indoor unit will automatically display "ELOC" or flash LEDS (model dependent) when it detects refrigerant leakage.

Sleep Operation

The SLEEP function is used to decrease energy use while you sleep (and don't need the same temperature settings to stay comfortable). This function can only be activated via remote control. And the Sleep function is not available in FAN or DRY mode.

Press the **SLEEP** button when you are ready to go to sleep. When in COOL mode, the unit will increase the temperature by 1°C (2°F) after 1 hour, and will increase an additional 1°C (2°F) after another hour. When in HEAT mode, the unit will decrease the temperature by 1°C (2°F) after 1 hour, and will decrease an additional 1°C (2°F) after another hour.

The sleep feature will stop after 8 hours and the system will keep running with final situation.



NOTE:

For multi-split air condtioners, the following functions are not available:

Active clean function, Silence feature, Breeze away function, Refrigerant leakage detection function and Eco feature.

Setting Angle of Air Flow

Setting vertical angle of air flow

While the unit is on, use the **SWING/DIRECT** button on remote control to set the direction (vertical angle) of airflow. Please refer to the Remote Control Manual for details.

NOTE ON LOUVER ANGLES

When using COOL or DRY mode, do not set louver at too vertical an angle for long periods of time. This can cause water to condense on the louver blade, which will drop on your floor or furnishings.

When using COOL or HEAT mode, setting the louver at too small an angle can reduce the performance of the unit due to restricted air flow.

NOTE: According to the relative standards requirement, please sets the vertical air flow louver to its maximum angle under heating capacity test.

Setting horizontal angle of air flow

The horizontal angle of the airflow must be set manually. Grip the deflector rod (See **Fig.B**) and manually adjust it to your preferred direction. **For some units,** the horizontal angle of the airflow can be set by remote control. please refer to the Remote Control Manual.

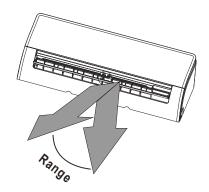
Manual Operation(without remote)

A CAUTION

The manual button is intended for testing purposes and emergency operation only. Please do not use this function unless the remote control is lost and it is absolutely necessary. To restore regular operation, use the remote control to activate the unit. Unit must be turned off before manual operation.

To operate your unit manually:

- 1. Open the front panel of the indoor unit.
- 2. Locate the **MANUAL CONTROL button** on the right-hand side of the unit.
- 3. Press the **MANUAL CONTROL button** one time to activate FORCED AUTO mode.
- 4. Press the **MANUAL CONTROL button** again to activate FORCED COOLING mode.
- 5. Press the **MANUAL CONTROL button** a third time to turn the unit off.
- 6. Close the front panel.



NOTE: Do not move louver by hand. This will cause the louver to become out of sync. If this occurs, turn off the unit and unplug it for a few seconds, then restart the unit. This will reset the louver.

Fig. A

A CAUTION

Do not put your fingers in or near the blower and suction side of the unit. The high-speed fan inside the unit may cause injury.

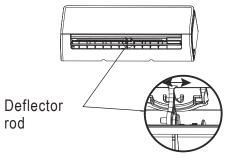
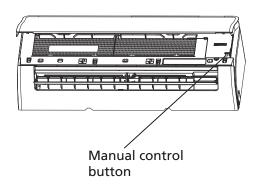


Fig. B



Care and Maintenance

Cleaning Your Indoor Unit



BEFORE CLEANING OR MAINTENANCE

ALWAYS TURN OFF YOUR AIR CONDITIONER SYSTEM AND DISCONNECT ITS POWER SUPPLY BEFORE CLEANING OR MAINTENANCE.

CAUTION

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a cloth soaked in warm water to wipe it clean.

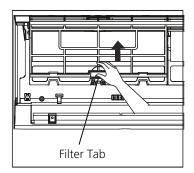
- **Do not** use chemicals or chemically treated cloths to clean the unit
- **Do not** use benzene, paint thinner, polishing powder or other solvents to clean the unit. They can cause the plastic surface to crack or deform.
- **Do not** use water hotter than 40°C (104°F) to clean the front panel. This can cause the panel to deform or become discolored.

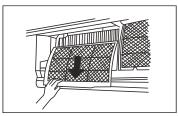
Cleaning Your Air Filter

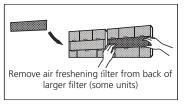
A clogged air conditioner can reduce the cooling efficiency of your unit, and can also be bad for your health. Make sure to clean the filter once every two weeks.

- 1. Lift the front panel of the indoor unit.
- 2. First press the tab on the end of filter to loosen the buckle, lift it up, then pull it towards yourself.
- 3. Now pull the filter out.
- 4. If your filter has a small air freshening filter, unclip it from the larger filter. Clean this air freshening filter with a hand-held vacuum.
- 5. Clean the large air filter with warm, soapy water. Be sure to use a mild detergent.

- 6. Rinse the filter with fresh water, then shake off excess water.
- 7. Dry it in a cool, dry place, and refrain from exposing it to direct sunlight.
- 8. When dry, re-clip the air freshening filter to the larger filter, then slide it back into the indoor unit.
- 9. Close the front panel of the indoor unit.











A CAUTION

Do not touch air freshening (Plasma) filter for at least 10 minutes after turning off the unit.

CAUTION

- Before changing the filter or cleaning, turn off the unit and disconnect its power supply.
- When removing filter, do not touch metal parts in the unit. The sharp metal edges can cut you.
- Do not use water to clean the inside of the indoor unit. This can destroy insulation and cause electrical shock.
- Do not expose filter to direct sunlight when drying. This can shrink the filter.

Air Filter Reminders (Optional)

Air Filter Cleaning Reminder

After 240 hours of use, the display window on the indoor unit will flash "CL." This is a reminder to clean your filter. After 15 seconds, the unit will revert to its previous display.

To reset the reminder, press the **LED** button on your remote control 4 times, or press the MANUAL CONTROL button 3 times. If you don't reset the reminder, the "CL" indicator will flash again when you restart the unit.

Air Filter Replacement Reminder

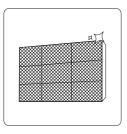
After 2,880 hours of use, the display window on the indoor unit will flash "nF." This is a reminder to replace your filter. After 15 seconds, the unit will revert to its previous display.

To reset the reminder, press the **LED** button on your remote control 4 times, or press the MANUAL CONTROL button 3 times. If you don't reset the reminder, the "nF" indicator will flash again when you restart the unit.

- Any maintenance and cleaning of outdoor unit should be performed by an authorized dealer or a licensed service provider.
- Any unit repairs should be performed by an authorized dealer or a licensed service provider.

Maintenance -**Long Periods of Non-Use**

If you plan not to use your air conditioner for an extended period of time, do the following:



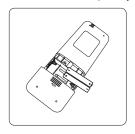
Clean all filters



Turn on FAN function until unit dries out completely



Turn off the unit and disconnect the power



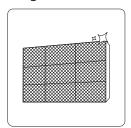
Remove batteries from remote control

Maintenance -**Pre-Season Inspection**

After long periods of non-use, or before periods of frequent use, do the following:



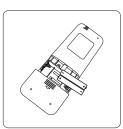
Check for damaged wires



Clean all filters



Check for leaks



Replace batteries





Make sure nothing is blocking all air inlets and outlets

Troubleshooting

A SAFETY PRECAUTIONS

If ANY of the following conditions occurs, turn off your unit immediately!

- The power cord is damaged or abnormally warm
- You smell a burning odor
- The unit emits loud or abnormal sounds
- A power fuse blows or the circuit breaker frequently trips
- Water or other objects fall into or out of the unit

DO NOT ATTEMPT TO FIX THESE YOURSELF! CONTACT AN AUTHORIZED **SERVICE PROVIDER IMMEDIATELY!**

Common Issues

The following problems are not a malfunction and in most situations will not require repairs.

Issue	Possible Causes		
Unit does not turn on when pressing ON/OFF button	The Unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.		
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.		
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.		
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.		
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.		
The indoor unit makes	A rushing air sound may occur when the louver resets its position.		
noises	A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.		
Both the indoor unit and outdoor unit make	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.		
noises	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.		
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.		

Issue	Possible Causes
The outdoor unit makes noises	The unit will make different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which will be emitted during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. In this case, try the following: • Disconnect the power, then reconnect.
	Press ON/OFF button on remote control to restart operation.

NOTE: If problem persists, contact a local dealer or your nearest customer service center. Provide them with a detailed description of the unit malfunction as well as your model number.

Troubleshooting

When troubles occur, please check the following points before contacting a repair company.

Problem	Possible Causes	Solution
	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
Poor Cooling Performance	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
	SILENCE function is activated (optional function)	SILENCE function can lower product performance by reducing operating frequency. Turn off SILENCE function.

Problem	Possible Causes	Solution	
	Power failure	Wait for the power to be restored	
	The power is turned off	Turn on the power	
The unit is not working	The fuse is burned out	Replace the fuse	
Working	Remote control batteries are dead	Replace batteries	
	The Unit's 3-minute protection has been activated	Wait three minutes after restarting the unit	
	Timer is activated	Turn timer off	
The unit starts and	There's too much or too little refrigerant in the system	Check for leaks and recharge the system with refrigerant.	
stops frequently	Incompressible gas or moisture has entered the system.	Evacuate and recharge the system with refrigerant	
	The compressor is broken	Replace the compressor	
	The voltage is too high or too low	Install a manostat to regulate the voltage	
	The outdoor temperature is extremely low	Use auxiliary heating device	
Poor heating performance	Cold air is entering through doors and windows	Make sure that all doors and windows are closed during use	
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant	
Indicator lamps continue flashing	The unit may stop operation or continue to run safely. If the indicator lamps continue to flash or error codes appear, wait for about 10		
Error code appears and begins with the letters as the following in the window display of indoor unit: • E(x), P(x), F(x) • EH(xx), EL(xx), EC(xx) • PH(xx), PL(xx), PC(xx)	minutes. The problem may resolve itself. If not, disconnect the power, then connect it again. Turn the unit on. If the problem persists, disconnect the power and contact your nearest customer service center.		

NOTE: If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact an authorized service center.

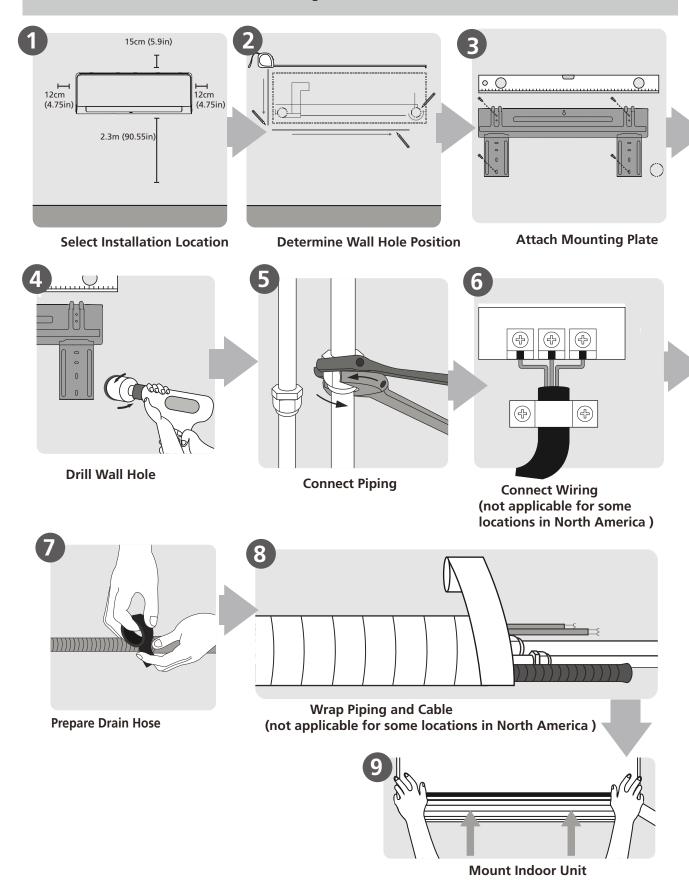
Accessories

The air conditioning system comes with the following accessories. Use all of the installation parts and accessories to install the air conditioner. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail. The items are not included with the air conditioner must be purchased separately.

Name of Accessories	Q'ty(pc)	Shape	Name of Accessories	Q'ty(pc)	Shape
Manual	2~3	Manual	Remote controller	1	
Drain joint (for cooling & heating models)	1		Battery	2	9
Seal (for cooling & heating models)	1	0	Remote controller holder(optional)	1	
Mounting plate	1		Fixing screw for remote controller holder(optional)	2	411111 (
Anchor	5~8 (depending on models)		Small Filter (Need to be installed on the back of main air filter	1~2 (depending	
Mounting plate fixing screw	5~8 (depending on models)	411111111 (by the authorized technician while installing the machine)	on models)	

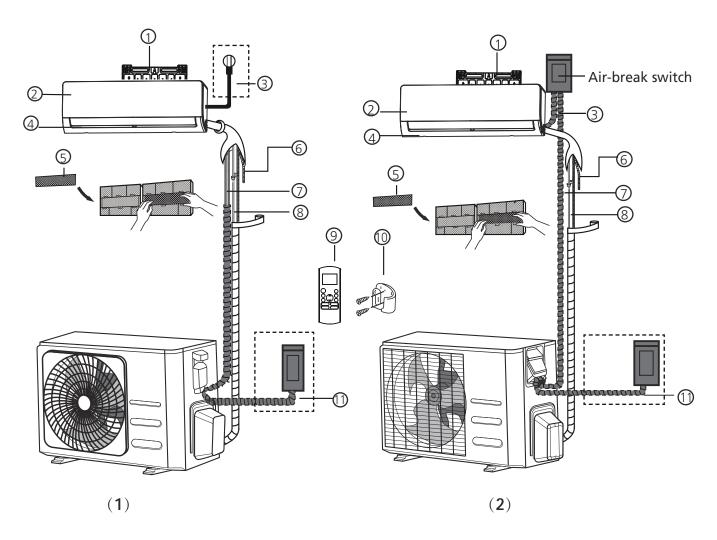
Name	Shape		Quantity(PC)
	tional dela	Φ6.35(1/4in)	
	Liquid side	Ф 9.52(3/8in)	
Connecting pipe assembly		Ф 9.52(3/8in)	Parts you must purchase separately. Consult the dealer
,	Gas side	Φ12.7(1/2in)	about the proper pipe size of
		Φ 16(5/8in)	the unit you purchased.
		Φ 19(3/4in)	
Magnetic ring and belt (if supplied ,please refer to the wiring diagram to install it on the connective cable.)		Pass the belt through the hole of the Magnetic ring to fix it on the cable	Varies by model

Installation Summary - Indoor Unit



Unit Parts

NOTE: The installation must be performed in accordance with the requirement of local and national standards. The installation may be slightly different in different areas.



- 1 Wall Mounting Plate
- ② Front Panel
- (3) Power Cable (Some Units)
- (4) Louver

- Functional Filter (On Back of Main Filter Some Units)
- 6 Drainage Pipe
- 8 Refrigerant Piping

- (9) Remote Controller
- Remote controller Holder (Some Units)
- ① Outdoor Unit Power Cable (Some Units)

NOTE ON ILLUSTRATIONS

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

Indoor Unit Installation

Installation Instructions - Indoor unit

PRIOR TO INSTALLATION

Before installing the indoor unit, refer to the label on the product box to make sure that the model number of the indoor unit matches the model number of the outdoor unit.

Step 1: Select installation location

Before installing the indoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- ☑ Convenient drainage
- Noise from the unit will not disturb other people
- ☑ Firm and solid—the location will not vibrate
- Strong enough to support the weight of the unit
- ☑ A location at least one meter from all other electrical devices (e.g., TV, radio, computer)

DO NOT install unit in the following locations:

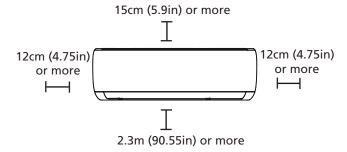
- Near any source of heat, steam, or combustible gas
- Near flammable items such as curtains or clothing
- Near any obstacle that might block air circulation
- Near the doorway
- ⊘ In a location subject to direct sunlight

NOTE ABOUT WALL HOLE:

If there is no fixed refrigerant piping:

While choosing a location, be aware that you should leave ample room for a wall hole (see **Drill wall hole for connective piping** step) for the signal cable and refrigerant piping that connect the indoor and outdoor units. The default position for all piping is the right side of the indoor unit (while facing the unit). However, the unit can accommodate piping to both the left and right.

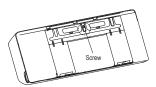
Refer to the following diagram to ensure proper distance from walls and ceiling:



Step 2: Attach mounting plate to wall

The mounting plate is the device on which you will mount the indoor unit.

• Remove the screw that attaches the mounting plate to the back of the indoor unit.



• Secure the mounting plate to the wall with the screws provided. Make sure that mounting plate is flat against the wall.

NOTE FOR CONCRETE OR BRICK WALLS:

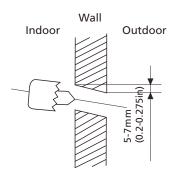
If the wall is made of brick, concrete, or similar material, drill 5mm-diameter (0.2in-diameter) holes in the wall and insert the sleeve anchors provided. Then secure the mounting plate to the wall by tightening the screws directly into the clip anchors.

Step 3: Drill wall hole for connective piping

- Determine the location of the wall hole based on the position of the mounting plate. Refer to **Mounting Plate Dimensions.**
- 2. Using a 65mm (2.5in) or 90mm(3.54in) (depending on models)core drill, drill a hole in the wall. Make sure that the hole is drilled at a slight downward angle, so that the outdoor end of the hole is lower than the indoor end by about 5mm to 7mm (0.2-0.275in). This will ensure proper water drainage.
- 3. Place the protective wall cuff in the hole. This protects the edges of the hole and will help seal it when you finish the installation process.

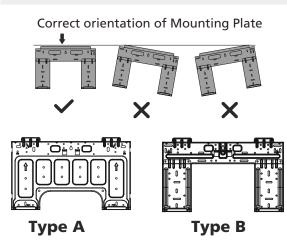


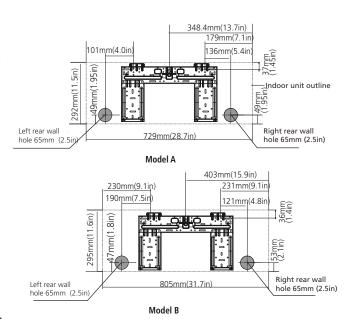
When drilling the wall hole, make sure to avoid wires, plumbing, and other sensitive components.

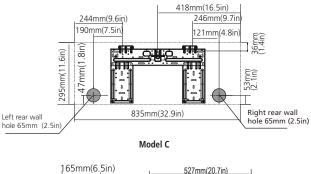


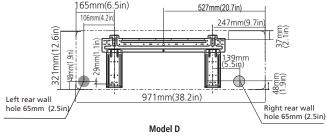
MOUNTING PLATE DIMENSIONS

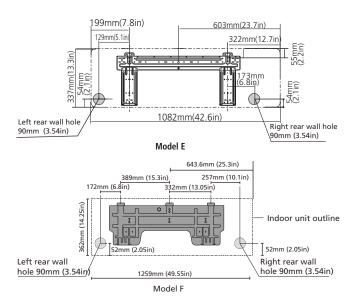
Different models have different mounting plates. For the different customization requirements, the shape of the mounting plate and the dimensions of the indoor unit may be slightly different. See Type A and Type B for example:









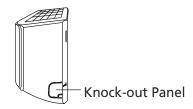


NOTE: When the gas side connective pipe is Φ 16mm(5/8in) or more, the wall hole should be 90mm(3.54in).

Step 4: Prepare refrigerant piping

The refrigerant piping is inside an insulating sleeve attached to the back of the unit. You must prepare the piping before passing it through the hole in the wall.

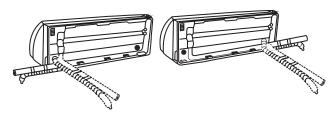
- 1. Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit.
- 2. If the wall hole is behind the unit, keep the knock-out panel in place. If the wall hole is to the side of the indoor unit, remove the plastic knock-out panel from that side of the unit. This will create a slot through which your piping can exit the unit. Use needle nose pliers if the plastic panel is too difficult to remove by hand.



3. If existing connective piping is already embedded in the wall, proceed directly to the **Connect Drain Hose** step. If there is no embedded piping, connect the indoor unit's refrigerant piping to the connective piping that will join the indoor and outdoor units. Refer to the **Refrigerant Piping Connection** section of this manual for detailed instructions.

NOTE ON PIPING ANGLE

Refrigerant piping can exit the indoor unit from four different angles:Left-hand side,Right-hand side, Left rear, Right rear.



A CAUTION

Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

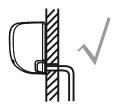
Step 5: Connect drain hose

By default, the drain hose is attached to the lefthand side of unit (when you're facing the back of the unit). However, it can also be attached to the right-hand side. To ensure proper drainage, attach the drain hose on the same side that your refrigerant piping exits the unit. Attach drain hose extension (purchased separately) to the end of drain hose.

- Wrap the connection point firmly with Teflon tape to ensure a good seal and to prevent leaks.
- For the portion of the drain hose that will remain indoors, wrap it with foam pipe insulation to prevent condensation.
- Remove the air filter and pour a small amount of water into the drain pan to make sure that water flows from the unit smoothly.

NOTE ON DRAIN HOSE PLACEMENT

Make sure to arrange the drain hose according to the following figures.



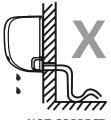
CORRECT

Make sure there are no kinks or dent in drain hose to ensure proper drainage.



NOT CORRECT

Kinks in the drain hose will create water traps.



NOT CORRECT

Kinks in the drain hose will create water traps.



NOT CORRECT

Do not place the end of the drain hose in water or in containers that collect water. This will prevent proper drainage.

PLUG THE UNUSED DRAIN HOLE



To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.

BEFORE PERFORMING ANY ELECTRICAL WORK, READ THESE REGULATIONS

- 1. All wiring must comply with local and national electrical codes, regulations and must be installed by a licensed electrician.
- 2. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- 3. If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
- 4. Power voltage should be within 90-110% of rated voltage. Insufficient power supply can cause malfunction, electrical shock, or fire.
- 5. If connecting power to fixed wiring, a surge protector and main power switch should be installed.
- 6. If connecting power to fixed wiring, a switch or circuit breaker that disconnects all poles and has a contact separation of at least 1/8in (3mm) must be incorporated in the fixed wiring. The qualified technician must use an approved circuit breaker or switch.
- 7. Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
- 8. Make sure to properly ground the air conditioner.
- Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
- 10. Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
- 11. If the unit has an auxiliary electric heater, it must be installed at least 1 meter (40in) away from any combustible materials.
- 12. To avoid getting an electric shock, never touch the electrical components soon after the power supply has been turned off. After turning off the power, always wait 10 minutes or more before you touch the electrical components.



WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

Step 6: Connect signal and power cables

The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.

Cable Types

- **Indoor Power Cable** (if applicable): H05VV-F or H05V2V2-F
- Outdoor Power Cable: H07RN-F or H05RN-F
- **Signal Cable:** H07RN-F **NOTE**: In North America, choose the cable type according to the local electrical codes and regulations.

Minimum Cross-Sectional Area of Power and Signal Cables (For reference) (Not applicable for North America)

Rated Current of Appliance (A)	Nominal Cross-Sectional Area (mm²)
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1
> 10 and ≤ 16	1.5
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6

CHOOSE THE RIGHT CABLE SIZE

The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit.

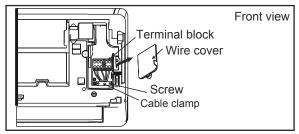
NOTE: In North America, please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

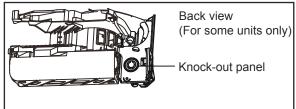
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WARNING

ALL WIRING MUST BE PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIAGRAM LOCATED ON THE BACK OF THE INDOOR UNIT'S FRONT PANEL.

- 1. Open front panel of the indoor unit.
- 2. Using a screwdriver, open the wire box cover on the right side of the unit. This will reveal the terminal block.





NOTE:

- For the units with conduit tube to connect the cable, remove the big plastic konck-out panel to create a slot through which the conduit tube can be installed.
- For the units with five-core cable, remove the middle small plactic knock-out panel to create a slot through which the cable can exit.
- Use needle nose pliers if the plastic panel is too difficult to remove by hand.
- 3. Unscrew the cable clamp below the terminal block and place it to the side.
- 4. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.
- 5. Feed the signal wire through this slot, from the back of the unit to the front.
- 6. Facing the front of the unit, connect the wire according to the indoor unit's wiring diagram, connect the u-lug and firmly screw each wire to its corresponding terminal.

CAUTION

DO NOT MIX UP LIVE AND NULL WIRES

This is dangerous, and can cause the air conditioning unit to malfunction.

- 7. After checking to make sure every connection is secure, use the cable clamp to fasten the signal cable to the unit. Screw the cable clamp down tightly.
- 8. Replace the wire cover on the front of the unit, and the plastic panel on the back.

NOTE ABOUT WIRING

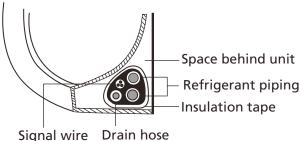
THE WIRING CONNECTION PROCESS MAY **DIFFER SLIGHTLY BETWEEN UNITS AND REGIONS.**

Step 7: Wrappiping and cables

Before passing the piping, drain hose, and the signal cable through the wall hole, you must bundle them together to save space, protect them, and insulate them(Not applicable in North America).

1. Bundle the drain hose, refrigerant pipes, and signal cable as shown below:

Indoor Unit



DRAIN HOSE MUST BE ON BOTTOM

Make sure that the drain hose is at the bottom of the bundle. Putting the drain hose at the top of the bundle can cause the drain pan to overflow, which can lead to fire or water damage.

DO NOT INTERTWINE SIGNAL CABLE WITH **OTHER WIRES**

While bundling these items together, do not intertwine or cross the signal cable with any other wiring.

- 2. Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.
- 3. Using insulation tape, wrap the signal wire, refrigerant pipes, and drain hose tightly together. Double-check that all items are bundled.

DO NOT WRAP ENDS OF PIPING

When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process (refer to **Electrical Checks** and Leak Checks section of this manual).

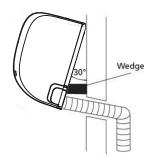
Step 8: Mount indoor unit

If you installed new connective piping to the outdoor unit, do the following:

- 1. If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
- 2. Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
- 3. Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole in the wall.
- 4. Hook the top of the indoor unit on the upper hook of the mounting plate.
- 5. Check that unit is hooked firmly on mounting by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
- 6. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.
- 7. Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

If refrigerant piping is already embedded in the wall, do the following:

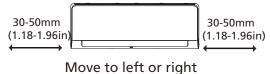
- 1. Hook the top of the indoor unit on the upper hook of the mounting plate.
- 2. Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable, and drain hose.



- 3. Connect drain hose and refrigerant piping (refer to **Refrigerant Piping Connection** section of this manual for instructions).
- Keep pipe connection point exposed to perform the leak test (refer to Electrical Checks and Leak Checks section of this manual).
- 5. After the leak test, wrap the connection point with insulation tape.
- 6. Remove the bracket or wedge that is propping up the unit.
- 7. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.

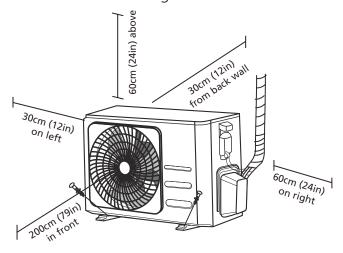
UNIT IS ADJUSTABLE

Keep in mind that the hooks on the mounting plate are smaller than the holes on the back of the unit. If you find that you don't have ample room to connect embedded pipes to the indoor unit, the unit can be adjusted left or right by about 30-50mm (1.18-1.96in), depending on the model.



Outdoor Unit Installation

Install the unit by following local codes and regulations, there may be differ slightly between different regions.



Installation Instructions - Outdoor unit

Step 1: Select installation location

Before installing the outdoor unit, you must choose an appropriate location. The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:

- ☑ Meets all spatial requirements shown in Installation Space Requirements above.
- ☑ Good air circulation and ventilation
- ☑ Firm and solid—the location can support the unit and will not vibrate
- ☑ Noise from the unit will not disturb others
- ☑ Protected from prolonged periods of direct sunlight or rain
- Where snowfall is anticipated, take appropriate measures to prevent ice buildup and coil damage.

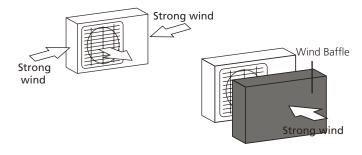
DO NOT install unit in the following locations:

- Near an obstacle that will block air inlets and outlets
- Near a public street, crowded areas, or where noise from the unit will disturb others
- Near animals or plants that will be harmed by hot air discharge
- Near any source of combustible gas
- In a location that is exposed to large amounts of dust
- In a location exposed to a excessive amounts of salty air

SPECIAL CONSIDERATIONS FOR EXTREME WEATHER

If the unit is exposed to heavy wind:

Install unit so that air outlet fan is at a 90° angle to the direction of the wind. If needed, build a barrier in front of the unit to protect it from extremely heavy winds. See Figures below.



If the unit is frequently exposed to heavy rain or snow:

Build a shelter above the unit to protect it from the rain or snow. Be careful not to obstruct air flow around the unit.

If the unit is frequently exposed to salty air (seaside):

Use outdoor unit that is specially designed to resist corrosion.

Step 2: Install drain joint(Heat pump unit only)

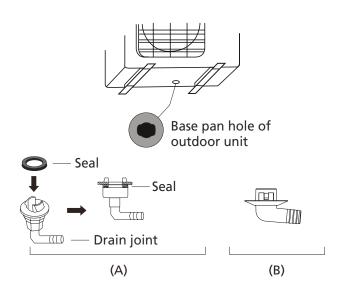
Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. Note that there are two different types of drain joints depending on the type of outdoor unit.

If the drain joint comes with a rubber seal (see **Fig. A**), do the following:

- 1. Fit the rubber seal on the end of the drain joint that will connect to the outdoor unit.
- 2. Insert the drain joint into the hole in the base pan of the unit.
- 3. Rotate the drain joint 90° until it clicks in place facing the front of the unit.
- 4. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.

If the drain joint doesn't come with a rubber seal (see Fig. B), do the following:

- 1. Insert the drain joint into the hole in the base pan of the unit. The drain joint will click in place.
- 2. Connect a drain hose extension (not included) to the drain joint to redirect water from the unit during heating mode.



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IN COLD CLIMATES

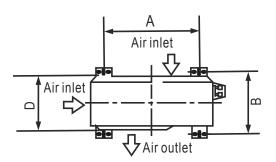
In cold climates, make sure that the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly, it can freeze in the hose and flood the unit.

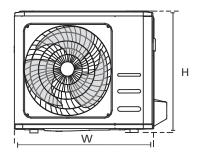
Step 3: Anchor outdoor unit

The outdoor unit can be anchored to the ground or to a wall-mounted bracket with bolt(M10). Prepare the installation base of the unit according to the dimensions below.

UNIT MOUNTING DIMENSIONS

The following is a list of different outdoor unit sizes and the distance between their mounting feet. Prepare the installation base of the unit according to the dimensions below.





Outdoor Unit Dimensions (mm)	Mounting Dimensions		
WxHxD	Distance A (mm)	Distance B (mm)	
681x434x285 (26.8"x17.1"x11.2")	460 (18.1")	292 (11.5")	
700x550x270 (27.5"x21.6"x10.6")	450 (17.7")	260 (10.2")	
700x550x275 (27.5"x21.6"x10.8")	450 (17.7")	260 (10.2")	
720x495x270 (28.3"x19.5"x10.6")	452 (17.8")	255 (10.0")	
728x555x300 (28.7"x21.8"x11.8")	452 (17.8")	302(11.9")	
765x555x303 (30.1"x21.8"x11.9")	452 (17.8")	286(11.3")	
770x555x300 (30.3"x21.8"x11.8")	487 (19.2")	298 (11.7")	
805x554x330 (31.7"x21.8"x12.9")	511 (20.1")	317 (12.5")	
800x554x333 (31.5"x21.8"x13.1")	514 (20.2")	340 (13.4")	
845x702x363 (33.3"x27.6"x14.3")	540 (21.3")	350 (13.8")	
890x673x342 (35.0"x26.5"x13.5")	663 (26.1")	354 (13.9")	
946x810x420 (37.2"x31.9"x16.5")	673 (26.5")	403 (15.9")	
946x810x410 (37.2"x31.9"x16.1")	673 (26.5")	403 (15.9")	

If you will install the unit on the ground or on a concrete mounting platform, do the following:

- 1. Mark the positions for four expansion bolts based on dimensions chart.
- 2. Pre-drill holes for expansion bolts.
- 3. Place a nut on the end of each expansion bolt.
- 4. Hammer expansion bolts into the pre-drilled
- 5. Remove the nuts from expansion bolts, and place outdoor unit on bolts.
- 6. Put washer on each expansion bolt, then replace the nuts.
- 7. Using a wrench, tighten each nut until snug.



WHEN DRILLING INTO CONCRETE, EYE PROTECTION IS RECOMMENDED AT ALL TIMES.

If you will install the unit on a wall-mounted **bracket** , do the following:



/ CAUTION

Make sure that the wall is made of solid brick, concrete, or of similarly strong material. **The** wall must be able to support at least four times the weight of the unit.

- 1.Mark the position of bracket holes based on dimensions chart.
- 2. Pre-drill the holes for the expansion bolts.
- 3. Place a washer and nut on the end of each expansion bolt.
- 4. Thread expansion bolts through holes in mounting brackets, put mounting brackets in position, and hammer expansion bolts into the wall.
- 5. Check that the mounting brackets are level.
- 6. Carefully lift unit and place its mounting feet on brackets.
- 7. Bolt the unit firmly to the brackets.
- 8. If allowed, install the unit with rubber gaskets to reduce vibrations and noise.

Step 4: Connect signal and power cables

The outside unit's terminal block is protected by an electrical wiring cover on the side of the unit. A comprehensive wiring diagram is printed on the inside of the wiring cover.



N WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

1. Prepare the cable for connection:

USE THE RIGHT CABLE

Please choose the right cable refer to "Cable types" in page 22.

CHOOSE THE RIGHT CABLE SIZE

The size of the power supply cable, signal cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit.

NOTE: In North America, please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

- a. Using wire strippers, strip the rubber jacket from both ends of cable to reveal about 40mm (1.57in) of the wires inside.
- b. Strip the insulation from the ends of the wires.
- c. Using a wire crimper, crimp u-lugs on the ends of the wires.

PAY ATTENTION TO LIVE WIRE

While crimping wires, make sure you clearly distinguish the Live ("L") Wire from other wires.

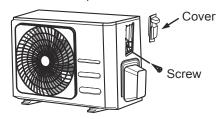


WARNING

ALL WIRING WORK MUST BE PERFORMED STRICTLY IN ACCORDANCE WITH THE WIRING DIAGRAM LOCATED INSIDE OF WIRE COVER OF THE OUTDOOR UNIT.

- 2. Unscrew the electrical wiring cover and remove it.
- 3. Unscrew the cable clamp below the terminal block and place it to the side.
- 4. Connect the wire according to the wiring diagram, and firmly screw the u-lug of each wire to its corresponding terminal.
- 5. After checking to make sure every connection is secure, loop the wires around to prevent rain water from flowing into the terminal.
- 6. Using the cable clamp, fasten the cable to the unit. Screw the cable clamp down tightly.

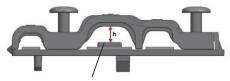
- 7. Insulate unused wires with PVC electrical tape. Arrange them so that they do not touch any electrical or metal parts.
- 8. Replace the wire cover on the side of the unit, and screw it in place.



NOTE: If the cable clamp looks like the following, please select the appropriate through-hole according to the diameter of the wire.



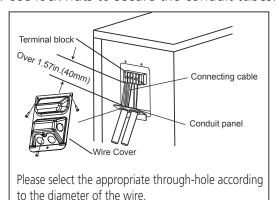
Three size hole: Small, Large, Medium



When the calbe is not fasten enough, use the buckle to prop it up, so it can be clamped tightly.

In North America

- 1. Remove the wire cover from the unit by loosening the 3 screws.
- 2. Dismount caps on the conduit panel.
- 3. Temperarily mount the conduit tubes(not included) on the conduit panel.
- 4. Properly connect both the power supply and low voltage lines to the corresponding terminals on the terminal block.
- 5. Ground the unit in accordance with local codes.
- 6. Be sure to size each wire allowing several inches longer than the required length for wiring.
- 7. Use lock nuts to secure the conduit tubes.



Refrigerant Piping Connection

When connecting refrigerant piping, **do not** let substances or gases other than the specified refrigerant enter the unit. The presence of other gases or substances will lower the unit's capacity, and can cause abnormally high pressure in the refrigeration cycle. This can cause explosion and injury.

Note on Pipe Length

The length of refrigerant piping will affect the performance and energy efficiency of the unit. Nominal efficiency is tested on units with a pipe length of 5 meters (16.5ft)(In North America, the standard pipe length is 7.5m (25')). A minimum pipe run of 3 metres is required to minimise vibration & excessive noise. In special tropical area, for the R290 refrigerant models, no refrigerant can be added and the maximum length of refrigerant pipe should not exceed 10 meters(32.8ft).

Refer to the table below for specifications on the maximum length and drop height of piping.

Maximum Length and Drop Height of Refrigerant Piping per Unit Model

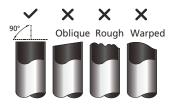
Model	Capacity (BTU/h)	Max. Length (m)	Max. Drop Height (m)
	< 15,000	25 (82ft)	10 (33ft)
R410A,R32 Inverter	≥ 15,000 and < 24,000	30 (98.5ft)	20 (66ft)
Split Air Conditioner	≥ 24,000 and < 36,000	50 (164ft)	25 (82ft)
D22 Fixed second	< 18,000	10 (33ft)	5 (16ft)
R22 Fixed-speed Split Air Conditioner	≥ 18,000 and < 21,000	15 (49ft)	8(26ft)
Spire / iii Corrainorio	≥ 21,000 and < 35,000	20 (66ft)	10(33ft)
R410A, R32 Fixed-speed Split Air Conditioner	< 18,000	20 (66ft)	8(26ft)
	≥ 18,000 and < 36,000	25 (82ft)	10(33ft)

Connection Instructions – Refrigerant Piping

Step 1: Cut pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance.

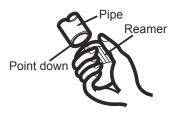
- 1. Measure the distance between the indoor and outdoor units.
- 2. Using a pipe cutter, cut the pipe a little longer than the measured distance.
- 3. Make sure that the pipe is cut at a perfect 90° angle.



O DO NOT DEFORM PIPE WHILE CUTTING

Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating efficiency of the unit. Burrs can affect the air-tight seal of refrigerant piping connection. They must be completely removed.

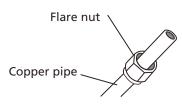
- 1. Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
- 2. Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.



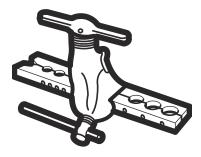
Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

- 1. After removing burrs from cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
- 2. Sheath the pipe with insulating material.
- 3. Place flare nuts on both ends of pipe. Make sure they are facing in the right direction, because you can't put them on or change their direction after flaring.

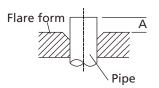


- 4. Remove PVC tape from ends of pipe when ready to perform flaring work.
- 5. Clamp flare form on the end of the pipe. The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.



PIPING EXTENSION BEYOND FLARE FORM

Outer Diameter of	A (mm)		
Pipe (mm)	Min.	Max.	
Ø 6.35 (Ø 0.25")	0.7 (0.0275")	1.3 (0.05")	
Ø 9.52 (Ø 0.375")	1.0 (0.04")	1.6 (0.063")	
Ø12.7 (Ø 0.5")	1.0 (0.04")	1.8 (0.07")	
Ø 16 (Ø 0.63")	2.0 (0.078")	2.2 (0.086")	
Ø 19 (Ø 0.75")	2.0 (0.078")	2.4 (0.094")	



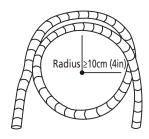
- 6. Place flaring tool onto the form.
- 7. Turn the handle of the flaring tool clockwise until the pipe is fully flared.
- 8. Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

Step 4: Connect pipes

When connecting refrigerant pipes, be careful not to use excessive torque or to deform the piping in any way. You should first connect the low-pressure pipe, then the high-pressure pipe.

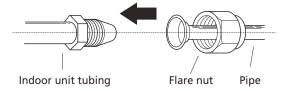
MINIMUM BEND RADIUS

When bending connective refrigerant piping, the minimum bending radius is 10cm.

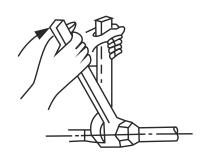


Instructions for Connecting Piping to Indoor Unit

1. Align the center of the two pipes that you will connect.

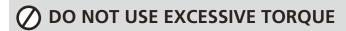


- 2. Tighten the flare nut as tightly as possible by hand.
- 3. Using a spanner, grip the nut on the unit tubing.
- 4. While firmly gripping the nut on the unit tubing, use a torque wrench to tighten the flare nut according to the torque values in the **Torque Requirements** table below. Loosen the flaring nut slightly, then tighten again.



TORQUE REQUIREMENTS

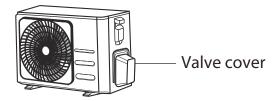
Outer Diameter of Pipe (mm)	Tightening Torque (N•m)	Flare dimension(B) (mm)	Flare shape
Ø 6.35 (Ø 0.25")	18~20(180~200kgf.cm)	8.4~8.7 (0.33~0.34")	٠
Ø 9.52 (Ø 0.375")	32~39(320~390kgf.cm)	13.2~13.5 (0.52~0.53")	90°±4
Ø 12.7 (Ø 0.5")	49~59(490~590kgf.cm)	16.2~16.5 (0.64~0.65")	В
Ø 16 (Ø 0.63")	57~71(570~710kgf.cm)	19.2~19.7 (0.76~0.78")	R0.4~0. 8
Ø 19 (Ø 0.75")	67~101(670~1010kgf.cm)	23.2~23.7 (0.91~0.93")	



Excessive force can break the nut or damage the refrigerant piping. You must not exceed torque requirements shown in the table above.

Instructions for Connecting Piping to Outdoor Unit

- 1. Unscrew the cover from the packed valve on the side of the outdoor unit.
- 2. Remove protective caps from ends of valves.
- 3. Align flared pipe end with each valve, and tighten the flare nut as tightly as possible by hand.
- 4. Using a spanner, grip the body of the valve. Do not grip the nut that seals the service valve.

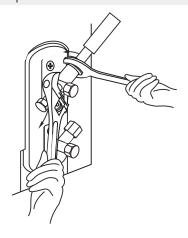


5. While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.

- 6. Loosen the flaring nut slightly, then tighten again.
- 7. Repeat Steps 3 to 6 for the remaining pipe.

USE SPANNER TO GRIP MAIN BODY OF VALVE

Torque from tightening the flare nut can snap off other parts of valve.



Air Evacuation

Preparations and Precautions

Air and foreign matter in the refrigerant circuit can cause abnormal rises in pressure, which can damage the air conditioner, reduce its efficiency, and cause injury. Use a vacuum pump and manifold gauge to evacuate the refrigerant circuit, removing any non-condensable gas and moisture from the system.

Evacuation should be performed upon initial installation and when unit is relocated.

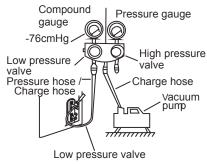
BEFORE PERFORMING EVACUATION

- Check to make sure the connective pipes between the indoor and outdoor units are connected properly.
- Check to make sure all wiring is connected properly.

Evacuation Instructions

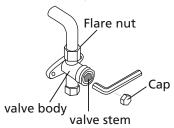
- 1. Connect the charge hose of the manifold gauge to service port on the outdoor unit's low pressure valve.
- 2. Connect another charge hose from the manifold gauge to the vacuum pump.
- 3. Open the Low Pressure side of the manifold gauge. Keep the High Pressure side closed.
- 4. Turn on the vacuum pump to evacuate the system.
- 5. Run the vacuum for at least 15 minutes, or until the Compound Meter reads -76cmHG (-10 ⁵ Pa).





- 6. Close the Low Pressure side of the manifold gauge, and turn off the vacuum pump.
- 7. Wait for 5 minutes, then check that there has been no change in system pressure.

- 8. If there is a change in system pressure, refer to Gas Leak Check section for information on how to check for leaks. If there is no change in system pressure, unscrew the cap
- 9. from the packed valve (high pressure valve). Insert hexagonal wrench into the packed valve (high pressure valve) and open the valve by turning the wrench in a 1/4 counterclockwise turn. Listen for gas to exit the system, then close the valve after 5 seconds.
- 10. Watch the Pressure Gauge for one minute to make sure that there is no change in pressure. The Pressure Gauge should read slightly higher than atmospheric pressure.
- 11. Remove the charge hose from the service port.



- 12. Using hexagonal wrench, fully open both the high pressure and low pressure valves.
- 13. Tighten valve caps on all three valves (service port, high pressure, low pressure) by hand. You may tighten it further using a torque wrench if needed.

OPEN VALVE STEMS GENTLY

When opening valve stems, turn the hexagonal wrench until it hits against the stopper. Do not try to force the valve to open further.

Note on Adding Refrigerant

Some systems require additional charging depending on pipe lengths. The standard pipe length varies according to local regulations. For example, in North America, the standard pipe length is 7.5m (25'). In other areas, the standard pipe length is 5m (16'). The refrigerant should be charged from the service port on the outdoor unit's low pressure valve. The additional refrigerant to be charged can be calculated using the following formula:

ADDITIONAL REFRIGERANT PER PIPE LENGTH

Connective Pipe Length (m)	Air Purging Method	Additional Refrigerant		
≤ Standard pipe length	Vacuum Pump	N/A		
> Standard pipe length	Vacuum Pump	Liquid Side: Ø 6.35 (Ø 0.25") R32: (Pipe length – standard length) x 12g/m (Pipe length – standard length) x 0.13oZ/ft R290: (Pipe length – standard length) x 10g/m (Pipe length – standard length) x 0.10oZ/ft R410A: (Pipe length – standard length) x 15g/m (Pipe length – standard length) x 0.16oZ/ft R22: (Pipe length – standard length) x 20g/m (Pipe length – standard length) x 0.21oZ/ft	R290: (Pipe length – standard length) x 18g/m (Pipe length – standard length) x 0.19oZ/ft R410A: (Pipe length – standard length) x 30g/m (Pipe length – standard length) x 0.32oZ/ft R22: (Pipe length – standard length) x 40g/m	

For R290 refrigerant unit, the total amount of refrigerant to be charged is no more than: 387g(=9000Btu/h), 447g(>9000Btu/h) and =12000Btu/h), 547g(>12000Btu/h) and =18000Btu/h), 632g(>18000Btu/h and <=24000Btu/h).

CAUTION DO NOT mix refrigerant types.

Electrical and Gas Leak Checks

Before Test Run

Only perform test run after you have completed the following steps:

- Electrical Safety Checks Confirm that the unit's electrical system is safe and operating properly
- Gas Leak Checks Check all flare nut connections and confirm that the system is not leaking
- Confirm that gas and liquid (high and low pressure) valves are fully open

Electrical Safety Checks

After installation, confirm that all electrical wiring is installed in accordance with local and national regulations, and according to the Installation Manual.

BEFORE TEST RUN

Check Grounding Work

Measure grounding resistance by visual detection and with grounding resistance tester. Grounding resistance must be less than 0.1Ω .

Note: This may not be required for some locations in North America.

DURING TEST RUN

Check for Electrical Leakage

During the **Test Run**, use an electroprobe and multimeter to perform a comprehensive electrical leakage test.

If electrical leakage is detected, turn off the unit immediately and call a licensed electrician to find and resolve the cause of the leakage.

Note: This may not be required for some locations in North America.

$\dot{\mathbb{N}}$

WARNING – RISK OF ELECTRIC SHOCK

ALL WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES, AND MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

Gas Leak Checks

There are two different methods to check for gas leaks.

Soap and Water Method

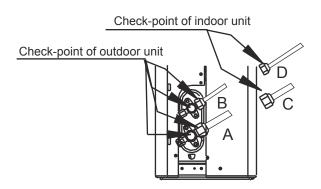
Using a soft brush, apply soapy water or liquid detergent to all pipe connection points on the indoor unit and outdoor unit. The presence of bubbles indicates a leak.

Leak Detector Method

If using leak detector, refer to the device's operation manual for proper usage instructions.

AFTER PERFORMING GAS LEAK CHECKS

After confirming that the all pipe connection points DO NOT leak, replace the valve cover on the outside unit.



A: Low pressure stop valve B: High pressure stop valve C& D: Indoor unit flare nuts

Test Run

Test Run Instructions

You should perform the **Test Run** for at least 30 minutes.

- 1. Connect power to the unit.
- 2. Press the **ON/OFF** button on the remote controller to turn it on.
- 3. Press the **MODE** button to scroll through the following functions, one at a time:
- COOL Select lowest possible temperature
- HEAT Select highest possible temperature
- 4. Let each function run for 5 minutes, and perform the following checks:

perform the following checks.					
List of Checks to Perform	PASS	/FAIL			
No electrical leakage					
Unit is properly grounded					
All electrical terminals properly covered					
Indoor and outdoor units are solidly installed					
All pipe connection points do not leak	Outdoor (2):	Indoor (2):			
Water drains properly from drain hose					
All piping is properly insulated					
Unit performs COOL function properly					
Unit performs HEAT function properly					
Indoor unit louvers rotate properly					
Indoor unit responds to remote controller					

DOUBLE-CHECK PIPE CONNECTIONS

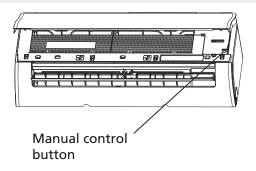
During operation, the pressure of the refrigerant circuit will increase. This may reveal leaks that were not present during your initial leak check. Take time during the Test Run to double-check that all refrigerant pipe connection points do not have leaks. Refer to **Gas Leak Check** section for instructions.

- 5. After the Test Run is successfully completed, and you confirm that all checks points in List of Checks to Perform have PASSED, do the following:
 - a. Using remote control, return unit to normal operating temperature.
 - b. Using insulation tape, wrap the indoor refrigerant pipe connections that you left uncovered during the indoor unit installation process.

IF AMBIENT TEMPERATURE IS BELOW 16°C (60°F)

You can't use the remote controller to turn on the COOL function when the ambient temperature is below 16°C. In this instance, you can use the **MANUAL CONTROL** button to test the COOL function.

- 1. Lift the front panel of the indoor unit, and raise it until it clicks in place.
- 2. The **MANUAL CONTROL** button is located on the right-hand side of the unit. Press it 2 times to select the COOL function.
- 3. Perform Test Run as normal.



Packing and unpacking the unit

Instructions for packing and unpacking the unit:

Unpacking:

Indoor unit:

- 1.Cut the sealing tape on the carton with a knife, one cut on the left, one cut in the middle and one cut on the right.
- 2. Use the vice to take out the sealing nails on the top of the carton.
- 3. Open the carton.
- 4. Take out the middle support plate if it is included.
- 5. Take out the accessory package, and take out the connecting wire if it is included.
- 6.Lift the machine out of the carton and lay it flat.
- 7.Remove the left and right package foam or the upper and lower packaging foam, until the packaging bag.

Outdoor Unit

- 1.Cut the packing belt.
- 2. Take the unit out of the carton.
- 3. Remove the foam from the unit.
- 4. Remove the packaging bag from the unit.

Packing:

Indoor unit:

- 1. Put the indoor unit into the packing bag.
- 2. Attach the left and right package foam or the upper and lower packaging foam to the unit.
- 3. Put the unit into the carton, then put accessory package in.
- 4. Close the carton and seal it with the tape.
- 5. Using the packing belt if necessary.

Outdoor unit:

- 1. Put the outdoor unit into the packing bag.
- 2. Put the bottom foam into the box.
- 3. Put the unit into the carton, then put the upper packaging foam on the unit.
- 4. Close the carton and seal it with the tape.
- 5. Using the packing belt if necessary.

NOTE: Please keep all packaging items if you may need in the future.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details. Any updates to the manual will be uploaded to the service website, please check for the latest version.

CS445UI-18C(AG)(C) 16122000009614 20210715

此面及后面的页面无需印刷

技术要求:

1.80克/平方双胶纸

2.尺寸: A4 3.颜色: 黑白

4.注意:排版时注意页码数字都是靠外面的,以便翻阅

5. 装订。

备注:

- 1. 基准说明书只适合AG/18C平台所有常规安装方式机型,不包含快速连接方式。 只包含基准面板显示,不包含订制显示功能。
- 2. 基准说明书为单英文版本,不含型号及商标,也无制造商信息,请业务根据所销售国家或者区域的法规要求(也可以咨询认证工程师),自行判断是否可以直接使用基准说明书,还是重新申请订单编码说明书,使用对应国家的官方语言,增加型号及其它法规要求信息。
- 3. 非可燃冷媒机型(R32/R290)机型,可以将P6页上的关于R32的安规内容删除:

! WARNING for Using R32/R290 Refrigerant

4. 客户订制面板和显示,如果显示功能跟基准相同,可以直接使用基准说明书 (基准不区分面板差异,如果客户要求体现实际面板效果,那就按客户要求重新做书),如果显示有差异的话,只需替换P7页的显示功能说明内容。

更改说明:

第一次: 10月份更改了P27页X2,X3外机尺寸。

第二次: P9页上增加一拖多备注说明。

第三次: 2019.11.21更改

1. P9页: Active clean function功能说明按内销功能进行修订。

2. P26页增加外机并列安装或者相对安装时的距离示意图。

3. 插入P32页,增加机器安装落差高度及回油弯示意图及文字说明

第四次更改:

2020.4月份更改P3,P6安规语言,P22页兼容北美接线说明,P28页增加压线夹说明书,删除P32页回油弯说明,编码由16122000008614升级为16122000009396。

在16122000009396基础上增加AG90内机尺寸,编码升级为16122000009614.

第五次更改:

2020.12.2号

1. P6页上可燃冷媒安规警示完善。

2. P4-5页上增加UV灯选配安规内容说明。

3.P35页最后一段内容中的17度改为16度。

第六次更改: 2021.04.18

1.第4-5页增加北美 UV灯安规语言。

2. 第20页上的内机尺寸调整。

2021.7.15号更改、增加了打包和拆包装说明内容。