

Features of your new air conditioner

Cool Summer Offer

On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. This summer, beat the heat with your own air conditioner.

Cost Efficient System

Your new air conditioner not only provides maximum cooling power in the summer, but can also be an efficient heating method in the winter with the advanced "Heat pump" system. This technology is up to 300% more efficient than electrical heating, so you can further reduce its running cost. Now, meet year-round needs with one air conditioner.

Flexible installation

Duct type air conditioner is designed to be slimmer and offers different solutions for any shape room allowing for specific air flow requirements. Also, the air intake can be set up on either the bottom or rear of the unit, so there is more flexibility in installation.



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

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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Safety precautions

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

 WARNING	Hazards or unsafe practices that may result in severe personal injury or death .
 CAUTION	Hazards or unsafe practices that may result in minor personal injury or property damage .
	Follow directions.
	Do NOT attempt.
	Make sure the machine is grounded to prevent electric shock.
	Unplug the power plug from the wall socket.
	Do NOT disassemble.

FOR INSTALLATION

WARNING

 **Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.**

- ▶ Extending the power line may result in electric shock or fire.
- ▶ Do not use an electric transformer. It may result in electric shock or fire.
- ▶ If the voltage/frequency/rated current condition is different, it may cause fire.

The installation of this appliance must be performed by a qualified technician or service company.

- ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

Install a switch and circuit breaker dedicated to the air conditioner.

- ▶ Failing to do so may result in electric shock or fire.

Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.

- ▶ Failing to do so may result in electric shock or fire.

FOR INSTALLATION

WARNING

-  **Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.**
 - ▶ This may result in electric shock or fire.**Never install the outdoor unit in a location such as on a high external wall where it could fall.**
 - ▶ If the outdoor unit falls, it may result in injury, death or property damage.

-  **This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**
 - ▶ Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.
 - ▶ Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

FOR INSTALLATION

CAUTION

-  **Install your appliance on a level and hard floor that can support its weight.**
 - ▶ Failing to do so may result in abnormal vibrations, noise, or problems with the product.**Install the draining hose properly so that water is drained correctly.**
 - ▶ Failing to do so may result in water overflowing and property damage.**When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.**
 - ▶ The water generated during the heating operation by the outdoor unit may overflow and result in property damage.
In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

Safety precautions

FOR POWER SUPPLY

WARNING

-  **When the circuit breaker is damaged, contact your nearest service center.**
-  **Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.**
 - ▶ This may result in electric shock or fire.

FOR POWER SUPPLY

CAUTION

-  **When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**
 - ▶ Failing to do so may result in electric shock or fire.

FOR USING

WARNING

-  **If the appliance is flooded, please contact your nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.
- If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.
- In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line.**
- Do not touch the appliance or power line.**
 - ▶ Do not use a ventilating fan.
 - ▶ A spark may result in an explosion or fire.
- To reinstall the air conditioner, please contact your nearest service center.**
 - ▶ Failing to do so may result in problems with the product, water leakage, electric shock, or fire.
 - ▶ A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.
 - ▶ Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

FOR USING

WARNING



Do not touch the circuit breaker with wet hands.

- ▶ This may result in electric shock.

Do not strike or pull the air conditioner with excessive force.

- ▶ This may result in fire, injury, or problems with the product.

Do not place an object near the outdoor unit that allows children to climb onto the machine.

- ▶ This may result in children seriously injuring themselves.

Do not turn the air conditioner off with the circuit breaker while it is operating.

- ▶ Turning the air conditioner off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.

After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.

- ▶ If a child places a bag over its head, it may result in suffocation.

Do not insert your fingers or foreign substances into the outlet when the air conditioner is operating or the front panel is closing.

- ▶ Take special care that children do not injure themselves by inserting their fingers into the product.

Do not touch the front panel with your hands or fingers during the heating operation.

- ▶ This may result in electric shock or burns.

Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.

- ▶ Take special care that children do not injure themselves by inserting their fingers into the product.

Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.

- ▶ Since this may be dangerous due to a lack of oxygen, open a window at least once an hour.

Safety precautions

FOR USING

WARNING

-  **If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.**
 - ▶ Failing to do so may result in electric shock or fire.
-  **Do not attempt to repair, disassemble, or modify the appliance yourself.**
 - ▶ Do not use any fuse (such as cooper, steel wire, etc.) other than the standard fuse.
 - ▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

FOR USING

CAUTION

-  **Do not place objects or devices under the indoor unit.**
 - ▶ Water dripping from the indoor unit may result in fire or property damage.**Check that the installation frame of the outdoor unit is not broken at least once a year.**
 - ▶ Failing to do so may result in injury, death or property damage.**Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.**
-  **Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**
 - ▶ This may result in electric shock, fire, problems with the product, or injury.**Do not operate the appliance with wet hands.**
 - ▶ This may result in electric shock.**Do not spray volatile material such as insecticide onto the surface of the appliance.**
 - ▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.**Do not drink the water from the air conditioner.**
 - ▶ The water may be harmful to humans.**Do not apply a strong impact to the remote controller and do not disassemble the remote controller.**
- Do not touch the pipes connected with the product.**
 - ▶ This may result in burns or injury.

FOR USING

CAUTION

- ⊘ **Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**
 - ▶ This may result in property damage.**Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.**
 - ▶ This may result in harm to humans, animals or plants.**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.**

FOR CLEANING

WARNING

- ⊘ **Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.**
 - ▶ This may result in discoloration, deformation, damage, electric shock or fire.**Before cleaning or performing maintenance, unplug the air conditioner from the wall socket and wait until the fan stops.**
 - ▶ Failing to do so may result in electric shock or fire.

FOR CLEANING

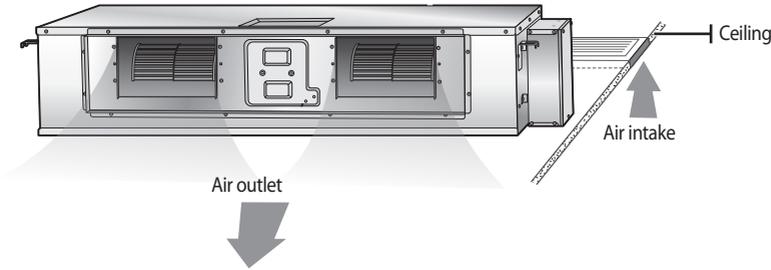
CAUTION

- ⓘ **Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**
 - ▶ To avoid cutting your fingers, wear thick cotton gloves when cleaning it.
- ⊘ **Do not clean the inside of the air conditioner by yourself.**
 - ▶ For cleaning inside the appliance, contact your nearest service center.
 - ▶ When cleaning the internal filter, refer to the descriptions in the 'Cleaning and maintaining the air conditioner' section.
 - ▶ Failure to do so may result in damage, electric shock or fire.

Viewing your air conditioner

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.

Please read the user manual to get started and to make the best use of the air conditioner.



• Your air conditioner may slightly look different from illustration shown above depending on your model.

Using your air conditioner



• A Samsung-branded air conditioning unit installed in an area which is not easily accessible (including without limitation roofs or positions above 2.4 metres for the outdoor unit) may require additional costs for labour and access equipment as may be mandated by occupational health and safety requirements. Such costs are to be borne by you should service or maintenance (including service or maintenance covered by your warranty or by a consumer guarantee) be required.

Tips on using your air conditioner

Here are some tips that you would follow when using your air conditioner.

TOPIC	RECOMMENDATION
Cooling	<ul style="list-style-type: none">• If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.• Avoid drastically turning down the temperature. Energy is wasted and the room does not cool faster.

Using your air conditioner

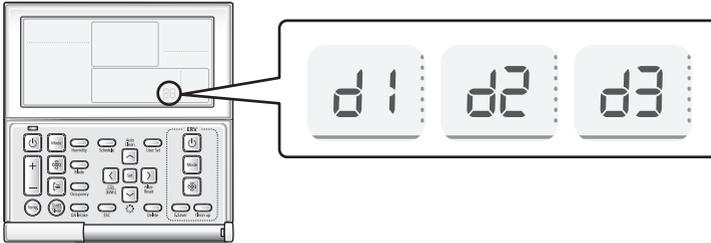
TOPIC	RECOMMENDATION
<p>Heating</p>	<ul style="list-style-type: none"> • Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperatures are extremely low. If you feel the air conditioner insufficiently heats, using an additional heating appliance in combination with the air conditioner is recommended.
<p>Frost & De-ice</p>	<ul style="list-style-type: none"> • When the air conditioner runs in Heat mode, due to temperature difference between the unit and the outside air, frost will form. • If this happens: <ul style="list-style-type: none"> - The air conditioner stops heating. - The air conditioner will operate automatically in De-ice mode for 10 minutes. - The steam produced on the outdoor unit in De-ice mode is safe. • No intervention is required; after about 10 minutes, the air conditioner operates again normally. <div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <p> NOTE • The unit will not operate when it starts to de-ice.</p> </div>
<p>Fan</p>	<ul style="list-style-type: none"> • Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.
<p>High indoor/ outdoor temperatures</p>	<ul style="list-style-type: none"> • If both indoor and outdoor temperatures are high and the air conditioner is running in Heat mode, the outdoor unit's fan and compressor may stop at times. This is normal; wait until the air conditioner turns on again.
<p>Power failure</p>	<ul style="list-style-type: none"> • If a power failure occurs during the operation of the air conditioner, the operating immediately stops and unit will be off. When power returns, the air conditioner will run automatically.
<p>Protection mechanism</p>	<ul style="list-style-type: none"> • If the air conditioner has just been turned on after operation stops or being plugged in, cool/warm air does not come out for 3 minutes to protect the compressor of the outdoor unit.

Using your air conditioner

DEMAND RESPONSE MODE (DRM 1, 2, 3)

This air conditioner is equipped with a Demand Response unit which will respond to a signal sent by the power supply utility during emergency conditions.

- ▶ During a Demand Response Event, the indoor and outdoor unit will be operated according to DRM mode (DRM 1, 2, 3) and indoor unit will show "d1", "d2", "d3" on the display.



AIR CONDITIONER DEMAND RESPONSE MODES			
Operational instruction (OI)	Demand response mode (DRM)*	Description of operation in this mode	Mandatory for compliance with this Standard (AS/NZS 4755.3.1)
OI 1	DRM 1	Compressor off	Yes
OI 2	DRM 2	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	No
OI 3	DRM 3	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 75% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	No

Cleaning and maintaining the air conditioner

For the best performance from your air conditioner, clean it periodically. When cleaning, make sure to unplug from the unit for user's safety.

Maintaining your air conditioner

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Monthly	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	●		
	Clean the condensate drain pan (2)			●
	Thoroughly clean the heat exchanger (2)			●
	Clean the condensate drain pipe (2)		●	
	Replace the remote control batteries (1)			●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)		●	
	Clean the heat exchanger on the inside of the unit (2)			●
	Clean the electric components with jets of air (2)			●
	Verify that all the electric components are firmly tightened (2)			●
	Clean the fan (2)			●
	Verify that all the fan assembly is firmly tightened (2)			●
	Clean the condensate drain pan (2)			●



NOTE

• The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

- 1) The described operations should be performed more frequently if the area of installation is very dusty.
- 2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

Cleaning and maintaining the air conditioner

Maintaining your air conditioner

Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Against cold air	The internal fan will be off to against cold air when the heat pump is heating.
De-ice cycle	The internal fan will be off to against cold air when the heat pump is heating.
Anti-protection of internal battery	The compressor will be off to protect internal battery when the air conditioner operates in Cool mode.
Protect compressor	The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started.



NOTE

- If the heat pump is operating in Heat mode, De-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.
- The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.

Appendix

Troubleshooting

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	<ul style="list-style-type: none">• Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.
The air conditioner does not work at all.	<ul style="list-style-type: none">• Check that the power plug is properly connected. Insert the power plug into the wall socket correctly.• Check if the circuit breaker is switched off.• Check if there is a power failure.• Check your fuse. Make sure it is not blown out.
The temperature does not change.	<ul style="list-style-type: none">• Check if you selected Fan mode. Press the Mode button on the remote control to select another mode.
The cool (warm) air does not come out of the air conditioner.	<ul style="list-style-type: none">• Check if the set temperature is higher (lower) than the current temperature. Press the Temperature button on the remote control to change the set temperature. Press the Temperature button to decrease or increase the temperature.• Check if the air filter is blocked by dirt.• Check if the air conditioner has just been turned on. If so, wait 3 minutes. Cool air does not come out to protect the compressor of the outdoor unit.• Check if the air conditioner is installed in a place with a direct exposure to sunlight. Hang curtains on windows to boost cooling efficiency.• Check if the cover or any obstacle is not near the outdoor unit.• Check if the refrigerant pipe is too long.
The cool (warm) air does not come out of the air conditioner.	<ul style="list-style-type: none">• Check if the air conditioner is only available in Cool mode.• Check if the remote control is only available for cooling model.

Appendix

PROBLEM	SOLUTION
The fan speed does not change.	<ul style="list-style-type: none"> • Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.
Timer function does not set.	<ul style="list-style-type: none"> • Check if you press the Power button on the remote control after you have set the time.
Odors permeate in the room during operation.	<ul style="list-style-type: none"> • Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.
The air conditioner makes a bubbling sound.	<ul style="list-style-type: none"> • A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode. • When you press the Power button on the remote control, noise may be heard from the drain pump inside the air conditioner.
Water is dripping from the air flow blades.	<ul style="list-style-type: none"> • Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.
Remote controller is not working.	<ul style="list-style-type: none"> • Check if your batteries are depleted. • Make sure batteries are correctly installed. • Make sure nothing is blocking your remote control sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
The air conditioner does not turn on or off with the wired remote control.	<ul style="list-style-type: none"> • Check if you set the wired remote control for group control.
The wired remote control does not operate.	<ul style="list-style-type: none"> • Check if TEST indicator is displayed on the wired remote control. If so, turn off the unit and switch off the circuit breaker. Call your nearest contact center.
The indicators of the digital display flashes.	<ul style="list-style-type: none"> • Press the Power button on the remote control to turn the unit off and switch the circuit breaker off. Then, switch it on again.

PROBLEM	SOLUTION
Indoor unit display indicates "d 1, d2, d3"	<ul style="list-style-type: none"> This is not a defect. If the air conditioner receives a Demand Response signal from the power supply utility, then the compressor and fans will be operated according to DRM mode(DRM 1, 2,3). The indoor unit display will indicate "d 1, d2, d3".

Operation ranges

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	18°C to 32°C	-15°C to 46°C	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
HEATING	27°C or less	-20°C to 24°C	-	Internal protection triggers and the air conditioner will stop.
DRYING	18°C to 32°C	-5°C to 50°C	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.



NOTE

- The standardized temperature for heating is 7°C. If the outdoor temperature drops to 0°C or below, the heating capacity can be reduced depending on the temperature condition. If the cooling operation is used at over 32°C(indoor temperature), it does not cool at its full capacity.

Safety precautions

(Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.)



WARNING

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

GENERAL INFORMATION

- ◆ Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- ◆ For maximum safety, installers should always carefully read the following warnings.
- ◆ Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ◆ This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ◆ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- ◆ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ◆ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- ◆ In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- ◆ Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- ◆ The unit contains moving parts, which should always be kept out of the reach of children.
- ◆ Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- ◆ Do not place containers with liquids or other objects on the unit.
- ◆ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ◆ The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- ◆ The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

INSTALLING THE UNIT

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.

- ◆ Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- ◆ After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- ◆ Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- ◆ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

- ◆ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

POWER SUPPLY LINE, FUSE OR CIRCUIT BREAKER

- ◆ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- ◆ Always verify that a suitable grounding connection is available.
- ◆ Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- ◆ Always verify that the cut-off and protection switches are suitably dimensioned.
- ◆ Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- ◆ Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.

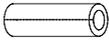
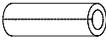
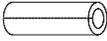
⚠ CAUTION

- ◆ **Make sure that you earth the cables.**
 - **Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire.**
If earthing is not complete, electric shock or fire may occur.
- ◆ **Install the circuit breaker.**
 - **If the circuit breaker is not installed, electric shock or fire may occur.**
- ◆ **Make sure that the condensed water dripping from the drain hose runs out properly and safely.**
- ◆ **Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.**
- ◆ **Install the indoor unit away from lighting apparatus using the ballast.**
 - **If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.**
- ◆ **Do not install the air conditioner in following places.**
 - **Place where there is mineral oil or arsenic acid.**
Resin parts flame and the accessories may drop or water may leak.
The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
 - **The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet.**
The copper pipe or connection pipe may corrode and refrigerant may leak.
 - **The place where there is a machine that generates electromagnetic waves.**
The air conditioner may not operate normally due to control system.
 - **The place where there is a danger of existing combustible gas, carbon fiber or flammable dust.**
The place where thinner or gasoline is handled.
Gas may leak and it may cause fire.

Preparation for installation

Accessories

- ◆ The following accessories are supplied with the indoor unit.
The type and quantity may differ depending on the specifications.

User's & Installation manual 	Flexible hose 	Insulation drain 	Thermal insulation sponge A 	
Thermal insulation sponge B 	Thermal insulation sponge C 	Clamp hose 	Rubber 	Cable-tie 

Wired remote control accessories

Wired remote control(1) 	Cable-tie(2) 	Cable clamp(3) 	M4x16 tapped screw(5) 
User's manual(1) 	Installation manual(1) 	U Terminal (6) 	

Deciding on where to install the indoor unit

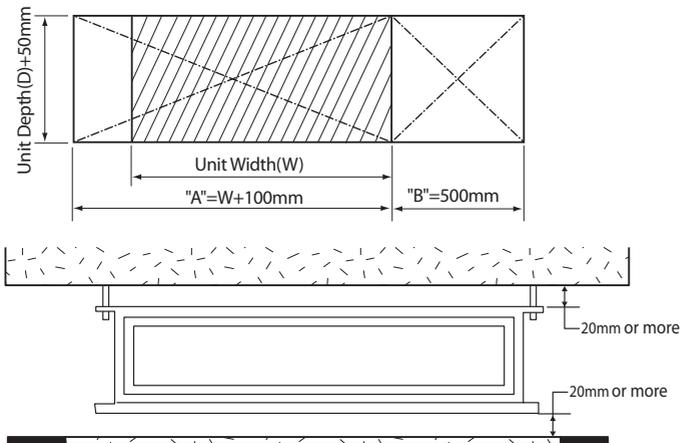
Indoor unit

- ◆ There must be no obstacles near the air inlet and outlet.
- ◆ Install the indoor unit on a ceiling that can support its weight.
- ◆ Maintain sufficient clearance around the indoor unit.
- ◆ Make sure that the water dripping from the drain hose runs away correctly and safely.
- ◆ The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- ◆ After connecting a chamber, insulate the connection part between the indoor unit and the chamber with t10 or thicker insulation. Otherwise, there can be air leak or dew from the connection part.

Space requirements for installation & service

■ Construction Standard for Inspection Hole

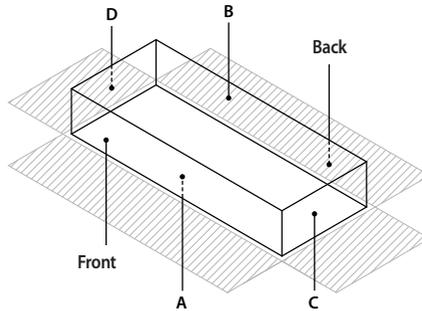
- 1) In case, the ceiling is tex tile, Inspection hole dose not need.
- 2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
 - a. Height is more than 3.28ft(1m) : Only "B" [Inspection for PBA] is applied.
 - b. Height is less than 3.28ft(1m) : Both "A"&"B" are applied.
 - c. "A"&"B" are inspection holes .



- You must have 20mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user. When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install the unit at an height of between 2.2~2.5m from the ground, if the unit has a duct with a well defined length (300mm or more), to avoid fan motor blower contact.
- If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply extra 10mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.

Deciding on where to install the indoor unit

Insulation Guide



Thickness: more than 10mm

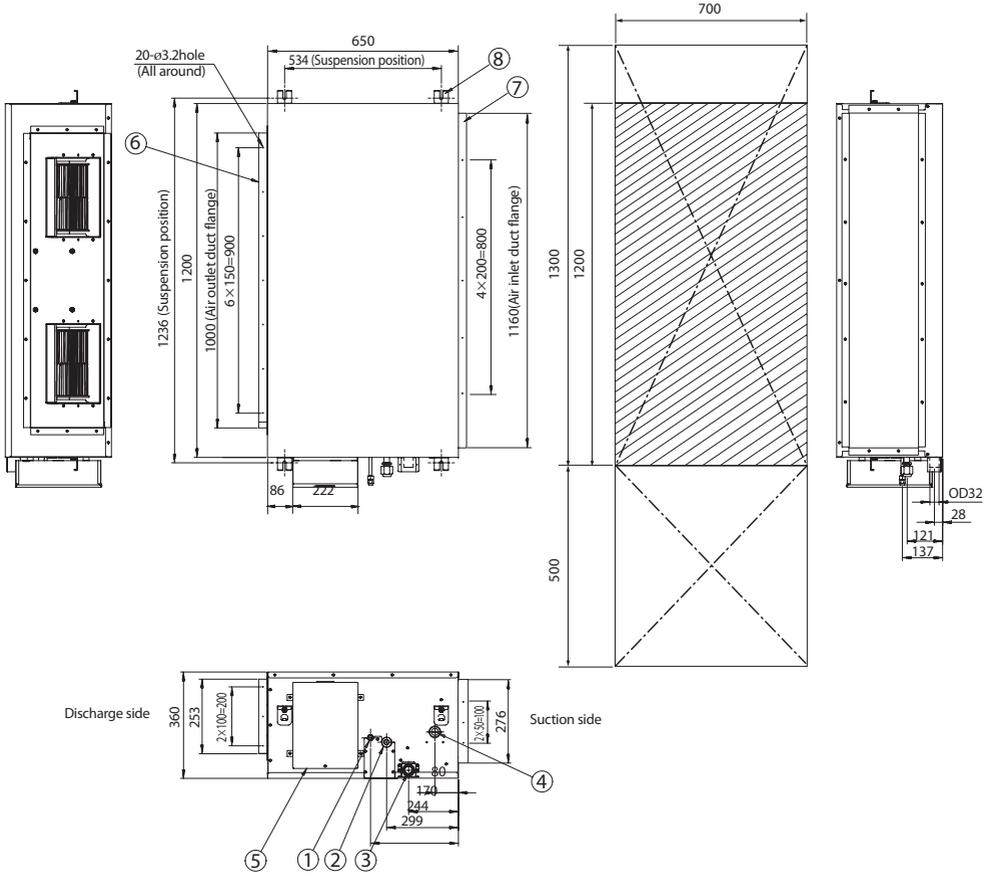
Indoor Unit(Net Size)		A	B	C	D	Front/Back
NS***HHXE*	1200x650x360	1200x650	1200x650	650x360	650x360	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.

- ◆ Insulate the end of the pipe and some curved area by using separate insulator.
- ◆ Insulate the discharge and suction part at the same time when you insulate connection duct.

Drawing of the indoor unit

NS***HHXE*

Unit : mm



No.	Name	Description
1	Liquid pipe connection	ø9.52 (3/8")
2	Gas pipe connection	ø19.05 (3/4")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Drain pipe connection	Using drain pump (Optional)
5	Power supply	-
6	Air outlet duct flange	-
7	Air inlet duct flange	-
8	Hook	M8~M10

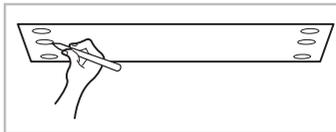
Indoor unit installation

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

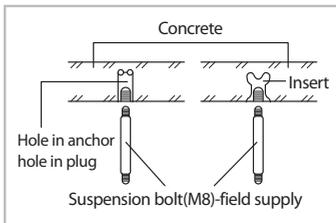
- 1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.



• Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.



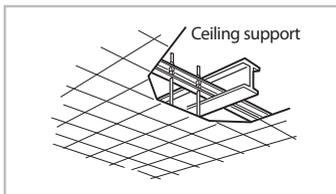
- 2 Insert bolt anchors. Use existing ceiling supports or construct a suitable support as shown in figure.



- 3 Install the suspension bolts depending on the ceiling type.



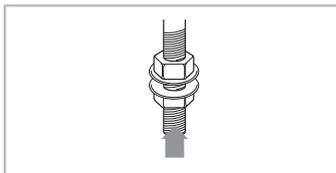
• Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
 • If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.
 • If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.



- 4 Screw eight nuts to the suspension bolts making space for hanging the indoor unit.



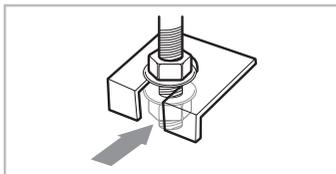
• You must install all the suspension rods.



- 5 Hang the indoor unit to the suspension bolts between two nuts.



• Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.



- 6 Screw the nuts to suspend the unit.

- 7 Adjust level of the unit by using measurement plate for all 4 sides.



• For proper drainage of condensate, give a 3mm slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.

When the drain hose is installed to the right.

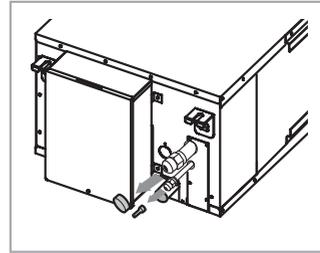


Purging the unit

From factory the unit is supplied and set with a pre-charge of nitrogen gas. (insert gas) Therefore, all insert gas must be purged before connecting the assembly piping.

Unscrew the pinch pipe at the end of each refrigerant pipe.

RESULT : All inert gas escapes from the indoor unit.



- To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.

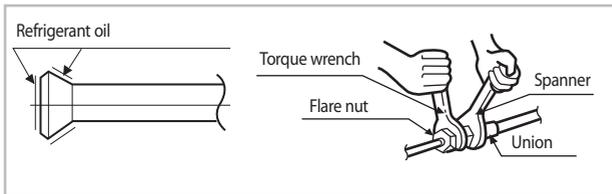
* The designs and shape are subject to change according to the model.

Connecting the refrigerant pipe

There are two refrigerant pipes of different diameters :

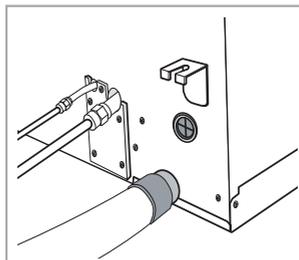
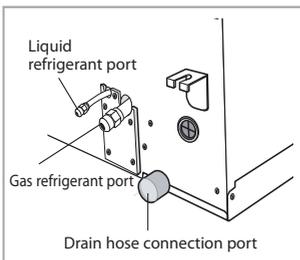
- ◆ A smaller one for the liquid refrigerant
- ◆ A larger one for the gas refrigerant
- ◆ The inside of copper pipe must be clean & has no dust

1. Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.



- If the pipes must be shortened refer to page 26.

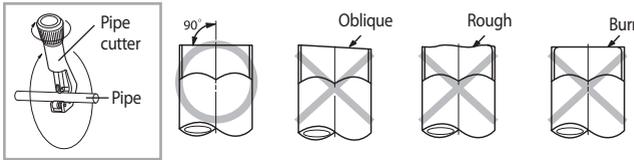
- Must use insulator which is thick enough to cover the refrigerant tube to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.
- Cut off any excess foam insulation.
- Be sure that there must be no crack or wave on the bended area.
- It would be necessary to double the insulation thickness(10mm or more) to prevent condensation even on the insulator when if the installed area is warm and humid.
- Do not use joints or extensions for the pipes that connect the indoor and outdoor unit. The only permitted connections are those for which the units are designed.



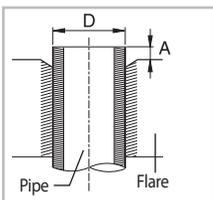
* The designs and shape are subject to change according to the model.

Cutting/Flaring the pipes

1. Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool and pipe holder)
2. If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.

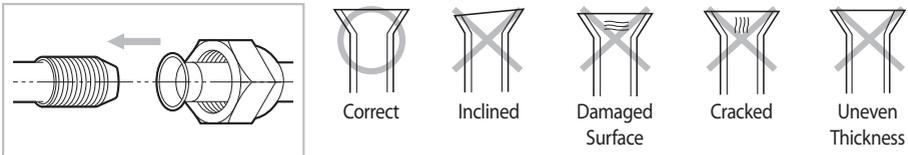


3. To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
4. Slide a flare nut on to the pipe and modify the flare.



Outer Diameter (D)	Depth (A)
ø6.35 mm	1.3 mm
ø9.52 mm	1.8 mm
ø12.70 mm	2.0 mm
ø15.88 mm	2.2 mm
ø19.05 mm	2.2 mm

5. Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.



6. Align the pipes and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.

Valve	Flare nut		Valve cap		Pressure port cap		Valve needle		Pressure port	
	Wrench(mm)	N·m	Wrench(mm)	N·m	Wrench(mm)	N·m	Wrench(mm)	N·m	Wrench(mm)	N·m
1/4"	17	18	23	20	18	16~18	Allen(hex.) 5	9	-	0.34
3/8"	22	42	23	20	18	16~18	Allen(hex.) 5	9	-	0.34
1/2"	26	55	29	40	18	16~18	Allen(hex.) 5	13	-	0.34
5/8"	29	65	29	40	18	16~18	Allen(hex.) 5	13	-	0.34
3/4"	36	100	38	40	18	16~18	Allen(hex.) 5	13	-	0.34



- If the pipes require brazing ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.
- Nitrogen blowing pressure range is 0.02 ~ 0.05MPa.

Performing leak test & insulation

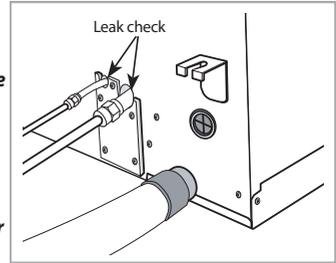
Leak test

◆ LEAK TEST WITH NITROGEN (before opening valves)

In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-410A, it's responsible of installer to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 30 bar (gauge).

◆ LEAK TEST WITH R-410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R-410A.



* The designs and shape are subject to change according to the model.



- Discharge all the nitrogen to create a vacuum and charge the system.

Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

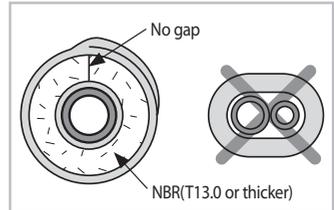
- 1 To avoid condensation problems, place T13.0 or thicker Acrylonitrile Butadien Rubber separately around each refrigerant pipe.



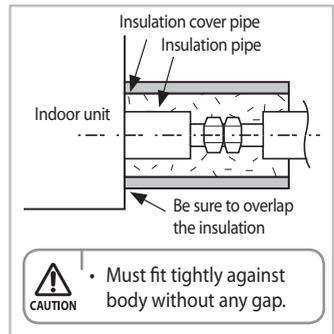
- Always make the seam of pipes face upwards.



- The insulation has to be produced in full compliance of European regulation reg. EEC / EU 2037/ 2000 that requires the use of sheaths insulation form without using CFC and HCFC gases for health and the environment.



- 2 Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.
- 3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 4 The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.



- All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

- 5 Select the insulation of the refrigerant pipe.

- ◆ Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- ◆ Indoor temperature of 30°C and humidity of 85% is the standard condition. If installing in a high humidity condition, use one grade thicker insulator by referring to the table below. If installing in an unfavorable conditions, use thicker one.
- ◆ Insulator's heat-resistance temperature should be more than 120°C.

Performing leak test & insulation

Pipe	Pipe size	Insulation Type (Heating/Cooling)		Remarks
		Standard [30°C, 85%]	High humidity [30°C, over 85%]	
		EPDM, NBR		
Liquid pipe	Ø6.35 ~ Ø9.52	9t	9t	Internal temperature is higher than 120°C
	Ø12.7 ~ Ø19.05	13t	13t	
Gas pipe	Ø6.35	13t	19t	
	Ø9.52	19t	25t	
	Ø12.70			
	Ø15.88			
Ø19.05				

Drainpipe and drain hose installation

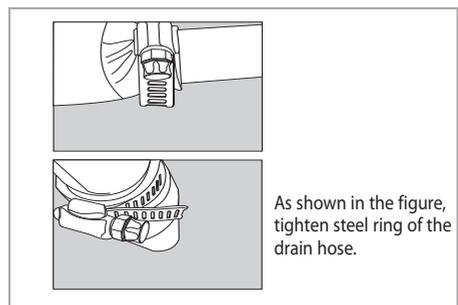
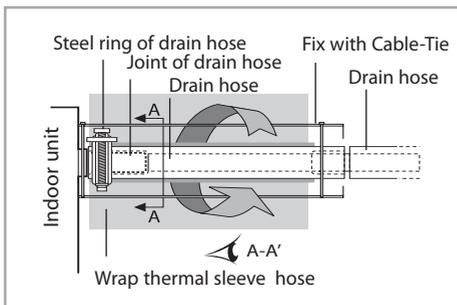
Care must be taken when installing the drain hose for the indoor unit to ensure that any condensate water is correctly drained outside.

The drain hose can be installed to the right of the base pan.

- Installing the drain hose should be the shorter, the better.

 - ◆ In order to discharge condensation water, the drain hose should keep tilted.
 - ◆ Fix the drain hose with Cable-Tie, so that it will not separate from the machine.
 - ◆ While using draining pump, connect the end with draining pump.
- Insulate and fix the drain hose according to the figure.

 - ◆ Insert the drain hose to bottom of the outfall of water basin.
 - ◆ Lock steel ring of the drain hose according to the figure.
 - ◆ Wind and wrap steel ring and drain hose fully with thermal insulation sponge; fix both ends of external layer with ribbon for thermal insulation.
 - ◆ After being installed, drain hose must be insulated fully by heat insulating material. (To be provided at site.)

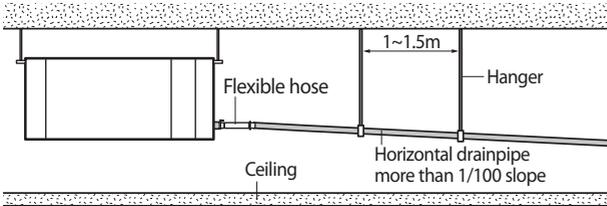


Drainpipe and drain hose installation

Drainpipe Connection

Without the drain pump

1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.
3. Do not install the drainpipe to upward position. It may cause water flow back to the unit.



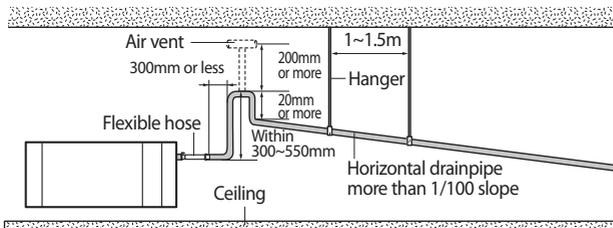
With the drain pump

1. The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.
2. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
3. Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.



You may not need to install it if there were proper slope in the horizontal drainpipe.

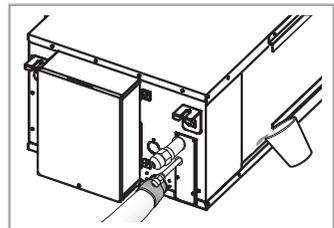
4. The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.



Testing the drainage

Prepare a little water about 5 liter.

1. Pour water into the base pan in the indoor unit as shown in figure.
2. Confirm that the water flows out through the drain hose.



Connecting the connection cord



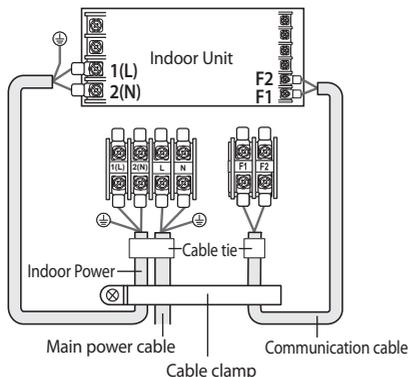
- Always remember to connect the refrigerant pipes before performing the electric connections. When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.
- Always remember to connect the air conditioner to the grounding system before performing the electric connections.

The indoor unit is powered by the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and jacket in polychloroprene(neoprene), in accordance with the requirements of standard EN 60335-2-40.

1. Remove the screw on the electrical component box and remove the cover plate.
2. Route the connection cord through the side of the indoor unit and connect the cable to terminals; refer to the figure below.
3. Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
4. Reassemble the electrical component box cover, carefully tightening the screw.

Wiring diagram

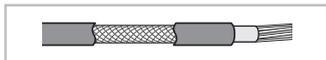
1 phase



Between Indoor and Outdoor Connection cable Specifications(Common in use)

Indoor Power supply			Communication Cable
Power Supply	Max/Min(V)	Indoor Power cable	
220-240V~/50Hz	±10%	0.75~1.5mm ² ,3wires	0.75~1.5mm ² ,2wires

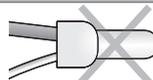
- * For connection cable, use the grade H07RN-F or H05RN-F materials.
- * Screws on terminal block must not be unscrewed with the torque less than 12 kgf-cm.
- * Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.
- * Run transmission wiring between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.



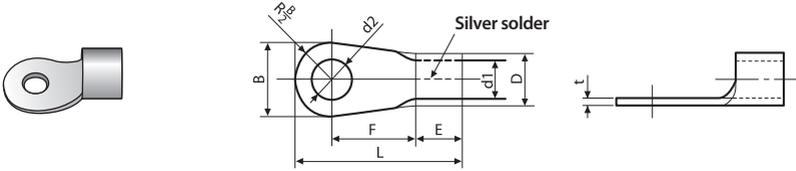
- * When installing the indoor unit in a computer room, use the double shielded(Tape aluminum / polyester braid + copper)cable of FROHH2R type.



In case of extending the electric wire, please DO NOT use a round-shaped pressing socket.
- Incomplete wire connections can cause electric shock or a fire.



Selecting compressed ring terminal



Nominal dimensions for cable (inch ²)		1.5		2.5		4
Nominal dimensions for screw (inch)		4	4	4	4	4
B	Standard dimension (inch)	6.6	8	6.6	8.5	9.5
	Allowance (inch)	±0.2		±0.2		±0.2
D	Standard dimension (inch)	3.4		4.2		5.6
	Allowance (inch)	+0.3		+0.3		+0.3
		-0.2		-0.2		-0.2
d1	Standard dimension (inch)	1.7		2.3		3.4
	Allowance (inch)	±0.2		±0.2		±0.2
E	Min. (inch)	4.1		6		6
F	Min. (inch)	6		6		5
L	Max. (inch)	16		17.5		20
d2	Standard dimension (inch)	4.3		4.3		4.3
	Allowance (inch)	+0.2		+0.2		+0.2
		0		0		0
t	Min. (inch)	0.7		0.8		0.9

Adjusting air flow

E. S. P(External Static Pressure) setting for phase control motor

With its phase control motor, you can adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, adjust the fan speed by referring the following table. In order to set indoor unit fan speed, refer to the next page (setting the indoor unit option code)

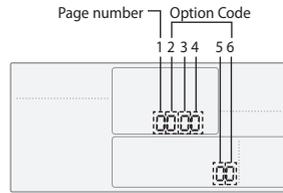
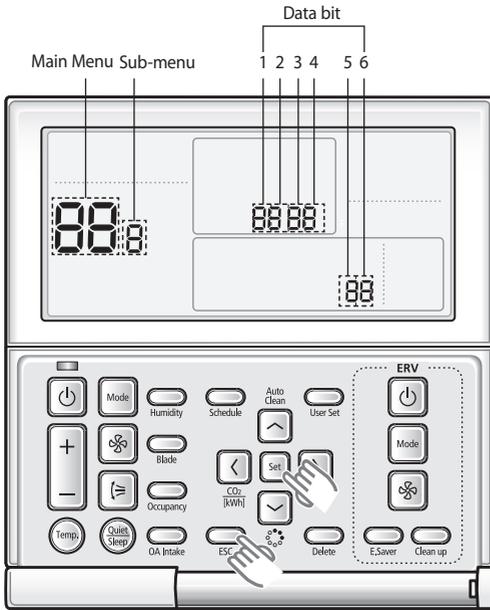
Static Pressure (mmAq)	5.0~7.5	7.5~12.5	12.5~17.5	17.5~20.0
Model	Option code for indoor unit			
NS100HHXEG	011014-1563FB-276470-370000	011044-156060-276470-370000	011044-1560D5-276470-370000	011044-1560FA-276470-370000
NS125HHXEG	011034-15617D-277D8C-370000	011044-1560C1-277D8C-370000	011044-156205-277D8C-370000	011044-15622A-277D8C-370000
NS140HHXEG	011044-1160F3-278CA0-370000	011044-1160F6-278CA0-370000	011044-11628B-278CA0-370000	011044-11626C-278CA0-370000
NS155HHXEG	011044-1160F3-279BAA-370000	011044-1160F6-279BAA-370000	011044-11628B-279BAA-370000	011044-11626C-279BAA-370000



- The operating External Static Pressure range of the product is 5~20mmAq. Using the product outside this range may cause malfunction.
- Select an adequate option code within the External Static Pressure range for each Indoor unit. Selecting an inadequate option code may cause malfunction. The default option code is for External Static Pressure range of 5~7.5mmAq.

Setting the indoor unit option code

In order to set the indoor unit option code use the wired remote controller and follow the directions below.



SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	*	*	*	*	*

Page number

SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	*	*	*	*	*

Page number

SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	*	*	*	*	*

Page number

SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	*	*	*	*	*

Page number

1. Press the **Set** and **ESC** buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
2. Press the **▲/▼** button to select **4** and then press **▶** button to enter a Sub-menu setting screen.
3. Press the **▲/▼** button to select **2** and then press **▶** button to enter a Indoor unit option code setting screen.



NOTE

- The first digit represents the page number and the remaining five digits are option codes.
- The option code which is currently setting will flicker.

4. Press the **▲/▼** button to set the option code in order. Press **▶** button to go to the next page.
5. Press the **Set** button to save and complete the option setting.
6. Press the **ESC** button to exit to normal mode.



NOTE

- Press the **ESC** button anytime during setup to exit without setting.



CAUTION

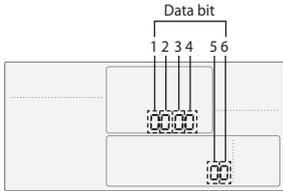
- Option code will not be applied if you don't press the **Set**
- Setting indoor unit option code is only possible in Master wired remote controller. You can only check the indoor unit option code in Slave wired remote controller.
- Setting indoor unit option code is possible when one indoor unit is connected. If more than 2 indoor units are connected, you can only check the Master indoor unit option code.

Setting an indoor unit address and installation option

Set the indoor unit address and installation option with remote controller option. Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

Setting an indoor unit address

1. Press the **Set** and **ESC** buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
2. Press the **Up/Down** button to select **4** and then press **Right** button to enter a Sub-menu setting screen.
3. Press the **Up/Down** button to select **!** and then press **Right** button to enter a Indoor Address setting screen.



NOTE

- The Main/RMC Address which is currently setting will flicker.
- Data bit 1 and 2 present Indoor unit main address checking
- Data bit 3 and 4 present Indoor unit main address setting(outdoor unit reset is needed to set).
- Data bit 5 and 6 present Indoor unit RMC address setting/checking.

4. Press the **Up/Down** button to set the Indoor unit Main/RMC Address.
5. Press the **Set** button to save and complete the option setting.
6. Press the **ESC** button to exit to normal mode.



NOTE

- Press the **ESC** button anytime during setup to exit without setting.
- Address will not be applied if you don't press **Set** button.
- Setting Main/RMC Address of an Indoor unit is available only with a master wired remote controller.

Setting an indoor unit installation option

In order to check and set the indoor unit installation option code use the wired remote controller and follow the directions below.

1. Press the  and  buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
2. Press the  button to select **4** and then press  button to enter a Sub-menu setting screen.
3. Press the  button to select **3** and then press  button to enter a Indoor unit installation option code setting screen.



NOTE

- The first digit represents the page number and the remaining five digits are installation option.
- The total option codes are 24 digits. You can set six digits at a time and it is distinguished by page number (0, 1, 2, 3).

4. Press the  button to set the installation option code in order. Press  button to go to the next page.

SGE1	SGE2	SGE3	SGE4	SGE5	SGE6
0	2	RESERVED	Exterior temperature sensor	Central control	RESERVED
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	RESERVED	RESERVED	RESERVED	Master / Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	-	-	-
3	Individual control of a remote controller	Heating setting compensation	-	-	-

Setting an indoor unit address and installation option

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RESERVED	
Indication and Details	Indication	Details	Indication	Details			Indication	Details	Indication	Details		
	0		2				0	Disuse	0	Disuse		
					1	Use	1	Use				
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		Use of drain pump		RESERVED		RESERVED		RESERVED		Master / Slave	
Indication and Details	Indication	Details	Indication	Details							Indication	Details
	1		0	Disuse							0	slave
			1	Use							1	master
			2	Use + 3minute delay	-	-						
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control		Setting the output of external control		S-Plasma ion		Buzzer control		Number of hours using filter	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 Hour
			1	ON/OFF Control	1	Operation on	1	Use	1	Non use of buzzer	6	2000 Hour
2			OFF Control									
Option	SEG19		SEG20		SEG21		-		-		-	
Explanation	PAGE		control of a remote controller		Heating setting compensation		-		-		-	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	-		-		-	
	3		0 or 1	Indoor 1	0	Disuse	-		-		-	
			2	Indoor 2	1	2°C						
			3	Indoor 3	2	5°C						
4			Indoor 4									

5. Press the  button to save and complete the option setting.

6. Press the  button to exit to normal mode.



NOTE

- Press  button anytime during setup to exit without setting.
- Option code will not be applied if you don't press  button.
- Setting Installation option code is available only with a master wired remote controller.
- Setting Installation option code is available when there is one on one connection between a wired remote controller and an indoor unit.

Troubleshooting

- ◆ If an error occurs during the operation, one or more LED flickers and the operation is stopped except the LED.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.

LED Display on the receiver (Optional)

Abnormal conditions	Indicators					Remarks
	Concealed Type					
	Green	Red				
	Standard Type					
						
Power reset		X	X	X	X	
Error of temperature sensor in the indoor unit (Open/Short)	X	X		X	X	
Error of heat exchanger sensor in the indoor unit		X		X	X	
Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor		X	X		X	
1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from the outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking. (Communication error for more than 2 minutes)	X	X			X	1. Indoor unit error (Display is unrelated with operation) 2. Outdoor unit error (Display is unrelated with operation)

● On ◐ Flickering X Off

- ◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

Troubleshooting

LED Display on the receiver (Optional)

Abnormal conditions	Indicators					Remarks
	Concealed Type					
	Green	Red				
	Standard Type					
						
Communication error between indoor units	●	X	X	X	●	
1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. 2'nd detection of high temperature cond 4. 2'nd detection of high temperature discharge 5. Error of reverse phase 6. Compressor down due to 6th detection of freezing	X	X	●	●	●	
Detection of the float switch	X	X	●	●	●	
Error of setting option switches for optional accessories	X	X	●	X	●	
EEPROM error	●	X	●	●	X	
EEPROM option error	●	●	●	●	●	

● On ● Flickering X Off

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

Wired remote control

- ◆ If an error occurs,  is displayed on the wired remote control. If you would like to see an error code, press the Test button.

Display	Explanation	Remark
<i>101</i>	Indoor unit Communication Error	Communication Error
<i>102</i>	Indoor/Outdoor unit Communication Time Out Error 60 Packet Over data	
<i>201</i>	Indoor unit is not connected	
<i>203</i>	Communication Error between Outdoor Main and Inverter Micom (Occurred after 1 minute detection in Main and Inverter)	
<i>121</i>	Indoor Temp. Sensor (Open/Short Error)	Indoor Sensor Error
<i>122</i>	Indoor Unit Eva in Sensor (Open/Short Error)	
<i>128</i>	Indoor Unit Eva in Sensor Separation	
<i>221</i>	Outdoor Temp. Sensor Error (Open/Short Error)	Outdoor Sensor Error
<i>237</i>	COND Temp. Sensor Error (Open/Short Error)	
<i>251</i>	Inverter Compressor Discharge Temp. sensor Error (Open/Short Error)	
<i>425</i>	Power cable miss connection error	
<i>153</i>	Indoor Float S/W 2 nd Detection	Self Diagnosys Error
<i>460</i>	Outdoor unit - indoor unit communication wire miss connection (Connected to Power terminal)	
<i>554</i>	Outdoor unit refrigerant Full leakage (Gas leak)	
<i>458</i>	Outdoor Fan 1 Error	
<i>475</i>	Outdoor Fan 2 Error	Outdoor Unit Protection Control Error
<i>416</i>	Discharge over temperature	
<i>461</i>	[Inverter] Compressor starting error	
<i>462</i>	Primary Current Over Trip error	
<i>464</i>	[Inverter] DC PEAK error(O.C)	
<i>467</i>	[Inverter] Compressor Rotation error	
<i>468</i>	[Inverter] Current Sensor error	
<i>469</i>	[Inverter] DC LINK Sensor error	
<i>477</i>	[Inverter] EEPROM Read/Write Error	
<i>474</i>	[Inverter] Heatsink temperature over Error	
<i>556</i>	Outdoor unit Capacity Setup option error	Wired Remote Control Error
<i>601</i>	Communication error between Indoor unit and wired remote control	
<i>602</i>	Communication error between Master and Slave wired remote control	
<i>606</i>	COM1/COM2 Cross-installed error	
<i>EA</i>	Error of setting option for wired remote control COM2	



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