AR✳✳KCFS✳✳ Series

Air Conditioner
user & installation manual

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Thank you for purchasing this Samsung product.

DB68-05626A-00

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Features of your new air conditioner

2-step cooling

2-step cooling function will quickly cool the room to reach the set temperature and then it will adjust the fan speed and air flow direction automatically to help you stay comfortable and refreshing.

Fast cooling

If you want the strong and cool air, just select Fast function! It will get you the strongest air!

Comfort cooling

If you want the comfortable and refreshing air, Comfort function will spread the cool air indirectly to you, so that you can stay comfortable.

Single User

Use Single User function when you are alone at home. This function will set the temperature range limit to help you save energy while the air conditioner is operating in Cool mode.

Easy Filter

There is no grille to remove before separating the filter from the air conditioner! Therefore, filter can be cleaned easily, more frequently! Frequent filter cleaning will prevent dust from entering into the product or accumulating on the filter.

good'sleep function

good'sleep function will allow you to have deep, good night's sleep by adjusting the temperature, fan speed and air flow direction.

Smart Install

When the installation is done, your product will examine itself through trial operation to check if it was installed properly.

Easy Installation

It's so easy to install! You can easily hang the product on the wall and connect the pipes and wires by opening the cover on the bottom of the product. Now you won't have to tilt the product to connect the pipe and the wires!

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.		Cut-off the power supply.
	Do NOT attempt.		Do NOT disassemble.
	Make sure the machine is grounded to prevent electric shock.		

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 and may also void warranty on the installed product.

Install a Isolation Switch next to the Air Conditioner (but not on the panels of the Air Conditioner)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, fire, explosion, problems with the product.

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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, and explosion.

▶ Make sure to use a socket-outlet with ground.

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. Avoid adding drain to waste pipes as odours may arise in the future.

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.

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.

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Safety precautions

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, cut-off the power supply immediately and contact the 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.

Do not touch the circuit breaker with wet hands.

▶ This may result in electric shock.

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.

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

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

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

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

FOR USING | ⚠ WARNING

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 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.

If any foreign substance such as water has entered the appliance, cut-off the power supply and contact the 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.

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Safety precautions

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. (example electrical appliances)

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.

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.

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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, cut-off the power supply 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.

▶ This should be done by a qualified technician please contact your installer or service center.

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 the air conditioner' section.

▶ Failure to do may result in damage, electric shock or fire.

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Checking before use

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	Indoor temperature	Outdoor temperature	Indoor humidity
Cooling	16 ˚C~32 ˚C	15 ˚C~52 ˚C	Relative humidity 80% or less
Dry	18 ˚C~32 ˚C	15 ˚C~52 ˚C	-

▶ If the air conditioner operates in cooling mode for long period of time in high humidity area, dew may be formed.

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
Protect compressor	The air conditioner does not start operating immediately to help protect the compressor of the outdoor unit after it has been started.

Smart install

▶ Through Smart install function, installer can check if the installation was done properly.

▶ If the installation was not done properly, error indicator will turn on the indoor unit display. Therefore user will know if the installation was done properly or not.

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Technical Specifications

MODEL		AR18KCFSGWK/GU		AR24KCFSGWK/GU	
CLIMATES CLASS		T1	T3	T1	T3
CAPACITY	COOLING	18000 Btu/h	15800 Btu/h	24000 Btu/h	20300 Btu/h
	HEATING (H1)	-		-	
RATED VOLTAGE & FREQUENCY		220-240 V~ 50 Hz			
RATED CURRENT	COOLING	9.0 A	10.0 A	11.5 A	13.0 A
	HEATING (H1)	-		-	
RATED POWER INPUT	COOLING	1880 W	2200 W	2500 W	2870 W
	HEATING (H1)	-		-	
EER / COP	COOLING	9.57 (Btu/h)/W	7.18 (Btu/h)/W	9.60 (Btu/h)/W	7.07 (Btu/h)/W
	HEATING (H1)	-		-	
REFRIGERANT	TYPE	R-22			
	CHARGE	750 g [26.46 oz]		1280 g [45.15 oz]	
ANNUAL ENERGY CONSUMPTION		1880 kWh/Year	2200 kWh/Year	2500 kWh/Year	2870 kWh/Year
TEMPERATURE	INDOOR	27 ˚C -	29 ˚C -	27 ˚C -	29 ˚C -
		19 ˚C -	19 ˚C -	19 ˚C -	19 ˚C -
	OUTDOOR	35 ˚C -	46 ˚C -	35 ˚C -	46 ˚C -
		24 ˚C -	24 ˚C -	24 ˚C -	24 ˚C -
NET WEIGHT	INDOOR	13.5 kg		13.6 kg	
	OUTDOOR	32.0 kg		53.2 kg	
DIMENSIONS OF THE UNIT [W x H x D]	INDOOR	1065 x 301 x 294 mm		1065 x 301 x 294 mm	
	OUTDOOR	720 x 548 x 265 mm		880 x 793 x 310 mm	
COUNTRY OF ORIGIN		THAILAND			

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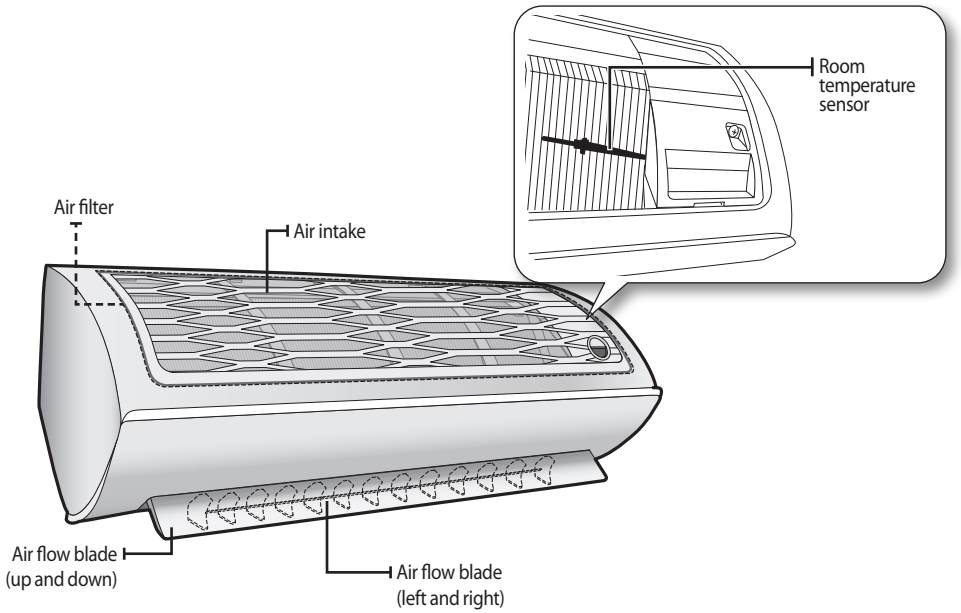
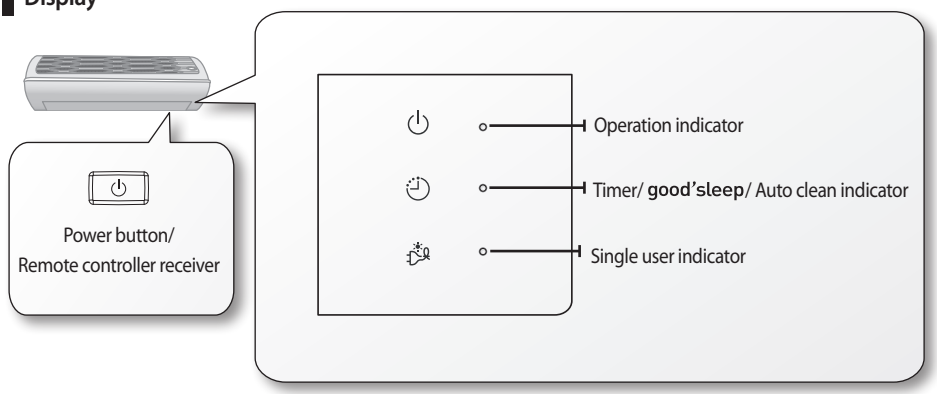
Checking the name of the parts

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

Main parts



Display



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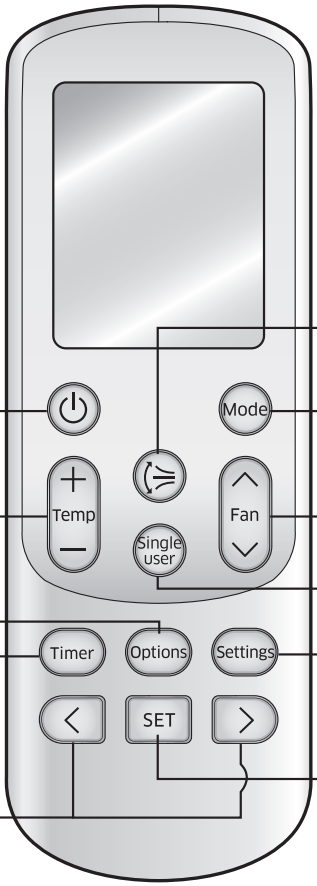
Checking the remote controller

- Point the remote controller towards the remote controller receiver of the indoor unit.
- When you properly press the button on the remote controller, you will hear beep sound from the indoor unit and a transmit indicator(📶) appears on the remote controller display.

Remote controller buttons



Power ⏻
Turn on/off the air conditioner

Temp + −
Increase/Decrease the temperature by 1 ˚C.

Options
Select options during operation

Timer
Select Timer option

Directional < >
Move through the Timer, Options or Settings menu to make a selection

Vertical air swing
Activate/Deactivate vertical air flow blade movement automatically

Mode
Set one of the 5 operating modes

Fan ^ ˇ
Adjust the fan speed

Single User
Turn on/off the Single User function which reduces energy usage while operating in cool mode.

Settings
Select settings

SET
Set/Cancel the selected option or setting

NOTE

• In case you wish to cancel the options or settings that you have just set, press the **Options** or **Settings** button again, then the most recently selected item will blink and you may simply cancel it by pressing the SET button while selected item is blinking.

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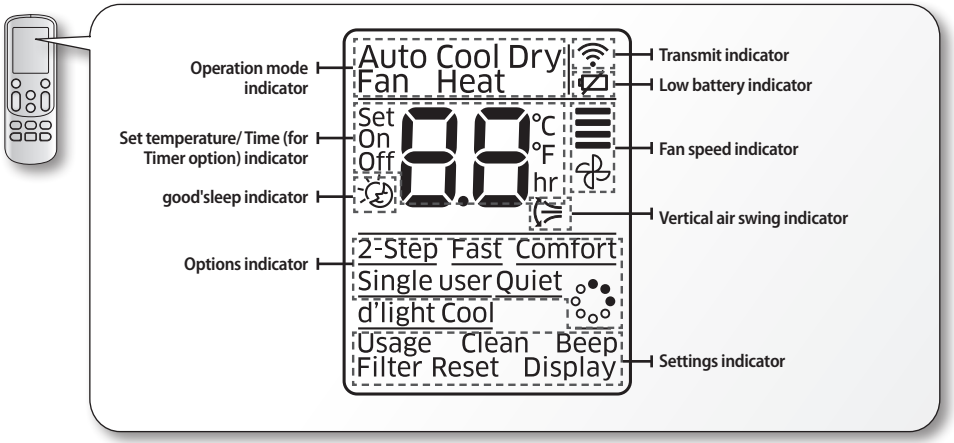
Checking the remote controller

Remote controller display



CAUTION

- Make sure that the water does not get to the remote controller.
- The following function are displayed on the remote controller display but not supported in this model.
  - Heat(AR∗∗KC∗∗)/Quiet/ Virus Doctor ( )/ d'light Cool / Usage / Filter Reset / Display
- When turning off and turning on the remote controller, the **Timer, Options** and **Settings** set before turning off the remote controller are cancelled. However, the fan direction does not change.

Low Battery warning

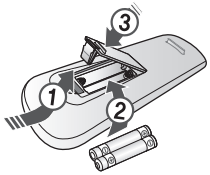
When the battery is exhausted,( ) will be displayed in the remote controller display. When the icon appears, change the batteries. The remote controller requires two 1.5 V AAA type batteries.

Storing the remote controller

When you do not use the remote controller for long time, remove the batteries from the remote controller and store it.

Inserting the batteries

1. **Push the lever as arrow indicates on the rear side of the remote controller and pull up.**
2. **Insert two AAA batteries.**
   Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. **Close the cover by place it back to its original position.**
   You should hear click sound when the cover is locked properly.



NOTE

- The signal may not be received properly if electronic fluorescent lamps such as inverter fluorescent lamps are operating in the same space.
- If other electrical products operate by the remote controller, call your nearest contact center.

Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66.

If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

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Basic function

Basic operation is an operation mode that can be selected by pressing the **Mode** button.

Auto

In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature.

Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

• If current outside temperature is much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air.

Dry mode makes the air feel refreshing in a humid climate.

To activate the Dry mode, set temperature on the remote controller should be lower than indoor room temperature.

Fan

Fan mode can be selected to circulate your room. Fan mode will be helpful to refresh the stale air in your room.

Heat

The air conditioner heats as well as cools. Warm your room with this versatile appliance in the cold of winter.

- Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.
- Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperature is extremely low.
  Use an additional heating appliance in combination with the air conditioner if you feel the air conditioner heats insufficiently.

NOTE

- Only Heating models have this function : AR**KP** series

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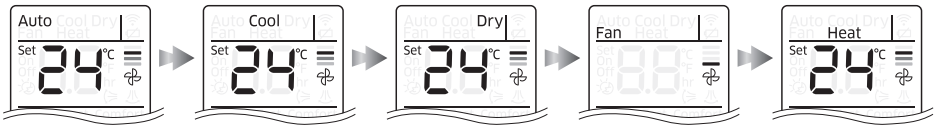
Basic function

Press the button to turn on the air conditioner.

Press the Mode button to set the operating mode.

- Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.



Press the Temp button to adjust the temperature.

Auto	You can adjust the set temperature by 1 °C within the range of 16 °C~30 °C.
Cool	You can adjust the set temperature by 1 °C within the range of 16 °C~30 °C.
Dry	You can adjust the set temperature by 1 °C within the range of 18 °C~30 °C.
Fan	Temperature adjustment is not possible.
Heat	You can adjust the set temperature by 1 °C within the range of 16 °C~30 °C.

Press the Fan button to set the desired fan speed.

Auto	(Auto)
Cool	(Auto), (Low), (Med), (High), (Turbo)
Dry	(Auto)
Fan	(Low), (Med), (High), (Turbo)
Heat	(Auto), (Low), (Med), (High), (Turbo)

NOTE

- Dry mode is only available in the cooling mode.

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Adjusting the air flow direction

Air flow can be directed to your desired position.

Vertical air flow

This function will allow you to adjust the air flow direction vertically.

Press the button to make air flow blades vertically.

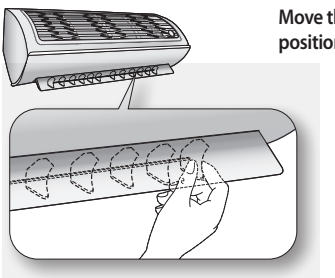
Remote controller display

- To keep the air flow direction in a constant direction, press the button again. The air flow blade(s) will stop the movement.
- If you adjust the vertical air flow blade manually, it may not close completely when you turn off the air conditioner.

NOTE

- Adjusting the air flow direction is not available in good'sleep mode while it is in cool mode.
- However, you can adjust the air flow direction in good'sleep mode while it is in heat mode.

Horizontal air flow



Move the blade pin lever left or right to keep the air flow direction in a constant position you prefer.

CAUTION

- To avoid the risk of personal injuries, adjusting the horizontal air flow direction should only be done when the unit is turned off completely. There is a potential risk of personal injury when the unit is mishandled.

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Setting the On/Off timer

Setting the On timer

When the air conditioner is off;

Remote controller display

1. Press the **Timer** button to select (On).
   - (On) indicator will keep blinking and you can set the time.
2. Press the ◁, ▷ button to set the time.
   - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~24 hours.
   - Time can be set from minimum 30 minutes to maximum 24 hours.
3. Press the **SET** button to complete the On timer setting.
   - (On) indicator and the set time of the timer will be displayed on the remote controller display and the Timer indicator (🕘) will be displayed on the indoor unit display.
   - On timer setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (On) indicator on the remote controller display and the Timer indicator (🕘) on the indoor unit display.

Cancel ▶ Press the **Timer** button → select (On) → press the ◁ or ▷ button → set the timer to 0.0 → press the **SET** button.

Additional options available in On/Off time mode (When the remote controller is on)	
Mode	You can select from Auto/Cool/Dry/Fan/Heat.
Temp	You can adjust the temperature in Auto/Cool/Dry/Heat mode.
Fan	You can adjust the fan speed in Cool/Fan/Heat mode.

NOTE

- When **On timer** setting is completed, the set status will be displayed for 3 seconds, and then only (On) indicator will remain on the remote controller display thereafter.
- If you press the **Power** ⏻ button on the indoor unit after setting the On timer from the remote controller, Timer indicator on the indoor unit display will disappear and the On timer will be cancelled. Even though the On timer is cancelled, (On) indicator on the remote controller will remain displayed.
- When the On timer is set while the air conditioner is off, Timer indicator (🕘) will be displayed and remain on until the On timer turns on.

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Setting the On/Off timer

Setting the Off timer

When the air conditioner is on;

Remote controller display

1. Press the **Timer** button to select (Off).
   - (Off) indicator will keep blinking and you can set the time.
2. Press the ◁, ▷ button to set the time.
   - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~24 hours.
   - Time can be set from minimum 30 minutes to maximum 24 hours.
3. Press the **SET** button to complete the Off timer setting.
   - (Off) indicator and the set time of the timer will be displayed on the remote controller display and the Timer indicator (🕘) will be displayed on the indoor unit display.
   - Off timer setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (Off) indicator on the remote controller display and the Timer indicator (🕘) on the indoor unit display.

Cancel ▶ Press the **Timer** button → select (Off) → press the ◁ or ▷ button → set the timer to 0.0 → press the **SET** button.

NOTE

- Off timer may not work depending on the On/Off status of the indoor unit and the On/Off status of the indicator on the remote controller display.
- Only the latest setting timer will be applied between the On Timer/Off Timer and **good' sleep** Off timer functions.
- After setting the timer, the set time will be displayed for 3 seconds before it disappears.
- If Timer function is used in Heating mode, Air conditioner work into former mode. (AR**KC** series)

Combining On Timer and Off Timer	
When the air conditioner is off	**When the air conditioner is on**
When set time on On timer is shorter than Off timer Ex) On timer : 3 hours, Off timer : 5 hours - The air conditioner will turn on after 3 hours from the moment you have set the timer and the air conditioner will remain on for 2 hours and then turn off automatically.	***When set time on On timer is longer than Off timer*** Ex) On timer : 3 hours, Off timer : 1 hour - The air conditioner will turn off after 1 hour from the moment you have set the timer and turn on after 2 hours from the moment it was turned off.

NOTE

- Set time for the On timer and the Off timer should be different from each other.
- When the On timer and the Off timer is set, setting can be cancelled by pressing the **Power** ⏻ button.

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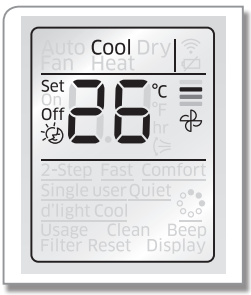
good'sleep mode

For a comfortable sleep, the air conditioner will operate in 3 stages in order of Fall asleep ▷ Sound sleep ▷ Wake up stage.
When the air conditioner is operating in Cool/Heat mode;



Remote controller display

1. Press the **Timer** button to select (good'sleep).
   - (good'sleep) indicator will keep blinking and you can set the time.
2. Press the ◁, ▷ button to set the time.
   - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~12 hours.
   - Time can be set from minimum 30 minutes to maximum 12 hours.
   - Default time setting for the **good'sleep** mode is 8 hours.
3. Press the **SET** button to complete the **good'sleep** mode setting.
   - (good'sleep) indicator and the set time of the **good'sleep** mode will be displayed on the remote controller display.
   - Timer indicator (🕘) will be displayed on the indoor unit display.
   - **good'sleep** mode setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (good'sleep) indicator on the remote controller display and the Timer indicator (🕘) on the indoor unit display.

Cancel ▶ Press the **Timer** button → select (good'sleep) → press the ◁ or ▷ button → set the timer to 0.0 → press the **SET** button.

Additional options available in good'sleep mode	
Temp	You can adjust the set temperature by 1 ℃ within the range of 16 ℃~30 ℃.
Fan	Fan speed will be adjusted automatically according to the **good'sleep** mode. However, If you select **good'sleep** mode while heating operation is on, you can adjust fan speed.
	When the **good'sleep** mode is on. In Cool mode: Air flow direction will be adjusted automatically. In Heat mode: Adjusting air flow direction is available.

Temperature and fan speed change in good'sleep mode

- Fall asleep: Eases you into sleep by dropping the temperature.
- Sound sleep: Relaxes your body and raises your temperature slightly.
- Wake up: Allows you to wake up from comfortable intermittent air and it makes you feel refreshed.

NOTE

- Recommended set temperature is between 25 ℃ ~ 27 ℃ for cooling and 21 ℃~23 ℃ for heating.
- If the set temperature is too low, you may feel cold during sleep or catch a cold.
- Optimal operation hour of **good'sleep** mode is 8 hours. Therefore, if the time is set too short or long, you may not feel as comfortable as you would expect.
- If the **good'sleep** mode is set over 5 hours, Wake up stage will begin when 1 hour is remaining in the operation time and the air conditioner will stop automatically.
- When the On timer and the **good'sleep** function is set simultaneously, the air conditioner will only apply the function that was set later.

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2-Step cooling function

2-Step Cooling function will set the air conditioner to cool the room quickly to reach the set temperature when the indoor temperature is higher than the set temperature, and then the air conditioner will automatically operate in Dry mode when indoor temperature reaches set temperature.

When the air conditioner is operating in Cool mode;

Remote controller display

1. Press the **Options** button.
2. Press the ◁, ▷ or **Options** button until (2-Step) indicator starts to blink.
3. Press the **SET** button to set the 2-Step Cooling function.
   - (2-Step) →(2-Step) indicator will be displayed on the remote controller display and **2-Step Cooling** function will begin.

Cancel ▶ Press the **Options** button → Press the ◁, ▷ or **Options** button to make the (2-Step) indicator blink and press the **SET** button.

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Using the Fast function

You can set the Fast function to provide fast and powerful cooling.

When the air conditioner is operating in Cool mode;

Remote controller display

1. Press the **Options** button.
2. Press the ◁, ▷ or **Options** button until (Fast) indicator starts to blink.
3. Press the **SET** button to set the Fast function.
   - (Fast) →(Fast) indicator will be displayed on the remote controller display and **Fast** function will begin.

Cancel ▶ Press the **Options** button→ Press the ◁, ▷ or **Options** button to make the (Fast) indicator blink and press the **SET** button.

NOTE

- Fast function is only available in Cool mode.
- Vertical air swing can be adjusted.
- Set temperature and fan speed cannot be adjusted.
- If the Fast function is selected while 2-Step Cooling/Comfort/Single user/ good'sleep function is on, corresponding function will be cancelled

Using the Comfort function

You can set the Comfort function to provide mild cooling.

When the air conditioner is operating in Cool mode;

Remote controller display

1. Press the **Options** button.
2. Press the ◁, ▷ or **Options** button until (Comfort) indicator starts to blink.
3. Press the **SET** button to set the Comfort function.
   - (Comfort) →(Comfort) indicator will be displayed on the remote controller display and **Comfort** function will begin.

Cancel ▶ Press the **Options** button → Press the ◁, ▷ or **Options** button to make the (Comfort) indicator blink and press the **SET** button.

NOTE

- Comfort function is only available in Cool mode.
- Vertical air swing can be adjusted.
- Set temperature can be adjusted, but fan speed cannot be adjusted.
- If the Comfort function is selected while 2-Step Cooling/ Fast / Single user/ good'sleep function is on, corresponding function will be cancelled.

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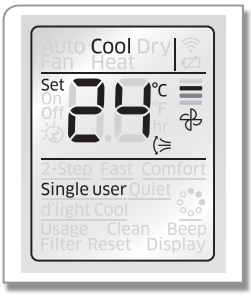
Using the Single User function

This function will reduce the energy usage while the air conditioner is operating in Cool mode.

When the air conditioner is operating in Cool mode;



Remote controller display

Press the **Single user** button.

- (Single user) indicator will be displayed on the remote controller display. Then ☷ ☷ ☷ ☷ _ _ will be displayed on the set temperature indicator part for few seconds and Single user function will begin.
- When the Single user function is on, vertical air swing will turn on automatically.
- If the current set temperature is lower than 24℃ in Cool mode, it will be automatically raised to 24 ℃.

Cancel ▶ Press the **Single user** button once again.

NOTE

- Single user function is only available in Cool mode.
- If the Single user function is selected while 2-Step Cooling/Fast/Comfort / **good'sleep** function is on, corresponding function will be cancelled.
- Vertical air swing will remain on even after the Single user function is cancelled.
- Select or cancel the **Single User** function with the **Options** button.
  - Press the **Options** button → press the ◁, ▷ or **Options** button to make (Single user) indicator blink and press the **SET** button.

Additional options available in Single user function	
Temp	You can adjust the set temperature by 1 ℃ within the range of 24 ℃ ~ 30 ℃ in Cool mode.
Fan	☷ (Auto), ☰ (Low), ☰ (Med), ☰ (High), ☰ (Turbo) can be selected.
	Vertical air swing can be selected.

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Using the Auto Clean function

Auto clean function will minimise the moisture inside of the indoor unit. Activate this function to help provide you with clean air.

When the air conditioner is operating;

Indoor unit display

1. Press the **Settings** button.
2. Press the ◁, ▷ or **Settings** button until (Clean) indicator starts to blink.
3. Press the **SET** button to set the Auto clean function.
   - 3 seconds after setting **Auto clean** function, (Clean) indicator on the remote controller display will disappear and **Timer** indicator (🕘) will turn on the indoor unit display. Auto clean function will be activated after the air conditioner stops operating.
   - Duration of the Auto clean function can be different depending on the previous operation mode used.

     Auto(cool), Cool, Dry mode : 30 minutes.

     Auto(heat), Heat, Fan mode :15 minutes.

Cancel ▶ Press the **Settings** button → Press the ◁, ▷ or **Settings** button to make the (Clean) indicator blink and press the **SET** button.

NOTE

- When the operation mode is set during Auto clean function is activated, the air conditioner will operate in chosen operation mode and the Auto clean function will be re-activated when the operation stops.
- During the auto clean function, indoor fan will continue to run and air flow blade will remain open to expel ambient air.
- 🕘 lighting in Auto clean mode.

Setting the Beep sound

Beep sound from the indoor unit can be muted.

1. Press the **Settings** button.
2. Press the ◁, ▷ or **Settings** button until (Beep) indicator starts to blink.
3. Press the **SET** button to mute the beep sound.
   - 3 seconds after setting **Beep sound** function, (Beep) indicator on the remote controller display will disappear and **Beep sound** function will begin.

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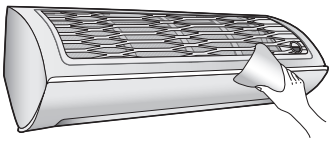
Cleaning the air conditioner

CAUTION

- **Make sure to turn off the power of the indoor unit and cut-off the power supply before cleaning the air conditioner.**

Cleaning the indoor unit



- Clean the product with a tepid damp cloth.
- Remove the dust accumulated in the gap of the product with a soft brush.

NOTE

- Contact the service center when you clean the indoor unit heat exchanger because it needs to be disassembled.

CAUTION

- Do not clean the display using alkaline detergent.
- Do not use sulfuric acid, hydrochloric acid, organic solvents (such as thinner, kerosene and acetone etc.) to clean the surface of the product or put any stickers on it. They may damage the surface of the air conditioner.

Cleaning the outdoor unit heat exchanger

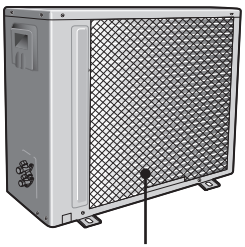
- When dust accumulates on the heat exchanger, it may decrease cooling performance. Therefore, clean it regularly.
- Spray water to clean the dust.

NOTE

- If it is difficult to clean the outdoor unit heat exchanger on your own, contact service center.

CAUTION

- Be careful with the sharp edges on the outdoor unit heat exchanger.



Heat exchanger

(Illustration may differ slightly depending on the models)

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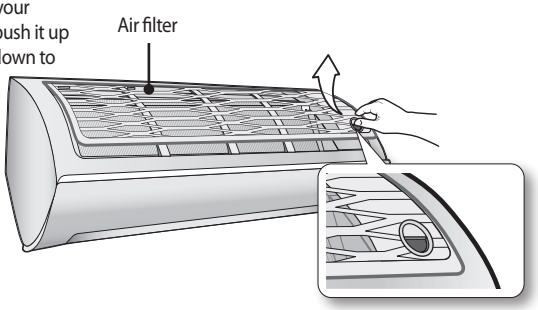
Cleaning the air conditioner

Removing the Air filter

There is a hole on the bottom right side of the filter. Put your finger in that hole to get a grip on the filter and slightly push it up to release the hooks from the bottom side. Then, pull it down to remove the filter from the main body.

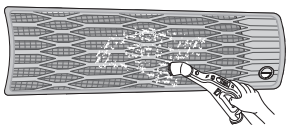


Cleaning the air filter

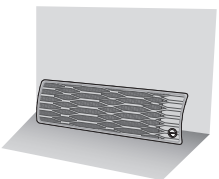
Washable foam based air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

Remove the air filter from the main body.

Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, rinse it with running water.



Dry the Air filter in a ventilated area.



Insert the air filter back in its original position.

NOTE

- Clean the Air filter every 2 weeks. Cleaning term may differ depending on the usage and environmental conditions. In dusty area, clean it once a week.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.

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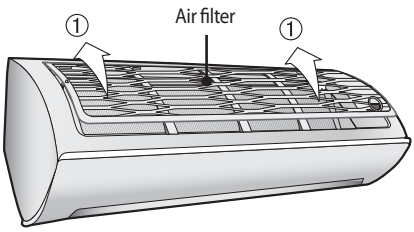
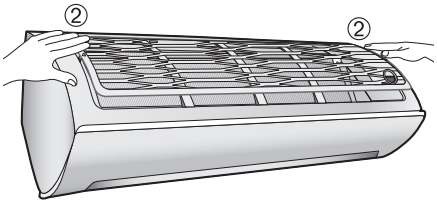
Cleaning the air conditioner

Reassembling the Air filter

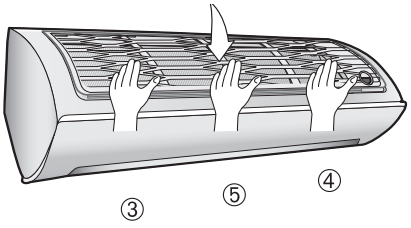
1. Put the filter on the main body and insert the hooks which are in the top of the Air filter into the main body. ①



2. There's one hook in both side of the filter, press the surface of the Air filter softly and get the hooks into the main body. ②



3. Press the bottom of the filter lightly to securely fix the main body. ③ ④ ⑤



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Maintaining the 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 cut-off the power supply. 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	Every 2 weeks	Every 3 months	Every 4 months	Once a year
Indoor unit	Clean the Full HD filter (1)	●			
	Clean the condensate drain pan (2)				●
	Thoroughly clean the heat exchanger (2)				●
	Clean the cross fan (2)			●	
	Clean the condensate drain pipe (2)			●	
	Replace the remote controller 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)				●

● : **This check mark requires checking the indoor/outdoor unit periodically. Follow the description to maintain the air conditioner properly.**

CAUTION

(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 part in the manual.

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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 work at all.	• Check power status and then operate the air conditioner again. • Plug in or switch on the circuit breaker and then operate the air conditioner again. • Ensure Isolator is switch on. • Check if you have set the Off Timer. Operate the air conditioner again by pressing the **Power** button.
The temperature adjustment is not working.	• Check if you have selected Fan/Fast mode. In these modes, desired temperature is set to auto and you cannot adjust the temperature.
Cool/Warm air does not come out of the air conditioner.	• Check if the set temperature is higher(during Cool mode)/ lower(during Heat mode) than the current temperature. Press the **Temp +** or **-** button on the remote controller to change the set temperature. • Check if the Air filter is blocked by dirt. If there is a lot of dust on the Air filter, cooling(heating) performance may decrease. Clean them frequently. • Check if the outdoor unit is covered or installed near the obstacle. Take the cover off and take the obstacle away. • Check if the air conditioner is operating in Defrost mode. When the ice formed in winter or the outdoor temperature is too low, the air conditioner operates in Defrost mode automatically. In Defrost mode, indoor fan stops and warm air does not come out. • If the doors or windows are open, it may cause bad cooling (heating) performance. Close the doors and windows. • Check if the air conditioner has just been turned on after stopping cooling or heating operation. In this case, just a fan will run to protect the outdoor unit compressor. • Check if the pipe length is too long. When the pipe length exceeds maximum allowable pipe length, cooling (heating) performance may decrease.
Air flow adjustment is not working.	• Check if you have selected **good'sleep** mode. In this mode, you cannot adjust the air flow direction. (If the **good'sleep** mode is operating in Heat mode, you can adjust the air flow direction.)

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PROBLEM	SOLUTION
Fan speed adjustment is not working.	• Check if you have selected Auto/Dry/Fast/**good'sleep** mode. In these mode, fan speed is set to Auto and you cannot adjust the fan speed.
Remote controller is not working.	• Check if your batteries are depleted. • Make sure nothing is blocking your remote controller 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.
Timer function does not set.	• Check if you press the **SET** button on the remote controller after you have set the time.
The indicator is blinking continuously.	• Press the **Power** ⏻ button or disconnect the power plug/switch off the auxiliary power switch. If the indicator is still blinking, contact the service center.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area. Ventilate the room or operate the air conditioner in Fan mode for 1~2 hours. (We do not use smelly components in the air conditioner.) • Check the Drains have been cleared Regular Maintenance.
Error is indicated.	• When an indoor unit indicator blinks, contact the nearest service center. Please ensure the error code is passed onto the service center when booking the service call.
Noise is generated.	• Depending on the status of the air conditioner usage, noise can be heard when refrigerant flow movement changes. It is normal.
Smoke is generated from the outdoor unit.	• If may not be a fire but it can be a steam generated by the defrost operation from outdoor heat exchanger during Heat mode in winter.
Water is dropping from the outdoor unit piping connection.	• Water may be generated because of the temperature difference. It is normal.

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Safety precautions

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

- 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.
- This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), and the Electromagnetic Compatibility Directive (2004/108/EC) of the European Union.
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and 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 help 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 controller(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.

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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.
- To help prevent injury when accidentally touching the indoor unit fan, install the indoor unit at least 2.5 m above the floor.
- 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.

Choosing the installation location

Indoor unit

- For Wi-Fi Air-conditioner installation, select indoor unit location near to wireless router.
  In case Wi-Fi signal strength weakened , Smart APP may be disconnected depending on the Wi-Fi signal strength.
- Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight .
- 1 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from the fluorescent and incandescent lights (so that the remote controller can be operated well).
- A place where the air filter can be replaced easily.
- Don't install directly above electronics equipment as leaking water may cause damage if not serviced. (eg. Computers, TV, etc).

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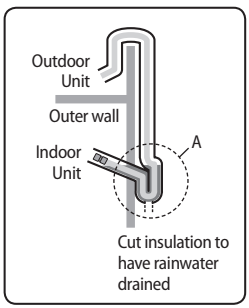
Choosing the installation location

Outdoor Unit

- Where it is not exposed to strong wind
- Well ventilated and dustless places
- Where possible keep out of sunlight and rain
- Where neighbors are not annoyed by operation sound or hot air
- Solid wall or support that prevents vibration and is strong enough to hold the product weight
- Where there is no risk of flammable gas leakage
- When installing the unit at a high place be sure to fix the unit legs
- 3 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated)
- Install the unit horizontally
- Place where drained water does not become any problem.
- Place with no plants (especially climbing plants) and where small animal can not access.
- Outdoor unit should not be place higher than 2.4 m or directly under eaves for accessibility for service and OH&S reasons.

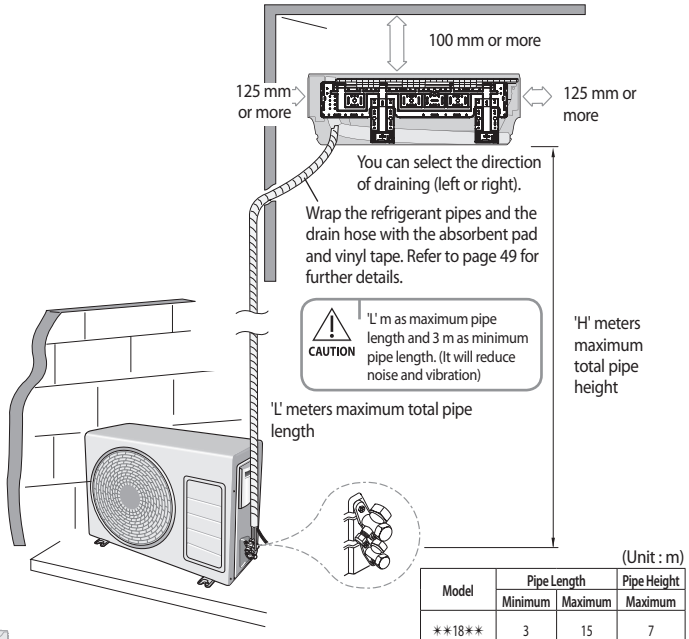
CAUTION

- Avoid the following places to prevent malfunction of the unit
  - Where there is machine oil
  - Where sulfide gas exists
  - Salty environment such as seaside areas
  - Other special atmosphere areas



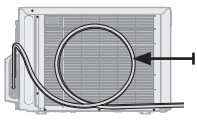
CAUTION

Make an U-trap(A) on the pipe (which is connected to the indoor unit) at outer wall and cut the bottom part of the insulation (about 10 mm) to prevent rainwater from getting inside through the insulation. However, be careful not to damage the pipe.



(Unit : m)

Model	Pipe Length		Pipe Height
	Minimum	Maximum	Maximum
18	3	15	7
24	3	20	8



Make at least one round: It will help reduce noise and vibration.

❉ The appearance of the unit may be different from the diagram depending on the model.

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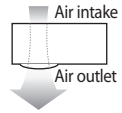
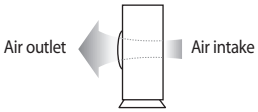
Space Requirements for Outdoor Unit

When installing 1 outdoor unit

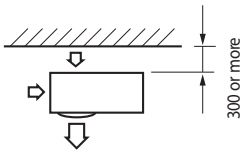
◆ Figure Description

Top view	Side view
	

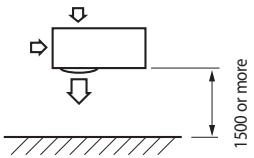
● , Air flow direction.

(Unit : mm)

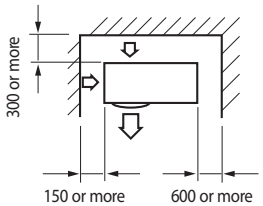
◆ When the air outlet is opposite the wall



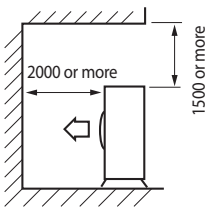
◆ When the air outlet is towards the wall



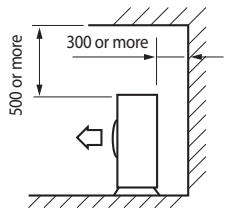
◆ When 3 sides of the outdoor unit are blocked by the wall



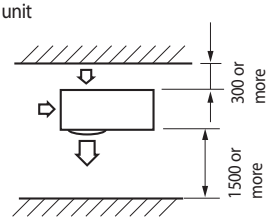
◆ The upper part of the outdoor unit and the air outlet is towards the wall



◆ The upper part of the outdoor unit and the air outlet is opposite the wall



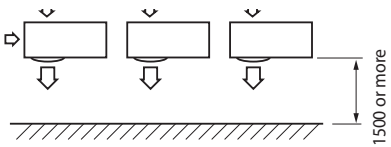
◆ When the walls are blocking front and the rear side of the outdoor unit



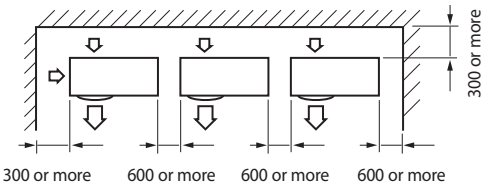
When installing more than 1 outdoor unit

(Unit : mm)

◆ When the air outlet is towards the wall



◆ When 3 sides of the outdoor unit are blocked by the wall



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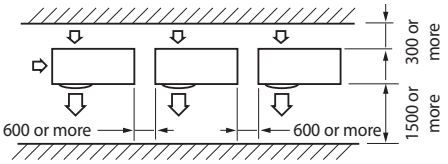
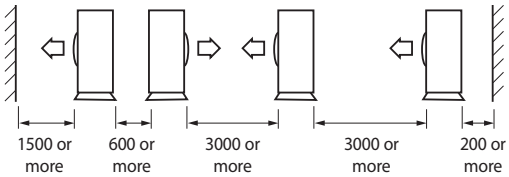
Choosing the installation location

(Unit : mm)

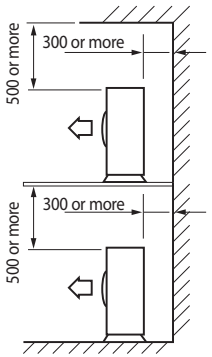
◆ When the walls are blocking front and the rear side of the outdoor units



◆ When front and rear side of the outdoor unit is towards the wall



◆ When the upper part of the outdoor unit and the air outlet is opposite the wall



CAUTION
- If installation is done in inappropriate space, unit may generate sound and cause bad effect on the product.
- Installation must be done in level and in a place where vibration will not cause any effect.

Accessories

The following accessories are supplied with the air conditioner:

NOTE
- The number of each accessory is indicated in parentheses.

Accessories in the indoor unit case

Installation Plate (1) ✳✳18/24✳✳	Remote controller (1)	Batteries for Remote controller (2)	User's & Installation Manual (1)	Remote Control Holder (1)
M4 x 12 Tapped Screws (2)	Cap Screws			

Accessories in the outdoor unit case

Rubber Leg (4)

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NOTE

- The flare nuts are attached to the end of each pipe of an evaporator or a service port. Use the nuts when connecting the pipes.
- The wire assembly cable is optional. If it is not supplied, use the standard cable.
- The drain plug and rubber leg are only included when the air conditioner is supplied without the assembly pipe as seen in the picture below.

Optional accessories

Insulated Assembly Pipe, Ø6.35 mm (1)	Insulated Assembly Pipe, Ø12.70 mm (1) ✶✶18✶✶	Insulated Assembly Pipe, Ø15.88 mm (1) ✶✶24✶✶	PE T3 Foam Tube Insulation (1)	Vinyl Tapes (2)	Putty 100 g (1)
Pipe Clamps A (3)	Pipe Clamps B (3)	Cement Nails (6)	M4 x 25 Tapped Screws (6)	Drain Hose, length 2 m (1)	3-wire Assembly Cable (1)
Drain Plug (1)					

NOTE

- If these accessories are supplied, they will be in the accessory box or outdoor unit case.

Tools required for installation

General Tools

- Vacuum Pump(Backward flowing prevention)
- Manifold Gauge
- Stud Finder
- Torque Wrench
- Pipe Cutter
- Reamer
- Pipe Bender
- Spirit Level
- Screw Driver
- Spanner
- Drill
- L Wrench
- Measuring Tape

Tools for test operations

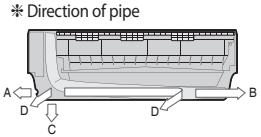
- Thermometer
- Resistance Meter
- Electroscope

Fixing the installation plate

You can select the direction of the drain hose depending on where you want to install the indoor unit. Therefore before fixing the installation plate to a wall or a window frame, you must determine the position of the 65 mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.

When facing the wall, the pipe and cable can be connected from the:

- Right (A)
- Left (B)
- Underside_right (C)
- Rear_right or left (D)



CAUTION

- You can install the refrigerant pipe in the left/right/bottom, or the rear side of the indoor unit.
- If changing the pipe direction from left to right, do not drastically bent it but slowly turn it in the opposite direction as shown. Otherwise, the pipe may be damaged in the process.

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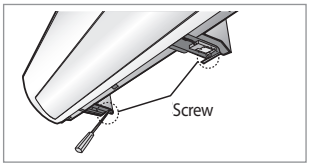
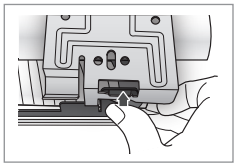
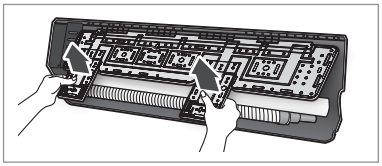
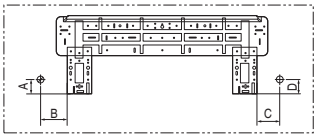
1. Disassemble the cover panel as described in page 38~39.
2. Remove the Hanger plate from the indoor unit.
   (1) Unscrew 2 screws that fixes the Hanger plate to the indoor unit.
   (2) Push the hooks (on the bottom part of the indoor unit) up to release the installation plate from the hooks that holds it.
   (3) Pull the installation plate to release it completely from the indoor unit.



3. Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.

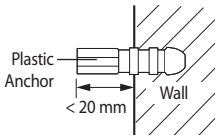
Pipe hole (Ø65 mm)



(Unit : mm)

Model	A	B	C	D
✳✳18/24✳✳	33	110	110	33

CAUTION
- Make sure to drill only one hole after choosing the direction of the pipe.



4. Fix the indoor unit.

If you fix the indoor unit on a wall

(1) Fix the installation plate to the wall giving attention to the weight of the indoor unit.

NOTE
- If you mount the plate to a concrete wall using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, is less than 20 mm.

If you fix the indoor unit on a window frame

(1) Determine the positions of the wooden uprights to be attached to the window frame.
(2) Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
(3) Attach the installation plate to the wooden upright using tapping screws.

If you fix the indoor unit on a gypsum board

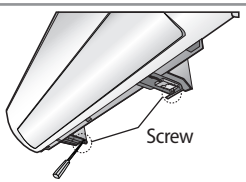
(1) Use stud finder to find out locations of the studs.
(2) Fix the plate hanger on two studs.

CAUTION
- Search for other spots if there are less than two studs, or the distance between the studs are different from the plate hanger.
- Fix the installation plate without inclining to one side.

WARNING
- Make sure that a wall can withstand the weight of the product. If you install the product in a place where it is not strong enough to withstand the product weight, the unit could fall and cause injury.

Assembling the hanger screw

Use 2 screws to fix the indoor unit with hanger plate as shown in the picture.



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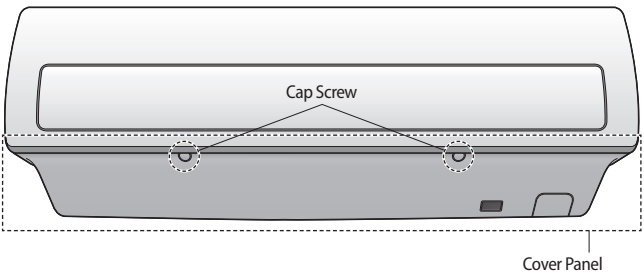
Disassembling/Assembling the Cover panel for indoor unit installation

Please scan
this QR code for detail
video of indoor unit
installation.

In order to install the indoor unit, you must disassemble the cover panel first. Please proceed following instructions to disassemble and assemble the cover panel. Hooks (on the cover panel) may get damaged if you apply excessive force as you disassemble and assemble the cover panel. Please follow the following instructions.

Removing the screws

Cover panel is assembled on the bottom part of the indoor unit (as shown in the illustration) and it is fastened with screws. Remove the Cap screw first and unfasten the screws so that you can disassemble the cover panel.



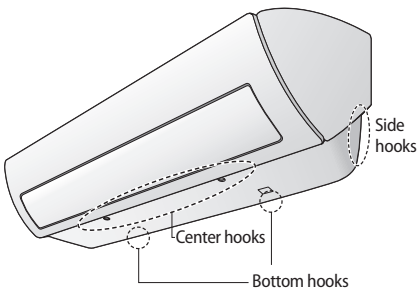
<Remove the Cap screw>

<Unfasten the screw>

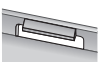
Removing the Cover panel (Before mounting the indoor unit)

The bottom panel fits the main body using the side, center, and bottom hooks as shown. Unlock the side hooks first, and then unlock the center and bottom hooks.

Check the location of the hooks before removing the cover panel.



▶ Location of the hooks on the central part

Number and location of the hooks	
Center hook	**Bottom hook**
	

✳ For specific Hook location and quantity, please refer to cover panel with indicating arrows based on physical goods.

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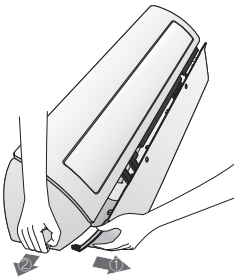
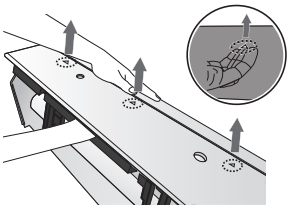
Disassembling/Assembling the Cover panel for indoor unit installation

▶ Removing the hooks on the side



✻ Caution (fragile)
- Gently press the both side of the cover panel inwards (①) and release the hooks on both sides(②).

▶ Removing the hooks on the central part



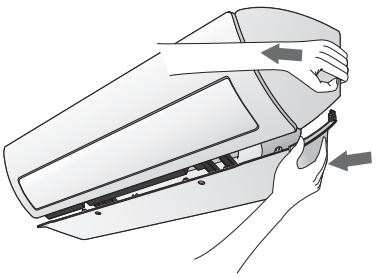
✻ Caution (fragile)
- Use both hands
- Release each hook by pushing it up at an angle.

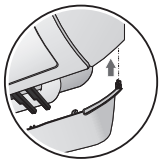
Assembling the Cover panel (After mounting the indoor unit)

To assemble the Cover panel, proceed in reverse order of disassembling.

Use both hands for assembling and be extra careful not to damage the pipes and drain hose.

Lock the side, center, and bottom hooks in this sequence. Tighten the bottom panel with the screws, and close the screw holes with their cap.





<Lock the side hook>

<Lock the bottom hook>

<Fasten the screw>

<Assemble the Cap screw>

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Connecting the assembly cable

Cable specification

Model	Power cable	Interconnection cable	Type GL
✳✳18/24✳✳	3G x 2.5 mm^2, H05VV-F	3G x 2.5 mm^2, H07RN-F	25 A

NOTE

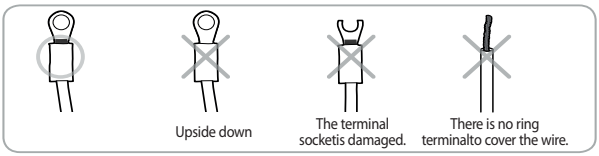
- Connect the power cable to the auxiliary circuit breaker. If every pole fails to connect to the power supply, it must be incorporated in a wire with a contact opening of ≥ 3 mm.
- Use shield cable (Category 5; less than 50pF/m) for noisy environmental site.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC: 60227 IEC53/CENELEC: H05VV-F, 60245 IEC66/CENELEC: H07RN-F)

Connecting the cable

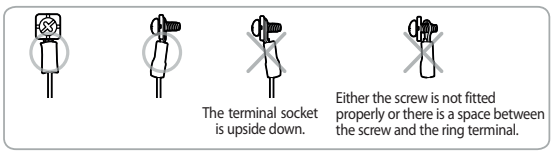
Electrical work

(1) For electrical and earth works, comply with the 'technical standards of electrical installations' and the the 'wiring regulations' of the Local wiring regulations.
(2) Tighten the terminal block screw to1.2~1.8 N•m (12~18 kgf•cm).
(3) Precautions when connecting terminal blocks of the indoor unit

▶ Before connecting, make sure the connecting part of the terminal socket is facing upwards.



▶ There must be no space between the terminal and the screw when connected.
- Any remaining space may become a fire hazard due to overheating of the electrical contact.



CAUTION

- For the terminal block wiring, use a wire with a ring terminal socket only.
  Regular wires without a ring terminal socket may become a fire hazard due to overheating of the electrical contact during a wiring work.

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Connecting the assembly cable

✻ When you install the unit, make first refrigerant connections and then electrical connections.
Connect the air conditioner to grounding system before performing the electrical connection.
If unit is uninstalled, first disconnect electrical cables, then refrigerant connections.

If the outdoor unit is more than 5 meters away from the indoor unit, you must extend the cable. The maximum length of the cable is 15(✳✳18✳✳) / 20(✳✳24✳✳) meters.

1. Extend the assembly cable if necessary.

CAUTION
- Do not connect two or more different cables to extend the length. It may cause fire.

2. Open the cover panel.

3. Remove the screw securing the connector cover.

4. Pass the assembly cable through the rear of the indoor unit and connect the assembly cable to terminals. (Refer to the picture below)

NOTE
- Each wire is labeled with the corresponding terminal number.

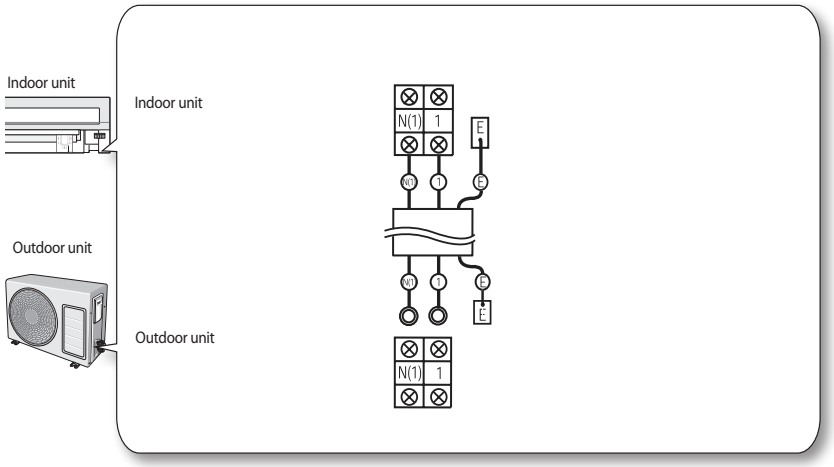
5. Pass the other end of the cable through the 65 mm hole in the wall.

6. Close the connector cover by tightening the screw carefully.

7. Close the cover panel.

8. Remove the terminal board cover on the side of the outdoor unit.

9. Connect the cables to the terminals as seen in the picture.



CAUTION
- Also circular terminal must be matched with screw size in terminal block.
- After connecting the cables, make sure terminal numbers on the indoor/outdoor unit matches.
- Please ensure that Power & Communication cables are separated, they must not be in the same cable.

10. Connect the grounding conductor to the grounding terminals.

11. Close the terminal board cover by tightening the screw carefully.

WARNING
- Connect the wires according to color codes, referring to the wiring diagram.
- The power cable and the interconnection cable should be selected according to the specification in page 40.

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Installing and connecting the assembly pipe of the indoor unit

Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

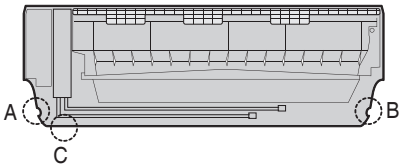
There are 2 refrigerant pipes of different diameters:

- The smaller one is for the liquid refrigerant
- The larger one is for the gas refrigerant

A short pipe is already fitted to the air conditioner. You may need to extend the pipe using the assembly pipe (optional).

The connection procedure for the refrigerant pipe varies according to the exit position of the pipe when facing the wall:

- Right(A)
- Left(B)
- Underside(C)
- Rear



1. **Cut out the appropriate knock-out piece (A, B, C) on the rear of the indoor unit unless you connect the pipe directly from the rear.**
2. **Smooth the cut edges.**
3. **Remove the protection caps of the pipes and connect the assembly pipe to each pipe. Tighten the nuts first with your hands, and then with a torque wrench, applying the following torque:**

Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

NOTE
- If you want to shorten or extend the pipes, refer to page 43~44

4. **Cut off the remaining foam insulation.**
5. **If necessary, bend the pipe to fit along the bottom of the indoor unit. Then pull it out through the appropriate hole.**
   - ▶ The pipe should not project from the== rear of the indoor unit.
   - ▶ The bending radius should be 100 mm or more.
6. **Pass the pipe through the hole in the wall.**
7. **For further details on how to connect to the outdoor unit and evacuate the air, refer to page 47.**

NOTE
- The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test; refer to page 49 for further details.

CAUTION
- Tighten the flare nut with torque wrench according to specified method.
  If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- DO NOT WALL UP THE PIPE CONNECTION !
  All refrigerant pipe connection must be easy accessible and serviceable.

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Evacuating the indoor unit

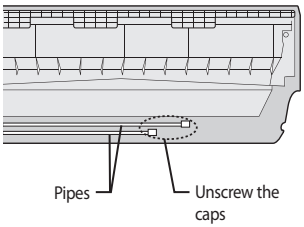
The indoor unit is supplied with inert gas (nitrogen).
Before installing the unit, check if nitrogen gas flows out of indoor unit.
If this one isn't true, DO NOT INSTALL THE UNIT since leakage could be inside the indoor unit.

1. **Unscrew the caps at the end of each pipe.**

▶ All inert gas exhausts from the indoor unit.

NOTE
- To prevent dirt or foreign substances from getting into the pipes during installation, do NOT remove the caps completely until you are ready to connect the pipes.

CAUTION
- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.

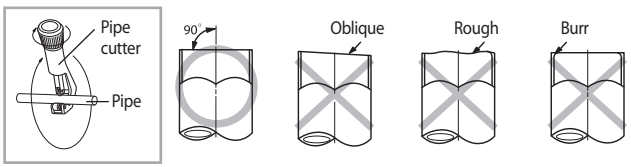


Cutting or extending the pipe

The length of the pipe can be:
- Extended up to : see table page 33
- Shorten up to: see page 33

CAUTION
If you need a pipe longer than 5 meters:
- You must add refrigerant to the pipes; otherwise, the indoor unit may freeze.

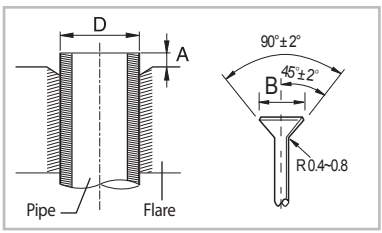
1. **Make sure that you have all the required tools (pipe cutter, reamer, flaring tool and pipe holder).**
2. **If you want to shorten the pipe, cut it using a pipe cutter, ensuring that the cut edge remains at 90° with the side of the pipe (see below examples of correct and incorrect cut edges).**



3. **To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.**

CAUTION
- Face the pipe down while removing the burrs to make sure that burrs do not get in to the pipe.

4. **Put a flare nut slightly into the pipe and modify the flare.**



Outer Diameter (D)	Depth (A)	Flaring Size (B)
ø6.35 mm	1.3 mm	8.7 - 9.1 mm
ø9.52 mm	1.8 mm	12.8 - 13.2 mm
ø12.70 mm	2.0 mm	16.2 - 16.6 mm
ø15.88 mm	2.2 mm	19.3 - 19.7 mm

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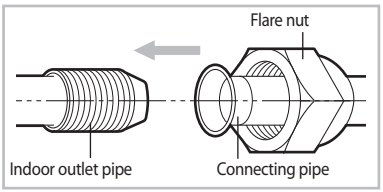
Cutting or extending the pipe

5. **Check if you flared the pipe correctly (see examples of incorrectly flared pipes below).**

6. **Align the pipes to connect them easily. Tighten the flare nuts first with your hands, and then with a torque wrench, applying the following torque:**



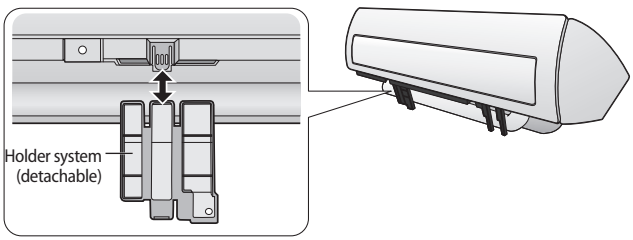
Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

NOTE

- Excessive torque can be cause of gas leakage. If extending pipe by welding/brazing please ensure nitrogen is used during welding/brazing process. The joint must be accessible and serviceable.

NOTE

- The holder system is detachable as shown.



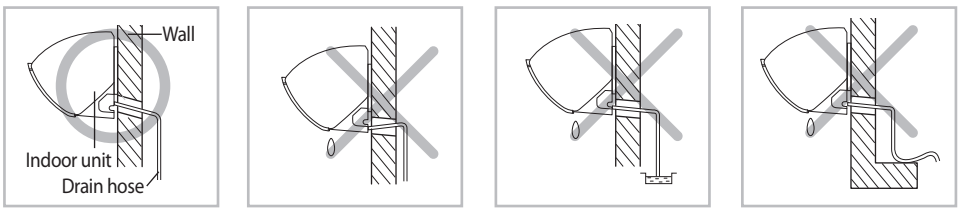
7. **For further details on how to connect to the outdoor unit and evacuate the air, refer to page 47.**

CAUTION

- Tighten the flare nut with torque wrench according to specified method.
  If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.

Installing and connecting the drain hose of the indoor unit

When installing the drain hose for the indoor unit, check if condensation draining is adequate.
When passing the drain hose through the 65 mm hole drilled in the wall, check the followings:



The drain hose must NOT slant upwards.

The end of the drain hose must NOT be placed under water.

The drain hose must not be bent.

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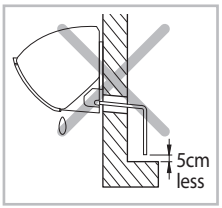
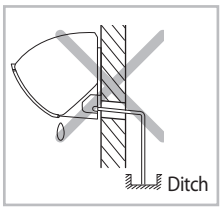
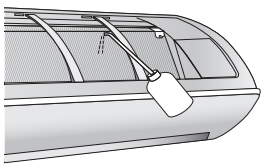
Installing and connecting the drain hose of the indoor unit



Keep a clearance of at least 5 cm between the end of the drain hose and the ground.

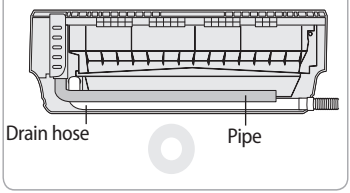


Do not place the end of the drain hose in a hollow.

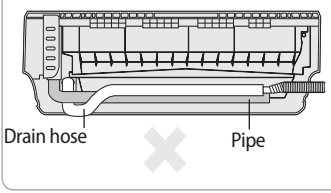


After completing the installation of the drain hose, pour water into the drain pan to check whether the hose is well drained.

1) Correct connection



2) Incorrect connection



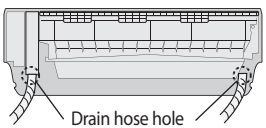
CAUTION
- Don't tie drain hose to the assembly pipe which may lead to water leakage.
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.

Drain hose installation

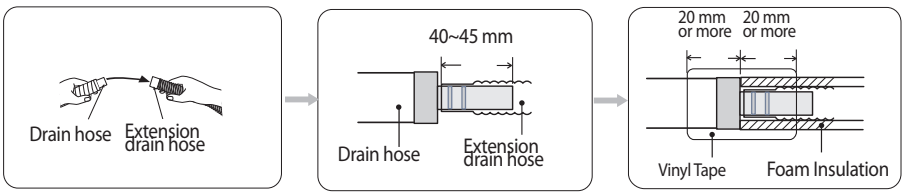
1. If necessary, connect the 2 meter extension drain hose to the drain hose.
2. If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
3. Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.

NOTE
- If you do not use the other drain hose hole, block it with a rubber stopper.

4. When extending the Drain Hose, hold the end of Drain Hose and Extended Hose, rotate and insert the drain hose into Extended hose for 40~45 mm. Make sure the two hoses are firmly connected, there is no water leakage.



5. Connect the Drain Hose after using Foam Insulation to wrap the Extended Hose. Then, Use vinyl tape to wrap the each side of connection by 20 mm .



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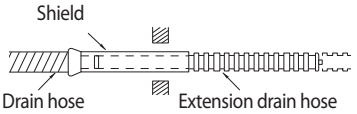
Installing and connecting the drain hose of the indoor unit

6. Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
7. Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.
8. Using natural drainage method, check the drainage is normal.



NOTE

- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 49 for further details.

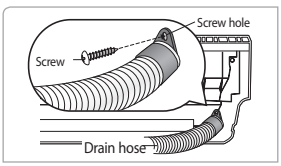
CAUTION

- Make sure the installed direction of the drain hose is correct. Inadequate installation may cause condensate water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION ! Drain hose connection must be easy accessible and serviceable.

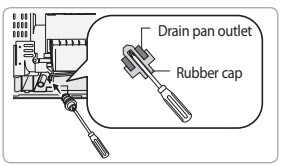
Changing direction of the drain hose

Change the direction only when it is necessary.

1. **Detach the rubber cap with the pliers.**
2. **Detach the drain hose by pulling it and turning to the right.**
3. **Insert the drain hose by fixing it with the screw into the groove of the drain hose and the outlet of the drain pan.**

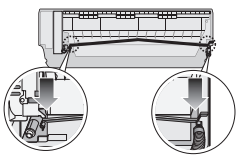


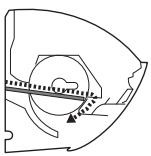
4. **Attach the rubber cap with a screwdriver by turning it to the left until it fixes to the end of the groove.**



5. **Check for leakage on both side of the drain outlet.**

Pour the water in direction of arrow. ❊ Direction of the drained water





CAUTION

- Make sure the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical part.

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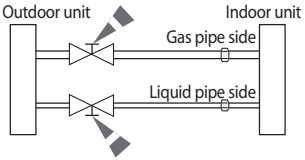
Evacuating the connected pipes

The outdoor unit is loaded with sufficient R-22 refrigerant.
You should evacuate the air in the indoor unit and in the pipe. If air remains in the refrigerant pipes, it affects the compressor. It may cause reduction of cooling capacity and malfunction.

CAUTION
- When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

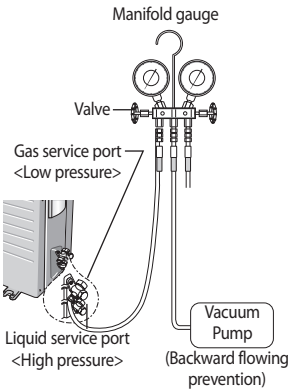
1. **Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.**
2. **Tighten the flare nut first with your hands, and then with a torque wrench, applying the following torque.**



NOTE
- Excessive torque can be cause of gas leakage.

Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

3. **Connect the charging hose of the low-pressure side of manifold gauge to a gas service port as seen in the picture.**
4. **Open the valve of the low pressure side of manifold gauge counterclockwise.**
5. **Evacuate the air in the connected pipes using the vacuum pump for about 15 minutes.**
   - ▶ Make sure that pressure gauge shows -0.1 MPa(-76 cmHg) after about 10 minutes.
     This procedure is very important to avoid a gas leak.
   - ▶ Close the valve of the low pressure side of manifold gauge clockwise.
   - ▶ Turn off the vacuum pump.
   - ▶ Check for 2 minutes if there is any pressure change.
   - ▶ Remove the hose of the low pressure side of manifold gauge.
6. **Set a valve cork of liquid and gas service port to the open position.**



Adding Refrigerant

Add refrigerant charge according to table below:

If you use a pipe longer than 5 m,
'A' g of refrigerant R-22 must be added for each extra meter.

If you use a pipe shorter than 5 m,
The evacuating time is normal.

Refer to the Service Manual for further details.

(Unit : g)

Model	A
✳✳18/24✳✳	20

CAUTION
- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.

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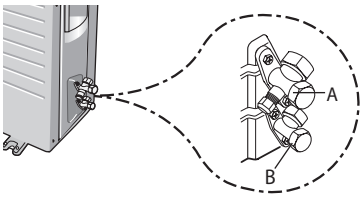
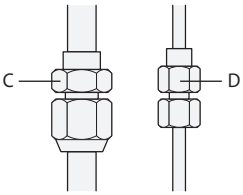
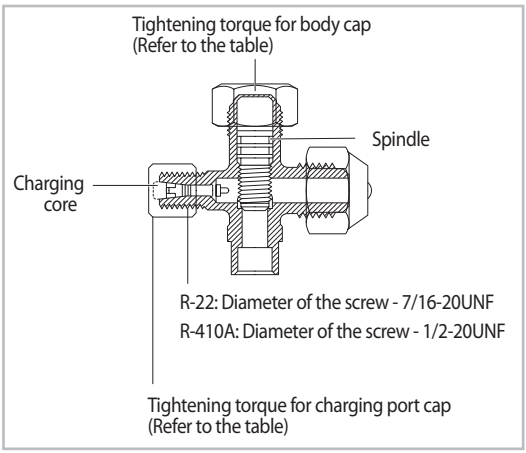
Performing the gas leak tests

Make sure to check for gas leaks before completing the installation process (connecting the assembly pipe and hose between indoor unit and outdoor unit, insulating the cables, hose and pipe, and fixing the indoor unit to the installation plate).





Test part for outdoor unit



Test part for indoor unit

- ▶ Before inspecting the leakage, use a torque wrench to close the cap for the service valve. (Comply with a tightening torque for each size of the diameter,and tighten the cap firmly to prevent any leakage.).
- ▶ To check for any possible leakage, insert inert gas into the pipes connected to indoor/outdoor units and check the connection part of the indoor/outdoor units with soap lather or liquid for leakage test.

Outer Diameter (mm)	Tightening torque	
	Body cap (N•m)	Charging port cap (N•m)
ø 6.35	20 ~ 25	10 ~ 12
ø 9.52	20 ~ 25	
ø12.70	25 ~ 30	
ø15.88	30 ~ 35	
ø19.05	35 ~ 40	

(1 N•m = 10 kgf•cm)

To check for gas leaks on the outdoor unit,
Check the valve A and B using a leak detector.

To check for gas leaks on the indoor unit,
Check the flare nut C and D using a leak detector.

Leak test with nitrogen (before opening valves)
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-22.

Leak test (after opening valves)
Before opening valves, discharge all the nitrogen from the system and create vacuum according to page 47.
After opening valves, check leaks using a leak detector for refrigerant.

Pump down (before disconnecting the refrigerant connections for unit repair, removal or disposal)
Pump-down is an operation intended to collect all the system refrigerant in the outdoor unit.
This operation must be carried out before disconnecting the refrigerant tubing in order to avoid refrigerant loss to the atmosphere.

- ▶ Shut off the liquid valve with the Allen wrench.
- ▶ Turn the system on in cooling with fan operating at high velocity.
  (Compressor will immediately start, provided 3 minutes have elapsed since the last stop).
- ▶ After 2 minutes of operation, shut the suction valve with the same wrench.
- ▶ Turn the system off and switch mains supply off.
- ▶ Disconnect tubing. After disconnection, protect valves and tubing ends from dust.
- ▶ Compressor damage may occur if run at a negative suction pressure.

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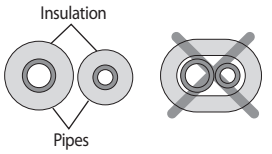
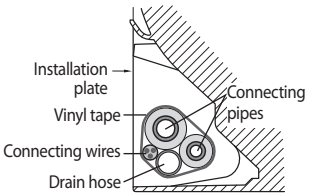
Fixing the indoor unit in place

Perform the following work on the area where gas leak test was done priory.

After checking for gas leaks in the system, insulate the pipe, hose and cables. Then place the indoor unit on the installation plate.



1. **To minimise condensation problems, wrap foam insulation (as shown in the figure) on a part without insulation on the end of the pipes.**
2. **Wind the pipe, assembly cable and drain hose with vinyl tape.**
3. **Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it does not project from the rear of the indoor unit.**
4. **Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.**

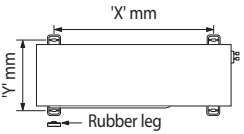


CAUTION
- Make sure pipe does not move when you install the indoor unit on an installation plate.

5. **Wrap the rest of the pipe with vinyl tape.**
6. **Attach the pipe to the wall using clamps (optional).**

Fixing the outdoor unit in place

Install the outdoor unit in level on a stable base to help avoid the generation of noise and vibration, especially when installing the unit close to a neighbor.
If you install the outdoor unit in a place exposed to strong winds or at a height, fix it to an appropriate support (wall or ground).



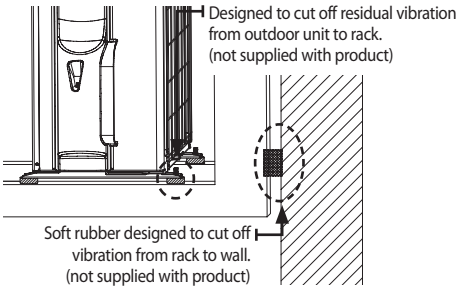
Model	X	Y
18	507	292
24	660	340

1. **Place the outdoor unit as indicated on the top of the unit to let the discharged air out properly.**
2. **Fix the outdoor unit in level to an appropriate support using anchor bolts.**
3. **If the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit so that the fan can operate correctly.**

NOTE
- Secure the rubber leg to help prevent the generation of noise and vibration.

Outdoor unit installed on the wall by rack

- Ensure the wall will be able to suspend the weight of rack and outdoor unit;
- Install the rack close to the column as much as possible;
- Install proper grommet in order to help reduce noise and residual vibration transferred by outdoor unit towards wall.



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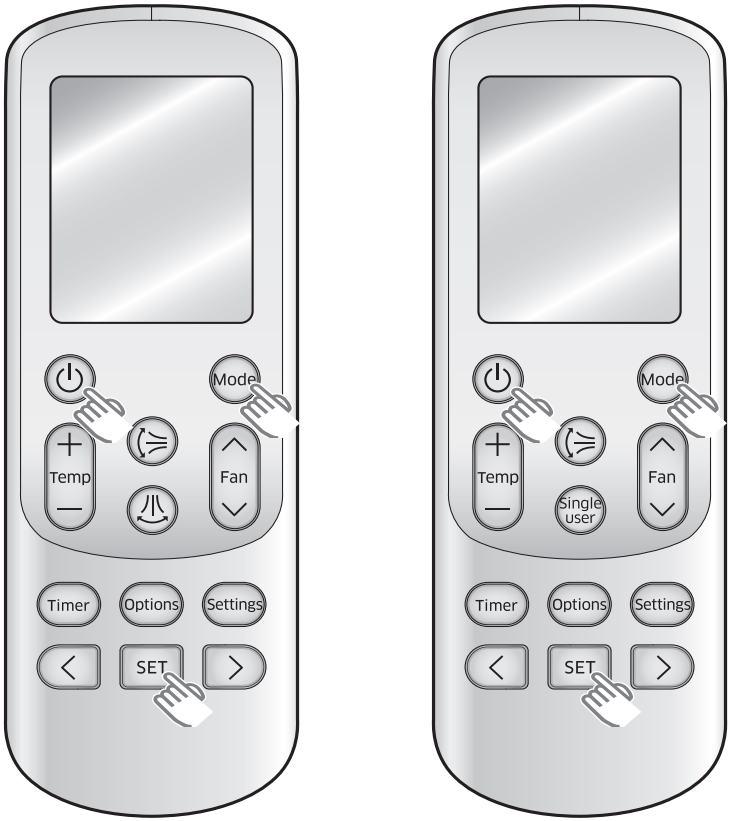
Smart Install mode

This model supports Smart Install mode which checks installation status to find out if there is any problems with any of the functions. Execute Smart Install mode after installation.

1. Check the installation status of the air conditioner.
   1) Check the power supply, service valve (if it's open), power cable of the indoor and outdoor unit and amount of additional refrigerant required for pipe extension.
   2) Status of the indicator after supplying the power : Standby status

2. When the air conditioner is in standby status, use the remote controller to start the Smart Install mode.
   1) Press the [SET], [Mode], [Power] button simultaneously for 4 seconds.
   - ▶ Smart Install mode can be operated only with the supplied remote controller.
   - ▶ During the Smart install mode procedure, remote controller cannot be operated.



✻ Remote controller may be different (image/functions) depending on the model.

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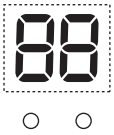
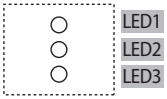
2) Smart Install mode in progress
- 88 Display : Progress will be displayed in 0~99.
- LED Display : Indicator on the indoor unit display will blink in sequence and then all indicators will blink. (This will be repeated.)

TYPE	88 Display	LED Display
Indoor unit indicator		

✻ Display may be different depending on the model.

3. Smart Install mode will end.
1) Smart Install mode will take approximately 7~13 minutes. (Actual time may be different depending on the model.)
2) When Installation is successful : Smart Install mode will end with ringing sound and the air conditioner will be in standby status. (Error message will not be displayed on the indoor unit indicator and the remote controller and buttons on the indoor unit will work normally.)
3) When installation is not successful : Smart Install mode will end and error message will be displayed on the indoor unit display.

CAUTION
1. Take necessary measures when error occurs.
- **Refer to the service manual for necessary measures for each error that occurs.**

2. Use the product after taking care of the error that occurs.

Error indicator				Error	Measures to take by an installer
88 Display	LED Display				
	LED 1	LED 2	LED 3		
	⏻	🕒	🔔 / 📶 / ❄		
E101	○	◑	◑	Communication Error between Indoor and outdoor unit	1. Check the connection wire between indoor and outdoor unit. (whether the power cable and communication cable is crossed or not)
E121	○	◑	○	Error on indoor temperature sensor	1. Check the connection of the connector
E122,E123	◑	◑	○	Error on indoor heat exchanger	1. Check the connection of the connector
E154	○	○	◑	Error on indoor fan motor	1. Check the connection of the connector 2. Remove foreign substance (Check for the cause that restrains motor)
88 display and all LED blinks E162,E163	◑	◑	◑	EEPROM/Option error	1. Re-set options
E422	●	○	◑	Refrigerant flow blocking Error	1. Check if the service valve is completely open. 2. Check if there's any blockage in the refrigerant pipe which connects indoor and outdoor unit. 3. Check for refrigerant leak.
E554	●	○	◑	Lack of Refrigerant (For Inverter model only)	1. Check if sufficient amount of additional refrigerant was charged for the pipe length that exceeds 7.5 m. 2. Check for refrigerant leak between valve and pipe connection.
	✻ Above LED pattern is displayed when there's error is occurred on outdoor unit. Check the LED display on outdoor unit for the details.				

✻ ○ : Off / ◑ : Blinking / ● : On

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Final check and trial operation

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the followings:

- Strength of the installation site
- Tightness of pipe connection to detect gas leak
- Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- Grounding conductor connection
- Correct operation (follow the steps below)

1. **Press the Power ⏻ button and check the following:**
   - ▶ The indicator on the indoor unit lights up.
   - ▶ The airflow blade opens and the fan gears up for operation.

2. **Press the Mode button to select Cool or Heat mode.**
   - ▶ In Cool mode, use **Temp hr. +** or **–** button and set the temperature at 16 ℃.
   - ▶ In Heat mode, use **Temp hr. +** or **–** button and set the temperature at 30 ℃.

NOTE
- Approximately 3~5 minutes later, outdoor unit will start to operate and the Cool or Warm air will blow out.
- After 12 minutes of stationary condition check the indoor unit air treatment.

Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp:
From 10 ℃ to 12 ℃ (indicative delta T)

Heating mode (indoor unit check) → Outlet air temp. - Inlet air temp:
From 11 ℃ to 14 ℃ (indicative delta T)

In heating mode, the indoor fan motor can remain off to avoid cold air blown into conditioned space.

3. **Press the Air swing ≋ button and check the following:**
   - ▶ The airflow blades work properly.

4. **Press the Power ⏻ button to stop the operation.**

NOTE
- When you complete the installation successfully, hand over this manual to the user for storage in a handy and safe place.

Pump down procedure (when removing the product)

1. **Turn on th air conditioner and select Fast Cool mode. Please let the compressor run for more than 5 minutes. If the compressor does not operate for more than 5 minutes due to protection control, wait about 2 minutes, and then carry out the next procedure.**
2. **Release the valve caps on High and Low pressure side.**
3. **Use L wrench to close the valve on the high pressure side.**
4. **After approximately 1 minutes, close the valve on the low pressure side.**
5. **Stop operation of the air conditioner by pressing the Power ⏻ button on the indoor unit or remote controller.**
6. **Disconnect the pipes.**

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Packing and unpacking guide

Indoor unit

▶ Packing the unit as below procedure

1. Put the indoor unit onto the packing case.
2. Assemble cushion-both side of indoor unit. (Left and Right)
3. Seal the packing case.

▶ Unpacking the unit as below procedure

1. Open the packing case.
2. Take out the both side of cushion(Left and Right).
3. Move the set from the packing case.

Outdoor unit

▶ Packing the unit as below procedure

1. Put the outdoor unit onto the cushion-bottom.
2. Put the cushion-top onto the outdoor unit
3. Put the packing case from the top of set.
4. Seal the packing case.

▶ Unpacking the unit as below procedure

1. Take out the packing case from the set.
2. Take out the cushion-top.
3. Move the set from the cushion-bottom.

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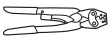
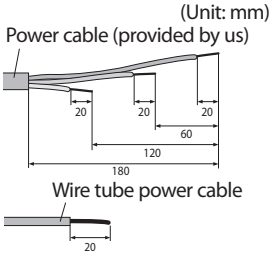
How to connect your extended power cables

Items to prepare
(compressor and insulation tape should be prepared by an installation technician.)

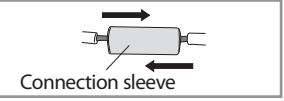
Tools	Crimping pliers	Connection sleeve (mm)	Insulation tape	Contraction tube (mm)
Spec	MH-14	20xØ7.0(HxOD)	Width 18 mm	50xØ8.0(LxOD)
Shape				

1. **As shown in the figure, peel off the shields from the rubber/wire of the power cable.**
   - Peel off 20 mm of the wire shields of the tube installed already.

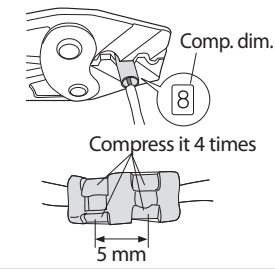
CAUTION
- After peeling off the tube wire, you must insert a contraction tube.



2. **Insert both sides of core wire of the power cable into the connection sleeve.**

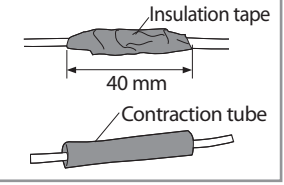


3. **Using a compressor, compress the two points and flip it over and compress another two points in the same location.**
   - The compression dimension should be 8.0.
   - After compressing it, pull both sides of the wire to make sure it is firmly pressed.

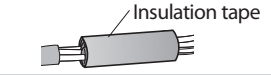


4. **Wrap it with the insulation tape twice and position your contraction tube in the middle of the insulation tape.**

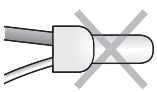
5. **Apply heat to the contraction tube to contract it.**



6. **After tube contraction work is completed, wrap it with the insulation tape to finish.**



WARNING
- 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.



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