

Air conditioner

User manual/Installation manual

AC***MNADCH / AC***MNTDCH

- Thank you for purchasing this Samsung air conditioner.
- Before operating this unit, please read this Installation manual carefully and retain it for future reference.



SAMSUNG

Contents

Safety Information	4
Safety Information	4
At a Glance	12
Indoor Unit Overview	12
Remote Control Overview	14
Replacing batteries	
Storing the remote control	
Basic Operation	16
Operation Modes	16
Auto	
Cool	
Dry	
Fan	
Heat	
Turning the air conditioner on	
Selecting the operation mode	
Adjusting the temperature	
Selecting the fan speed	
Selecting air flow direction	
Advanced Operation	20
Setting the On or Off timer	20
Setting the On timer	
Setting the Off timer	
Setting the good'sleep Function	22
Using the good'sleep Function	23
Using the Turbo Function	24
Controlling Indoor Units	25
Cleaning and Maintenance	26
Cleaning the Air Conditioner	26
Cleaning the exterior	
Cleaning the filter	
Maintaining the Air Conditioner	29

Appendix	31
Troubleshooting	31
Operation Ranges	35
Installation	36
Safety Information on Installation	36
Preparation	38
Step 1.1 Choosing the installation location	
Step 1.2 Checking and preparing accessories and tools	
Step 1.3 Drilling a hole through the wall	
Step 1.4 Performing the gas leak test	
Step 1.5 Insulating the refrigerant pipes	
Indoor Unit Installation	41
Step 2.1 Disassembling the cover panel	
Step 2.2 Disassembling the installation plate	
Step 2.3 Connecting the power and communication cables (assembly cable)	
Step 2.4 Optional: Extending the power cable	
Step 2.5 Installing and connecting the drain hose	
Step 2.6 Optional: Extending the drain hose	
Step 2.7 Optional: Changing the direction of the drain hose	
Step 2.8 Installing and connecting the assembly pipes to the refrigerant pipes (assembly pipe)	
Step 2.9 Shortening or extending the refrigerant pipes (assembly pipe)	
Step 2.10 Fixing the installation plate	
Step 2.11 Fixing the indoor unit to the installation plate	
Step 2.12 Assembling the cover panel	
Setting an indoor unit address and installation option	50
Troubleshooting	58

Safety Information

WARNING

State of California Proposition 65 Warning (US only)

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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 centre or find help and information online at www.samsung.com.

WARNING

Hazards or unsafe practices that may result in severe personal injury or death.

CAUTION

Hazards or unsafe practices that may result in minor personal injury or property damage.

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

FOR INSTALLATION

WARNING

-  **Use a power cord with this product's power specifications or higher and use the power cord for this appliance only. In addition, do not use an extension cord.**

- Extending the power cord may result in electric shock or fire.
- Do not use an electric transformer. This 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 an 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, or problems with the product.

 **Do not install this appliance near a heater, or inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (or rain). 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.**

- Failing to do so may result in electric shock, fire, and explosion.

Safety Information

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



CAUTION



Please cover the air conditioner with PE BAG after installation, and remove it when you start to run air conditioner.

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 drain hose properly so that water drains 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 drain hose so that draining is performed correctly.

- The water generated during heating 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 centre.



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.


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 centre.**

- 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 centre.

- 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 centre.

- Failing to do so may result in problems with the product, water leakage, electric shock, or fire.
- 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.

Safety Information

- 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 salt in the air, please contact your nearest service centre.
- In the event of a service issue, please refer to the troubleshooting guide of the relevant supporting technical manuals. It is recommended that a skilled service technician be contacted for support. Should urgent support be required then, using the information provided, contact the local Samsung office via email or telephone so that support can be initiated via our approved service centres (ASC'S) within 24hrs.

 **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.

Do not touch the air flow blade with your hands or fingers during heating.

- 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.

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 centre.

- 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.



CAUTION



Do not place objects or devices under the indoor unit.

- Water dripping from the indoor unit may result in fire or property damage.

Check that the installation frame of the outdoor unit is not broken at least once a year.

- Failing to do so may result in injury, death or property damage.

Safety Information

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 control and do not disassemble the remote control.

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 to the air flow from the air conditioner for long periods of time.


- This may result in harm to humans, animals or plants.

This appliance is not intended for use by persons (including

children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, without 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 discolouration, 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.

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 centre.

 **Do not clean the inside of the air conditioner by yourself.**

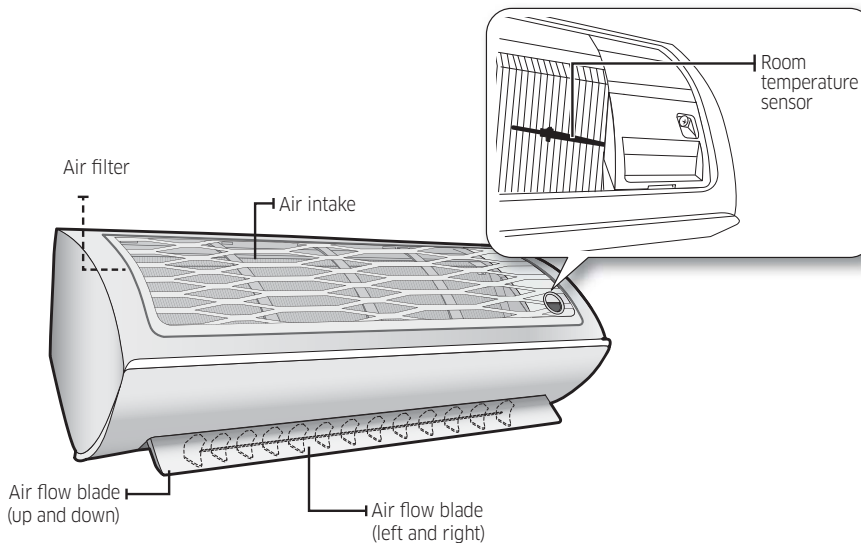
- For cleaning inside the appliance, contact your nearest service centre.
- When cleaning the filter, refer to the descriptions in the 'Cleaning at a Glance' section.
- Failing to do so may result in damage, electric shock or fire.

Indoor Unit Overview

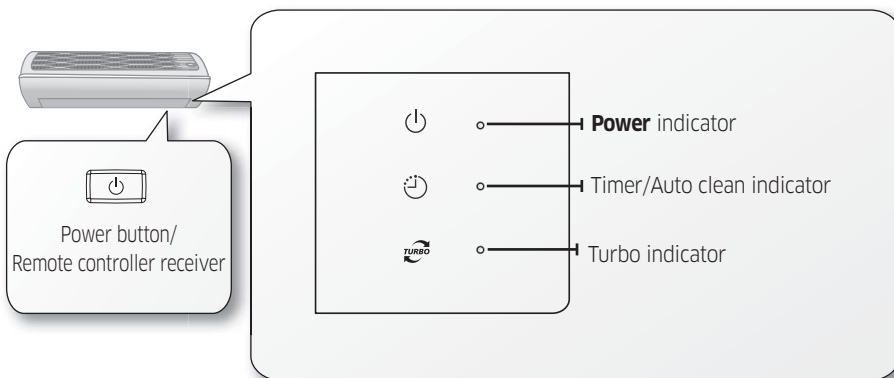
The actual product may differ slightly from the image depicted below.

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Main parts

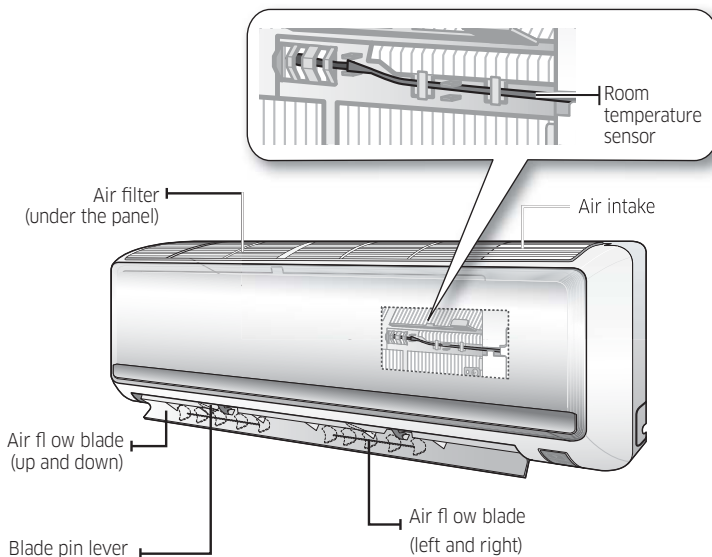


Display

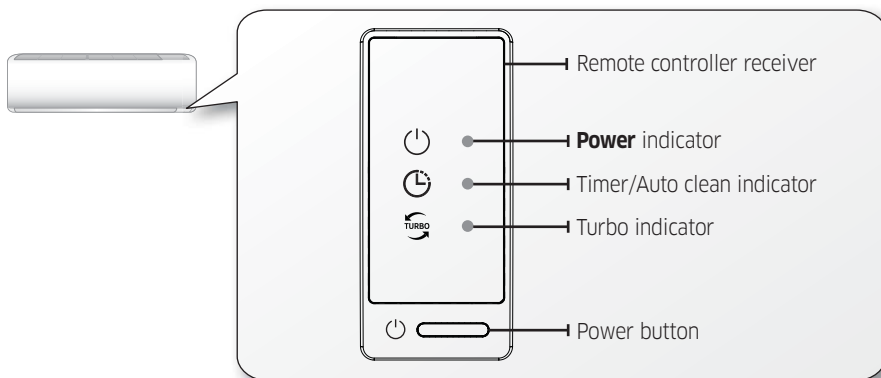


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Main parts

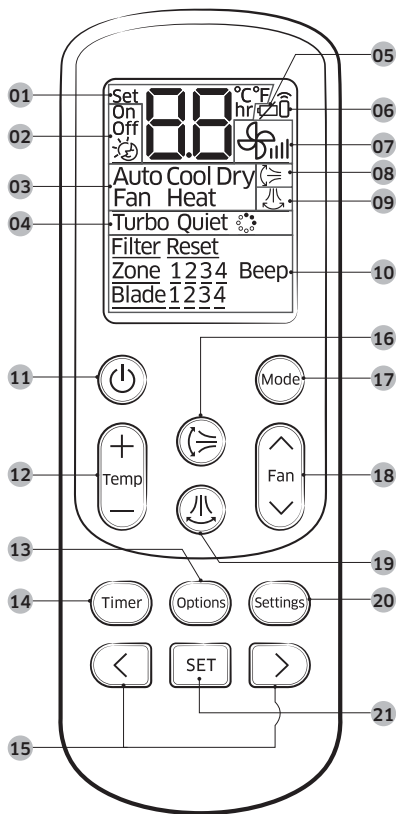


Display



Remote Control Overview

At a Glance



- 01 Set temperature indicator
- 02 Timer option indicator
- 03 Operation mode indicator
- 04 Options indicator
- 05 Low battery indicator
- 06 Transmit indicator

- 07 Fan speed indicator
- 08 Vertical air swing indicator
- 09 Horizontal air swing indicator

NOTE

- This function is not available in this model.

- 10 Settings indicator
- 11 Power button
- 12 Temperature button
- 13 Options button
- 14 Timer button
- 15 Direction button/Selection button
- 16 Vertical air swing button
- 17 Mode button
- 18 Fan speed button
- 19 Horizontal air swing button

NOTE


- This function is not available in this model.

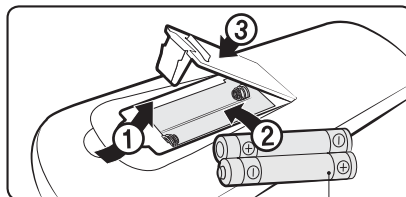
- 20 Settings button
- 21 SET button

NOTE

- The air conditioner may not be operated by the remote control if the controller is placed close to strong light such as a fluorescent lamp or neon sign. In this case, use the remote control right in front of the remote control receiver of the indoor unit.
- If other electrical products are operated by the remote control, call your nearest service center.
- To silence the beep sound, press the **Settings** → <, > or **Settings** → (Beep) blinking → **SET** button. When you press the **Settings** → <, > or **Settings** → (Beep) blinking → **SET** button again, the beep sound will be active again.

Replacing batteries

When the  icon appears in the remote control display, replace the batteries with new ones. Two 1.5V AAA type batteries are required.



two 1.5V AAA type batteries



Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

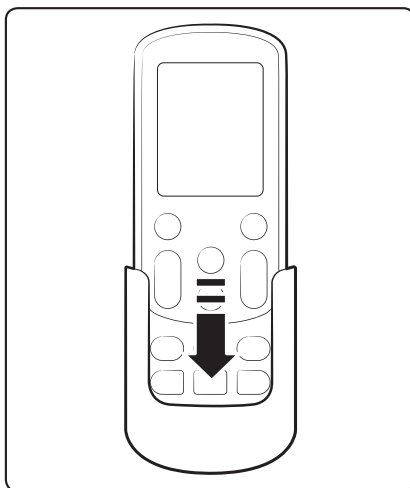
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference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

Storing the remote control

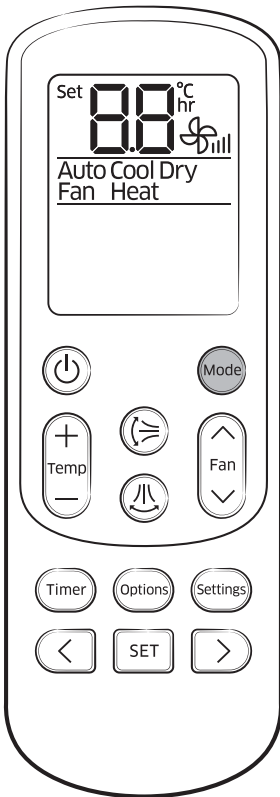
If the remote control will not be used for an extended period of time, store it in the remote control holder with the batteries removed.

CAUTION

- Make sure that water does not come into the remote control.



Operation Modes



Auto

In Auto mode, the air conditioner will automatically adjust the temperature and fan speed to maintain your fresh environment.

- When the indoor temperature is too high, the powerful cool breeze is generated and when the indoor room becomes cool enough, the soft breeze is generated.

Cool

The Cool mode is frequently used and you can freely control the temperature, fan speed, and air flow direction in Cool mode.

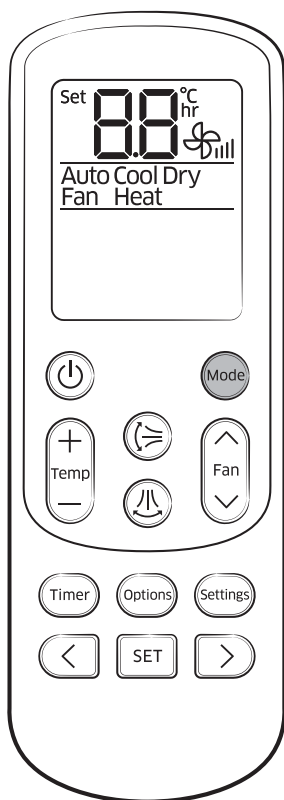
- When you select the Heat mode while the Cool mode is on, the Cool mode is cancelled.

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air. The Dry mode will provide you with fresh air even on a rainy day.

Fan

The Fan mode provides you with a breeze just like a fan to make fresh environment for you.



Heat

In Heat mode, you can warm your room even in fall and winter.

- The fan may not commence immediately to avoid generating a cold breeze.
- In Heat mode, defrost operation may be performed to remove the frost formed on the outdoor unit. (When the frost is removed by the defrost operation in Heat mode, steam is generated from the outdoor unit.)
- If you stop operating the air conditioner after heating operation, the fan will operate for some time to cool the indoor unit.
- When you select the Cool mode while the Heat mode is on, the Heat mode is cancelled.

NOTE

- When the outdoor temperature is relatively low and the humidity is relatively high in Heat mode, the outdoor unit's heating capacity may decrease due to the frost formed on the outdoor heat exchanger. The defrost operation removes the frost formed on the heat exchanger of the outdoor unit for 5 to 12 minutes. During the defrost operation, the indoor unit does not generate breeze in order to prevent cold breeze blowing out.
 - The interval between defrost operations can decrease depending on the amount of the frost formed on the outdoor unit.
 - The interval between defrost operations can also decrease depending on the humidity level in the air.

Operation Modes

Basic Operation

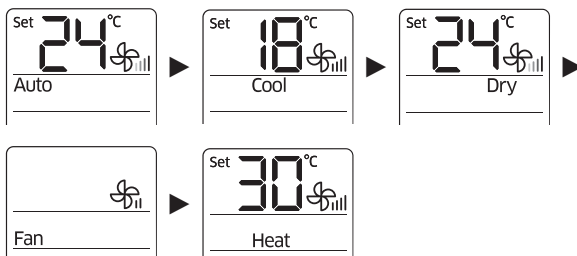


Turning the air conditioner on

Press the button to operate the air conditioner.

Selecting the operation mode

Press the button to select an operation mode.



Adjusting the temperature

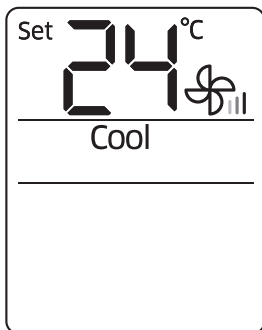
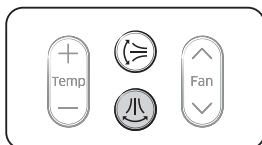
Press the button to adjust the temperature.

Mode	Temperature control
Auto/Cool/ Dry	Adjust by 1 °C (1 °F) between 18 °C (65 °F) and 30 °C (86 °F).
Heat	Adjust by 1 °C (1 °F) between 16 °C (61 °F) and 30 °C (86 °F).
Fan	Temperature cannot be adjusted.

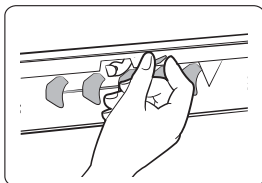
Selecting the fan speed

Press the button to adjust the fan speed.

Mode	Available fan speeds
Auto/Dry	(Auto)
Cool/Heat	(Auto), (Low), (Med), (High)
Fan	(Low), (Med), (High)



Remote control display



Selecting air flow direction

Keep the air flow in a constant direction by stopping the movements of the vertical and horizontal air flow blades.

In operation ► 

NOTE

- If you adjust the vertical air flow blade manually, it may not close completely when you turn off the air conditioner.

Horizontal air flow (manual)

Keep the horizontal air flow in a constant direction by changing the directions of the horizontal air flow blades manually.

NOTE

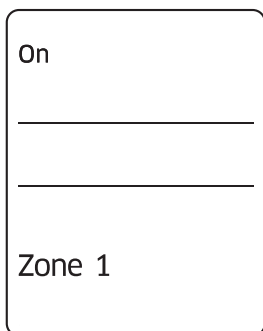
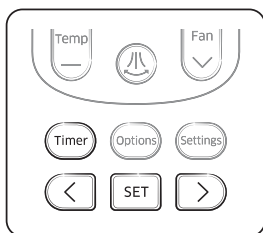
- Although you press the  button, this function does not work.

CAUTION

- To prevent personal injury, make sure that you change the directions of the horizontal air flow blades after stopping the movements of the vertical air flow blade.

Setting the On or Off timer

The actual product may differ slightly from the image depicted below.



Remote control display

Setting the On timer

When the air conditioner is turned off:

- 1 Press the **Timer** button to select (On).
 - The (On) indicator will keep blinking and you can set the time.
- 2 Press the **<** or **>** button to set the time.
 - You can set the time in half hour intervals from 30 minutes (0.5 on the display) to 3 in hour intervals from 3 to 24 hours.
 - The time can be set from minimum 30 minutes to maximum 24 hours.
- 3 Press the **SET** button to complete the On timer setting.
 - The (On) indicator and the set time of the timer will be displayed on the remote control 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 control display.

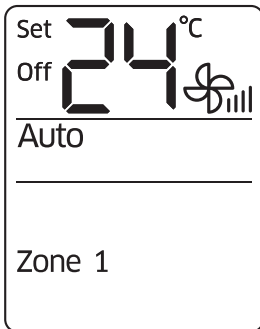
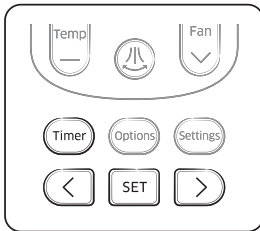
Cancel	Press the Timer button ► select (On) ► press the < or > button ► set the timer to 00 ► press the SET button
---------------	--

Additional options available in the On timer

Mode	Select the mode in the following order: (Auto) ► (Cool) ► (Dry) ► (Fan) and ► (Heat).
Temp	You can adjust the temperature after timer setting is completed. Temperature adjustment is only available in Auto, Cool, Dry, and Heat modes. In Fan mode, the temperature cannot be adjusted.

NOTE

- When On timer setting is completed, the setting will be displayed for 3 seconds, and then only the (On) indicator will remain on the remote control display.
- You cannot set the Fan speed when setting the On timer.



Remote control display

Setting the Off timer

When the air conditioner is turned on:

- 1 Press the **Timer** button to select (Off).
 - The (Off) indicator will keep blinking and you can set the time.
- 2 Press the **<** or **>** button to set the time.
 - You can set the time in half hour intervals from 30 minutes (0.5 on the display) to 3 hours and in hour intervals from 3 to 24 hours.
 - The time can be set from minimum 30 minutes to maximum 24 hours.
- 3 Press the **SET** button to complete the Off timer setting.
 - The (Off) indicator and the set time of the timer will be displayed on the remote control 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 control display.

Cancel	Press the Timer button ► select (Off) ► press the < or > button ► set the timer to 00 ► press the SET button
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NOTE

- Only the latest timer setting will be applied between the Off timer and good' sleep off timer functions.

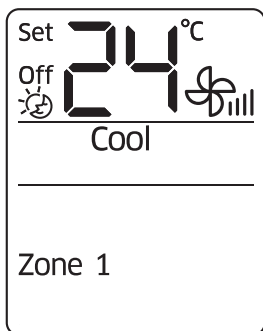
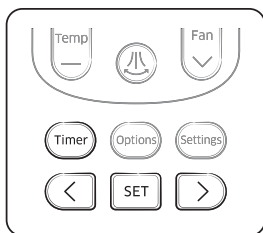
Combining On timer and Off timer

When the air conditioner is turned off	When the air conditioner is turned on
When the set time on On timer is less than that on Off timer e.g. On timer: 3 hours, Off timer: 5 hours <ul style="list-style-type: none"> • The air conditioner will be turned on after 3 hours from the moment you have set the timer and the air conditioner will remain on for 2 hours and then be turned off automatically. 	When the set time on On timer is greater than that on Off timer e.g. On timer: 3 hours, Off timer: 1 hour <ul style="list-style-type: none"> • The air conditioner will be turned off after 1 hour from the moment you have set the timer and will be automatically turned on after 2 hours from the moment it was turned off.

NOTE





- The set times for the On timer and the Off timer should be different from each other.
- After the On timer or the Off timer is set, the setting can be cancelled by pressing the **Power** button.


Setting the good'sleep mode




Remote control display

When the air conditioner is operating in **Cool** mode:

- 1 Press the **Timer** button to select .
 - The () indicator will keep blinking and you can set the time.
- 2 Press the **<** or **>** button to set the time.
 - You can set the time in half hour intervals from 30 minutes (0.5 on the display) to 3 hours and in hour intervals from 3 to 12 hours.
 - The time can be set from minimum 30 minutes to maximum 12 hours.
 - The default time value for the good'sleep mode is 8 hours.
- 3 Press the **SET** button to complete the good'sleep mode setting.
 - The () indicator and the set time of the good'sleep mode will be displayed on the remote control display.
 - The good'sleep mode will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the () indicator on the remote control display.

Cancel	Press the Timer button ► select () ► press the < or > button ► set the timer to 00 ► press the SET button
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Additional options available in good'sleep mode	
	The temperature can be adjusted by 1 °C (1 °F) within the range of 18 °C (65 °F) to 30 °C (86 °F).

Using the good'sleep Function

For a comfortable sleep, the air conditioner will operate in order of 'Fall asleep ► Sound sleep ► Wake up' stages.

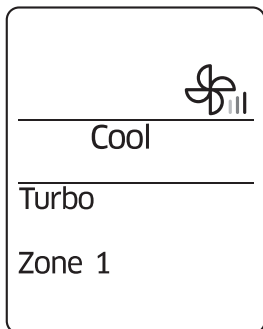
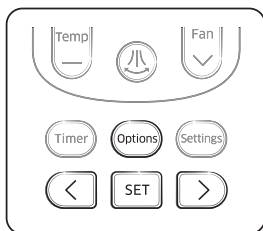
- Fall asleep mode: Provides you with comfortable environment for a good sleep by rapid cooling and hypnagogue expedition breeze.
- Sound sleep mode: The sound sleep mode adjusts temperature and air flow in waves to maintain healthy skin temperature while it aids deep sleep. According to the change of good' sleep operation hours, the sound sleep hour can increase or decrease.
- Wake up from good'sleep mode: Provides you with the air flow that adjusts your body temperature to wake you up in a fresh status.

NOTE

- Recommended set temperature is between 25 °C (77 °F) and 27 °C (81 °F) and the value 26 °C (79 °F) is the most ideal temperature.
- If the set temperature is too low, you may feel cold while sleeping or catch a cold.
- Optimal operation time in good'sleep mode is 8 hours. Therefore, if the time is set too short or long, you may not feel as comfortable as you want.
- If the good'sleep mode is set over 5 hours, The 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 mode are set simultaneously, the air conditioner will only apply the function that was set later.
- If you press the  button and select the Turbo/Quiet function, the good'sleep mode will be cancelled and the selected mode will begin operation.
- If you press the  button, the good'sleep mode will be cancelled and the selected mode will begin operation.

Using the Turbo Function

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



Remote control display

When the air conditioner is operating in Cool mode:

- 1 Press the **Options** button.
- 2 Press the **<**, **>** or **Options** button until the (Turbo) indicator starts blinking.
- 3 Press the **SET** button to set the Turbo function.
 - The (Turbo) indicator will be displayed on the remote control display and Turbo function will operate for 30 minutes.

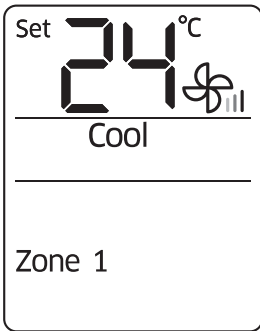
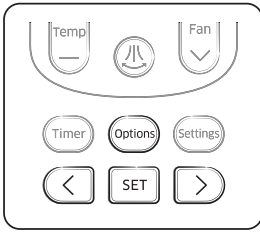
Cancel	Press the Options button ► press the < , > or Options to make the (Turbo) indicator blink and press the SET button.
---------------	--

NOTE

- Turbo function is available in Cool or Heat mode.
- If the Turbo function is selected while the Quiet function is on, the Quiet function will be cancelled.
- The temperature and fan speed cannot be adjusted.

Controlling Indoor Units

You can individually select and operate indoor units among 4 indoor units.



Remote control display

When the air conditioner is turned on:

- 1 Press the **Settings** button.
- 2 Press the **<**, **>** or **Settings** button until the (Zone) indicator starts blinking.
- 3 Press the **SET** button to select the indoor unit to operate.
 - You can select individual units in order of 1 to 4 or select all indoor units at one time.

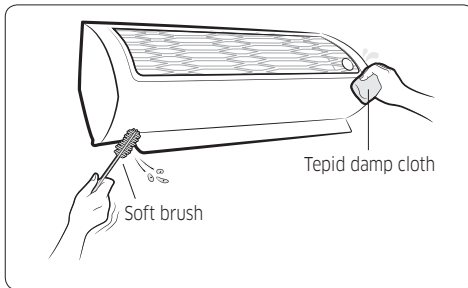
Cleaning the Air Conditioner

CAUTION

- Before cleaning, be sure to turn off the equipment and disconnect the power plug.

Cleaning the exterior

AC***MNADCH

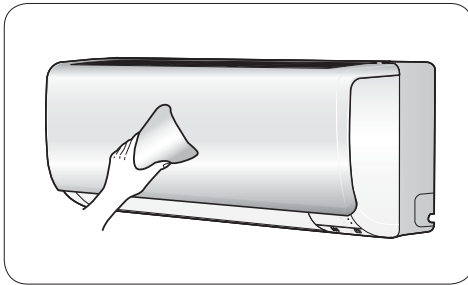


Wipe the surface of the unit with a slightly wet or dry cloth when needed. Wipe off dirt from oddshaped areas by using a soft brush.

CAUTION

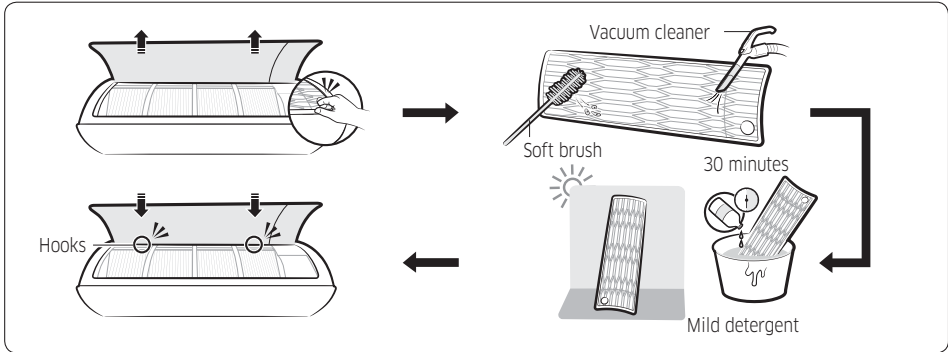
- Do not clean the display by using alkaline detergent.
- Do not use sulphuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, and acetone) to clean the surfaces. Do not put any stickers on it as this can damage the surface of the air conditioner.

AC***MNTDCH



Cleaning the filter

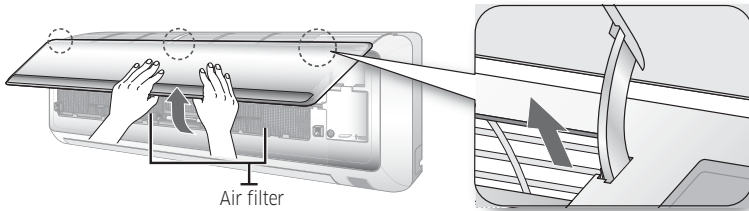
AC***MNADCH



AC***MNTDCH

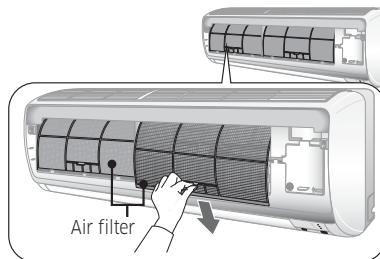
1. Opening the panel

Tightly grab top of the front panel and pull it down to open. Then slightly lift the panel up.



2. Removing the Air filter

Grab the handle and lift it up. Then pull the Air filter towards you and slide it down.



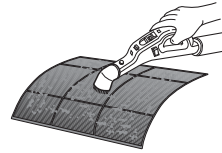
Cleaning the Air Conditioner

3. 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.

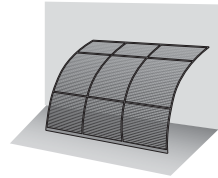
Open the panel and put the Air filter out.

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



Insert the Air filter back in its original position and close the front panel.

Dry the Air filter in a ventilated area.



CAUTION

- Do not scrub the air filter with a brush or other cleaning utensil. This may damage the filter.
- Do not expose the air filter to direct sunlight when drying it.

NOTE

- Clean the air filter every 2 weeks. Cleaning term may vary depending on the usage and environmental conditions.
- If the air filter dries in a humid area, it may produce offensive odours. Clean it again and dry it in a well-ventilated area.

Maintaining the Air Conditioner

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

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

Periodical checks

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

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

NOTE

- The checks and maintenance operations described above are essential to guarantee the efficiency of the air conditioner. The frequency of these operations may vary depending on the characteristics of the area, the amount of dust, etc.
 - a. The above mentioned operations should be performed more frequently if the area of installation is very dusty.
 - b. These operations must always be performed by qualified personnel. For more detailed information, refer to Installation Manual.

Maintaining the Air Conditioner

Internal protections via the unit control system

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

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

NOTE

- If the heat pump is operating in Heat mode, the de-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.
- The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.
- When the de-ice cycle is operating, it may generate strange sound. It is normal operation for product safety.

Troubleshooting

If the air conditioner operates abnormally, refer to the following chart to save time and unnecessary expenses.

Problem	Solution
The air conditioner does not work at all.	<ul style="list-style-type: none">• Check the power status, then operate the air conditioner again.• Switch on the circuit breaker, plug in the power cord, then operate the air conditioner again.• Make sure that the isolator is turned on.• Check whether the Timed off function is running. Operate the air conditioner again by pressing the Power button.
I cannot change the temperature.	<ul style="list-style-type: none">• Check whether the Fan or Fast mode is running. In these modes, the air conditioner controls the set temperature automatically, and you cannot change the set temperature.

Troubleshooting

Problem	Solution
<p>Cool/Warm air does not come out the air conditioner or performance is reduced.</p>	<ul style="list-style-type: none">• Check whether the set temperature is higher in the Cool mode or lower in the Heat mode than the current temperature. Press the Temperature button on the remote control to change the set temperature.• Check whether the air filter is blocked with dirt. If the air filter is blocked, the cooling and heating performance may decrease. Remove dirt regularly.• Check if the outdoor unit is covered or installed near the obstacle. Take the cover off and take the obstacle away. When clearing the obstacle (e.g. snow or ice), use suitable tools so as to be careful not to damage the product nor injure yourself during this process.• Check whether the air conditioner is running the defrost function. When ice forms in winter or the outdoor temperature is too low, the air conditioner runs the defrost function automatically. While this function is running, the indoor fan stops and warm air does not come out.• Check whether doors or windows are open. This may cause poor cooling or heating performance. Close the doors and windows.• Check whether the air conditioner is turned on immediately after the cooling or heating operation stops. In this case, only the fan runs to protect the outdoor unit compressor.• Check whether the pipe length is too long. When the pipe length exceeds the maximum pipe length, the cooling and heating performance may decrease.

Problem	Solution
I cannot change the air flow direction.	<ul style="list-style-type: none"> • Check whether the good'sleep function is running. While this function is running, you cannot control the air flow direction. (But you can control the air flow direction if this function is running in the Heat mode.)
I cannot change the fan speed.	<ul style="list-style-type: none"> • When the Auto, Dry, or Fast mode is running or the good'sleep function is running in the Cool mode, the air conditioner controls the fan speed automatically and you cannot change the fan speed.
The remote control does not work.	<ul style="list-style-type: none"> • Replace the batteries in the remote control with new ones. • Make sure that nothing is blocking the remote control sensor. • Check whether there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
The Timed on/off function does not work.	<ul style="list-style-type: none"> • Check whether you pressed the SET button on the remote control after setting the time.
The indicator blinks continuously.	<ul style="list-style-type: none"> • Press the Power button to turn off the air conditioner or disconnect the power plug. If the indicator is still blinking, contact the service centre.

Troubleshooting

Problem	Solution
Odours permeate in the room during operation.	<ul style="list-style-type: none">• Check whether the air conditioner is running in a smoky area. Ventilate the room or operate the air conditioner in the Fan mode for 3 to 4 hours. (There are no components used in the air conditioner that emit a strong odour.)• Check whether the drains are clean. Clean them regularly.
An error is indicated.	<ul style="list-style-type: none">• If the indoor unit indicator blinks, contact the nearest service centre. Be sure to pass the error code to the service centre.
Noise is generated.	<ul style="list-style-type: none">• When refrigerant flow changes, noise may be generated, depending on the status of the air conditioner. This is a normal operation.
'Excessive Noise is Generated' and 'Reduced Performance'	<ul style="list-style-type: none">• If excessive/irregular noise is generated in conjunction with reduced product performance, please refer to your service engineer to ensure the product is operating correctly.
Smoke is generated from the outdoor unit.	<ul style="list-style-type: none">• It may not be a fire but it can be a steam generated from the outdoor heat exchanger while the defrost function is running in the Heat mode in winter.
Water drops from the pipe connections of the outdoor unit.	<ul style="list-style-type: none">• Condensation may develop when the ambient temperature changes excessively. This is a normal operation.

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	OUTDOOR TEMPERATURE	INDOOR TEMPERATURE	INDOOR HUMIDITY
COOLING	-18 °C to 46 °C (0 °F to 115 °F)	18 °C to 32 °C (64 °F to 90 °F)	80 % or less
HEATING	-20 °C to 24 °C (-4 °F to 75 °F)	30 °C (86 °F) or less	-
DRYING	-18 °C to 46 °C (0 °F to 115 °F)	18 °C to 32 °C (64 °F to 90 °F)	80 % or less

NOTE

- The standardized temperature for heating is 8.3 °C (47 °F). If the outdoor temperature drops to 0 °C (32 °F) or below, the heating capacity can be reduced depending on the temperature condition.
- If the cooling operation is used at over 32 °C (90 °F) (indoor temperature), it does not cool at its full capacity.

Safety Information on Installation

Carefully follow the precautions listed below because they are essential to guarantee the safety of both the air conditioner and the workers.

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

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- The manufacturer shall not be responsible for damage originating from unauthorised 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 unauthorised personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorised centres or returned to the retailer so that it can be disposed of correctly and safely.

Installation of 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 authorised 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.
- 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 will be 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.
 - Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.
- Install the indoor unit away from lighting apparatus using the ballast.
 - If you use the wireless remote controller, reception error may occur due to the ballast of the lighting apparatus.
 - Do not install the air conditioner in following places.
 - Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
 - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet.
 - The copper pipe or connection pipe may corrode and refrigerant may leak.
 - The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
 - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust.
 - The place where thinner or gasoline is handled. Gas may leak and it may cause fire.
 - Be sure not to perform power cable modification, extension wiring, and multiple wire connection.
 - It may cause electric shock or fire due to poor connection, poor insulation, or current limit override.
 - When extension wiring is required due to power line damage, refer to "Step 2.4 Optional:Extending the power cable" in the installation manual.



CAUTION

- Make sure that you earth the cables.
 - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- Install the circuit breaker.
 - If the circuit breaker is not installed, electric shock or fire may occur.
- Make sure that the condensed water dripping from the drain hose runs out properly and safely.
- Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.

Preparation

Step 1.1 Choosing the installation location

Overview of installation location requirements

4.92 inch (125 mm) or more (recommended)

3.94 inch (100 mm) or more (recommended)

4.92 inch (125 mm) or more (recommended)

Drain hose hole
You can select the direction of draining (left or right).

Maximum pipe height: 26.25 ft (8 m)
Maximum pipe length: 49.21 ft (15 m)

Make at least one round to reduce noise and vibration.

The actual units may look different from the images depicted here.

Unit : ft (m)

Model	Pipe length		Pipe height
	Minimum	Maximum	Maximum
AC012MNADCH	9.84 (3)	65.62 (20)	49.21 (15)
AC018MNADCH	9.84 (3)	98.43 (30)	65.62 (20)
AC024MNADCH	9.84 (3)	164.04 (50)	98.43 (30)
AC030/036MNTDCH	9.84 (3)	164.04 (50)	98.43 (30)

Outdoor Unit

Outer wall

Indoor Unit

Cut insulation to have rainwater drained

CAUTION Make a 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 0.39 inch (10 mm)] to prevent rainwater from getting inside through the insulation.

Step 1.2 Checking and preparing accessories and tools

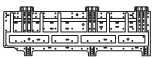






Accessories

Accessories in the indoor unit package

AC***MNADCH

Installation plate (1) **012** (01 frame)	Installation plate (1) **018** (04 frame)
Installation plate (1) **024** (05 frame)	Remote control (1)
Remote control battery (2)	User Manual (1)
Installation Manual (1)	Cap screw (3)
Remote Control Holder (1)	M4 x 16 Tapped Screws (2)
Guide Left(1)	Guide Right(1)

AC***MNTDCH

Installation plate (1) **030/036**	Remote control (1)
	
Remote control battery (2)	User Manual (1)
	
Installation Manual (1)	Remote Control Holder (1)
	
M4 x 16 Tapped Screws (2)	
	

Tools

General tools

- Vacuum pump (Backward flowing prevention)
- Manifold gauge
- Stud finder
- Torque wrench
- Pipe cutter
- Reamer
- Pipe bender
- Spirit level
- Screwdriver
- Spanner
- Drill
- L-wrench
- Measuring tape

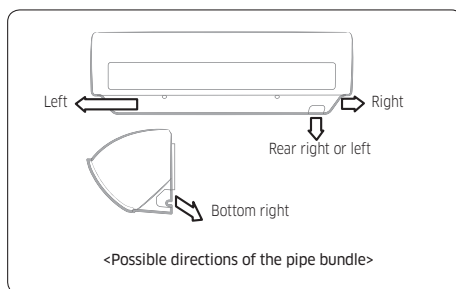
Tools for test operation

- Thermometer
- Resistance meter
- Electroscope

Step 1.3 Drilling a hole through the wall

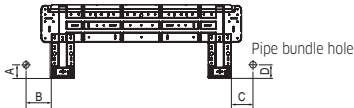
Before fixing the installation plate to a wall and then fixing the indoor unit to the installation plate, a window frame, or a gypsum board, you must determine the position of a hole [with 2.56 inch (65 mm) inner diameter] through which the pipe bundle (consisting of power and communication cables, refrigerant pipes, and drain hose) will pass and then drill that hole.

- 1 Determine the position of a 2.56 inch (65 mm) hole in consideration of the possible directions of the pipe bundle and the minimum distances between the hole and the installation plate.



CAUTION

- 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.



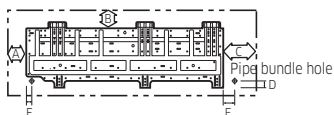
<Minimum distances between the hole and the installation plate>

Unit : inch (mm)

Model	A	B	C	D
AC012MNADCH	1.42 (36)	2.36 (60)	2.56 (65)	1.42 (36)
AC018MNADCH	1.42 (36)	7.48 (190)	3.19 (81)	1.42 (36)
AC024MNADCH	1.30 (33)	4.33 (110)	4.33 (110)	1.30 (33)

Pipe bundle hole: Ø 2.56 inch (65 mm)

Preparation



<Minimum distances between the hole and the installation plate>

Unit : inch (mm)

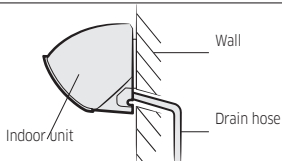
Model	A	B	C	D	E	F
AC030/036MNTDCH	6.14 (156)	2.64 (67)	14.33 (364)	1.36 (34.5)	2.54 (64.5)	0.77 (19.5)

Pipe bundle hole: Ø 2.56 inch (65 mm)

2 Drill the hole.

CAUTION

- Be sure to drill only one hole.
- Make sure that the hole slants downwards so that the drain hose slants downwards to drain water well.



<The hole slants downwards>

Step 1.4 Performing leak test

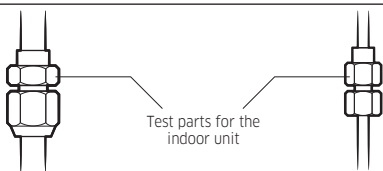
Leak test

LEAK TEST WITH NITROGEN (before opening valves)

In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R410A, it's responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (gauge).

LEAK TEST WITH R410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R410A.



Test parts for the indoor unit

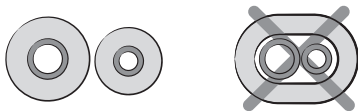
CAUTION

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

Step 1.5 Wrapping the pipes with the insulation

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

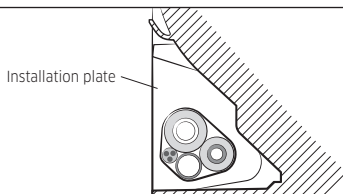
- 1 To avoid condensation problems, place heat-resistant poly-ethylene foam separately around each refrigerant pipe in the lower part of the indoor unit.



- 2 Wrap the refrigerant pipe and the drain hose in the rear of the indoor unit with the absorbent pad.

NOTE

- Wind the pipe and hose three times to the end of the indoor unit with the absorbent pad. [0.79 inch (20mm) interval]
- 3 Wind the pipe, assembly cable and drain hose with insulation tape.
 - 4 Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it doesn't project from the rear of the indoor unit.



- 5 Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.
- 6 Wrap the rest of the pipe with vinyl tape.
- 7 Attach the pipe to the wall using clamps (optional).

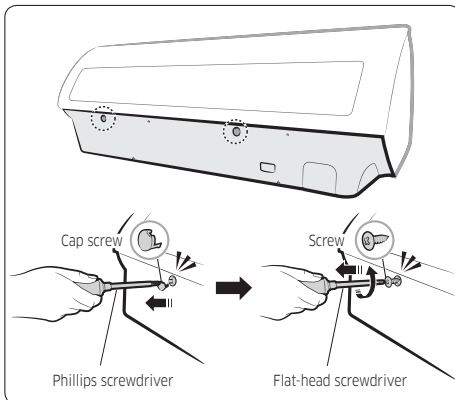
Indoor Unit Installation



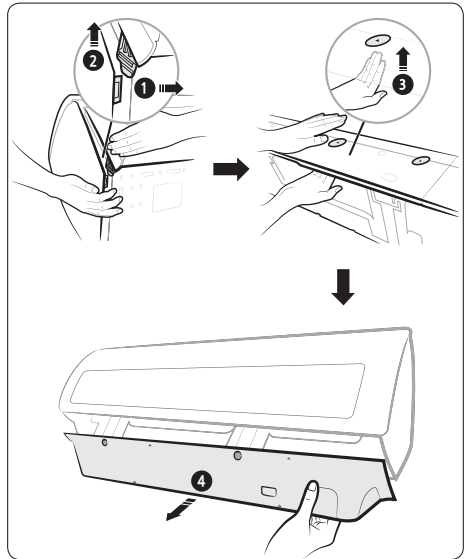
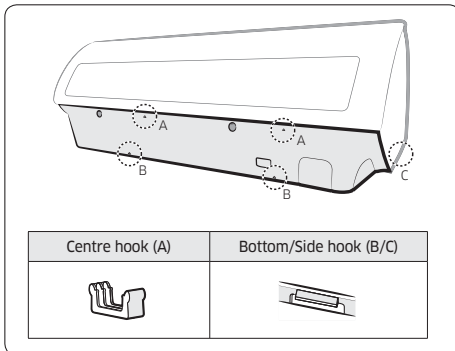
Please scan this QR code for detail video of indoor unit installation.
(This QR code only for AC***MNADCH)

Step 2.1 Disassembling the cover panel (only for AC***MNADCH)

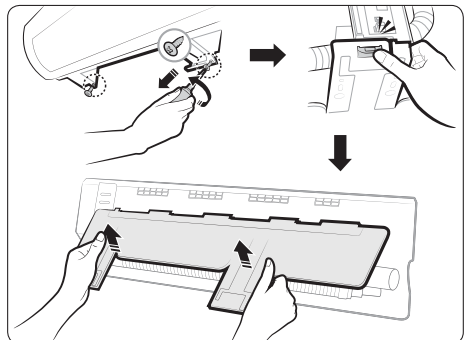
- 1 Remove the cap screws, then the screws.



- 2 Unlock the side hooks (1, 2), then centre hooks (3). Then unlock the bottom hooks (4) to pull out the cover panel.

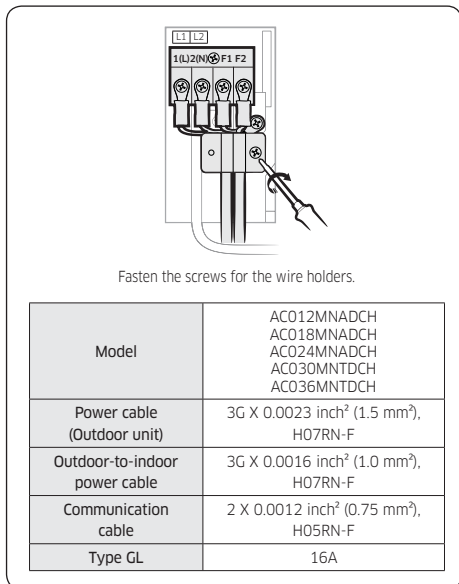
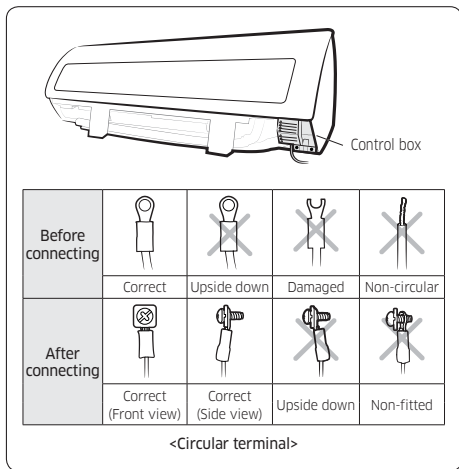


Step 2.2 Disassembling the installation plate



Indoor Unit Installation

Step 2.3 Connecting the power and communication cables (assembly cable)



- When performing electrical and earthing works, be sure to comply with the 'technical standards of electrical installations' and the 'wiring regulations' in the local regulations.
- Tighten the terminal block screw to 0.89-1.33 lbf•ft [1.2-1.8 N•m (12-18 kgf•cm)].

NOTE

- Each wire is labelled with the corresponding terminal number.
- 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: 60245 IEC 66/ CENELEC: H07RN-F, IEC: 60245 IEC 57/CENELEC: H05RN-F)
- Power & Communication cable shall not exceed 98.42 ft (30m).

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 hazard due to overheating of the electrical contact during installation.
- If you need to extend the pipe, be sure to extend the cable too. The maximum length of each of the cable and pipe used should not exceed 49.21 ft (15 metres).
- Do not connect two or more different cables to extend the length. This connection may cause fire.
- Each circular terminal must match the size of its corresponding screw in the terminal block.
- After connecting the cables, make sure that terminal numbers on the indoor and outdoor units match.
- Ensure that power and communication cables are separated, they must not be in the same cable.

WARNING

- Connect the wires firmly so that wires cannot be pulled out easily. (If they are loose, it could cause burn-out of the wires.)

Step 2.4 Optional: Extending the power cable

1 Prepare the following tools.

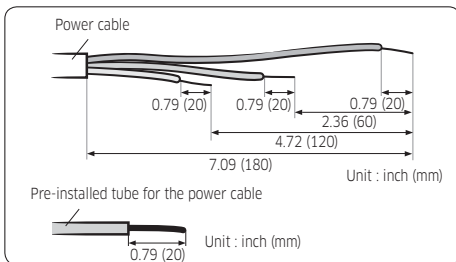
Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve [inch (mm)]	20xØ0.26 (6.5) (HxOD)	
Insulation tape	Width 0.75 inch (19 mm)	
Contraction tube [inch (mm)]	70xØ0.31 (8.0) (LxOD)	

2 As shown in the figure, peel off the shields from the rubber and wire of the power cable.

- Peel off 0.79 inch (20 mm) of cable shields from the pre-installed tube.

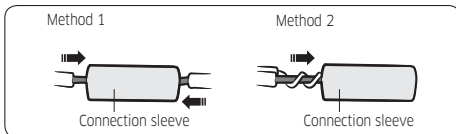
CAUTION

- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.



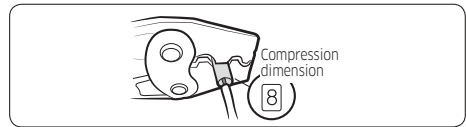
3 Insert both sides of core wire of the power cable into the connection sleeve.

- **Method 1:** Push the core wire into the sleeve from both sides.
- **Method 2:** Twist the wire cores together and push it into the sleeve.

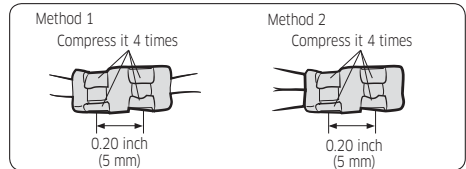


4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.

- The compression dimension should be 0.31 inch (8.0 mm).

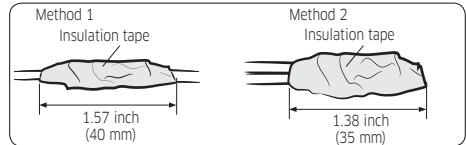


- After compressing it, pull both sides of the wire to make sure it is firmly pressed.

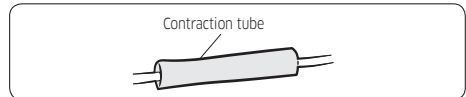


5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

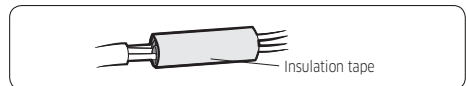
Three or more layers of insulation are required.



6 Apply heat to the contraction tube to contract it.



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



CAUTION

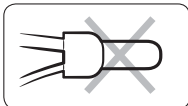
- Make sure that the connection parts are not exposed to outside.
- Be sure to use insulation tape and a contraction tube made of approved reinforced insulating materials that

Indoor Unit Installation

have the same level of withstand voltage with the power cable. (Comply with the local regulations on extensions.)

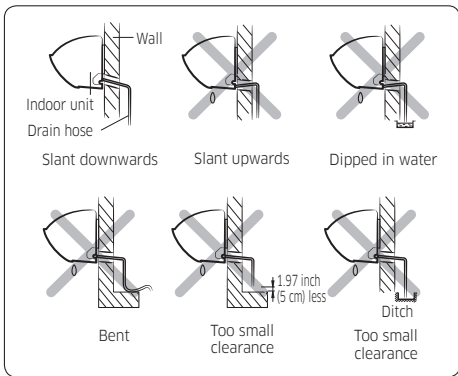
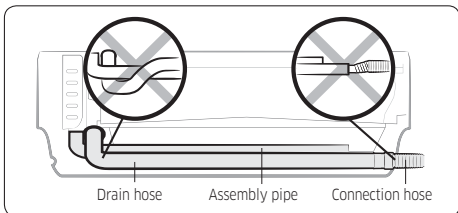
⚠ WARNING

- 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.

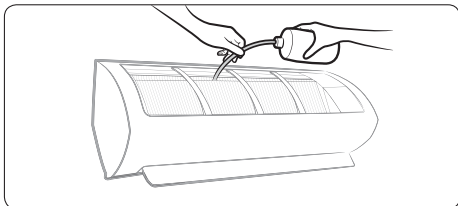


Step 2.5 Installing and connecting the drain hose

- 1 Install the drain hose.



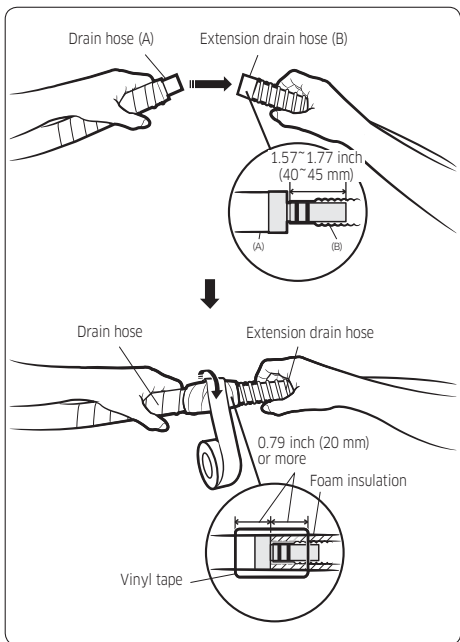
- 2 Pour water into the drain pan. Check whether the hose is well drained.



⚠ CAUTION

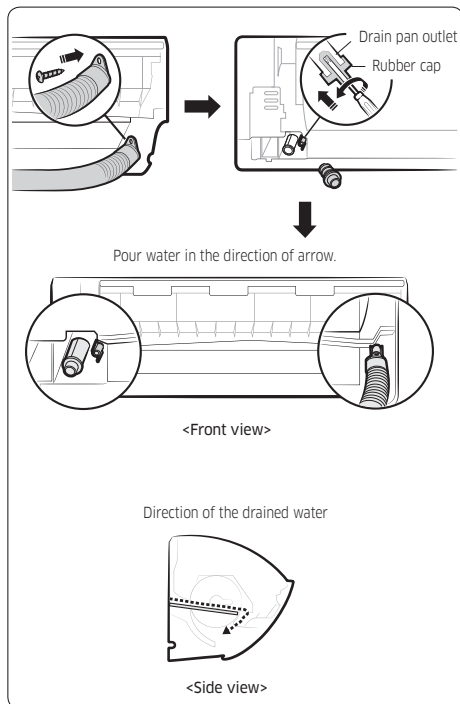
- Make sure that the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical part.
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.
- Inadequate installation may cause 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 box in or cover the drain hose connection. Drain hose connection must be easily accessible and serviceable.

Step 2.6 Optional: Extending the drain hose



Step 2.7 Optional: Changing the direction of the drain hose

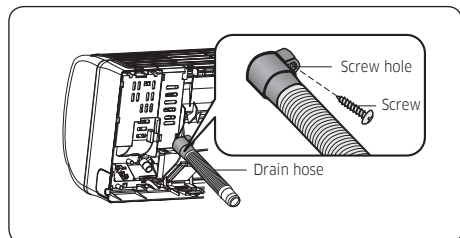
AC***MNADCH



AC***MNTDCH

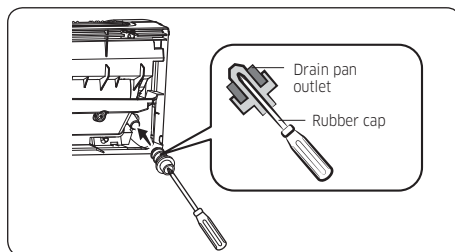
Change the direction only when it is necessary.

- 1 Detach the rubber cap with the flyer.

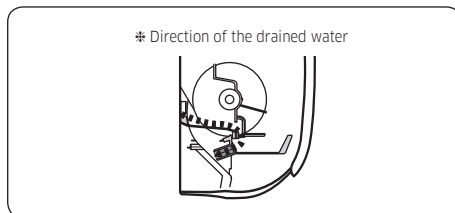
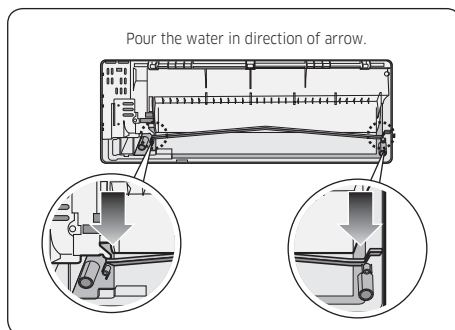


- 2 Detach the drain hose by pulling it and turning to the left.

- 3 Insert the drain hose by fixing it into the groove of the drain pan and the outlet of the drain pan.



- 4 Attach the rubber cap with a screwdriver by turning it to the right until it fixes to the end of the groove.
- 5 Check for leakage on both side of the drain outlet.



⚠ CAUTION

- Make sure that 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.

Indoor Unit Installation

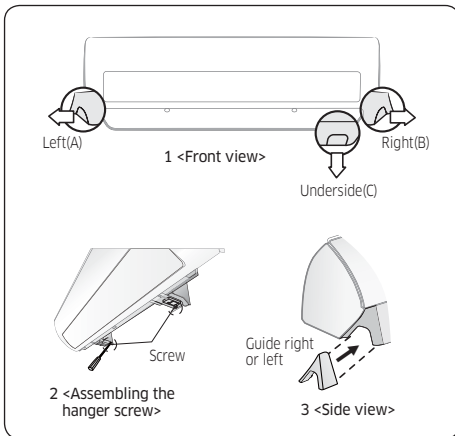
Step 2.8 Installing and connecting the assembly pipes to the refrigerant pipes (assembly pipe)

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 liquid refrigerant pipe and a short gas refrigerant pipe are already fitted to the air conditioner. The connection procedure for the refrigerant pipes varies according to the exit position of each pipe when facing the wall:



- 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 [inch (mm)]	Torque [lb•ft (N•m)]	Torque (kgf•cm)
ø 1/4" (6.35)	10.3 to 13.3 (14 to 18)	140 to 180
ø 3/8" (9.52)	25.1 to 31.0 (34 to 42)	350 to 430
ø 1/2" (12.70)	36.1 to 45.0 (49 to 61)	500 to 620
ø 5/8" (15.88)	50.2 to 60.5 (68 to 82)	690 to 830

NOTE

- If you want to shorten or extend the pipes, see **Step 2.9 Shortening or extending the refrigerant pipes (assembly pipe)** on page 49.

- 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 3.94 inch (100 mm) or more.
- 6 Pass the pipe through the hole in the wall.
- 7 Fix the indoor unit on the wall. Pass the cables, pipes and hose through the knock-out hole which would be connected to the outdoor unit.
- 8 Use 2 screws to fix the indoor unit as shown in the picture 2.
- 9 Assemble the Guide into the position of A or B as shown in the picture 3.

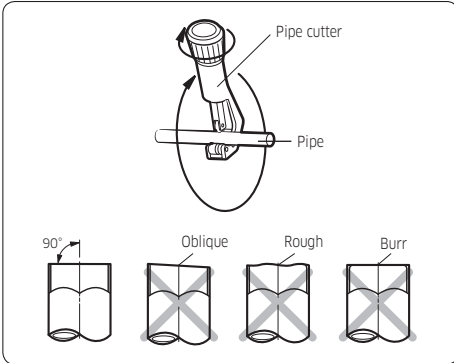
NOTE

- The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test.

CAUTION

- Tighten the flare nut with a torque wrench according to specified method. If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- Do not box in or cover the pipe connection. All refrigerant pipe connection must be easily accessible and serviceable.

Step 2.9 Shortening or extending the refrigerant pipes (assembly pipe)



Unit: inch (mm)

Outer diameter (D)	Depth (A)	Flare dimension (L)
ø 1/4" (6.35)	0.051 (1.3)	0.34 to 0.36 (8.7 to 9.1)
ø 3/8" (9.52)	0.071 (1.8)	0.50 to 0.52 (12.8 to 13.2)
ø 1/2" (12.70)	0.079 (2.0)	0.64 to 0.65 (16.2 to 16.6)
ø 5/8" (15.88)	0.087 (2.2)	0.76 to 0.78 (19.3 to 19.7)

Outer diameter [inch (mm)]	Torque [lbf·ft (N·m)]	Torque (kgf·cm)
ø 1/4" (6.35)	10.3 to 13.3 (14 to 18)	140 to 180
ø 3/8" (9.52)	25.1 to 31.0 (34 to 42)	350 to 430
ø 1/2" (12.70)	36.1 to 45.0 (49 to 61)	500 to 620
ø 5/8" (15.88)	50.2 to 60.5 (68 to 82)	690 to 830

⚠ CAUTION

- If you need a pipe longer than specified in piping codes and standards, you must add refrigerant to the pipe. Otherwise, the indoor unit may freeze.
- While removing burrs, put the pipe face down to make sure that the burrs do not get in to the pipe.

<Flare nut>

Indoor Unit Installation

NOTE

- Excessive torque may cause gas leakage. When extending the pipe with welding or brazing, ensure that nitrogen is used during the welding or brazing process. The joint must be accessible and serviceable.

CAUTION

- Tighten the flare nut at the specified torque. If the flare nut is over-tightened, it may break to cause leakage of refrigerant gas.

Step 2.10 Fixing the installation plate

You can install the indoor unit on a wall, window frame, or gypsum board.

WARNING

- Make sure that the wall, window frame, or gypsum board can withstand the weight of the indoor unit. If you install the indoor unit in a place where it is not strong enough to withstand the unit's weight, the unit could fall and cause injury.

When fixing the indoor unit on a wall

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

Unit : inch (mm)

Model	A	B	C	D
AC012MNADCH	1.42 (36)	2.36 (60)	2.56 (65)	1.42 (36)
AC018MNADCH	1.42 (36)	7.48 (190)	3.19 (81)	1.42 (36)
AC024MNADCH	1.30 (33)	4.33 (110)	4.33 (110)	1.30 (33)

Pipe bundle hole: \varnothing 2.56 inch (65 mm)

Unit : inch (mm)

Model	A	B	C	D	E	F
AC030/036MNTDCH	6.14 (156)	2.64 (67)	14.33 (364)	1.36 (34.5)	2.54 (64.5)	0.77 (19.5)

Pipe bundle hole: \varnothing 2.56 inch (65 mm)

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 0.79 inch (20 mm).

When fixing the indoor unit on a window frame

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

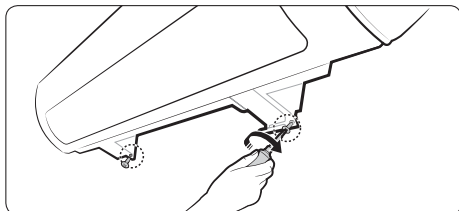
When fixing the indoor unit on a gypsum board

- Use stud finder to find out locations of the studs.
- Fix the plate hanger on two studs.

CAUTION

- If you fix the indoor unit on a gypsum board, use only specified anchor bolts on reference positions. Otherwise, the gypsum surrounding the joints may crumble over time and cause the screws to be loosened and stripped. This may lead to physical injury or equipment damage.
- 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.

Step 2.11 Fixing the indoor unit to the installation plate

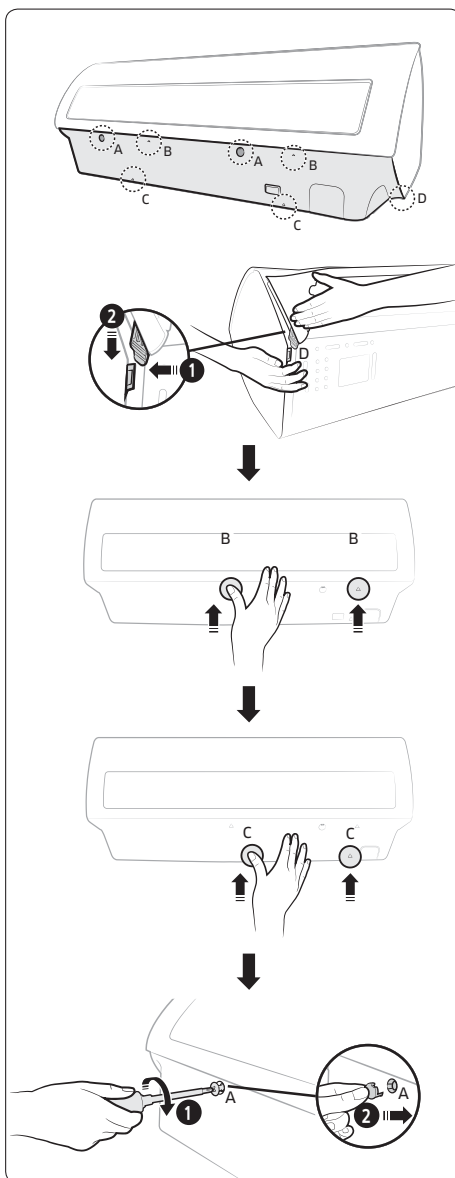


CAUTION

- Make sure that the pipe bundle does not move when you install the indoor unit onto the installation plate.

Step 2.12 Assembling the cover panel (Only for AC***MNADCH)

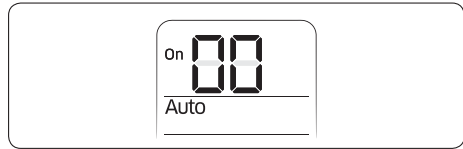
- 1 Lock the side hooks (D), then centre hooks (B). Then lock the bottom hooks (C) to engage the cover panel in place.
- 2 Fasten the screw (A-①), then assemble the cap screws (A-②).



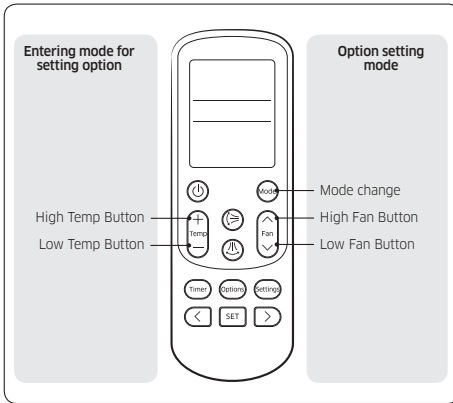
Setting an indoor unit address and installation option

- Set the indoor unit address and installation option with remote controller option. Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.
- Please use the proper wireless remote controller which can set 24 digit option code.
- Please refer to the wired remote controller installation manual for setting with the wired remote controller.

- Enter the mode for setting the options:
 - Remove the batteries from the remote control, and then insert them again.
 - While holding down the \oplus (High Temp) and \ominus (Low Temp) buttons simultaneously, insert the batteries into the remote control.
 - Make sure that you are entered to the mode for setting the options:



Common steps for setting the addresses and options



- Set the option values.

⚠ CAUTION

- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24









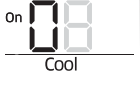
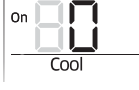














📄 NOTE

- The remote control display and buttons may vary depending on the model.



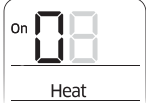
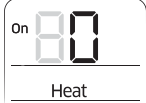





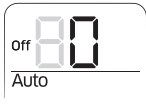




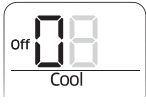
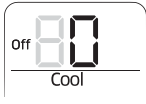




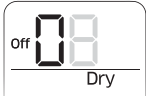
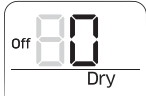

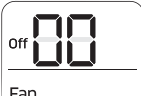
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X



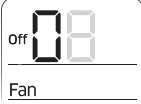
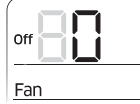

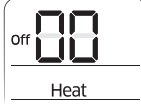


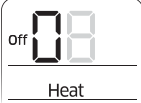
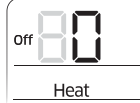
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
<p>The image shows a close-up of the remote control's LCD display. The display shows the word 'On' at the top, followed by two large digits '00' in the center, and the word 'Auto' at the bottom.</p>	<p>The image shows a close-up of the remote control's LCD display. The display shows the word 'Off' at the top, followed by two large digits '00' in the center, and the word 'Auto' at the bottom.</p>


Take the steps presented in the following table:

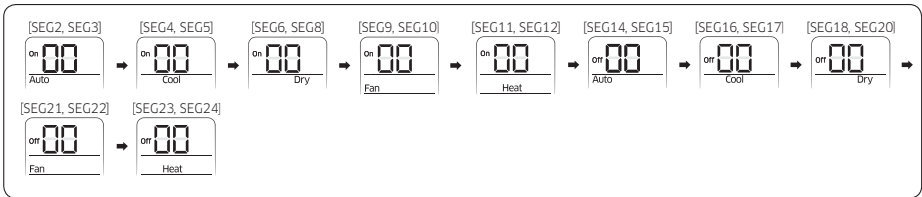
Option setting	Status
<p>1 Setting SEG2, SEG3 option</p> <p>Press Low Fan button  to enter SEG2 value.</p> <p>Press High Fan button  to enter SEG3 value.</p> <p>Each time you press the button, 0 • 1 • ... • E • F will be selected in rotation.</p>	  <p style="text-align: center;">SEG2 SEG3</p>
<p>2 Setting Cool mode</p> <p> Press Mode button to be changed to Cool mode in the ON status.</p>	
<p>3 Setting SEG4, SEG5 option</p> <p>Press Low Fan button  to enter SEG4 value.</p> <p>Press High Fan button  to enter SEG5 value.</p> <p>Each time you press the button, 0 • 1 • ... • E • F will be selected in rotation.</p>	  <p style="text-align: center;">SEG4 SEG5</p>
<p>4 Setting Dry mode</p> <p> Press Mode button to be changed to DRY mode in the ON status.</p>	
<p>5 Setting SEG6, SEG8 option</p> <p>Press Low Fan button  to enter SEG6 value.</p> <p>Press High Fan button  to enter SEG8 value.</p> <p>Each time you press the button, 0 • 1 • ... • E • F will be selected in rotation.</p>	  <p style="text-align: center;">SEG6 SEG8</p>
<p>6 Setting Fan mode</p> <p> Press Mode button to be changed to FAN mode in the ON status.</p>	
<p>7 Setting SEG9, SEG10 option</p> <p>Press Low Fan button  to enter SEG9 value.</p> <p>Press High Fan button  to enter SEG10 value.</p> <p>Each time you press the button, 0 • 1 • ... • E • F will be selected in rotation.</p>	  <p style="text-align: center;">SEG9 SEG10</p>
<p>8 Setting Heat mode</p> <p> Press Mode button to be changed to HEAT mode in the ON status.</p>	

Setting an indoor unit address and installation option


Option setting	Status
<p>9 Setting SEG11, SEG12 option</p> <p>Press Low Fan button  to enter SEG11 value.</p> <p>Press High Fan button  to enter SEG12 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG11</p> </div> <div style="text-align: center;">  <p>SEG12</p> </div> </div>
<p>10 Setting Auto mode</p> <p> Press Mode button to be changed to AUTO mode in the OFF status.</p>	<div style="text-align: center;">  </div>
<p>11 Setting SEG14, SEG15 option</p> <p>Press Low Fan button  to enter SEG14 value.</p> <p>Press High Fan button  to enter SEG15 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG14</p> </div> <div style="text-align: center;">  <p>SEG15</p> </div> </div>
<p>12 Setting Cool mode</p> <p> Press Mode button to be changed to Cool mode in the OFF status.</p>	<div style="text-align: center;">  </div>
<p>13 Setting SEG16, SEG17 option</p> <p>Press Low Fan button  to enter SEG16 value.</p> <p>Press High Fan button  to enter SEG17 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG16</p> </div> <div style="text-align: center;">  <p>SEG17</p> </div> </div>
<p>14 Setting Dry mode</p> <p> Press Mode button to be changed to Dry mode in the OFF status.</p>	<div style="text-align: center;">  </div>
<p>15 Setting SEG18, SEG20 option</p> <p>Press Low Fan button  to enter SEG18 value.</p> <p>Press High Fan button  to enter SEG20 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG18</p> </div> <div style="text-align: center;">  <p>SEG20</p> </div> </div>
<p>16 Setting Fan mode</p> <p> Press Mode button to be changed to Fan mode in the OFF status.</p>	<div style="text-align: center;">  </div>

Option setting	Status
<p>17 Setting SEG21, SEG22 option</p> <p>Press Low Fan button  to enter SEG21 value.</p> <p>Press High Fan button  to enter SEG22 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG21</p> </div> <div style="text-align: center;">  <p>SEG22</p> </div> </div>
<p>18 Setting Heat mode</p> <p> Press Mode button to be changed to HEAT mode in the OFF status.</p>	<div style="text-align: center;">  <p>Heat</p> </div>
<p>19 Setting SEG23, SEG24 option</p> <p>Press Low Fan button  to enter SEG23 value.</p> <p>Press High Fan button  to enter SEG24 value.</p> <p>Each time you press the button, 0 → 1 → ... → E → F will be selected in rotation.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SEG23</p> </div> <div style="text-align: center;">  <p>SEG24</p> </div> </div>


3 Check whether the option values that you have set are correct by pressing the  button repeatedly.



4 Save the option values into the indoor unit:

Press the  button with the direction of remote control for set. For correcting option values, input the option values twice.

5 Check whether the air conditioner operates in accordance with the option values you have set:

- a Reset the indoor unit by pressing the Reset button on the indoor or outdoor unit.
- b Remove the batteries from the remote control, insert them again, and then press the  button on the remote control.

Setting an indoor unit address and installation option

Setting the indoor unit addresses

- 1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.
- 2 The panel(display) should be connected to an indoor unit to receive option.
- 3 Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
- 4 Assign an indoor unit address by wireless remote controller.
 - The initial indoor unit ADDRESS is set as "MAIN : 0, RMC : 0".
 - Set Main and RMC Address only the setting is required.
 - There is no need to assign the indoor unit Main Address if the outdoor unit is addressing automatically. The indoor unit Main address will follow the outdoor unit's automatically.
 - Assign 12 digit when setting the indoor unit address.
 - No need to assign SEG4, 5, 8, 10 which are non applicable. Even though those segments are set, they will be ignored.
 - If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.

Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4	SEG5	SEG6		
Explanation	PAGE		MODE		Setting Main address		RESERVED	RESERVED	The unit digit of an indoor unit		
Indication and Details	Indication	Details	Indication	Details	Indication	Details			Indication	Details	
	0		A		0	No Main address			0~3(ACN*)	Details	
					1	Main address setting mode	0~4 (AJN*)	A single digit			
Option	SEG7		SEG8		SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE		RESERVED		Setting RMC address		RESERVED	Group channel(*16)		Group address	
Indication and Details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0~2	RMC2	0~F
			1	RMC address setting mode							

*SEG6: AJN** models should check maximum installation indoor unit number of outdoor unit.
(Indoor1: 0, Indoor2: 1, ~)

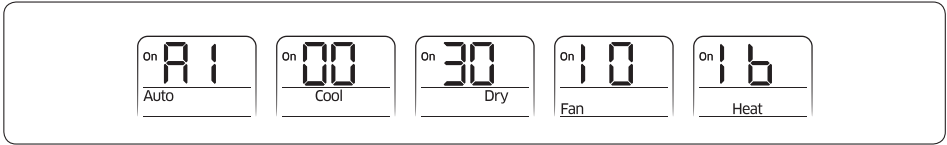
CAUTION

- When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG6.
- If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

Example) If you want to set as "MAIN: 3, CHANNEL: 1, RMC: B",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	A	1	-	-	3
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	1	-	1	B

assign option codes except SEG 1, 7 which are page options.



Setting the installation options in a batch

- 1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.
- 2 The panel(display) should be connected to an indoor unit to receive option.
- 3 Set the installation option according to the installation condition of an air conditioner.
 - The default setting of an indoor unit installation option is "02000-100000-200000-300000".
 - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
 - No need to assign SEG3, 6, 9, 10, 11, 16, 21, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
 - If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.
- 4 Set the indoor unit option by wireless remote controller.

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

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		RESERVED	Use of external temperature sensor		Use of central control		RESERVED	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details		
	0		2			0	Disuse	0	Disuse		
	1		Use			1	Use	1	Use		
Option	SEG7		SEG8		SEG9	SEG10	SEG11		SEG12		
Explanation	PAGE		Use of drain pump		RESERVED	RESERVED	RESERVED		Group address		
Indication and details	Indication	Details	Indication	Details					Indication	Details	
	1		0	Disuse					0	slave	
			1	Use					1	master	
2			Use + 3minute delay								

Setting an indoor unit address and installation option

Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18
Explanation	PAGE		Use of external control		Setting the output of external control		S-Plasma ion		Buzzer control		RESERVED
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	2		0	Disuse	0	Thermo on	0	Disuse	0	Use	
			1	On/Off control							
			2	Off control	1	Operation on	1	Use	1	Disuse	
3	Window on/off control										
Option	SEG19		SEG20		SEG21		SEG22		SEG23		SEG24
Explanation	PAGE		Individual control of a remote controller		Heating setting compensation		RESERVED	RESERVED	RESERVED		
Indication and details	Indication	Details	Indication	Details	Indication	Details					
	3		0 or 1	Indoor 1	0	Disuse					
			2	Indoor 2							
			3	Indoor 3							
4	Indoor 4	1	2°C	2	5°C						

If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as "Indoor 1".

Example) If you want to set as "Exterior temperature sensor : USE, External control : USE

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	1	0	-
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	0	-	-	-	0
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	1	0	-	0	0
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	0	-	-	-	-

assign option codes except SEG 1, 7, 13, 19 which are page options.

Changing the addresses and options individually

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F



NOTE

- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'.

Example) When setting the 'buzzer control' into disuse status.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

Troubleshooting

Detection of errors




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




LED Display on the receiver & display unit

LED Display

- ◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- ◆ When E108 error occurs, change the address and reset the system.Ex.) When address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.

● On ○ Flickering ✕ Off

Abnormal condition	Error code	LED Display		
				
Error on indoor temperature sensor (Short or Open)	E121	✕	○	✕
1. Error on Eva-in sensor (Short or Open) 2. Error on Eva-out sensor (Short or Open) 3. Discharge sensor error (Short or Open)	E122 E123 E126	○	○	✕
Indoor fan error	E154	✕	✕	○
1. Error on outdoor temperature sensor (Short or Open) 2. Error on cond sensor 3. Error on discharge sensor Other outdoor unit sensor error that is not on the above list	E221 E237 E251	○	✕	○
1. When there is no communication between the indoor•outdoor units for 2 minutes 2. Communication error received from the outdoor unit 3. 3 minute tracking error on outdoor unit 4. Communication error after tracking due to unmatching number of installed units 5. Error due to repeated communication address 6. Communication address not confirmed Other outdoor unit communication error that is not on the above list	E101 E102 E202 E201 E108 E109	✕	○	○
Self diagnosis error display 1. Error due to opened EEV (2nd detection) 2. Error due to closed EEV (2nd detection) 3. Eva in sensor is detached 4. Eva out sensor is detached 5. Thermal fuse error (Open)	E151 E152 E128 E129 E198	●	○	○

<u>Abnormal condition</u>	<u>Error code</u>	<u>LED Display</u>		
				
1. COND mid sensor is detached	E241			
2. Refrigerant leakage (2nd detection)	E554			
3. Abnormally high temperature on Cond (2nd detection)	E450			
4. Low pressure s/w (2nd detection)	E451			
5. Abnormally high temperature on discharged air on outdoor unit (2nd detection)	E416			
6. Indoor operation stop due to unconfirmed error on outdoor unit	E559			
7. Error due to reverse phase detection	E425			
8. Comp stop due to freeze detection (6th detection)	E403			
9. High pressure sensor is detached	E301	●	◐	◐
10. Low pressure sensor is detached	E306			
11. Outdoor unit copression ration error	E428			
12. Outdoor sump down_1 prevetion control	E413			
13. Compressor down due to low pressure sensor prevention control_1	E410			
14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection)	E180			
15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection)	E181			
Other outdoor unit self-diagnosis error that is not on the above list				
EEPROM error	E162	◐	◐	◐

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