

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 piper) | e) |
| 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 | 60 |

Safety Information

California Proposition 65 Warning (US)

⚠ WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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.
- On 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.

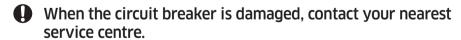
 Failing to do so may result in water overflowing and property damage. Avoid adding drain to waste pipes as odours may arise in the future.

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



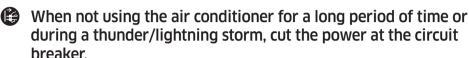


Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.

This may result in electric shock or fire.



CAUTION



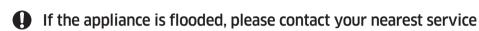
Failing to do so may result in electric shock or fire.

FOR USING



⚠ WARNING

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.
- O 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.

A 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.

- On 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.

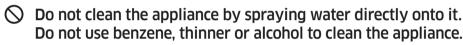
This appliance is not intended for use by persons (including

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



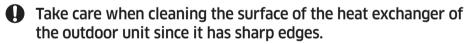
• This may result in discolouration, deformation, damage, electric shock or fire.

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



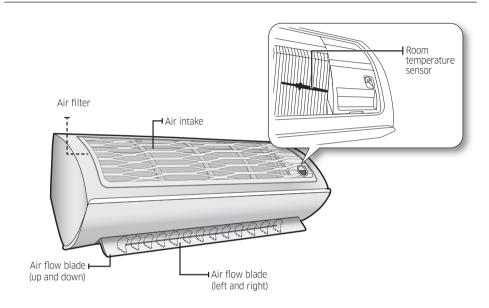
- This should be done by a qualified technician. Please contact vour installer or service centre.
- O Do not clean the inside of the air conditioner by yourself.
 - For cleaning inside the appliance, contact your nearest service centre.
 - When cleaning the filter, refer to the descriptions in the 'Cleaning at a Glance' section.
 - Failing to do so may result in damage, electric shock or fire.

Indoor Unit Overview

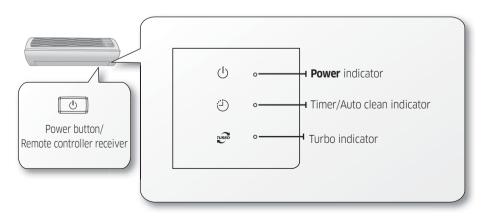
The actual product may differ slightly from the image depicted below.

AC***MNADCH

Main parts

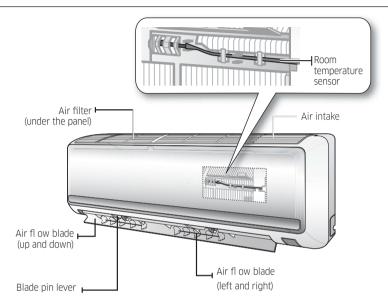


Display

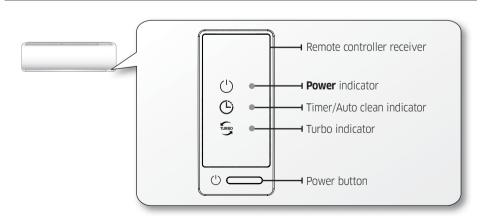


AC***MNTDCH

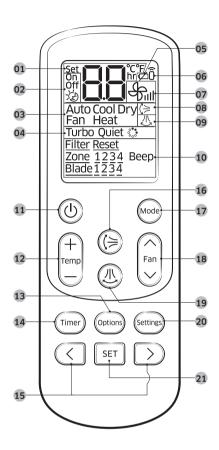
Main parts



Display



Remote Control Overview



- **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 Vertcal 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

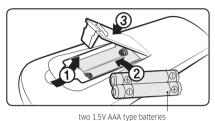
NOTE

- This function is not available in this model
- 20 Settings button
- 21 SET button

- 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 **\(\overline{\sigma}\)** icon appears in the remote control display, replace the batteries with new ones. Two 1.5V AAA type batteries are required.





Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

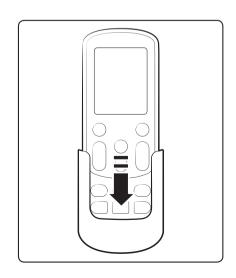
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg. Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference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



 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

- In case of installing with the cooling only outdoor unit, it does not operate in the 'heat' mode input. (AC***MXSCCC)
- 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

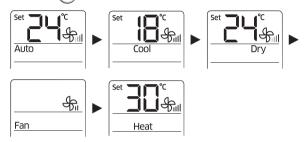


Turning the air conditioner on

Press the (b) button to operate the air conditioner.

Selecting the operation mode

Press the Mode button to select an operation mode.



Adjusting the temperature

Press the button to adjust the temperature.

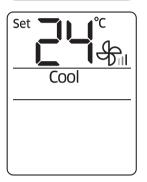
| Mode | Temperature control | | |
|-------------------|--|--|--|
| Auto/Cool/ Dry | Adjust by 1 °C (1 °F) between 18 °C (65 °F) and 30 °C (86 °F). | | |
| Heat | Adjust by 1 °C (1 °F) between 16 °C (61 °F) and 30 °C (86 °F). | | |
| Fan | Temperature cannot be adjusted. | | |

Selecting the fan speed

Press the \bigcap_{Fan} button to adjust the fan speed.

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





Selecting air flow direction

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

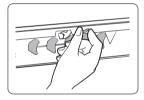
In operation ▶ (>





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

Remote control display



Horizontal air flow (manual)

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



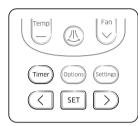
 Although you press the button, this function does not work

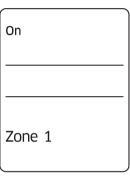


• To prevent personal injury, make sure that you change the directions of the horizontal air flow blades after stopping the movements of the vertical air flow hlade

Setting the On or Off timer

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



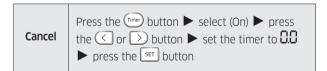


Remote control display

Setting the On timer

When the air conditioner is turned off:

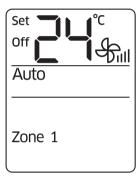
- 1 Press the (Timer) button to select (On).
 - The (On) indicator will keep blinking and you can set the time.
- 2 Press the (or) button to set the time.
 - You can set the time in half hour intervals from 30 minutes (0.5 on the display) to 3 in hour intervals from 3 to 24 hours.
 - The time can be 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.



Additional options available in the On timer Select the mode in the following order: (Auto) ► (Cool) ► (Dry) ► (Fan) and ► (Heat). 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.

- 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.



NOTE

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

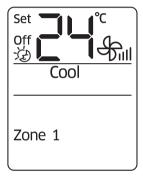
| Combining On timer and Off timer | | | |
|---|---|--|--|
| When the air conditioner is turned off | When the air conditioner is turned on | | |
| When the set time on On timer is less than that on Off timer | When the set time on On timer is greater than that on Off timer | | |
| e.g. On timer: 3 hours, Off timer: 5 hours | e.g. On timer: 3 hours, Off timer: 1 hour | | |
| The air conditioner will be turned on after a 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. | 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 (4) button.

Setting the good'sleep mode

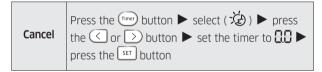




Remote control display

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

- 1 Press the (Timer) button to select (2).
 - 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 (\(\int \)) 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.



Additional options available in good'sleep mode



The temperature can be adjusted by 1 $^{\circ}$ C (1 $^{\circ}$ F) within the range of 18 $^{\circ}$ C (65 $^{\circ}$ F) to 30 $^{\circ}$ C (86 $^{\circ}$ 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.

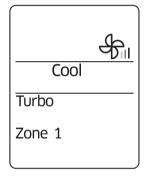
- Fall asleep mode: Provides you with comfortable environment for a good sleep by rapid cooling and hypnagogue expedition breeze.
- Sound sleep mode: The sound sleep mode adjusts temperature and air flow in waves to
 maintain healthy skin temperature while it aids deep sleep. According to the change 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.

- 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 (online) 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 wo 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.

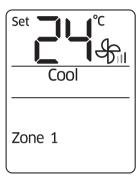


- Turbo function is available in Cool or Heat mode.
- If the Turbo function is selected while the Quiet function is on, the Quiet function will be cancelled.
- The temperature and fan speed cannot be adjusted.

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 (ettings) 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.

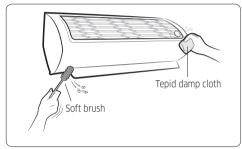
Cleaning the Air Conditioner

! CAUTION

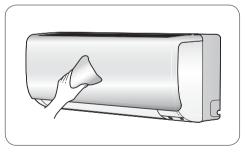
• Before cleaning, be sure to turn off the equipment and disconnect the power plug.

Cleaning the exterior

AC***MNADCH



AC***MNTDCH



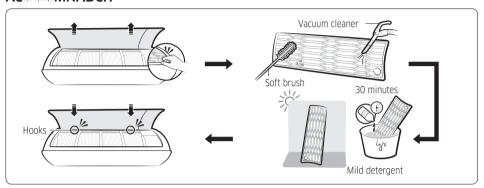
Wipe the surface of the unit with a slightly wet or dry cloth when needed. Wipe off dirt from oddshaped areas by using a soft brush.

∴ 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.

Cleaning the filter

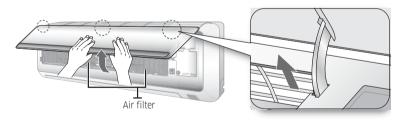
AC*****MNADCH**



AC***MNTDCH

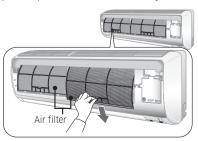
1. Opening the panel

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



2. Removing the Air filter

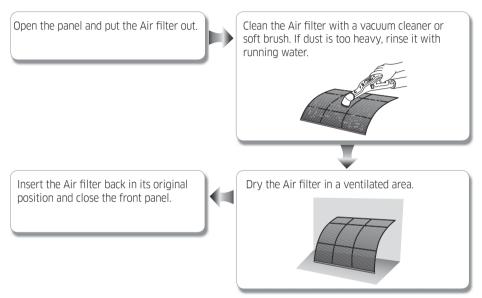
Grab the handle and lift it up. Then pull the Air filter towards you and slide it down.



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.



♠ 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.

- 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.

| Туре | Description | Monthly | Every 4 months | Once a year |
|--------------|---|---------|----------------|----------------|
| | Clean the air filter (1). | • | | |
| | Clean the condensate drain pan (2). | | | • |
| Indoor unit | 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.

| Туре | 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. | | |

- 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. | 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. • Check whether the Fan or Fast mode is runner to the set temperature automatically, and you can change the set temperature. | | | |

Troubleshooting

| Problem | Solution | | |
|--|--|--|--|
| Cool/Warm air does not come out the air conditioner or performance is reduced. | 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. | 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. | 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. | 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. | Check whether you pressed the SET button on the remote control after setting the time. | | |
| The indicator blinks continuously. | 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. | 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. | 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. | 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' | 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. | If 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. | 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.

AC***MN*DCH / AC***XCDCH

| 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 |

AC***MN*DCH / AC***MXSCCC

| MODE | OUTDOOR TEMPERATURE | INDOOR TEMPERATURE | INDOOR HUMIDITY |
|---------|---------------------------------------|------------------------------------|-----------------|
| COOLING | -40 °C to 46 °C (-40 °F to 115 °F) | 18 °C to 32 °C (64 °F to 90 °F) | 80 % or less |
| DRYING | -40 °C to 46 °C (-40 °F to 115 °F) | 18 °C to 32 °C (64 °F to 90 °F) | 80 % or less |

♠ CAUTION

• If the indoor unit is installed in an IT room (for example. computer room), a separate back-up system must be installed. and the reliability of our product cannot be guaranteed under conditions of -40 °C (-40 °F) or less.

- 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
- 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.



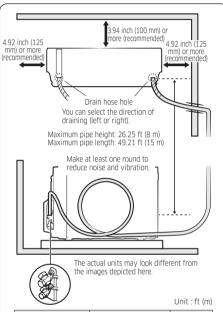
CAUTION

- 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



| Model | Pipe | Pipe length | | |
|-------------|----------|-------------|------------|--|
| Model | Minimum | Maximum | Maximum | |
| AC012MNADCH | 9.84 (3) | 65.62 (20) | 49.21 (15) | |
| AC018MNADCH | 9.84 (3) | 98.43 (30) | 65.62 (20) | |
| ACO24MNADCH | 9.84 (3) | 164.04 (50) | 98.43 (30) | |

Outdoor Unit Outer wall Indoor Unit Cut insulation to have

rainwater drained

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) |
| | 080 888 |
| Remote control battery (2) | User Manual (1) |
| | |
| Installation Manual (1) | Cap screw (3) |
| | |
| Remote Control Holder (1) | M4 x 16 Tapped Screws (2) |
| | <i>₹mmm</i> } |
| Guide Left(1) | Guide Right(1) |
| | \$ |

AC***MNTDCH

| Installation plate (1) **030/036** | Remote control (1) |
|---------------------------------------|---------------------------|
| | 080 |
| Remote control battery (2) | User Manual (1) |
| | |
| Installation Manual (1) | Remote Control Holder (1) |
| | |
| M4 x 16 Tapped Screws (2) | |
| ∢mmm) | |

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

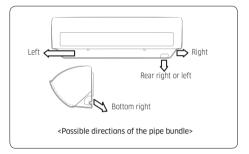
Tools for test operation

- Thermometer
- Resistance meter
- Electroscope

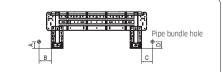
Step 1.3 Drilling a hole through the wall

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.



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.



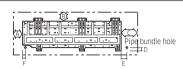
<Minimum distances between the hole and the installation plate>

Unit: inch (mm)

| Model | А | В | С | 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>

| | | | | | | (|
|-----------------------|-------|------|-------|--------|--------|--------|
| Model | Α | В | С | D | Е | F |
| A COOO (OOCH ANTERCIA | 6.14 | 2.64 | 14.33 | 1.36 | 2.54 | 0.77 |
| AC030/036MNTDCH | (156) | (67) | (364) | (34.5) | (64.5) | (19.5) |

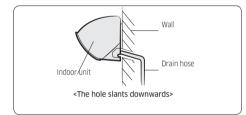
Pipe bundle hole: Ø 2.56 inch (65 mm)

Unit · inch /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.

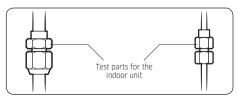


Step 1.4 Performing leak test

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.



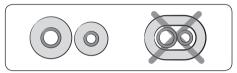
♠ CAUTION

 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.

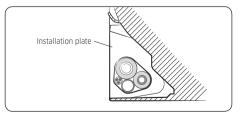
1 To avoid condensation problems, place heat-resistant poly-ethylene foam separately around each refrigerant pipe in the lower part of the indoor unit.



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).

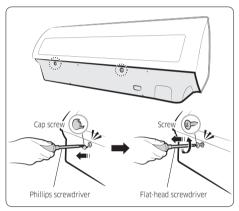


Please scan this QR code for detail video of indoor unit installation.

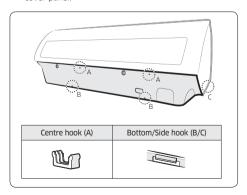
(This QR code only for AC***MNADCH)

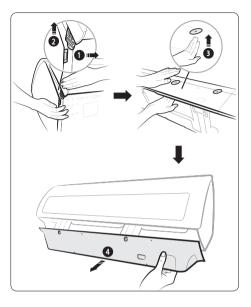
Step 2.1 Disassembling the cover panel (Only for AC***MNADCH)

1 Remove the cap screws, then the screws.

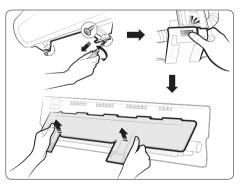


2 Unlock the side hooks (1), (2), then centre hooks (3). Then unlock the bottom hooks (4) to pull out the cover panel.

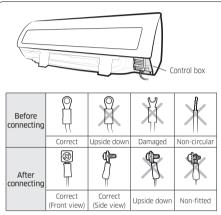




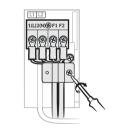
Step 2.2 Disassembling the installation plate



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



<Circular terminal>



Fasten the screws for the wire holders.

| Model | AC012MNADCH AC018MNADCH AC024MNADCH AC030MNTDCH AC036MNTDCH |
|-------------------------------|---|
| Power cable (Outdoor unit) | 3G X 0.0023 inch² (1.5 mm²), H07RN-F |
| Outdoor-to-indoor power cable | 3G X 0.0016 inch² (1.0 mm²), H07RN-F |
| Communication cable | 2 X 0.0012 inch² (0.75 mm²), H05RN-F |
| Type GL | 16A |

- 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 kaf•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

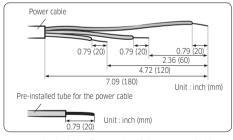
Prepare the following tools.

| 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) | |

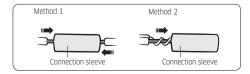
- 2 As shown in the figure, peel off the shields from the rubber and wire of the power cable.
 - Peel off 0.79 inch (20 mm) of cable shields from the pre-installed tube.

♠ CAUTION

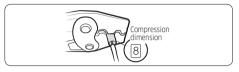
- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the preinstalled tube, insert a contraction tube.



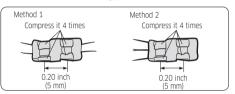
- **3** Insert both sides of core wire of the power cable into the connection sleeve.
 - Method 1: Push the core wire into the sleeve from both sides.
 - Method 2: Twist the wire cores together and push it into the sleeve



- 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).

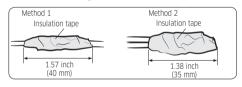


 After compressing it, pull both sides of the wire to make sure it is firmly pressed.

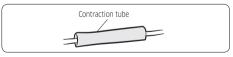


5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

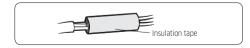
Three or more layers of insulation are required.



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

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

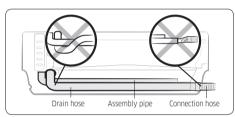
⚠ WARNING

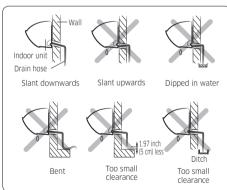
- In case of extending the electric wire, please DO NOT use a round-shaped pressing socket.
 - Incomplete wire connections can cause electric shock or a fire.



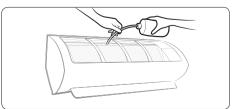
Step 2.5 Installing and connecting the drain hose

1 Install the drain hose





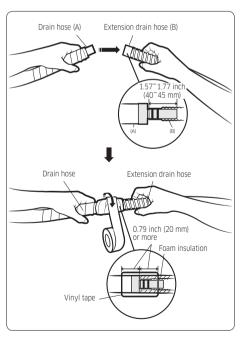
2 Pour water into the drain pan. Check whether the hose is well drained.



CAUTION

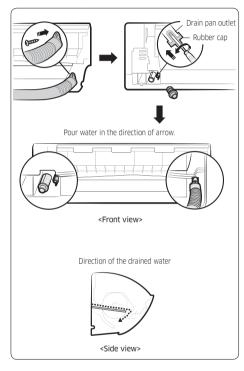
- Make sure that the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.
- Inadequate installation may cause 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

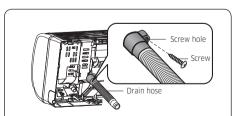
AC***MNADCH



AC***MNTDCH

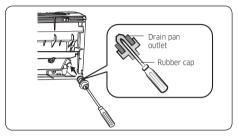
Change the direction only when it is necessary.

1 Detach the rubber cap with the flyer.

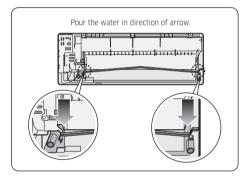


2 Detach the drain hose by pulling it and turning to the left.

3 Insert the drain hose by fixing it into the groove of the drain hose 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.



Direction of the drained water

⚠ 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.

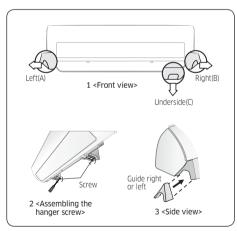
Step 2.8 Installing and connecting the assembly pipes to the refrigerant pipes (assembly pipe)

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:



- 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 [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 |

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.

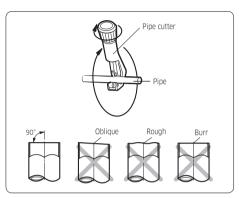
NOTE

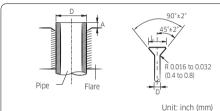
 The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test.

CAUTION

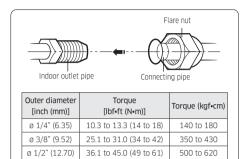
- Tighten the flare nut with a torque wrench according to specified method. If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- Do not box in or cover the pipe connection. All refrigerant pipe connection must be easily accessible and serviceable

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





| 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) |



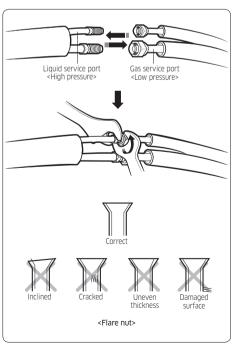
50.2 to 60.5 (68 to 82)

690 to 830

⚠ CAUTION

ø 5/8" (15.88)

- 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.



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

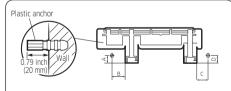
You can install the indoor unit on a wall, window frame, or gypsum board.

⚠ 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

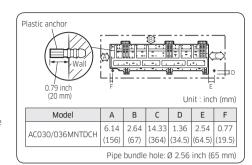
Fix the installation plate to the wall giving attention to the weight of the indoor unit.



Unit: inch (mm)

| Model | Α | В | С | 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)



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.
- 2 Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
- **3** Attach the installation plate to the wooden upright using tapping screws.

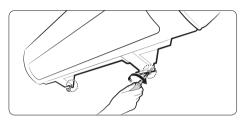
When fixing the indoor unit on a gypsum board

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

⚠ CAUTION

- 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 Imead 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

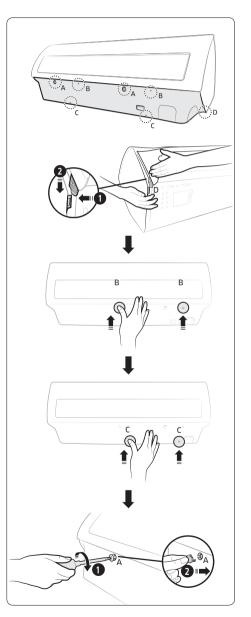


∴ CAUTION

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

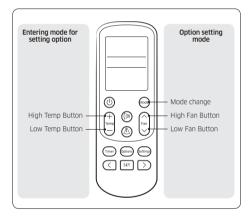
Step 2.12 Assembling the cover panel (Only for AC***MNADCH)

- 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).



- 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.

Common steps for setting the addresses and options



NOTE

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

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

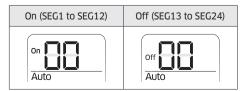


2 Set the option values.

⚠ 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

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



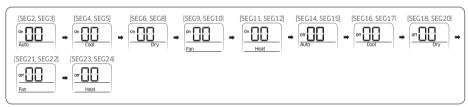
Take the steps presented in the following table:

| | Option setting | Status |
|---|---|--------------------------|
| 2 | Setting SEG2, SEG3 option Press Low Fan button to enter SEG2 value. Press High Fan button to enter SEG3 value. Each time you press the button, $8 + 3 + \cdots + E + E$ will be selected in rotation. Setting Cool mode | on and auto SEG2 SEG3 |
| | Press Mode button to be changed to Cool mode in the ON status. | Cool |
| 3 | Setting SEG4, SEG5 option Press Low Fan button to enter SEG4 value. Press High Fan button to enter SEG5 value. Each time you press the button, 0 → 1 → E → F will be selected in rotation. | On Cool Cool SEG4 SEG5 |
| 4 | Setting Dry mode Press Mode button to be changed to DRY mode in the ON status. | On Dry |
| 5 | Setting SEG6, SEG8 option Press Low Fan button to enter SEG6 value. Press High Fan button to enter SEG8 value. Each time you press the button, $3 + 3 + \cdots + 8$ will be selected in rotation. | On Dry On Dry SEG6 SEG8 |
| 6 | Setting Fan mode Press Mode button to be changed to FAN mode in the ON status. | on Fan |
| 7 | Setting SEG9, SEG10 option Press Low Fan button to enter SEG9 value. Press High Fan button to enter SEG10 value. Each time you press the button, 0 • 1 • ··· E • F will be selected in rotation. | on on Fan Fan SEG9 SEG10 |
| 8 | Setting Heat mode Press Mode button to be changed to HEAT mode in the ON status. | on Heat |

| | Option setting | Status |
|----|--|-------------------------------------|
| 9 | Setting SEG11, SEG12 option Press Low Fan button to enter SEG11 value. Press High Fan button for to enter SEG12 value. Each time you press the button, 13 + 11 + E + F will be selected in rotation. | On Heat Heat Heat SEG11 SEG12 |
| 10 | Setting Auto mode Press Mode button to be changed to AUTO mode in the OFF status. | orr Auto |
| | Setting SEG14, SEG15 option Press Low Fan button to enter SEG14 value. Press High Fan button to enter SEG15 value. Each time you press the button, ↑ ↑ ↑ ← ← F will be selected in rotation. | off Auto SEG14 SEG15 |
| 12 | Setting Cool mode Press Mode button to be changed to Cool mode in the OFF status. | off Cool |
| 13 | Setting SEG16, SEG17 option Press Low Fan button to enter SEG16 value. Press High Fan button to enter SEG17 value. Each time you press the button, $\Theta \bullet \Box \bullet \cdots E \bullet E$ will be selected in rotation. | off Cool SEG16 Off Cool SEG17 |
| 14 | Setting Dry mode Press Mode button to be changed to Dry mode in the OFF status. | Off Dry |
| 15 | Setting SEG18, SEG20 option Press Low Fan button to enter SEG18 value. Press High Fan button to enter SEG20 value. Each time you press the button, $3 - 11 - \cdots E - F$ will be selected in rotation. | Off Dry SEG18 Off Dry Dry SEG20 |
| 16 | Setting Fan mode Press Mode button to be changed to Fan mode in the OFF status. | off Fan |

| Option setting | Status |
|--|---|
| 17 Setting SEG21, SEG22 option Press Low Fan button to enter SEG21 value. Press High Fan button to enter SEG22 value. Each time you press the button, □ → □ → □ ← F will be selected in rotation. | off |
| 18 Setting Heat mode Press Mode button to be changed to HEAT mode in the OFF status. | off Heat |
| 19 Setting SEG23, SEG24 option Press Low Fan button to enter SEG23 value. Press High Fan button to enter SEG24 value. Each time you press the button, □ • □ • · · · E • E will be selected in rotation. | off Heat Heat SEG23 SEG24 |

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
- 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.

Emergency Temperature Output (ETO) function

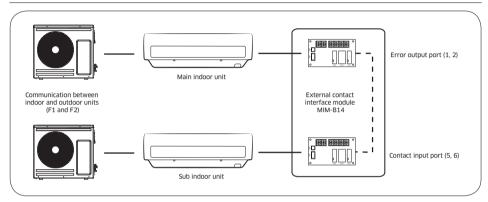


CAUTION

- In order to deploy the ETO function, the MIM-B14, an external contact interface module, must be installed in each indoor unit.
- The ETO is a concept of emergency operation of indoor units. If the indoor unit 1 (main indoor unit) stops because of an error, the indoor unit 2 (sub indoor unit) starts to operate.

- Basically, the indoor unit 2 operates in the previous mode. [For the first time operation, it starts in 24 °C (75 °F) Auto mode.]
- To set more detailed operation conditions for the indoor unit 2, use the S-net Pro.

Setting up the ETO

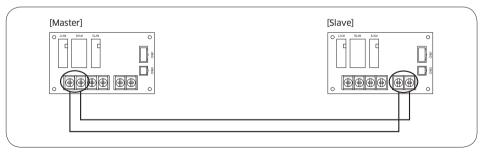


1 Main indoor unit

- Disable the external contact control (Default).
- Connect the S-net pro2 to F1 and F2.
- Enable the ETO function and set the temperature and time.

2 Sub indoor unit

- (Required) Enable the external contact control (with the installation option SEG14 Reverse Control).
- Connect the S-net pro2 to F1 and F2.
- Enable the entrance control and set the mode, set temperature, and fan speed.



ETO operation specifications

1 Main indoor unit

- Based on the external contact control settings, the main indoor unit decides whether to generate output when an
 error (indoor unit stop) occurs.
- Based on the ETO settings, the main indoor unit decides whether to generate output according to the temperature and time conditions.

2 Sub indoor unit

 Based on the entrance control settings, the sub indoor unit decides the mode, set temperature, and fan speed when contact inputs are given.

| | Enable of ETO | Enable of external contact | Error port output | | | |
|------------------|---------------|----------------------------|---|--|--|--|
| | X | X | N/A | | | |
| | X | 0 | Output due to an error | | | |
| Main indoor unit | 0 | Х | Output by ETO entrance conditions (temperature / time / error occurrence) | | | |
| | 0 | 0 | Output by ETO entrance conditions (temperature / time / error occurrence) | | | |
| | | | ★ Ready to control the main contact input | | | |

| | Enable of entrance control | Enable of external contact | Operation when outputting Main |
|-----------------|-------------------------------|----------------------------|---|
| Sub indoor unit | Х | Х | N/A |
| | X | 0 | On with the previous operation conditions |
| | 0 | 0 | On with the entrance control enabled |

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 indiciated, the initial setting will be maintained.

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

| Option | SE | G1 | SEG2 | | | SEG3 | SEG4 | SEG5 | SE | G6 |
|---------------------------|------------|---------|------------|---------|------------|------------------------------|------------|----------|-------------------------------------|----------------------|
| Explanation | PA | GE | МО | DE | Setting | Main address | | | The unit digit of an indoor unit | |
| | Indication | Details | Indication | Details | Indication | Details | | | Indication | Details |
| Indication and Details | 0 | | А | | 0 | No Main address | RESERVED . | RESERVED | 0~3(ACN*) | Details |
| and Details | | | | | 1 | Main address setting mode | | | 0~4 (AJN*) | A single digit |

| Option | SE | G7 | SEG8 | SEG9 | | SEG9 SEG10 SEG11 | | 511 | SEG12 | |
|------------------------|------------|---------|----------|---------------------|-----------------------------|------------------|-----------------------|---------|---------------|---------|
| Explanation | PAGE | | | Setting RMC address | | | Group channel(*16) | | Group address | |
| | Indication | Details | DECEDVED | Indication | Details | DECED (ED | Indication | Details | Indication | Details |
| Indication and Details | | | RESERVED | 0 | No RMC address | RESERVED | RMC1 0~2 | RMC2 | 0~F | |
| | | | | 1 | RMC address setting mode | | RMC1 | 0 2 | RIVIC2 | UF |

^{*}SEG6: AJN** models should check maximum installation indoor unit number of outdoor unit. (Indoor1: 0, Indoor2: 1, $\tilde{}$)



- 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 | А | 1 | - | - | 3 |
| SEG7 | SEG8 | SEG9 | SEG10 | SEG11 | SEG12 |
| 1 | - | 1 | - | 1 | В |

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 indiciated, the initial setting will be maintained.

4 Set the indoor unit option by wireless remote controller.

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

| Option | SEC | 51 | | SEG2 | | SI | EG3 | SE | :G4 | S | EG5 | SE | SEG6 | |
|------------------------|--------------------|---------|------------|------------------|--------------------|-------------|-------------|------------|------------------------|--------------------|---------------|------------|----------|--|
| Explanation | PAC | ΪE | | MODE | | | | | external ure sensor | Use of ce | ntral control | | | |
| | Indication | Details | Indication | Deta | ails | RESERVED . | | Indication | Details | Indication Details | | RESE | RESERVED | |
| Indication and details | | | 2 | | | l INES | LIVED | 0 | Disuse | 0 Disuse 1 Use | | NESERVED | | |
| | 0 | | | 2 | | | | | Use | | | | | |
| Option | SEG7 | | | SEG8 | | SI | EG9 | SE | G10 | SE | G11 | SE | G12 | |
| Explanation | PAC | ĴΕ | Use | of drain pu | mp | | | | | | | Group | address | |
| | Indication | Details | Indication | Deta | ails | | | | | | | Indication | Details | |
| | | | 0 | Dist | Jse | | | | | | | 0 | slave | |
| Indication and | | | 1 | Us | se . | RES | RESERVED | | RESERVED | | ERVED | 1 | master | |
| details | 1 | | | | | | | | | | | | | |
| | | | 2 | Use + 3mir | nute delay | | | | | | | | | |
| Option | SEG | 13 | | SEG14 | | SEG15 SEG16 | | G16 | SE | G17 | SFO | G18 | | |
| | | | | | | - | the output | | | | | 52 | | |
| Explanation | on PAGE | | Use of | external o | ontrol | _ | nal control | S-Plas | ma ion | Buzze | r control | | | |
| | Indication Details | | Indication | Details | | Indication | Details | Indication | Details | Indication | Details | | | |
| | | | 0 | Disuse | | | | | | | | | | |
| | | | 1 | On/Off | Slave, Existing | | | | Disuse | | | | | |
| | | | 2 | Off | Control | | | | | | | | | |
| | | | 3 | Window | | 0 | Thermo | 0 | | 0 | Use | | | |
| | | | 4 5 | Disuse On/Off | Master, | | OII | | | | | | | |
| | | | 6 | On/Off Off | Existing | | | | | | | DECE | RVED | |
| Indication and | | | 7 | Window | COILLO | | | | | | | KESE | .RVED | |
| details | 2 | | 8 | Disuse | | | | | | | | - | | |
| | | | 9 | On/Off | Slave, | | | | | | | | | |
| | | | А | Off | Reverse Control | | | | | | | | | |
| | | | В | Window | | | Operation | | | 4 | Discoss | | | |
| | | | С | Disuse | | 1 | on | 1 | Use | 1 | Disuse | | | |
| | | | D | On/Off | Master, Reverse | | | | | | | | | |
| | | | E | Off | Control | | | | | | | | | |
| | | | F | Window | | | | | | | | | | |

| Option | SEG19 | | | SEG20 | SE | :G21 | SEG22 | SEG23 | SEG24 | |
|------------------------|--------------|---------|---|-----------|------------------------------|-------------|----------|----------|----------|--|
| Explanation | anation PAGE | | Individual control of a remote controller | | Heating setting compensation | | | | | |
| | Indication | Details | Indication | Details | Indication | Details | | | | |
| | | | 0 or 1 | Indoor 1 | | Disuse | RESERVED | RESERVED | RESERVED | |
| Indication and details | | | | Indoor 2 | 0 | | | | | |
| details | 3 | | 3 | Indoor 3 | | | | | | |
| | | | | Indoor 4 | 1 | 2°C (3.6°F) | | | | |
| | | | 4 | 1110001 4 | 2 | 5°C (9°F) | | | | |

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 | | SE | 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 | | |
| 11:4: | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | |
| Indication and 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.

| Abnormal condition | | <u>LED Display</u> | | |
|---|--|--------------------|-----|-------|
| | | (1) | (4) | TURBO |
| Error on indoor temperature sensor (Short or Open) | E121 | × | • | × |
| Error on Eva-in sensor (Short or Open) Error on Eva-out sensor (Short or Open) Discharge sensor error (Short or Open) | E122 E123 E126 | • | • | × |
| Indoor fan error | E154 | × | × | • |
| Error on outdoor temperature sensor (Short or Open) Error on cond sensor 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 miniute 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 | • | • | • |

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

SAMSUNG

QUESTIONS OR COMMENTS?

| | | 1 | | |
|---|--|--|--|--|
| COUNTRY | CALL | OR VISIT US ONLINE AT | | |
| U.S.A - Consumer Electronics - Mobile Phones | 1-800-SAMSUNG (726-7864) 1-844-SAM-PAYS (726-7297) | www.samsung.com/us/support | | |
| CANADA | 1-800-SAMSUNG(726-7864) 1-844-SAM-PAYS (726-7297) | www.samsung.com/ca/support (English) www.samsung.com/ca_fr/support (French) | | |
| MEXICO | 01-800-SAMSUNG(726-7864) | www.samsung.com/mx/support | | |
| BRAZIL | 0800-124-421 (Demais cidades e regiões) 4004-0000 (Capitais e grandes centros) | www.samsung.com/br/support | | |
| COSTA RICA | 00-800-1-SAMSUNG (726-7864) | | | |
| DOMINICAN REPUBLIC | 1-809-200-7264 | | | |
| ECUADOR | 1-800-SAMSUNG (72-6786) | | | |
| EL SALVADOR | 8000-SAMSUNG (726-7864) | www.samsung.com/latin/support (Spanish) www.samsung.com/latin en/support (English) | | |
| GUATEMALA | 1-800-299-0033 | | | |
| HONDURAS | 800-2791-9111 | | | |
| JAMAICA | 1-800-SAMSUNG (726-7864) | www.samsung.com/latin_en/support (English) | | |
| NICARAGUA | 001-800-5077267 | | | |
| PANAMA | 800-0101 | | | |
| PUERTO RICO | 1-800-682-3180 | | | |
| TRINIDAD & TOBAGO | 1-800-SAMSUNG(726-7864) | | | |
| VENEZUELA | 0-800-SAMSUNG (726-7864) | | | |
| COLOMBIA | Bogotá en el 600 12 72 Sin costo en todo el pais 01 8000 112 112 Y desde tu celular #726 | www.samsung.com/co/support | | |
| CHILE | 800-SAMSUNG(726-7864) [HHP] 2-2482 8200 | www.samsung.com/cl/support | | |
| BOLIVIA | 800-10-7260 | www.samsung.com/cl/support | | |
| PERU | 080077708 Desde teléfonos fijos, públicos o celulares | www.samsung.com/pe/support | | |
| ARGENTINA | 0800-555-SAMS(7267) | www.samsung.com/ar | | |
| URUGUAY | 0800-SAMS(7267) | www.samsung.com/uy | | |
| PARAGUAY | 0800-11-SAMS(7267) | www.samsung.com/py | | |

