



Console Type Series

Floor : AM\*\*\*\*NJD\*

# Air Conditioner user manual

imagine the possibilities

Thank you for purchasing this Samsung product.



DB68-03877A-12

**SAMSUNG**

# Features of your new air conditioner

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## **Slim & Smart Design**

Extremely slim and compact design will allow this air conditioner to fit in any kind of interior space.

## **Ionizer function**

**Ionizer** function generates hydrogen(H) and oxygen(O<sub>2</sub>) to attack undesirable air contaminants such as bacteria, pollen, and odor. It makes you breathe better as if you were staying around waterfalls, ocean surf, rivers and mountains.

## **2Way air outlet**

There are two separate air outlets for cooling and heating. Having warmer air coming out from the bottom part of the air outlet will spread the warm air evenly throughout the room. Stay cooler and warmer in every corner of your room.

## **Cost Efficient System**

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

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

**(Applicable in countries with separate collection systems)**

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

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








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

# Safety precautions

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


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

## Important safety symbols and precautions:

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

## FOR INSTALLATION

### **WARNING**

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

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

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

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

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

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

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

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

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

- ▶ This may result in electric shock or fire.

**Never install the outdoor unit in a location such as on a high external wall where it could fall.**

- ▶ If the outdoor unit falls, it may result in injury, death or property damage.

**⚡ This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**

- ▶ Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.
- ▶ Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

# Safety precautions

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## FOR INSTALLATION



**❗ Install your appliance on a level and hard floor that can support its weight.**

- ▶ Failing to do so may result in abnormal vibrations, noise, or problems with the product.

**Install the draining hose properly so that water is drained correctly.**

- ▶ Failing to do so may result in water overflowing and property damage.

**When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.**

- ▶ The water generated during the heating operation by the outdoor unit may overflow and result in property damage.  
In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

## FOR POWER SUPPLY



**❗ When the circuit breaker is damaged, contact your nearest service center.**

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

- ▶ This may result in electric shock or fire.

## FOR POWER SUPPLY



**⚡ When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**

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

**❗ If the appliance is flooded, please contact your nearest service center.**

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

**If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.**

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

**In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line.**

**Do not touch the appliance or power line.**

▶ Do not use a ventilating fan.

▶ A spark may result in an explosion or fire.

**To reinstall the air conditioner, please contact your nearest service center.**

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

▶ A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.

▶ Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

**⊘ Do not touch the circuit breaker with wet hands.**

▶ This may result in electric shock.

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

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

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

▶ This may result in children seriously injuring themselves.

# Safety precautions

## FOR USING



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

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

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

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

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

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

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

- ▶ This may result in electric shock or burns.

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

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

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

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

ⓘ **If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.**

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



## FOR USING

### WARNING

#### **Do not attempt to repair, disassemble, or modify the appliance yourself.**

- ▶ Do not use any fuse (such as copper, steel wire, etc.) other than the standard fuse.
- ▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

## FOR USING

### CAUTION

#### **Do not place objects or devices under the indoor unit.**

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

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

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

**Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.**

#### **Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**

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

**Do not operate the appliance with wet hands.**

- ▶ This may result in electric shock.

**Do not spray volatile material such as insecticide onto the surface of the appliance.**

- ▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

**Do not drink the water from the air conditioner.**

- ▶ The water may be harmful to humans.

# Safety precautions

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## FOR USING



- ⊘ **Do not apply a strong impact to the remote controller and do not disassemble the remote controller.**

**Do not touch the pipes connected with the product.**

► This may result in burns or injury.

**Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**

► This may result in property damage.

**Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.**

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

**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

## FOR CLEANING



### WARNING

- ⊘ **Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.**

▶ This may result in discoloration, deformation, damage, electric shock or fire.

**Before cleaning or performing maintenance, unplug the air conditioner from the wall socket and wait until the fan stops.**

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

## FOR CLEANING



### CAUTION

- ⓘ **Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**

▶ To avoid cutting your fingers, wear thick cotton gloves when cleaning it.

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

▶ For cleaning inside the appliance, contact your nearest service center.

▶ When cleaning the internal filter, refer to the descriptions in the 'Cleaning and maintaining the air conditioner' section.

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

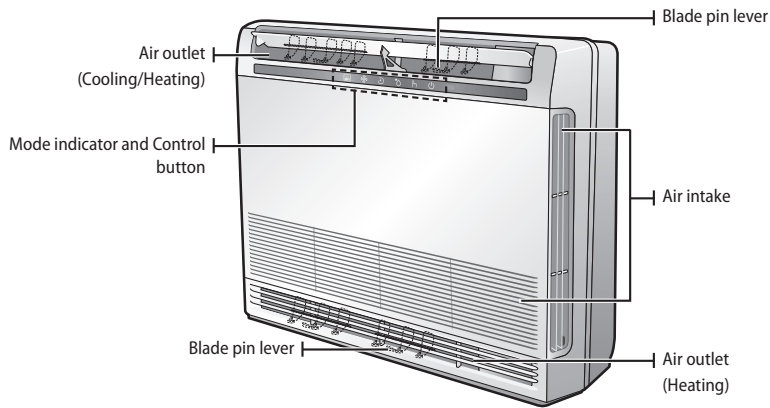
# Viewing your air conditioner before use

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.  
Please read the user manual to get started and to make the best use of the air conditioner.

## Checking the indoor unit

Carefully unpack your air conditioner, and check the unit to make sure it is not damaged.

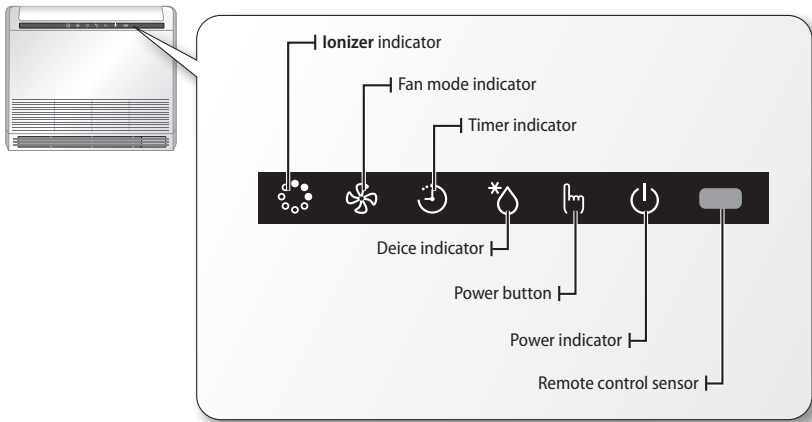
### Main parts



NOTE

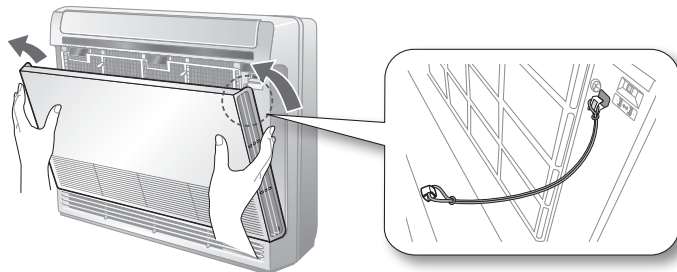
Your air conditioner may slightly look different from illustration shown above depending on your model.

### Mode indicator and Control button



## Removing the front panel

Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



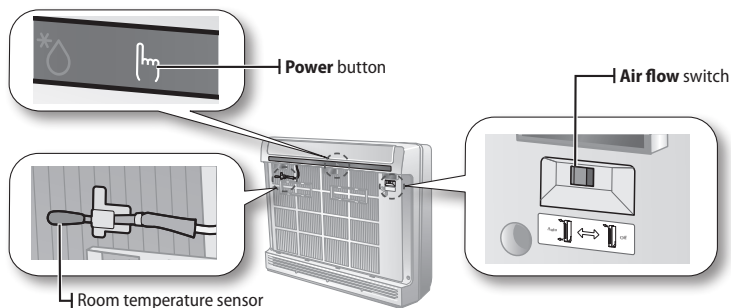
## Viewing the power button and parts under the panel

You may locate the **Power** button among with the mode indicators. When the front panel is open, you may locate the temperature sensor and the **Air flow** switch. Temperature sensor is located on the top left side of the air conditioner just above the anti-allergy/deodorizing filter slot and the **Air flow** switch is located on the top right corner of the air conditioner.

You can turn on the air conditioner in Auto mode by pressing the **Power** button.

When you set the **Air flow** switch on Auto, it will open the bottom air outlet in Cool, Heat and Fan modes. However, in Silence mode, the bottom air outlet will be closed. Also, in Cool mode, the bottom air outlet will be closed within an hour. When you set the **Air flow** switch on Off, the bottom air outlet will be closed.

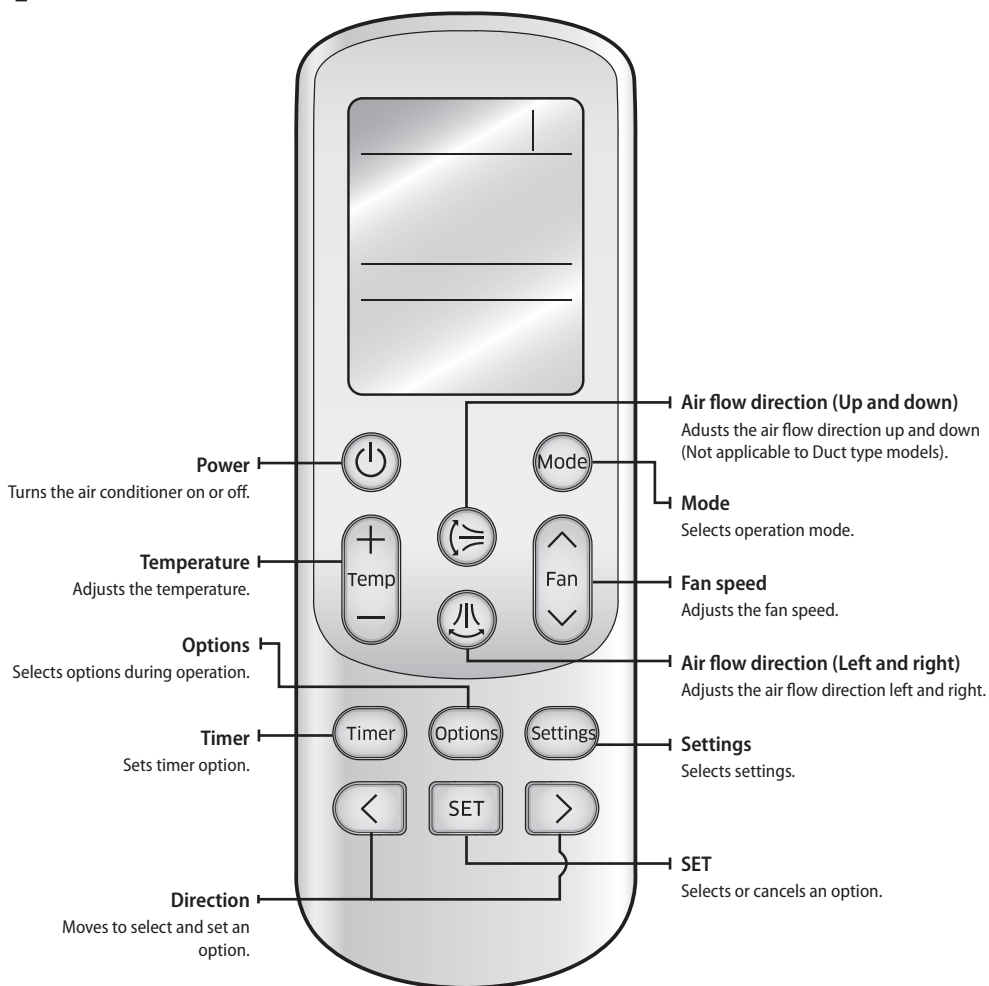
The room temperature sensor measures indoor room temperature.



# Using the remote controller

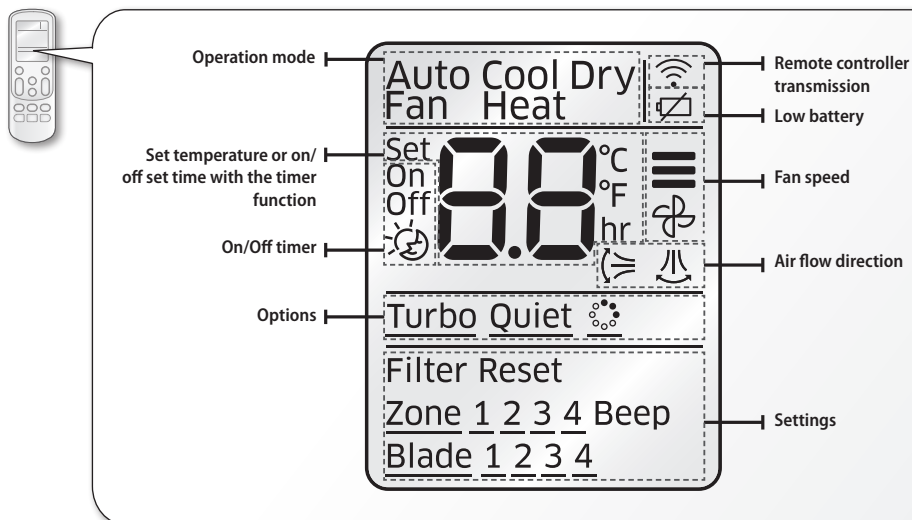
- Point the remote controller towards the remote controller receiver of the indoor unit.
- When you press the button on the remote controller correctly, you will hear beep sound from the indoor unit and a transmit indicator(📶) appears on the remote controller display.

## Remote controller buttons



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

## Remote controller display



NOTE

- When turning off and turning on the remote controller, the Timer, Options and Settings set before turning off the remote controller are cancelled. However, the fan direction does not change.

## Battery changing time

When the battery is exhausted, (🔋) will be displayed on the remote controller display. When the icon appears, change the batteries.

The remote controller requires two 1.5V AAA type batteries.


## Storing the remote controller

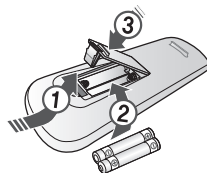
When you do not use the remote controller for a long time, remove the batteries from the remote controller and store it in the remote controller holder.



# Using the remote controller

## Inserting the batteries

1. Open the battery cover of the remote controller.  
Press the (  ) part gently and lift it up in the arrow direction.
2. Insert the batteries.  
Check and match the (+) and (-) signs accordingly.
3. Close the battery cover.  
Match the cover and bottom part of the remote controller and press it until you hear click sound.



**Make sure that water is not allowed to enter the remote controller.**



- There is a possibility that the air conditioner will not operate by remote controller near strong light such as a fluorescent lamp or neon sign. In this case, use the remote controller in front of the remote controller receiver of the indoor unit.
- If other electrical products are operated by the remote controller, call your nearest service center.
- Filter reset : When the filter reset indicator is turned on the indoor unit display, clean the filter and press the **Settings** → <, > or **Settings** → (Filter Reset) blinking → **SET** button.
- Beep off : To silence the beep sound, press the **Settings** → <, > or **Settings** → (Beep) blinking → **SET** button. If you press the **Settings** → <, > or **Settings** → (Beep) blinking → **SET** button again, the beep sound will ring again.



### ***Correct disposal of batteries in this product***

#### ***(Applicable in countries with separate collection systems)***

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

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



# Basic operation

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

## 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

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

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 the fall and winter.

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




NOTE

- When the outdoor temperature is low and humidity is high during the 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 ~ 12 minutes. During the defrost operation, the indoor unit does not generate breeze in order to prevent cold breeze blowing out.
  - \* The interval between the defrost operation can decrease depending on the amount of the frost formed on the outdoor unit.
  - \* The interval between defrost operation can also decrease by humidity level with rain or snow.

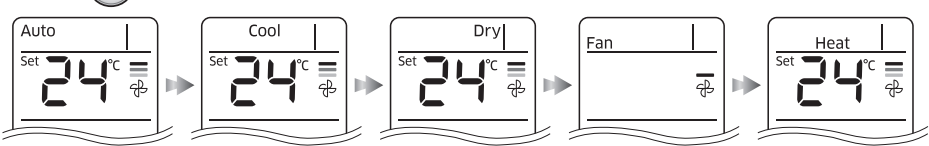
# Using the remote controller

## Turning the air conditioner on


Press the  button to operate the air conditioner.

## Selecting the operation mode

Press the  button to select an operation mode.

















## Adjusting the temperature

Press the  button to adjust the temperature.

Auto	Temperature can be adjusted by 1 °C(1 °F) within the range of 18 °C(65 °F)~30 °C(86 °F).
Cool	Temperature can be adjusted by 1 °C(1 °F) within the range of 18 °C(65 °F)~30 °C(86 °F).
Dry	Temperature can be adjusted by 1 °C(1 °F) within the range of 18 °C(65 °F)~30 °C(86 °F).
Fan	Temperature cannot be adjusted.
Heat	Temperature can be adjusted by 1 °C(1 °F) within the range of 16 °C(61 °F) ~30 °C(86 °F).



## Selecting the fan speed

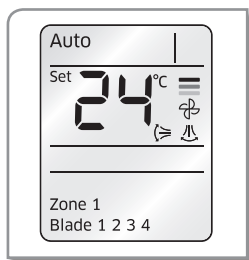
Press the  button to adjust the fan speed.

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



## Selecting air flow direction

This function allows you to shift the air flow direction up and down or left and right.


**Press the  or  button to move the air flow direction up and down or left and right while the air conditioner is turned on.**



Remote controller display

► When the blade reaches the desired position, press the  or  button one more time to set the air flow direction. The up/down and left/right tilting of the blade will stop.

\* Duct type model cannot adjust air flow direction up and down.

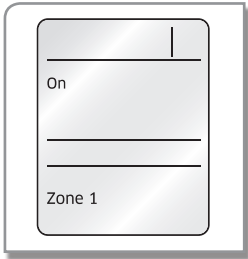
\*  button not available on RAC.

# Setting the On/Off timer

You can set the air conditioner to be turned on or off automatically at desired time.


## Setting the On timer



When the air conditioner is turned off.




Remote controller display

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

**Cancel** ▶ Press the **Timer** button → select (On) → press the < or > button → set the timer to  → press the **SET** button.

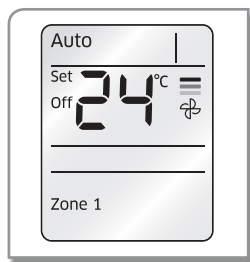
Additional options available in On timer	
	Select the mode from (Auto) → (Cool) → (Dry) → (Fan) and → (Heat).
	You can adjust the temperature after timer setting is completed. Temperature adjustment is only available in Auto/Cool/Dry/Heat mode. In Fan mode, temperature cannot be adjusted.

 **NOTE**

- When On timer setting is completed, the set status will be displayed for 3 seconds, and then only (On) indicator will remain on the remote controller display thereafter.

## Setting the Off timer

When the air conditioner is turned on



Remote controller display

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

**Cancel** ▶ Press the **Timer** button → select (Off) → press the < or > button → set the timer to 00 → press the **SET** button.

**NOTE** Only the latest setting timer 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
<p>When set time on On timer is shorter than Off timer e.g. On timer: 3 hours, Off timer: 5 hours</p> <ul style="list-style-type: none"> <li>The air conditioner will be turned on after 3 hours from the moment you have set the timer and the air conditioner will remain on for 2 hours and then be turned off automatically.</li> </ul>	<p>When set time on On timer is longer than Off timer e.g. On timer: 3 hours, Off timer: 1 hour</p> <ul style="list-style-type: none"> <li>The air conditioner will be turned off after 1 hour from the moment you have set the timer and will be turned on after 2 hours from the moment it was turned off.</li> </ul>




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

# Using the Purity function


Purity function will remove harmful materials in the air to provide you clean and healthy environment. You can select this function additionally while the air conditioner is in operation.

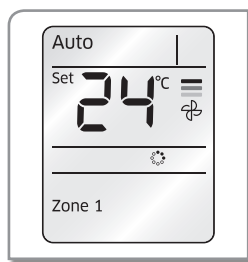
## When the air conditioner is turned on



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

Cancel

- Press the **Options** button → press the <, > or **Options** button to make the (  ) indicator blink and press the **SET** button.






Remote controller display




- You may select the purity function additionally during Auto/Cool/Dry/Heat mode and you can adjust the temperature.
- If the purity function is selected additionally in fan mode, the temperature cannot be adjusted.
- When the air conditioner and the purity function are turned on simultaneously and you press the Power button, both air conditioner and purity function will stop operation.
- You can still use the purity function when the On timer is set with the air conditioner is turned off.
- There will not be much difference on energy consumption and operating noise when the purity function is selected additionally while the air conditioner is turned on.

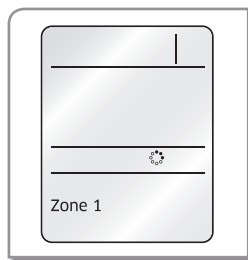
## When the air conditioner is turned off



1. Press the **Options** button.
2. Press the **SET** button when (  ) indicator blinks to begin purity function.
  - (  ) → (  ) indicator will be displayed on the remote controller display and Ionizer function will begin.

Cancel

- Press the **Options** button to make the (  ) indicator blink and press the **SET** button.



Remote controller display

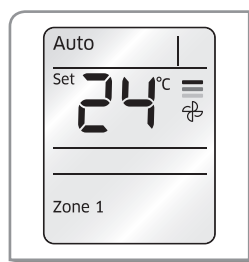
# Selecting an indoor unit

You can select and operate individual indoor units out of 4 indoor units.

**When the air conditioner is turned on**



1. Press the **Settings** button.
  2. Press the <, > or **Settings** button until (Zone) indicator starts to blink.
  3. Press the **SET** button to select the indoor unit you want to operate.
    - You can select individual units in order (1~4) or select all indoor units at one time.
- \* Before Selectiing an Indoor unit ,you need setting indoor zone .Reference installation manual 02 series installation option.



Remote controller display

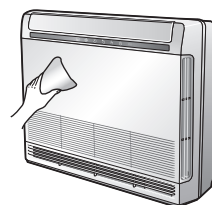
# Cleaning and maintaining the air conditioner

## Cleaning the exterior

Wipe the surface of the unit with a slightly wet or dry cloth when needed.



Do not use Benzene, Thinner or Clorox™. They may damage the surface of the air conditioner and can create a risk of fire.



# Cleaning and maintaining the air conditioner

## Cleaning the filter

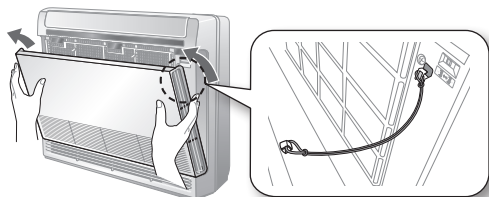
When cleaning the filter, make sure to unplug the power from the unit. No special tools are needed to clean it.

### Air filter

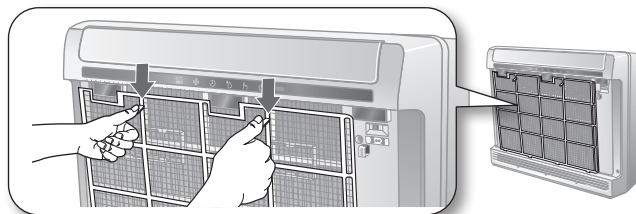
Washable air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing. Filter clean indicator will light up when air filter need to be cleaned.

1. Open the front panel.

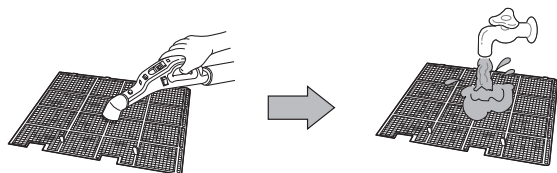
Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



2. Grab the handle and slightly press the air filter down to bend the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.



3. Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, then rinse it with running water and dry it in a ventilated area.



NOTE

- For the best conditions, repeat every two weeks.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.

4. Insert the Air filter back in its original position.
5. Close the front panel.  
Grab the side of the front panel and place the bottom first, then push the panel.

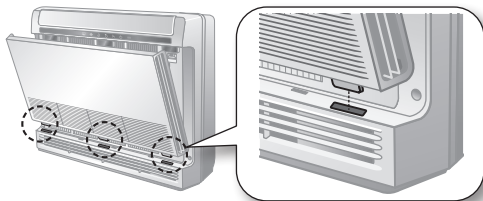


## Anti-allergy filter

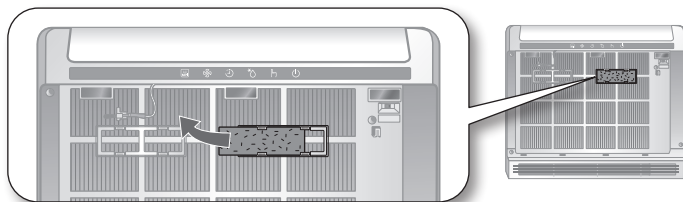
Washable Anti-allergy filter leads to reduction in allergens that thrive in polluted air. The filter is cleaned with a vacuum or by hand washing.

1. Open the front panel.

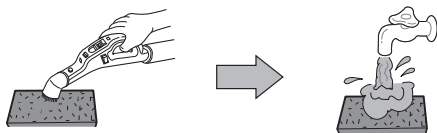
Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



2. Grab the handle and slightly press the air filter down to bent the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.
3. Pull and slide out the Anti-allergy filter.



4. Clean the Anti-allergy filter with a vacuum cleaner or soft brush. Then rinse it with running water and dry it in a ventilated area.



5. Install the Anti-allergy filter back in position.
6. Close the front panel.

Grab the side of the front panel and place the bottom first, then push the panel.



NOTE

Clean the Anti-allergy filter every 3 months. The cleaning term may differ on usage and environmental conditions.

# Cleaning and maintaining the air conditioner

## Replacing the filter

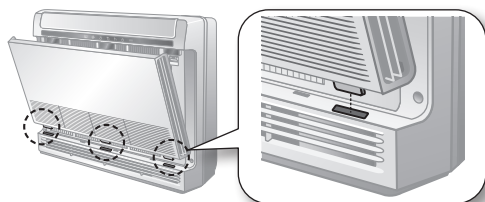
Replacement filter may be purchased from the retail store or ordered from the dealer where you purchased the unit. If you cannot find one, please call a contact center.

## Deodorizing filter

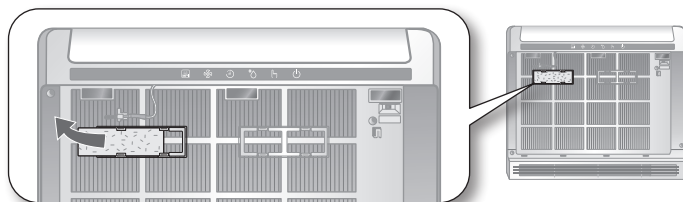
Deodorizing filter absorbs efficiently cigarette smoke, pet odors and other unpleasant smells. Deodorizing filter cleaning is simple, just remove old filter and install a new one.

1. Open the front panel.

Grab the top portion of the front panel and pull the front cover towards yourself. Unhook the safety string and lift up the front panel.



2. Grab the handle and slightly press the air filter down to bent the air filter. Then, pull the Air filter towards you and lift it up to remove the Air filter.
3. Pull and slide out the Deodorizing filter.



4. Install the new Deodorizing filter back in position.

5. Close the front panel.

Grab the side of the front panel and place the bottom first, then push the panel.



NOTE

- The replacement timing of the Deodorizing filter differs depending on usage and environmental conditions.
- Even if Deodorizing and Anti-allergy filters are installed in an inverted position it will not significantly affect its filtration system.

## Maintaining your air conditioner

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

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

## Periodical checks

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

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



NOTE

This check mark requires checking the indoor/outdoor unit periodically, following to the description to maintain the air conditioner properly.

- The described operations should be performed more frequently if the area of installation is very dusty.



CAUTION

These operations must always be performed by qualified personnel.  
For more detailed information, see the Installation Manual.

# Cleaning and maintaining the air conditioner

## Internal protections via the unit control system

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

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



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

# Appendix

## Troubleshooting

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

PROBLEM	SOLUTION
The air conditioner does not operate immediately after it has been restarted.	<ul style="list-style-type: none"><li>Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading. The air conditioner will start in 3 minutes.</li></ul>
The air conditioner does not work at all.	<ul style="list-style-type: none"><li>Check that the power plug is properly connected. Insert the power plug into the wall socket correctly.</li><li>Check if the circuit breaker is switched off.</li><li>Check if there is a power failure.</li><li>Check your fuse. Make sure it is not blown out.</li></ul>
The temperature does not change.	<ul style="list-style-type: none"><li>Check if you selected Fan mode. Press the <b>Mode</b> button on the remote control to select another mode.</li></ul>
The cool(warm) air does not come out of the air conditioner.	<ul style="list-style-type: none"><li>Check if the set temperature is higher (lower) than the current temperature. Press the <b>Temperature</b> button on the remote control to change the set temperature. Press the <b>Temperature</b> <math>\triangle</math> or <math>\nabla</math> button to increase or decrease the temperature.</li><li>Check if the air filter is blocked by dirt. Clean the Air filter every two weeks.</li><li>Check if the air conditioner has just been turned on. If so, wait 3 minutes.</li></ul>
The fan speed does not change.	<ul style="list-style-type: none"><li>Check if you selected Auto or Dry mode. The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode.</li></ul>

## Appendix

PROBLEM	SOLUTION
Timer function does not set.	<ul style="list-style-type: none"><li>• Check if you press the <b>Set/Cancel</b> button on the remote control after you have set the time.</li></ul>
Odors permeate in the room during operation.	<ul style="list-style-type: none"><li>• Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room.</li></ul>
The air conditioner makes a bubbling sound.	<ul style="list-style-type: none"><li>• A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode.</li></ul>
Water is dripping from the air flow blades.	<ul style="list-style-type: none"><li>• Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature.</li></ul>
Remote control is not working.	<ul style="list-style-type: none"><li>• Check if your batteries are depleted.</li><li>• Make sure batteries are correctly installed.</li><li>• Make sure nothing is blocking your remote control sensor.</li><li>• Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.</li></ul>

## Operation ranges

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

MODE	OPERATIONAL TEMPERATURE		INDOOR HUMIDITY	IF OUT OF CONDITIONS
	INDOOR	OUTDOOR		
COOLING	18°C to 32°C	-5°C to 48°C	80% or less	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.
HEATING	27°C or less	-20°C to 28°C	-	Internal protection triggers and the air conditioner will stop.
DRYING	18°C to 32°C	-5°C to 48°C	-	Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor.



NOTE

The standardized temperature for heating is 7°C. If the outdoor temperature drops to 0°C or below, the heating capacity can be reduced depending on the temperature condition.

If the cooling operation is used at over 32°C(indoor temperature), it does not cool at its full capacity.

# Instruction for packing and unpacking the unit

## ► Packing the unit as below procedure

1. Assemble Cushion Left and Cushion Right to the both sides of indoor unit.
2. Open the Packing Case and Put the set into it.
3. Seal the Packing Case.

## ► Unpacking the unit as below procedure

1. Open the Packing Case and move the set.
2. Disassemble Cushion Left and Cushion Right from the both sides of indoor unit.

## Technical Specifications

MODEL		AM028FNJDEH/TK		AM036FNJDEH/TK	
CLIMATES CLASS		T1	T3	T1	T3
RATED VOLTAGE & FREQUENCY		220 - 240 V~ 50 Hz		220 - 240 V~ 50 Hz	
RATED CURRENT	COOLING	0.25 A	0.25 A	0.29 A	0.29 A
	HEATING (H1)	0.25 A		0.29 A	
RATED POWER INPUT	COOLING	30.00 W	30.00 W	35.00 W	35.00 W
	HEATING (H1)	30.00 W		35.00 W	
EER	COOLING	-	-	-	-
	HEATING (H1)	-		-	
NET WEIGHT		16 kg		16 kg	
DIMENSIONS OF THE UNIT [W×H×D]		720×620×199 mm		720×620×199 mm	
COUNTRY OF ORIGIN		MADE IN CHINA		MADE IN CHINA	

MODEL		AM056FNJDEH/TK		AM022KNJDEH/TK		AM045KNJDEH/TK	
CLIMATES CLASS		T1	T3	T1	T3	T1	T3
RATED VOLTAGE & FREQUENCY		220 - 240 V~ 50 Hz		220 - 240 V~ 50 Hz		220 - 240 V~ 50 Hz	
RATED CURRENT	COOLING	0.49 A	0.49 A	0.13 A	0.13 A	0.30 A	0.30 A
	HEATING (H1)	0.49 A		0.13 A		0.30 A	
RATED POWER INPUT	COOLING	62.00 W	62.00 W	16.00 W	16.00 W	36.00 W	36.00 W
	HEATING (H1)	62.00 W		16.00 W		36.00 W	
EER	COOLING	-	-	-	-	-	-
	HEATING (H1)	-		-		-	
NET WEIGHT		16 kg		15.5 kg		16 kg	
DIMENSIONS OF THE UNIT [W×H×D]		720×620×199 mm		720×620×199 mm		720×620×199 mm	
COUNTRY OF ORIGIN		MADE IN CHINA		MADE IN CHINA		MADE IN CHINA	





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