

# Air conditioner

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## User manual

Wireless remote control AR-KH03E

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



DB68-07979A-00

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

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.

# Safety Information

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This content is intended to protect the user's safety and prevent property damage. Please read it carefully for correct use of the product.

## WARNING

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

## CAUTION

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

-  Follow directions.
-  Do NOT attempt.
-  Make sure the machine is grounded to prevent electric shock.
-  Unplug the appliance.
-  Do NOT disassemble.

## FOR INSTALLATION

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### WARNING

-  The installation of this product must be performed by a qualified technician.
  - Failing to do so may result in electric shock, fire, product malfunction, explosion, or injury.
-  Do not install this product near a heater, or inflammable material. Do not install this product in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this product in a location where gas may leak.
  - Failing to do so may result in electric shock or fire.

### CAUTION

-  Install the product on a hard and level place that can support its weight.
  - If the place cannot support its weight, the product may fall down and it may cause product damage.

# Safety Information

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## FOR OPERATION

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### WARNING



If the product generates a strange noise, a burning smell or smoke, unplug the product immediately and contact your nearest service centre.

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



Do not attempt to repair, disassemble, or modify the product yourself.

- Failing to do so may result in electric shock, fire, product malfunction, or injury.



### CAUTION



Do not allow water to enter the product.

- Failing to do so may result in fire or explosion.



Do not operate the product with wet hands.

- Failing to do so may result in electric shock.

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

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

Do not give a strong impact to the product and do not disassemble the product.

After replacing remote control batteries, make sure to keep the old batteries out of reach of children.

- If your child has swallowed a battery, immediately contact a doctor for assistance.

When replacing batteries, exercise caution to ensure that your skin does not come into contact with battery liquid.

- Battery liquid is harmful to the human body.

Do not use this product for other purposes.

- This product is designed to be used only for a system air conditioner.

Do not press the buttons with any sharp objects.

- Failing to do so may result in electric shock or part damage.

Do not clean the product by spraying water directly onto it. Do not use benzene, thinner, alcohol or acetone to clean the product.

- Failing to do so may result in discoloration, deformation, damage, electric shock, or fire.

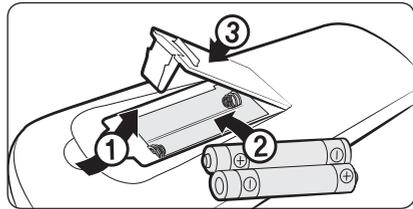
# Preparation

## Checking the package contents

Item	Wireless remote control	Battery (AAA1.5V)	M4 x L16 screw	Remote control holder	User manual
Quantity	1	2	2	1	1
Shape					

## Inserting batteries

- If the  (Low battery) indicator appears on the remote control display, replace the batteries with two new AAA 1.5V batteries.

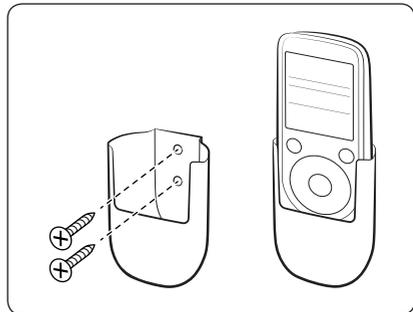


## Installing the remote control holder

- 1 Choose a location on the wall where to install the remote control holder.
- 2 Mark the two spots for fastening the two M4 x L16 screws. Then drill the two holes.
- 3 Fasten the screws through the holes to fix the remote control holder in place.

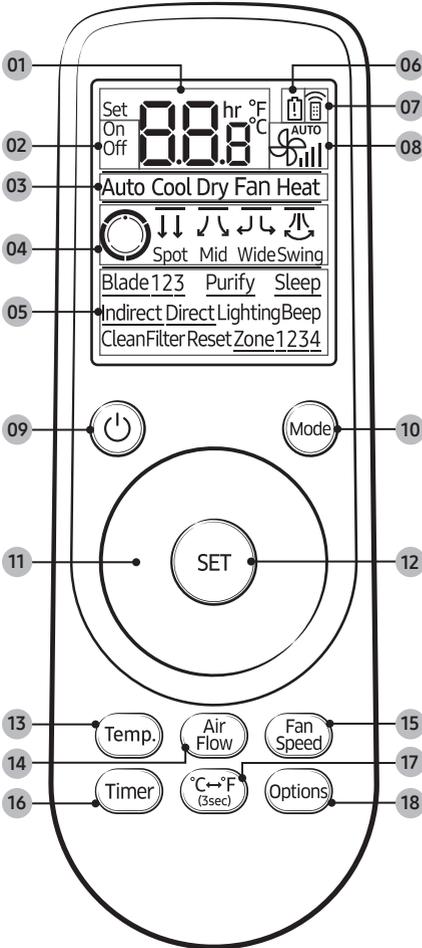
### NOTE

- Installation location requirements:
  - Avoid locations exposed to direct sunlight.
  - Avoid locations where the holder is covered by objects such as curtains.
  - Choose a location that is at least 1 m away from a TV or stereo system.
- If the remote control will not be used for an extended period of time remove the batteries and store them separately.



# Remote Control Overview

Some functions may not be available, depending on the indoor unit specifications.



01 Set temperature/Timer indicator

02 Timer option indicator

03 Operation mode indicator

04 Air flow direction indicator

05 Options indicator

06 Low battery indicator

07 Signal transmission indicator

08 Fan speed indicator

09 Power button

10 Mode button

**NOTE**

- For air conditioners that do not provide the heating function, **Heat** may appear on the remote control display when you press the **Mode** button, but heating is not available.

11 Wheel

**NOTE**

- You can control the set temperature, fan speed, and air flow direction by rotating the Wheel.

12 SET button

13 Temperature button

14 Air flow direction button

15 Fan speed button

16 Timer button

17 Temperature type button (°C ↔ °F)

18 Options button

**NOTE**

- To select a function, point the remote control to the remote control sensor on an indoor unit. Then select the function by using the Wheel or by pressing the **SET** button within 5 seconds.
- If you do not press another button within 7 seconds after pressing the **Timer** or **Options** button, these button functions are deselected.
- If you turn off and then turn on the remote control, the settings of the Timed on/off, Purify, and Sleep functions that you set previously are cancelled.

- If the indoor unit number (**Zone 1 to Zone 4**) that you select on the remote control display does not match the indoor unit (default: Indoor Unit 1) pointed by the remote control, the indoor unit will not operate.
- If you press a button on the remote control near a strong light such as a compact fluorescent lamp or neon sign, the air conditioner may not operate. In this case, move close to the indoor unit, and then operate the remote control.
- If other appliances respond to the remote control, contact a service centre.

# Remote Control Operation

You can use the air conditioner easily by selecting a function and then by controlling the temperature, fan speed, and air flow direction with the Wheel.



## Operation modes

You can change the current mode between Auto, Cool, Dry, Fan, and Heat by rotating the Wheel.

### NOTE

- You can also change the mode by pressing the  button.

## Controlling temperature

You can control the temperature in each mode as follows. Press the  button, and then rotate the Wheel to change the temperature.

Mode	Temperature control
Auto/Cool/Dry	You can adjust by 0.5°C (1°F) between 18°C (65°F) and 30°C (86°F).
Fan	You cannot control the temperature.
Heat	You can adjust by 0.5°C (1°F) between 16°C (61°F) and 30°C (86°F).

You can switch between Celsius and Fahrenheit indications on the remote control.

 ► Press and hold for 3 or more seconds.

### NOTE

- The temperature indications on the indoor unit are not switched.
- This function is canceled when the remote control batteries are replaced. In this case, run this function again.

# Remote Control Operation



## Controlling fan speed

You can select the following fan speeds in each mode:

Mode	Available fan speeds
Auto/Dry	🌀 <sup>AUTO</sup> (Auto)
Cool/Heat	🌀 <sup>AUTO</sup> (Auto), 🌀 <sub>I</sub> (Low), 🌀 <sub>II</sub> (Med), 🌀 <sub>III</sub> (High)
Fan	🌀 <sub>I</sub> (Low), 🌀 <sub>II</sub> (Med), 🌀 <sub>III</sub> (High)

### NOTE

- You can also change the fan speed by pressing the  button.

## Controlling air flow direction

You can select the following air flow directions:

Spot	Mid	Wide	Swing
⇕	⇕	⇕	↻

### NOTE

- You can also change the air flow direction by pressing the  button.
- The current air flow direction persists even if you change the current mode, or turn off and then turn on the remote control.
- For more information on how to control the air flow direction individually, see Controlling the air flow direction individually on page 14.

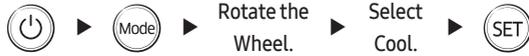
# Cooling Operation

The smart and powerful cooling functions of the Samsung air conditioner keep an enclosed space cool and comfortable.



## Cool mode

Use the Cool mode to stay cool in hot weather.

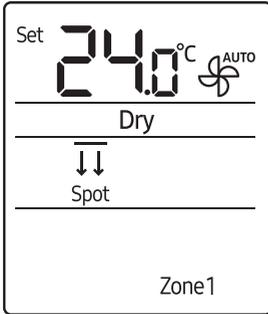


### NOTE

- You can also select the mode that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- For comfort, keep the temperature difference between the indoor and outdoor air within 5°C (9°F) in the Cool mode.
- To cool your room quickly, select a low temperature and a high fan speed.
- To save energy, select a high temperature and a low fan speed.
- As the indoor temperature approaches the set temperature, the compressor will operate at a low speed to save energy.

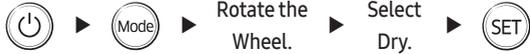
# Dehumidifying Operation

The dehumidifying function of the Samsung air conditioner keeps an enclosed space fresh and comfortable.



## Dry mode

Use the Dry mode in rainy or humid weather.

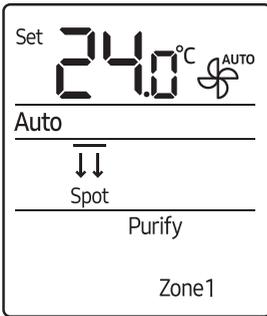


### NOTE

- You can also select the mode that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- You cannot change the fan speed in the Dry mode.
- The greater the difference between the set temperature and the current temperature is, the greater the amount of air that is dehumidified is.

# Air Purifying Operation

The air purification function of the Samsung air conditioner keeps the air in an enclosed space purified.



## Purify function

Use the Purify function to purify your room with negative ions produced by the air conditioner. This function is available in the Auto, Cool, Dry, Fan, and Heat modes.

In the Auto, Cool, Dry, Fan, or Heat mode



Select Purify.

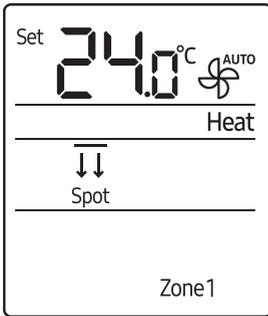


### NOTE

- You can also select the function that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- To cancel the Purify function, press   again.
- When the Purify function is additionally selected in the Fan mode, you cannot change the set temperature.
- When the Purify function is additionally selected while a specific mode is running, there is little difference in electricity consumption and operating noise.

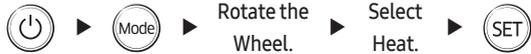
# Heating Operation

The heating functions of the Samsung air conditioner keep an enclosed space warm and comfortable.



## Heat mode

Use the Heat mode to stay warm.

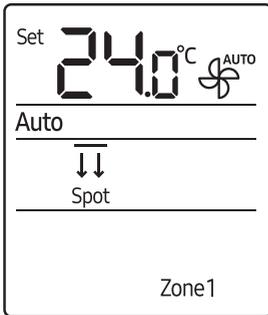


### NOTE

- You can also select the mode that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- While the air conditioner warms up, the fan may not operate for a while at the beginning to prevent cold wind.
- If the outdoor temperature is low and the humidity is high while the Heat mode is running, the heating performance of the air conditioner may decrease due to frost and ice that formed on the outdoor heat exchanger. When this condition happens, the air conditioner runs the defrost function for about 5 to 12 minutes to remove the frost and ice, and water steam is released from the outdoor unit.
- While the defrost function is running, the indoor unit provides no breeze to prevent cold wind.
- The operation time of the defrost function varies depending on the amount of the frost and ice and the humidity.
- While the defrost function is running, none of other functions will work, even if you select them on the remote control.

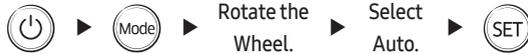
# Quick Smart Features

There is a variety of useful functionality provided by the Samsung air conditioner.



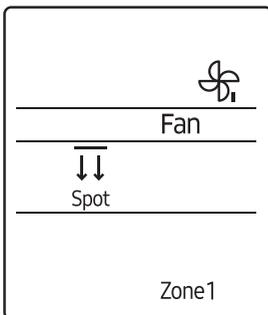
## Auto mode

Use the Auto mode when you want the air conditioner to automatically control the mode (Heat or Cool). The air conditioner will provide the most comfortable atmosphere that it can.



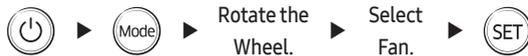
### NOTE

- You can also select the mode that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- You cannot change the fan speed.
- While the Cool mode is running, the air conditioner produces a strong cold air if there is a large difference between the set temperature and the current temperature. When the temperature difference becomes small, the air conditioner automatically changes the air flow direction to Wide  and keeps the room at a comfortable temperature.



## Fan mode

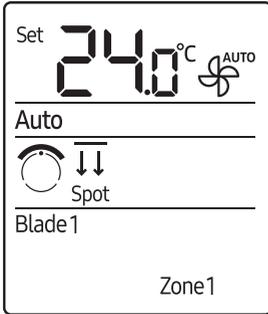
Use the Fan mode to run the air conditioner like a common fan. The air conditioner provides a natural breeze.



### NOTE

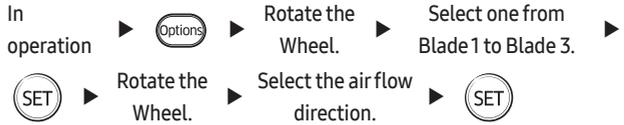
- You can also select the mode that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- If the air conditioner will not be used for an extended period of time, dry the air conditioner by running it in the Fan mode for 3 or 4 hours.

# Quick Smart Features



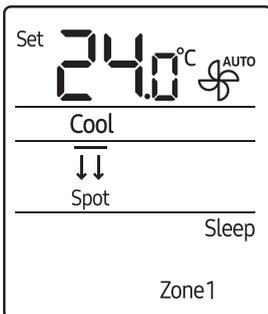
## Controlling the air flow direction individually

Use the individual air-flow-direction control function to individually control the air flow directions of the air outlets.



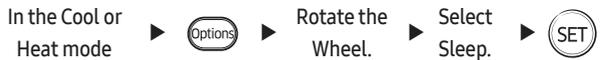
### NOTE

- You can also select the function that you want to use by pressing the button repeatedly until it appears on the remote control display.
- When you take the steps above to run the individual air-flow-direction control function, you cannot select Swing as the air flow direction.
- **Blade 1** is given to the air outlet that is close to the indoor unit display. **Blade 2** and **Blade 3** are given to the remaining two air outlets in the clockwise direction.
- The current settings of the individual air-flow-direction control function persist even if you change the current mode or you turn off and then turn on the air conditioner with the remote control.
- To cancel the selected air flow direction, press the button.



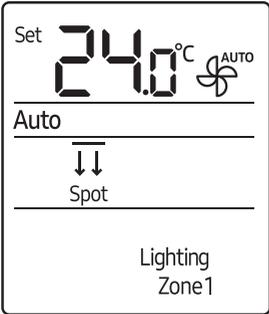
## Sleep function

Use the Sleep function to get a good sleep at night and to save energy. The air conditioner automatically controls the temperature and the fan speed to produce conditions for a good sleep.



### NOTE

- You can also select the function that you want to use by pressing the button repeatedly until it appears on the remote control display.
- You can select the Sleep function both in the Cool and Heat modes.
- The air conditioner automatically turns off after 6 hours from the moment you start the Sleep function.



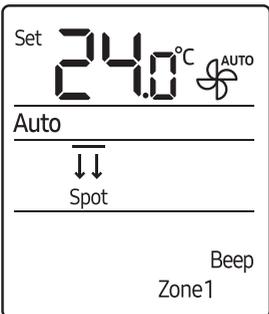
## Lighting indications

Use the Lighting function to change the indications that appear on the indoor unit air flow display and air purity level lighting indicator.

In operation ▶  ▶ Rotate the Wheel. ▶ Select Lighting. ▶ 

### NOTE

- You can also select the function that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- When the indoor unit is turned off, you cannot use the Lighting function.
- When you run the Lighting function to change the indications that appear on the indoor unit display, **Lighting** appears on the remote control display for three seconds and then disappears.



## Beep sound function

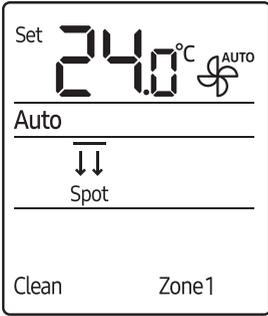
Use the Beep sound function to turn on or off the beep sound from the indoor unit when you press a button on the remote control.

In operation ▶  ▶ Rotate the Wheel. ▶ Select Beep. ▶ 

### NOTE

- You can also select the function that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- When you run the Beep sound function to turn on or off the beep sound from the indoor unit, **Beep** appears on the remote control display for three seconds and then disappears.

# Quick Smart Features



## Clean function

Use the Clean function to remove moisture from the inside of the air conditioner for preventing propagation of fungi, bacteria, etc.

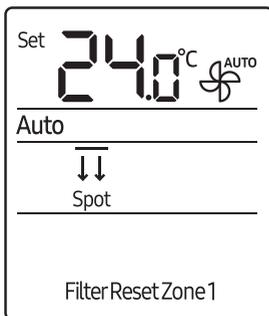


### NOTE

- You can also select the function that you want to use by pressing the **Options** button repeatedly until it appears on the remote control display.
- Depending on the condition of the indoor unit, the Clean operation stops after running for 30 seconds to 20 minutes.

Air conditioner on/off status	When the Clean function is set	When the Clean function is cancelled.
When the air conditioner is on	<ul style="list-style-type: none"> <li>The Timer LED blinks 3 times.</li> <li>The Clean function operates after the air conditioner is stopped.</li> </ul>	The Timer LED blinks once.
When the air conditioner is off	<ul style="list-style-type: none"> <li>The Timer LED blinks 3 times.</li> <li>The Clean function operates immediately.</li> </ul>	

- You cannot use the Clean function after starting the Timed Off function.
- Each time you select the Clean button, the Clean function is alternately set and cancelled. (Be sure to check the Timer LED blinking status.)



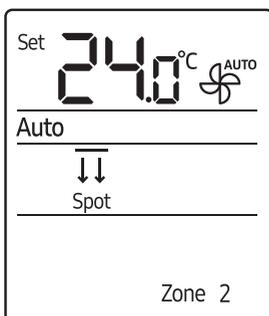
## Clearing the filter-cleaning reminder

Use the Filter Reset function to reset the filter-cleaning reminder after cleaning or replacing the filter.



### NOTE

- You can also select the function that you want to use by pressing the **Options** button repeatedly until it appears on the remote control display.
- When the Filter Reset function is run, **Filter Reset** appears on the remote control display for three seconds and then disappears.



## Controlling the indoor units individually

Use the Zone function to choose the indoor unit you want to operate individually. For example, select **Zone 1** to control only the indoor unit 1.

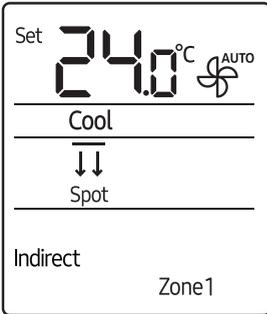


### NOTE

- You can also select the function that you want to use by pressing the **Options** button repeatedly until it appears on the remote control display.
- The indoor unit numbers must be set by the installer: the installer sets a number on each indoor unit. To change the existing indoor unit numbers, contact a service centre.
- The current Zone function settings persist even if you change the current mode or you turn off and then turn on the remote control. The zone selection you made using the remote control is reset when the remote control batteries are replaced.
- You can select either one or all of **Zone 1** to **Zone 4**.

# Motion Detection Feature

To use the Motion detection feature, the air conditioner must be equipped with a Motion Detection Kit, which is sold separately. If the Motion Detection Kit is already installed, the motion detection feature must be enabled so that it can operate normally. (For more information, refer to the Motion Detection Kit manual.) When **Direct** or **Indirect** is displayed on the remote control display, the Motion detection feature changes the air conditioner to energy-saving mode if there are no people in the room.



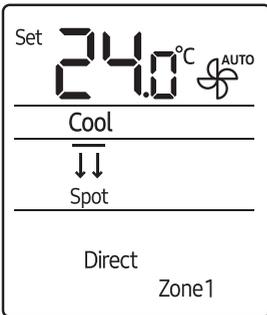
## Indirect function with Motion detection feature

Use the Indirect function to get an indirect wind so that you can feel comfortable. When this function is turned on, the air conditioner detects people and blows air indirectly around them.

In the Cool or Heat mode ▶  ▶ Rotate the Wheel. ▶ Select Indirect. ▶ 

### NOTE

- You can also select the function that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- When the Indirect function is set simultaneously with the Auto, Dry, or Fan mode, **Indirect** is displayed on the remote control display but this function does not operate.



## Direct function with the Motion detection feature

Use the Direct function to get a direct wind so that you can feel comfortable. When this function is turned on, the air conditioner detects people and blows air directly toward them.

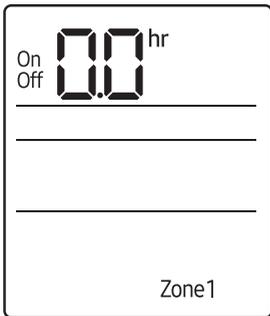
In the Cool or Heat mode ▶  ▶ Rotate the Wheel. ▶ Select Direct. ▶ 

### NOTE

- You can also select the function that you want to use by pressing the  button repeatedly until it appears on the remote control display.
- When the Direct function is set simultaneously with the Auto, Dry, or Fan mode, **Direct** is displayed on the remote control display but this function does not operate.

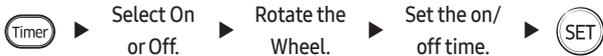
# Energy-Saving Operation

The Samsung air conditioner provides functions that allow you to reduce electricity consumption.



## Timed on/Timed off function

Use the Timed on/Timed off to turn on or off the air conditioner after the time that you set.



### NOTE

- You can set a time between 0.5 and 24 hours. Set the time interval to 0.0 to cancel the Timed on/off function.
- After starting the Timed on function, you can change the mode and the set temperature. When you apply the Timed on/off function to the Fan mode, you cannot change the set temperature.
- You cannot set the same time for both of the Timed on and Timed off functions.
- If you press the **Timer** button when the remote control is off, **On** is displayed first on the remote control display; if you press the **Timer** button when the remote control is on, **Off** is displayed first.

Combining Timed on and Timed off	
When the air conditioner is off	Example) Timed on: 3 hours, Timed off: 5 hours • The air conditioner turns on after 3 hours from the moment you start Timed on/off, remains on for 2 hours, then turns off automatically.
When the air conditioner is on	Example) Timed on: 3 hours, Timed off: 1 hour • The air conditioner turns off after 1 hour from the moment you start Timed on/off, then turns on after 2 hours from the moment it is turned off.

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