

Air conditioner

User manual

Wired remote controller

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

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Safety Information

California Proposition 65 Warning (US)

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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

 **WARNING**

 **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.

You must connect the product with rated power upon installation.

- Failing to do so may result in problems with the product, 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.**

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

 **CAUTION**

 **Install the product on a hard and even place that can support its weight.**

- If the place cannot support its weight, the product may fall down and it may cause product damage.

FOR POWER SUPPLY

 **WARNING**

 **Do not bend or pull the power cord excessively. Do not twist or tie up the power cord.**

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

Safety Information

FOR OPERATION



WARNING



If the appliance 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.

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.
- 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.

If the malfunction diagnosis indicator appears or malfunctions, then stop operation immediately.

- If you detect any burning smells from the product or it malfunctions, then immediately turn off the air conditioner/Ventilator(ERV) and power, and then contact the service centre. Continuing to use the device in this state can cause electrical shock, fire, or damage to the product.
- If the E836 indicator appears, then it means that it is time to contact the service centre for periodic inspection. Neglecting these periodic inspections can result in malfunctions (only applicable to GHP model).



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.

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.

FOR CLEANING



WARNING



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.

Remote Controller Operation

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

Use the  and  buttons to select the desired menu, press the **OK** button, use the ,  buttons to select the desired item, and then press the **OK** button.

Operation modes

You can change the current mode to Auto, Cool, Dry, Fan, and Heat.

Controlling temperature

You can control the temperature in each mode as follows:

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

NOTE

- The set temperature range available on the remote controller may change depending on the set temperature range that indoor unit supports.

Controlling fan speed

You can select the following fan speeds in each mode:

Mode	Available fan speeds
Auto/Cool/Heat	 AUTO Auto,  Turbo,  High,  Medium,  Low
Dry	 AUTO Auto
Fan	 Turbo,  High,  Medium,  Low

NOTE

-  **Turbo** appears active only on the indoor unit that supports the Turbo fan speed.
- While in Auto mode, it is possible to change the fan speed to Turbo, High, Medium or Low, only for indoor units that are set to allow fan speed change during Auto mode.

Remote Controller Operation

Controlling air flow direction

You can control air flow direction.

General models	 Fix,  Swing,  Swing,  Swing,  Individual
360 cassette model	 Spot,  Mid,  Wide,  Swing 360,  Individual

- For 360-cassette indoor unit

Mode	Wired remote controller display	Indoor unit indicator
Spot	 Spot	
Mid	 Mid	
Wide	 Wide	
Swing	 Swing 360	

- If 360-cassette indoor units and other indoor units are installed together, the air flow direction does not change on the indoor units other than 360-cassette when Spot, Mid, or Wide is started as the air flow direction.
- You can select individual air flow direction for each blade, when the individual indication appears active on the indoor unit that supports this mode.

NOTE

- The displayed flow direction icon may differ depending on the indoor model.
- The current air flow direction persists even if you change the current mode, or turn off and then turn on the remote controller.
- Blades that can be selected for Individual may differ depending on the product model.
- When Blade lock is set, the locked blade appears inactive.

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

- It is recommended to set the desired temperature between 24 °C (75 °F) and 26 °C (79 °F).
- 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.

Wind-Free function

Use the Wind-Free function to enjoy mild cool breeze exuding from fine holes on the Wind-Free panel with the air flow blade closed, instead of getting cool wind directly. The automated control of the temperature and fan speed according to the indoor temperatures keeps your room cool and pleasant.

 NOTE

- If the Wind-Free function is cancelled, the air conditioner returns to the previous fan speed.
- You can adjust the set temperature during the Wind-Free function, and recommended set temperatures are 24 to 26 °C (75 to 79 °F). However, you cannot change the set temperature in the Fan mode.
- You can use the Wind-Free function when the Cool, Dry, or Fan mode is running.
- If the room temperature increases because of rise of external temperature, heat from cooking, or other reason, operate normal cooling first to lower the temperature, before operating Wind-Free to keep the desired temperature.
- If you select the Wind-Free function in the Fan mode, the compressor stops working so that cool air does not come out. However, mild breeze comes out and starts to clean the air in the room.
- During the Wind-Free operation, the cold air may be intermittently weakened depending on the temperature and humidity in the room. But the wind-free air currents are maintained and the weakened cold air is immediately recovered, consequently keeping the room comfortable. (During the Wind-Free operation, the air flow blades may open to control the indoor air condition smoothly, depending on the installation settings. In this case, as soon as the indoor temperature and humidity change, the air flow blades are closed and the Wind-Free operation restarts. For more information on the installation settings, see "Setting the indoor unit addresses and the installation options" in the installation manual of the indoor unit.)

Change of the air flow blade by temperature and humidity			
Indoor temperature and humidity	Low	High	
	Breeze is blown via the micro holes on the air flow blades	Breeze is blown via the micro holes on the air flow blades	Breeze comes from the air flow blade depending on the setting
Air flow blade	Closed	Closed (default)	Opened (according to setting)

- When the Wind-Free function runs while sleeping, you may feel cold air if the air conditioner is installed over the bed. In this case, set the desired temperature higher than the normal setting temperature.

Dehumidifying Operation

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

Dry mode

Use the Dry mode in rainy or humid weather.

NOTE

- You cannot change fan speed in the Dry mode.
- The greater the difference between room temperature and set temperature, the longer the needed time to dehumidify the air is.
- When Dry mode is in use, the current humidity is displayed, depending on the indoor unit model.

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 remove harmful materials in the air to provide you a clean and healthy environment.

This function is available in the Auto, Cool, Dry, Fan, and Heat modes.

NOTE

- During the Air Purifying operation, dust is collected on the active filter panel.
- 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.

Air purity level indications

- The indications are displayed only on the models that support the air purity level display function.
- The air purity levels for PM10, PM2.5, and PM1.0 appear as follows:

Purity level	PM10		PM2.5/PM1.0	
	Colour	Concentration (μm^3)	Colour	Concentration (μm^3)
Very Poor	Red	151 or more	Red	76 or more
Poor	Yellow	81-150	Yellow	36-75
Normal	Green	31-80	Green	16-35
Good	Blue	30 or less	Blue	15 or less

- When you set **Air Quality** to **ON**, the screen saver displays the current air purity level details.
 - You can set the screen saver launch time in Option > User mode.
- Air purity level can only be displayed on indoor units supporting this function.

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

- 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 or ice that forms 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, both water and steam are 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 controller.

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 cannot change the fan speed.
- For indoor units that are set to allow fan speed change during Auto mode, it is possible to change the fan speed to Turbo, High, Medium or Low while in Auto mode.
- 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 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

- 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 between 3 and 4 hours.

Quick Smart Features

Quiet function

Quiet function decreases the operation sound in the Auto, Cool, Dry, or Heat mode.

NOTE

- You can control the set temperature, fan speed, and air flow direction.
- When you select Quiet in Wind-Free or Long Wind function, the previous function is cancelled.

Sleep function

Sleep function automatically turns off the air conditioner after 6 hours without stopping the operation in the middle of the night.

NOTE

- You can select this function only in the Cool and Heat modes.
- You can control the set temperature, fan speed, and air flow direction.
- When you select Sleep in Wind-Free or Long Wind function, the previous function is cancelled.

Long Wind function

Use the Long Wind function to quickly deliver a long reaching air flow.

NOTE

- You can select this function only in the Cool, Dry, and Fan modes.
- You cannot control the fan speed and air flow direction.
- When you select Long Wind in the Wind-Free, Quiet, or Sleep function, the previous function is cancelled.

Ventilation (ERV) Operation

Operation modes

You can select the desired mode.

Mode	Description
Heat-EX	This mode minimizes energy loss by recovering energy from the exhaust air during indoor heating or cooling.
Auto	This mode automatically adjusts the ventilation functions depending on the degree of pollution in your indoor air.
By-Pass	This mode activates the intake of external air so that it comes indoors.
Quiet	This mode reduces the sound produced by the ventilator (ERV).
Away	This mode allows you to operate the ventilator (ERV) while you are away from home.

NOTE

- Only when you select all the options of ventilator (ERV), you can use the above operation. (Only available when the wired remote controller is installed)
- If the operation status is changed by another controller, the operation mode is cancelled.

Controlling fan speed

You can select the following fan speeds in each mode:

Heat-EX/Auto/ By-Pass	 AUTO Auto,  Turbo,  High,  Medium
Quiet/Away	 Medium

NOTE

-  AUTO Auto appears active only on the ventilator that supports the Auto fan speed.

Ventilation (ERV) Operation

E-Saver function

Reduce your power consumption and save money on your electric bill.

- When the ventilator (ERV) and the air conditioner is connected together
 - This function compares the outdoor and indoor temperatures, and then automatically selects Heat-EX or By-Pass operation.
- When the ventilator (ERV) is installed separately (depending on the option settings at installation), it operates as follows:

ON/OFF Alternation operation	• The ventilator (ERV) turns On and Off in Quiet (Medium) mode every 30 minutes.
Outdoor air cooling operation for different temp. setting	• Operates when the View Master is for ERV+. • With the temperature control button, the default temperature for E-Saver can be set. • Depending on the set temperature, it automatically selects Heat-EX or By-Pass operation.

 NOTE

- When the air conditioner is connected individually, E-Saver function is not available.

Clean up function

Prevent odor and dust from entering by making the airflow input bigger than the airflow output.

Energy-Saving Operation

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

Schedule

Press the  button, press the   or  button to select **Schedule**, and then press the **OK** button. You can set each of **General Schedule**, **Setback Schedule**, **Override**, **Energy Saving Timer**, and **Good sleep**.

Type		Description
General Schedule	Timer	• Turns the device on or off after a set time. – You can set the timer by 5 minute increments.
	Weekly schedule	• Schedules the operation of the device on a set day and at a set time. – You can schedule on the weekly basis. You can also set the values for day, time, operation on/off, scheduled device, and operation status (operation mode, set temperature, fan speed).
	Yearly schedule	• Creates groups for the desired months for scheduling – You can schedule up to 8 groups on the yearly basis.
	Holiday	• Allows you not to make use of the schedule on holidays.
Setback Schedule		• Controls the indoor unit with 4 different operation patterns. – Each pattern sets the values for time, operation (OFF, Cool, Heat, Auto), and the set temperature. ※ General Schedule cannot be set if Setback Schedule is set.
Override		Allows you to run at a specific time the operation you set using Energy Saving Timer.
Energy Saving Timer		• When set to "Turn off" – If the indoor unit is turned on, the indoor unit turns off after the set time elapses. • When set to "Eco Setting" – If the current temperature continues to differ from the reference cooling or heating temperature set in Eco Setting, the indoor unit returns to the temperature set in Eco Setting after the set time elapses. • When set to "Setback Schedule" – If the most recently operated Setback Schedule status differs from the indoor unit status, the indoor unit returns to that Setback Schedule status after the set time elapses. ※ When "Timer Reset" is set to "Enable", the set time is re-counted if the indoor unit status changes. ※ When a period of time is set in Activation Time Setting, the indoor unit only operates for that period of time.
		Eco Setting: Allows you to set the reference cooling and heating temperatures when "Energy Saving Timer" is set to "Eco Setting".
		Activation Time Setting: Allows you to make the Energy Saving Timer function operate only for the period of time you set.

Energy-Saving Operation

Type	Description
Good sleep	- Operates until the set time, beginning from the time the Good sleep function starts operation. - The Good sleep function can be set simultaneously along with General Schedule or Setback Schedule

 NOTE

- Weekly schedule and Yearly schedule can cover settings up to 49.

Energy

Press the  button, press the   or  button to select **Energy**, and then press the **OK** button. You can see and set any of Energy Usage and Energy Setting.

Classification	Type	Description
Energy Usage	-	Displays the Instantaneous Power, Weekly Energy Usage, Monthly Energy Usage, Yearly Energy Usage, Energy Usage over Last Year, and Operation Time in graph format.  NOTE - For accuracy of operation time, use the DMS time synchronization. - The weekly display follows the ISO 8601 standards.
Energy Setting	Set Outdoor Capacity	Controls the outdoor unit's operation capacity.
	Target Energy Consumption	Sets the target energy consumption.
	Target Operation Time	Sets the target operation time.
	Alarm Popup	Sets whether or not to generate an alarm when the target energy consumption is reached.
	Usage Data Initialization	Initialises the entire energy function.

Setting Options

How to set the Options

- 1 Press the  button.
- 2 Press the  or  button to select Option, and then press the **OK** button.
- 3 See the following pages to select the desired menu.

Major	Step1	Step 2	Step 3	Step 4	Step 5	Description	Default
General	UV Anti-Virus					ON/OFF	-
	Freeze Wash						-
	Button lock					ON/OFF	
	Filter reset	Indoor					-
		Ventilator					
	Error list						-
	Indoor unit information						-
	Connections	Wi-Fi				ON/OFF	-
		Easy Connection				Connected/-	-
Wi-Fi Reset							
Indoor	Blade selection					4-way cassette: Swing ON/Swing OFF 360 cassette: Spot/Mid/Wide	-
	Edge Lighting					ON/OFF	-
		Color				Warm/Natural/Cool	-
		Brightness				Smart/High/Low	-
		Link to on/off state				ON/OFF	-
	Motion Detection	Air Flow Direction	Type			ON/OFF	OFF
						Indirect/Direct	Indirect
		Power Saving				ON/OFF	-
		Motion Detection Comfort				ON/OFF	-
Option	User mode	Language				Differs depending on the language	First value for the language pack
		Daylight Savings Time	Daylight Savings Time			ON/OFF	ON
			Unit				Day/Week

 NOTE

- For details on using the UV Anti-Virus function, including the precautions, refer to the product user manual.

Setting Options

Major	Step1	Step2	Step3	Step4	Step5	Description	Default
Option	User mode	Daylight Savings Time	Week	Start Month		January to December	Mar
				Start Week		1st to 4th, Final (final week)	2nd
				End Month		January to December	Nov
				End Week		1st to 4th, Final (final week)	1st
			Day	Start Month		January to December	Mar
				Start Day		1~31	22
				End Month		January to December	Sep
				End Day		1~31	22
		Sounds	Speaker			Voice/Tone/Mute	-
			Volume			Mute/Minimum/Normal/Maximum	-
		Lock	All lock			ON/OFF	OFF
				Operation Lock		ON/OFF	OFF
			Partial Lock Fuction	Operation mode Lock	All mode Lock	ON/OFF	OFF
					Auto mode Lock	ON/OFF	OFF
					Cool mode Lock	ON/OFF	OFF
					Dry mode Lock	ON/OFF	OFF
					Heat mode Lock	ON/OFF	OFF
					Fan mode Lock	ON/OFF	OFF
				Temperature Lock		ON/OFF	OFF
				Fan speed Lock		ON/OFF	OFF
			Additional Mode Lock		Wind-Free Lock	ON/OFF	OFF
					Long Wind Lock	ON/OFF	OFF
					Quiet Lock	ON/OFF	OFF
					Sleep Lock	ON/OFF	OFF
			Schedule Lock			ON/OFF	OFF
		Wired remote controller	LED			ON/OFF	ON
			Button Mute			ON/OFF	OFF
			Wireless remote controller			ON/OFF	OFF
			Current time	Date		2000 to 2099/1 to 12/1 to 31	2018.01.01.
				Time		12-Hour/24-hour 12-hour format : 1 to 12, 24-hour format: 0 to 23, minutes: 00 to 59	12:00 PM
			Reset remote controller			-	-
			Display setting	Brightness		10 to 100%	100%
				Screen saver	Timer	10 to 60 seconds	30 sec
					Brightness	0, 10, 30, 50, 70%	30%

Major	Step1	Step 2	Step 3	Step 4	Step 5	Description	Default
Option	User mode	Smart Reset					-
		Reset All User modes					-
		Auto changeover	Use of wired remote controller DSP			ON/OFF	ON
			Cooling Set temp./Heating Set temp.			18°C to 30°C (Set temp range for auto operation of the indoor unit)	Indoor unit status value
			Primary			0.5°C to 2°C(or 1°F to 4°F)	Indoor unit status value
			Secondary			0.5°C to 2°C(or 1°F to 4°F)	Indoor unit status value
		Temperature limits	Lower Limit			Celsius: 8 to 30°C Fahrenheit: 47 to 86°F	8°C
			Upper Limit			Celsius: 8 to 30°C Fahrenheit: 47 to 86°F	30°C
		Easy tuning				-2 to +2	0
		Indoor lighting				ON/OFF	Indoor unit status value
		Clean				ON/OFF	Indoor unit status value
		Delay time	Use of ERV delay time			ON/OFF	OFF
			ERV delay time			30 to 60 minutes	30

NOTE

- When two wired remote controllers are connected, the brightness can be set within 10 to 50%.
- If the screen is on stand by for an hour, in order to protect the screen it converts to screen protection mode for a minute before returning to the normal screen.
If the buttons are pressed after the screen protection is displayed it converts to the stand by screen right away.

Current Time Setting (Example)

- 1 Press the  button.
- 2 Press the  or  button to select **Option**, and then press the **OK** button.
- 3 Press the  or  button to select **User mode**, and then press the **OK** button.
- 4 Press the  or  button to select **Wired remote controller**, and then press the **OK** button.
- 5 Press the  or  button to select **Current time**, and then press the **OK** button.
- 6 Press the  or  button to select **Time**, and then press the **OK** button.
- 7 Press the  or  button to select Time format, Hour, Minute, and AM/PM, and then press the **OK** button.

Troubleshooting

Refrigerant leak detection

If a refrigerant leak is detected, turn off the alarm and consult a dealer or service centre.

Stopping the refrigerant leak alarm

If the alarm sounds due to a refrigerant leak, it is possible to stop the alarm sound 4 minutes after the alarm starts. Press the **OK** button for 3 seconds to stop the alarm.



Memo

SAMSUNG