

Air conditioner

User manual

AC***HE6DKG, 360 Cassette

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

Contents

Safety Information	3
Safety Information	3
At a Glance	8
Indoor Unit Overview	8
PowerSmart Features	9
Operation Features	9
Operating temperature and humidity	9
Cleaning and Maintenance	10
Cleaning and Maintaining	10
Cleaning the indoor unit exterior • Cleaning the outdoor unit heat exchanger	10
Disassembling the air filter • Cleaning the air filter	11
Reassembling the air filter	12
Resetting the filter-cleaning reminder	13
Periodical maintenance	14
Troubleshooting	15
DEMAND RESPONSE MODE (DRM1, 2, 3)	19



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 Information

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

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



WARNING

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



CAUTION

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



NOTE

Supplementary information that may be useful

Symbol	Meaning
A2L 	WARNING: Low burning velocity material (This appliance is filled with R-32.)
	Refer to operating manual
	Read operating manual
	Read installation and service manual

Safety Information

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.

This product is equipped with a safety device that operates on electricity.

- To ensure normal operation of the safety device, power must be supplied to the product at all times after installation, except when repairing it.

This product is equipped with a refrigerant leak sensor for the purpose of safety.

- To ensure normal operation of the refrigerant leak sensor, power must be supplied to the product at all times after installation, except when repairing it.

CAUTION

The product shall be stored in a room with no ignition sources (e.g. open flames, gas appliance, electric heater, etc.).

- Note that the refrigerant has no odour.

FOR POWER SUPPLY

WARNING

When the circuit breaker is damaged, contact your nearest service centre.

CAUTION

When during a thunder/lightning storm, cut the power at the circuit breaker.

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

FOR USING

WARNING

If the appliance is flooded, please contact your nearest service centre.

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

If the appliance generates a strange noise, a burning smell or smoke, cut-off the power supply immediately and contact the nearest service centre.

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

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.

- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

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

- Failing to do so may result in problems with the product, water leakage, electric shock, or fire.
- 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 salt in the air, please contact your nearest service centre.

Do not touch the circuit breaker with wet hands.

- This may result in electric shock.

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

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

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 strike or pull the air conditioner with excessive force.

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

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

- This may result in children seriously injuring themselves.

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

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

If any foreign substance such as water has entered the appliance, cut-off the power supply and contact the nearest service centre.

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

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

- Do not use any fuse (such as 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.

Safety Information

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.

When the air conditioner does not operate properly for cooling or heating, there is a possibility of refrigerant leakage. If any leakage, stop operation, ventilate the room, and consult your dealer to recharge the refrigerant.

The refrigerant is not harmful. However, if it comes in contact with fire, it may generate harmful gases and there is a risk of fire.

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

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

Do not operate the appliance with wet hands.

- This may result in electric shock.

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

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

Do not drink the water from the air conditioner.

- The water may be harmful to humans.

Do not apply a strong impact to the remote 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 to the air flow from the air conditioner for long periods of time.

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

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, 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, alcohol or acetone to clean the appliance.

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

Before cleaning or performing maintenance, cut-off the power supply and wait until the fan stops.

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



CAUTION

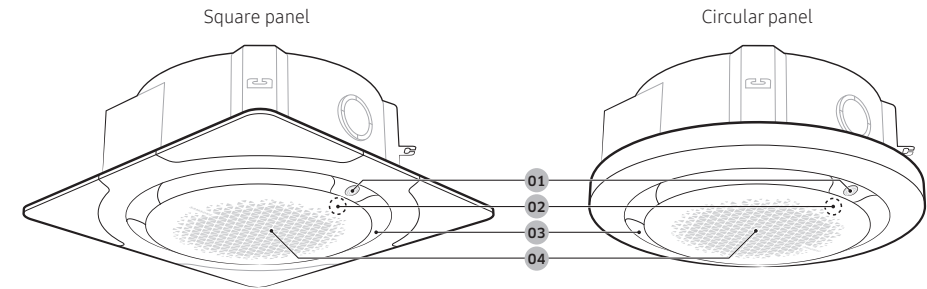
Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.

- To avoid cutting your fingers, wear thick cotton gloves when cleaning it.
- This should be done by a qualified technician please contact your installer or service centre.

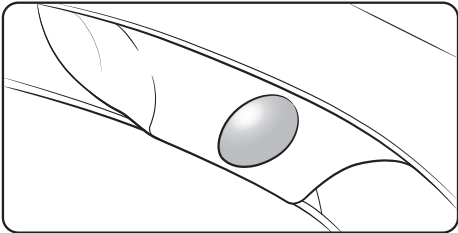
Do not clean the inside of the air conditioner by yourself.

- For cleaning inside the appliance, contact your nearest service centre.
- When cleaning the internal filter, refer to the descriptions in the 'Cleaning and Maintaining' section.
- Failure to do may result in damage, electric shock or fire.
- Make sure to prevent any injury from sharp edges of the surface when handling the heat exchanger.

Indoor Unit Overview



01 Display



02 Remote control sensor (behind the front grille)

03 Air outlet

04 Front grille /
Air filter (behind the front grille)

NOTE

- For information on how to operate the product, see the user manual for the remote control.
- The actual appearances of the indoor units and their displays may differ slightly from the images depicted above.

Operation status	Indication on the display
Power on	Ice blue (blinking)
In operation	Ice blue
Stopped	Off
Timed on/off function	Blue
Requires filter cleaning	Yellow green
Defrost function	Ice blue (blinking once every 10 seconds)
Wide	
Mid	
Spot	
Swing	

Operation Features

Operating temperature and humidity

Mode	Outdoor temperature	Indoor temperature	Indoor humidity
Cool mode	-15 °C to 50 °C	18 °C to 32 °C	80% or less
Heat mode	-20 °C to 24 °C	30 °C or less	-
Dry mode	-15 °C to 50 °C	18 °C to 32 °C	80% or less

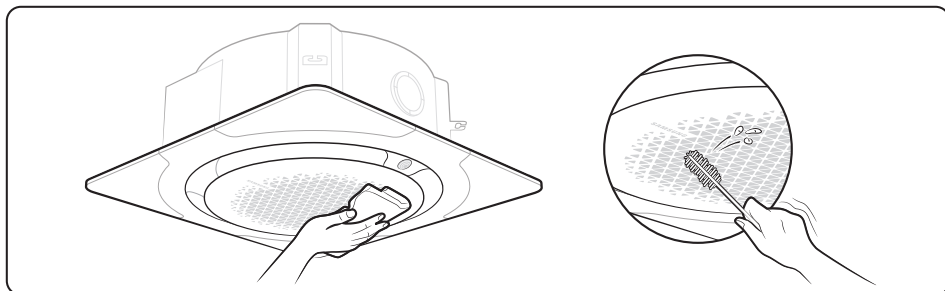
 CAUTION

- If you use the air conditioner at a relative humidity above 80%, it may cause a formation of condensation and a leakage of water on the floor.
- The rated heating capacity is based on an outdoor temperature of 7 °C. If the outdoor temperature goes down below 0 °C, heating efficiencies may decrease depending on the temperature conditions.
- If the indoor unit is out of the operating temperature and humidity range, the safety device may operate and the air conditioner may stops.



Cleaning and Maintaining

Cleaning the indoor unit exterior

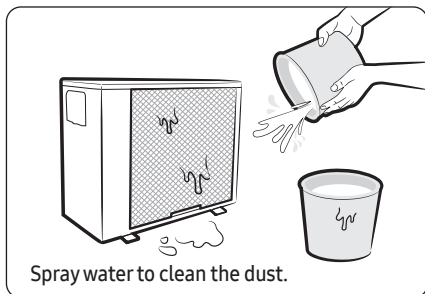


Wipe the surface of the unit with a slightly wet or dry cloth when needed. Wipe off dirt from odd-shaped areas by using a soft brush.

CAUTION

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

Cleaning the outdoor unit heat exchanger



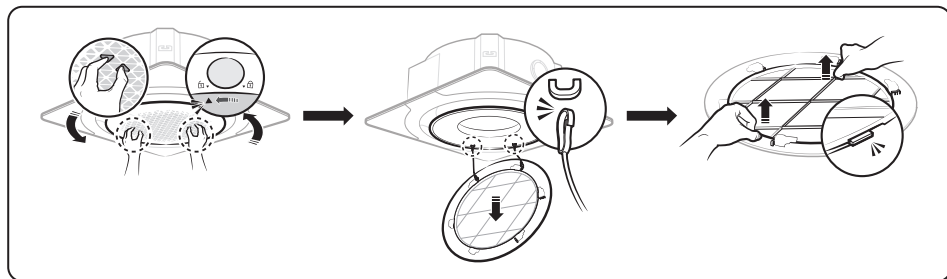
NOTE

- When you clean and inspect the heat exchanger on the outdoor unit, contact the local service center for help.

CAUTION

- Make sure to prevent any injury from sharp edges of the surface when handling the heat exchanger.

Disassembling the air filter



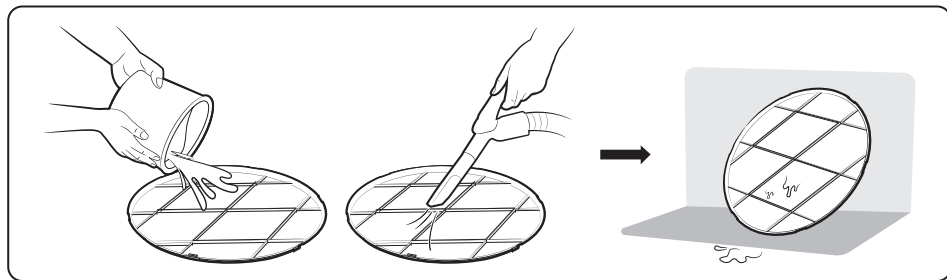
⚠ CAUTION

- For cleaning and maintenance, be sure to turn off the circuit breaker.

📖 NOTE

- When the next filter-cleaning time arrives (after 1000 hours of operation), the indoor unit display appears in yellow green.

Cleaning the air filter

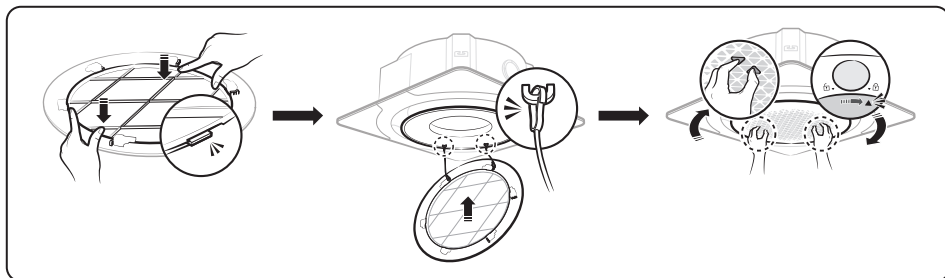


📖 NOTE

- Clean the air filter once every two weeks.
- Spray water or use a vacuum cleaner to remove dust.
- After removing dust, dry the air filter completely.
 - Avoid direct sunlight. Failure to do so may deform the air filter.

Cleaning and Maintaining

Reassembling the air filter



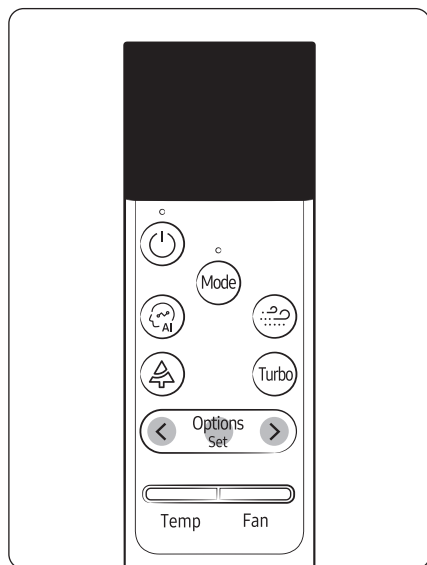
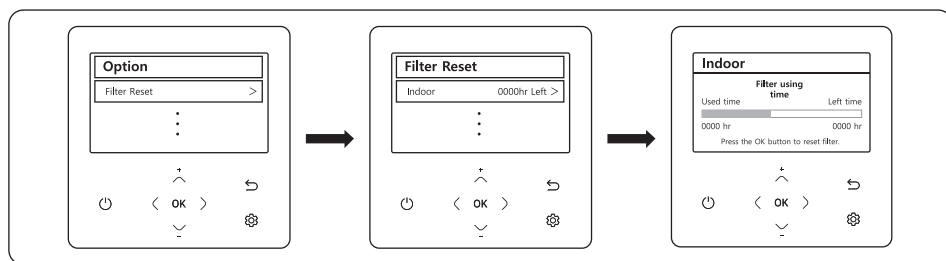
After cleaning and reassembling the air filter, reset the filter-cleaning reminder as follows:

NOTE

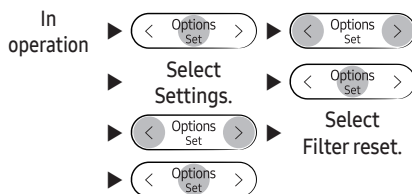
- If you try to assemble the air filter upside down, it will not be assembled because it cannot be clamped by the internal structure.

Resetting the filter-cleaning reminder

- Indoor unit with the wired remote control:
 - Press the  button to display the **Option** menu.
 - Press the  button to select **Filter Reset** and press the **OK** button.
 - Press the  button to select **Indoor** and press the **OK** button to display **Filter using time**.
 - Press the **OK** button to reset the air filter.



- Indoor unit with the wireless remote control:



CAUTION

- The filter reset indicator blinks when the air filter should be cleaned.
- Although the filter cleaning indicator(Yellow green light) does not light, be sure to set the "**Filter Reset**" after cleaning the air filter.
- If the angle of the airflow blade is changed by opening the front grille for installation or maintenance of the indoor unit, be sure to turn off and then on the auxiliary switch before operating the indoor unit again. If not, the angle of the airflow blade may be changed, and the blades may not be closed after turning off the indoor unit.

Cleaning and Maintaining

Periodical maintenance

Unit	Maintenance item	Interval	Requires qualified technicians
Indoor unit	Clean the air filter.	At least once a month	
	Clean the condensate drain pan.	Once a year	Required
	Clean up the heat exchange.	Once a year	Required
	Clean the condensate drain pipe.	Once every 4 months	Required
Outdoor unit	Clean the heat exchanger on the outside of the unit.	Once every 4 months	Required
	Clean the heat exchanger on the inside of the unit.	Once a year	Required
	Clean the electric components with jets of air.	Once a year	Required
	Verify that all the electric components are firmly tightened.	Once a year	Required
	Clean the fan.	Once a year	Required
	Verify that the fan assemblies are firmly tightened.	Once a year	Required
	Clean the condensate drain pan.	Once a year	Required

 NOTE

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

Troubleshooting

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

Problem	Solution
The air conditioner does not operate immediately after it has been restarted.	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.
The air conditioner does not operate at all.	- Check whether the power is turned on, and then operate the air conditioner again. - Check whether the auxiliary power switch (MCCB, ELB) is turned on. - If the auxiliary power switch (MCCB, ELB) is turned off, the air conditioner does not work although you press the  (Power) button. - When you clean the air conditioner or do not use it for an extended time, turn off the auxiliary power switch (MCCB, ELB). - After the air conditioner is not used for an extended period, be sure to turn on the auxiliary power switch (MCCB, ELB) 6 hours before starting operation.  NOTE - The auxiliary power switch (MCCB, ELB) is sold separately. - Make sure that auxiliary power switch (MCCB, ELB) is installed in the distribution box inside the building. - If the air conditioner is turned off by the Timed off function, turn on the air conditioner again by pressing the  (Power) button.
The temperature does not change.	Check whether the Fan mode is running. In the Fan mode, the air conditioner controls the set temperature automatically, and you cannot change the set temperature.
Warm air does not come out of the air conditioner.	- Check whether the outdoor unit is designed for cooling only. In this case, warm air does not come out although you select the Heat mode. - Check whether the remote control is designed only for cooling only. Use a remote control that supports both cooling and heating.
The fan speed does not change.	Check whether the Dry mode is running. In these modes, the air conditioner controls the fan speed automatically, and you cannot change the fan speed.

Cleaning and Maintaining

Problem	Solution
The wireless remote control does not operate.	• Ensure the remote control is charged. • Make sure that nothing is blocking the remote control sensor. • Check whether any strong lighting sources are near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interfere with the remote control.
The wired remote control does not operate.	• Check whether the  indicator is displayed at the bottom right of the remote control display. In this case, turn off both the air conditioner and the auxiliary power switch, and then contact a service center.
The air conditioner is not turned on or off immediately with the wired remote control.	• Check whether the wired remote control is set for group control. In this case, the air conditioners connected to the wired remote control are turned on or off sequentially. This operation takes up to 32 seconds.
The Timed on/off function does not operate.	• Check whether you pressed the  (SET) button on the remote control after setting the on/off time. Set the on/off time.
The indoor unit display blinks continuously.	• Turn on the air conditioner again by pressing the  (Power) button. • Turn off and then turn on the auxiliary power switch, and then turn on the conditioner. • If the indoor unit display is still blinking, contact a service center.
I want to get cooler air.	• Operate the air conditioner with an electric fan to save energy and enhance the cooling efficiency.



Problem	Solution
The air is not cool or warm enough.	• In the Cool mode, cool air does not come out if the set temperature is higher than the current temperature. – Remote control: Press the Temperature button on the remote control. Then rotate the Wheel until the set temperature (minimum: 18 °C) is set to lower than the current temperature. • In the Heat mode, warm air does not come out if the set temperature is lower than the current temperature. – Remote control: Press the Temperature button repeatedly until the set temperature (maximum: 30 °C) is set to higher than the current temperature. • Both cooling and heating do not operate in the Fan mode. Select the Cool, Heat, Auto, or Dry mode. • Check whether the air filter is blocked with dirt. A dusty filter may decrease the cooling and heating efficiencies. Clean the air filter frequently. • If a cover is on the outdoor unit or any obstacle is present near the outdoor unit, remove them. • Install the outdoor unit in a well-ventilated place. Avoiding places exposed to direct sunlight or close to a heating appliance. • Place a sunscreen over the outdoor unit to protect it from direct sunlight. • If the indoor unit is installed in a place exposed to direct sunlight, pull the curtains on the windows. • Close the windows and doors to maximize the cooling and heating efficiencies. • If the Cool mode is stopped and then started immediately, cool air comes out after about 3 minutes to protect the compressor of the outdoor unit. • When the Heat mode is started, warm air does not come out immediately to prevent cool air from coming out at the beginning. • If the refrigerant pipe is too long, the cooling and heating efficiencies may be decreased. Avoid exceeding the maximum pipe length.
The air conditioner makes strange noises.	• In certain conditions (especially, when the outdoor temperature is lower than 20 °C), a hissing, rumbling, or splashing sound may be heard while the refrigerant is circulating through the air conditioner. This is a normal operation. • When you press the  (Power) button on the remote control, noise may be heard from the drain pump inside the air conditioner. This noise is a normal sound.

Cleaning and Maintaining

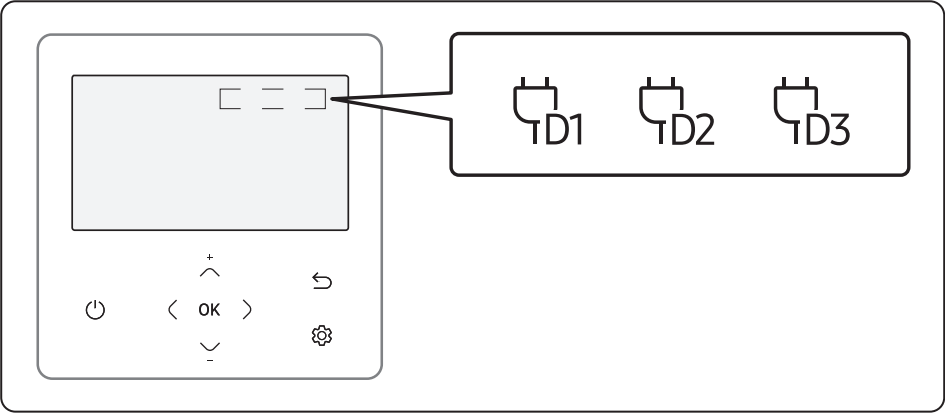
Problem	Solution
Unpleasant odors permeate the room.	• If the air conditioner is running in a smoky area or if there is a smell entering from outside, ventilate the room properly. • If both indoor temperature and indoor humidity are high, operate the air conditioner in the Clean or Fan mode for 1 to 2 hours. • If the air conditioner has not been operated for an extended period of time, clean the indoor unit and then operate the air conditioner in the Fan mode for 3 to 4 hours to dry the inside of the indoor unit for removal of unpleasant odors. • If the air filter blocked with dirt, clean the air filter.
Steam is produced on the indoor unit.	• In winter, if the indoor humidity is high, steam may be produced around the air outlet while the defrost function is running. This is a normal operation.
The outdoor unit fan continues to operate when the air conditioner is turned off.	• When the air conditioner is turned off, the outdoor unit fan may continue to operate to reduce noise of the refrigerant gas. This is a normal operation.
Water drops from the piping connections of the outdoor unit.	• Condensation may develop due to the difference in temperature. This is a normal condition.
Steam is produced on the outdoor unit.	• In winter, when the air conditioner runs in the Heat mode, the frost on the heat exchanger melts and steam may be produced. This is a normal operation, neither product malfunction nor a fire.



DEMAND RESPONSE MODE (DRM 1, 2, 3)

This air conditioner is equipped with a Demand Response unit which will respond to a signal sent by the power supply utility during emergency conditions.

- During a Demand Response Event, the indoor and outdoor unit will be operated according to DRM mode(DRM 1, 2, 3) and the remote controller will show “D1”, “D2”, “D3” on the display.



AIR CONDITIONER DEMAND RESPONSE MODES			
Operational instruction (OI)	Demand response mode (DRM)	Description of operation in this mode	Mandatory for compliance with this Standard (AS/NZS 4755.3.1)
OI 1	DRM 1	Compressor off	Yes
OI 2	DRM 2	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	No
OI 3	DRM 3	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 75% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.	No



QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
AUSTRALIA	1300 362 603	www.samsung.com/au/support

