



Refrigerator

User manual

RS28A500A**/RS23A500A**

Free Standing Appliance

SAMSUNG



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Safety information

Before using your new Samsung Refrigerator, please read this manual thoroughly to ensure that you know how to operate the features and functions that your new appliance offers safely and efficiently.

What you need to know about the safety instructions

- 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.
- Because the following instructions cover various models, the characteristics of your refrigerator may differ slightly from the refrigerator described in this manual.
- If you have any question, contact us at 1-800-SAMSUNG or find help and information online at www.samsung.com.
- Refrigerant squirting out of the pipes could ignite or cause an eye injury. When refrigerant leaks from the pipe, avoid any naked flames and move anything flammable away from the product and ventilate the room immediately.
 - Failing to do so may result in fire or explosion.
- Improper use of the grounding plug can result in a risk of electric shock. If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord should be AC 115-120 V, 10 A, or more. If a grounding adapter is used, make sure the receptacle box is fully grounded.

Important safety symbols and precautions:

Please follow all safety instructions in this manual. This manual uses the following safety symbols.

WARNING

Hazards or unsafe practices that may result in severe personal injury, property damage, and/or death.

CAUTION

Hazards or unsafe practices that may result in severe personal injury and/or property damage.

NOTE

Useful information that helps users understand or benefit from the refrigerator.

These warning signs are here to prevent injury to you and others.

Please follow them carefully.

After reading this section, keep it in a safe place for future reference.

State of California Proposition 65 Warning

WARNING

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

Important safety precautions



Warning; Risk of fire / flammable materials

WARNING

- R-600a is used as a refrigerant. This product contains flammable gas (Refrigerant R-600a), contact your local authority in regard to safe disposal of this product.
- In order to avoid the creation of a flammable gas-air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance may be sited depends on the amount of refrigerant used. The room must be 35.3 ft³ in size for every 8 g of R-600a refrigerant inside the appliance.
- The installation location should not be exposed to direct sunlight and not placed near any electric appliance or heat source, e.g. stove, oven or hob, radiator, etc.

Safety information

- If you use two products side by side, for safety reason, be sure to use certified products in explosive gas atmospheres.
- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The socket must be easily accessible so that the appliance can be quickly disconnected from the supply in an emergency. It must be outside the area of the rear of the appliance.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- New hose-sets supplied with the appliance are to be used and that old hose-sets should not be reused.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

WARNING

- Fill with potable water only.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the food storage compartments of The appliance, unless they are of the type recommended by the manufacturer.
- Connect to potable water supply only.

WARNING

- Risk of child entrapment. Before you throw away your old refrigerator or freezer:
 - Take off the doors.
 - Leave the shelves in place so that children may not easily climb inside.

This appliance is intended to be used in household and similar applications such as

- staff kitchen areas in shops, offices and other working environments;
- farm houses and by clients in hotels, motels and other residential type environments;
- bed and breakfast type environments;
- catering and similar non-retail applications.



Severe warning signs for transportation and site

WARNING

- When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged.
 - Refrigerant leaking from the pipe work could ignite or cause an eye injury. If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is standing for several minutes.
 - This appliance contains a small amount of isobutane refrigerant (R-600a), a natural gas with high environmental compatibility that is, however, also flammable.

Critical installation warnings

WARNING

- Do not install the refrigerator in a damp location or place where it may come in contact with water.
 - Deteriorated insulation on electrical parts may cause an electric shock or fire.
- Do not place this refrigerator in direct sunlight or expose it to the heat from stoves, room heaters, or other appliances.
- Do not plug several appliances and the refrigerator into the same multiple power strip. The refrigerator should always be plugged into its own individual electrical outlet which has a voltage rating that matches the voltage listed on the refrigerator's rating plate.
 - This provides the best performance and also prevents overloading of house wiring circuits, which could overheat the wires and cause a fire hazard.
- If the wall socket is loose, do not insert the power plug.
 - There is a risk of electric shock or fire.
- Do not use a power cord that has cracks or abrasion damage along its length or at either end.
- Do not bend the power cord excessively or place heavy objects on it.
- Do not pull or excessively bend the power cord.
- Do not twist or tie the power cord.
- Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.
- When moving the refrigerator, be careful not to roll over or damage the power cord.
 - This may result in an electric shock or fire.
- Never unplug your refrigerator by pulling on the power cord. Always grip the plug firmly and pull straight out from the outlet.
 - Damage to the cord may cause a short-circuit, fire, and/or electric shock.
- Do not install this appliance near a heater or flammable material.
- Do not install this appliance in a location where gas may leak.
 - This may result in an electric shock or fire.
- This refrigerator must be properly located and installed in accordance with the instructions in this manual before you use it.



Safety information

- Connect the power plug in the proper position with the cord hanging down.
 - If you connect the power plug upside down, the wire can get cut off and cause a fire or electric shock.
- Make sure that the power plug is not crushed or damaged by the back of the refrigerator.
- Keep the packing materials out of reach of children.
 - There is a risk of death from suffocation if a child puts the packing materials on his or her head.
- The appliance must be positioned so that the plug is accessible after installation.
 - Failing to do so may result in an electric shock or fire due to electric leakage.
- Do not install this appliance in a humid, oily or dusty location, or in a location exposed to direct sunlight or to water (rain drops).
 - Deteriorated insulation on electrical parts may cause an electric shock or fire.
- If large amounts of dust or water enter the refrigerator, disconnect the power plug and contact a Samsung Electronics service center.
 - Otherwise 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 an electric shock, fire, problems with the product, or injury.
- You need to remove all the protective plastic film before you initially plug the product in.
- Children should be supervised to ensure that they do not play with the snap rings used for door adjustment or the water tube clips.
 - There is risk of death by suffocation if a child swallows a snap ring or water tube clip. Keep the snap rings and water tube clips out of children's reach.
- The refrigerator must be safely grounded.
 - Always make sure that you have grounded the refrigerator before attempting to investigate or repair any part of the appliance. Power leakages can cause severe electric shock.
- Never use gas pipes, telephone lines, or other potential lightning attractors as an electrical ground.
 - You must ground the refrigerator to prevent any power leakages or electric shocks caused by current leakage from the refrigerator.
 - Current leakage may result in an electric shock, fire, explosion, or problems with the product.
- Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord, or loose wall socket.
 - This may result in an electric shock or fire.
- Only a qualified technician or service company should be allowed to change the fuse in the refrigerator.
 - Failing to do so may result in an electric shock or personal injury.



Installation cautions

CAUTION

- Allow sufficient space around the refrigerator and install it on a flat surface.
 - Keep the ventilation space in the appliance enclosure or mounting structure clear of obstructions.
- After you have installed the refrigerator and turned it on, allow the appliance to stand for 2 hours before loading it with food.
- It is strongly recommended you have a qualified technician or service company install the refrigerator.
 - Failing to do so may result in an electric shock, fire, explosion, problems with the product, or injury.
- Overloading one door may make the refrigerator fall, causing physical injury.

Critical usage warnings

WARNING

- Do not insert the power plug into a wall socket with wet hands.
 - This may result in an electric shock.
- Do not store articles on the top of the appliance.
 - When you open or close the door, the articles may fall and cause personal injury and/or material damage.
- Do not insert hands, feet, or metal objects (such as chopsticks, etc.) into the bottom or the back of the refrigerator.
 - This may result in an electric shock or injury.
 - Any sharp edges may cause a personal injury.
- Do not touch the inside walls of the freezer or products stored in the freezer with wet hands.
 - This may cause frostbite.
- Do not put a container filled with water on the refrigerator.
 - If spilled, there is a risk of fire or electric shock.
- Do not keep volatile or flammable objects or substances (benzene, thinner, propane gas, alcohol, ether, LP gas, and other such products) in the refrigerator.
 - This refrigerator is for storing food only.
 - This may result in fire or explosion.
- Children should be supervised to ensure that they do not play with the appliance.
 - Keep fingers out of "pinch point" areas. Clearances between the doors and cabinet are necessarily small. Be careful when you open the doors if children are in the area.
- Do not let children hang on the door or door bins. A serious injury may occur.
- Do not let children go inside the refrigerator. They could become trapped.
- Do not insert your hands into the area under the appliance.
 - Any sharp edges may cause personal injury.



Safety information

- Do not store pharmaceutical products, scientific materials, or temperature sensitive products in the refrigerator.
 - Products that require strict temperature controls must not be stored in the refrigerator.
- Do not place or use electrical appliances inside the refrigerator/freezer, unless they are of a type recommended by the manufacturer.
- If you smell smoke, pull out the power plug immediately, and then contact a Samsung Electronics service center.
- If large amounts of dust or water enter the refrigerator, disconnect the power plug and contact your Samsung Electronics service center.
 - Otherwise there is a risk of fire.
- Do not let children step on a drawer.
 - The drawer may break and cause them to slip.
- Do not leave the doors of the refrigerator open while the refrigerator is unattended and do not let children enter the refrigerator.
- Do not allow babies or children to go into a drawer.
 - It can cause death from suffocation by entrapment or personal injury.
- Do not overfill the refrigerator with food.
 - When you open the door, an item may fall out and cause personal injury or material damage.
- 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 an electric shock, fire, or problems with the product.
- Never put fingers or any objects into the water dispenser outlet, ice chute, or ice maker bucket.
 - It may cause a personal injury or material damage.
- Do not use or place any substances sensitive to temperature such as flammable sprays, flammable objects, dry ice, medicine, or chemicals near or inside the refrigerator.
- Do not use a hair dryer to dry the inside of the refrigerator. Do not place a lighted candle in the refrigerator to remove bad odors.
 - This may result in an electric shock or fire.
- Fill the water tank and ice cube trays with potable water only (tap water, mineral water, or purified water).
 - Do not fill the tank with tea, juice, or a sports drink. They can damage the refrigerator.
- 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 an electric shock, fire, problems with the product, or injury. Do not put a container filled with water on the appliance.
 - If spilled, there is a risk of fire or electric shock.
- Never stare directly at the UV LED lamp for long periods of time.
 - This may result in eye strain due to the ultraviolet rays.
- Do not put a fridge shelf into the refrigerator upside down. The shelf stopper will not work.
 - The glass shelf could fall and cause personal injury.
- Keep fingers out of "pinch point" areas. Clearances between the doors and cabinet are necessarily small. Be careful when you open the doors if children are in the area.

- If a gas leak is detected, avoid any naked flames or potential sources of ignition, and air the room in which the appliance is standing for several minutes.
 - Do not touch the appliance or power cord.
 - Do not use a ventilating fan.
 - A spark may result in an explosion or fire.
- Use only the LED Lamps provided by the manufacturer or its service agents.
- Bottles should be stored tightly together so that they do not fall over or out.
- This product is intended only for the storage of food in a domestic environment.
- Never put fingers or any objects into the water dispenser outlet, ice chute, or ice maker bucket.
 - This can cause a personal injury or material damage.
- Do not attempt to repair, disassemble, or modify the refrigerator yourself.
 - Unauthorized modifications can cause safety problems. To reverse an unauthorized modification, we will charge the full cost of parts and labor.
- Do not use any fuse (such as cooper, steel wire, etc.) other than a standard fuse.
- If your refrigerator needs to be repaired or reinstalled, contact your nearest Samsung service center.
 - Failing to do so may result in an electric shock, fire, problems with the product, or injury.
- If the interior or exterior LED lamp has gone out, contact your nearest Samsung service center.
- If the refrigerator emits a burning smell or smoke, unplug the refrigerator immediately and contact a Samsung service center.
 - Failing to do so may result in an electric or fire hazards.
- Pull the power plug out of the socket before changing the interior lamps of the refrigerator.
 - Otherwise, there is a risk of electric shock.
- If you experience difficulty changing a non-LED light, contact a Samsung service center.
- If the product is equipped with LED lamps, do not disassemble the Lamp Covers and LED lamps yourself.
 - Contact a Samsung service center.
- Plug the power plug into the wall socket firmly.
- Do not use a damaged power plug, damaged power cord, or loose wall socket.
 - This may result in an electric shock or fire.

Safety information

Usage cautions

CAUTION

- Do not re-freeze frozen foods that have thawed completely.
- Use only the ice maker provided with the refrigerator.
- To get the best performance from the product:
 - Do not place food too close to the vents at the rear of the refrigerator as this can obstruct free air circulation in the refrigerator compartment.
 - Wrap food up properly or place it in airtight containers before putting it into the refrigerator.
 - Please observe maximum storage times and expiration dates of frozen goods.
- Do not put glass containers or bottles or carbonated beverages into the freezer.
 - The container may freeze and break, and this may result in injury.
- Service Warranty and Modification.
 - Any changes or modifications performed by a 3rd party on this finished appliance are not covered under Samsung warranty service, nor is Samsung responsible for safety issues that result from 3rd party modifications.
- Do not block the air vents inside the refrigerator.
 - If the air vents are blocked, especially with a plastic bag, the refrigerator can be overcooled. If a cooling period lasts too long, the water filter may break and cause water leakage.
- If the refrigerator is disconnected from the power supply, you should wait for at least five minutes before plugging it back in.
- If large amounts of water enter the refrigerator, pull out the power plug and contact a Samsung service center.
- Do not strike or apply excessive force to any glass surface.
 - Broken glass may result in a personal injury and/or property damage.
- Fill the water tank and ice cube trays with potable water only (tap water, mineral water, or purified water).
 - Do not fill the tank with tea, juice, or a sports drink. They can damage the refrigerator.
- If the refrigerator is flooded, shut off the power to the refrigerator and contact your nearest Samsung service center.
 - There is a risk of electric shock or fire.
- Do not keep vegetable oil in your refrigerator's door bins. The oil can solidify, making it foul-tasting and difficult to use. In addition, the open container can leak and the leaked oil can cause the door bin to crack. After opening an oil container, it is best to keep the container in a cool and shaded place such as a cupboard or pantry.
 - Examples of vegetable oil: olive oil, corn oil, grape-seed oil, etc.

Cleaning cautions

CAUTION

- Do not spray water directly on the inside or outside of the refrigerator.
 - There is a risk of fire or electric shock.
- Do not use a hair dryer to dry the inside of the refrigerator.
- Do not place a lighted candle in the refrigerator to remove bad odors.
 - This may result in an electric shock or fire.
- Do not spray cleaning products directly on the display.
 - Printed letters on the display may come off.
- If any foreign substance such as water has entered the appliance, unplug the power plug and contact your nearest Samsung service center.
 - Failing to do so may result in an electric shock or fire.
- Use a clean, dry cloth to remove any foreign matter or dust from the power plug blades. Do not use a wet or damp cloth when cleaning the plug.
 - Otherwise, there is a risk of fire or electric shock.
- Do not clean the appliance by spraying water directly onto it.
- Do not use benzene, thinner, or Clorox (bleach) to clean the refrigerator.
 - They may damage the surface of the appliance and may cause a fire.
- Never put fingers or any objects into the dispenser outlet.
 - This can cause a personal injury or material damage.
- Before cleaning or performing maintenance, unplug the appliance from the wall socket.
 - Failing to do so may result in an electric shock or fire.
- Use a clean sponge or soft cloth and a mild detergent in warm water to clean the refrigerator.
- Do not use abrasive or harsh cleansers such as window sprays, scouring cleansers, flammable fluids, muriatic acid, cleaning waxes, concentrated detergents, bleaches, or cleansers containing petroleum products on exterior surfaces (doors and cabinet), plastic parts, door and interior liners, and gaskets.
 - These can scratch or damage the material.
- Do not clean glass shelves or covers with warm water when they are cold. Glass shelves and covers may break if exposed to sudden temperature changes or impacts such as bumping or dropping.

Safety information

Critical disposal warnings

WARNING

- Children trapped inside a refrigerator can hurt themselves or suffocate to death.
- Please dispose of the packaging material from this product in an environmentally friendly manner.
- Ensure that none of the pipes on the back of the refrigerator are damaged prior to disposal.
- This product contains R-600a, a flammable gas, which is used as the refrigerant. Contact your local authorities regarding safe disposal of this product.
- When disposing of this refrigerator, remove the door/door seals and door latch so that small children or animals cannot become trapped inside. Children should be supervised to ensure that they do not play with the appliance.
 - If trapped inside, the child could be injured or suffocate to death.
- Cyclopentane is used in the insulation. The gases in the insulation material require a special disposal procedure. Please contact your local authorities in regard to the environmentally safe disposal of this product.
- 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 his or her head, the child could suffocate.

Installation

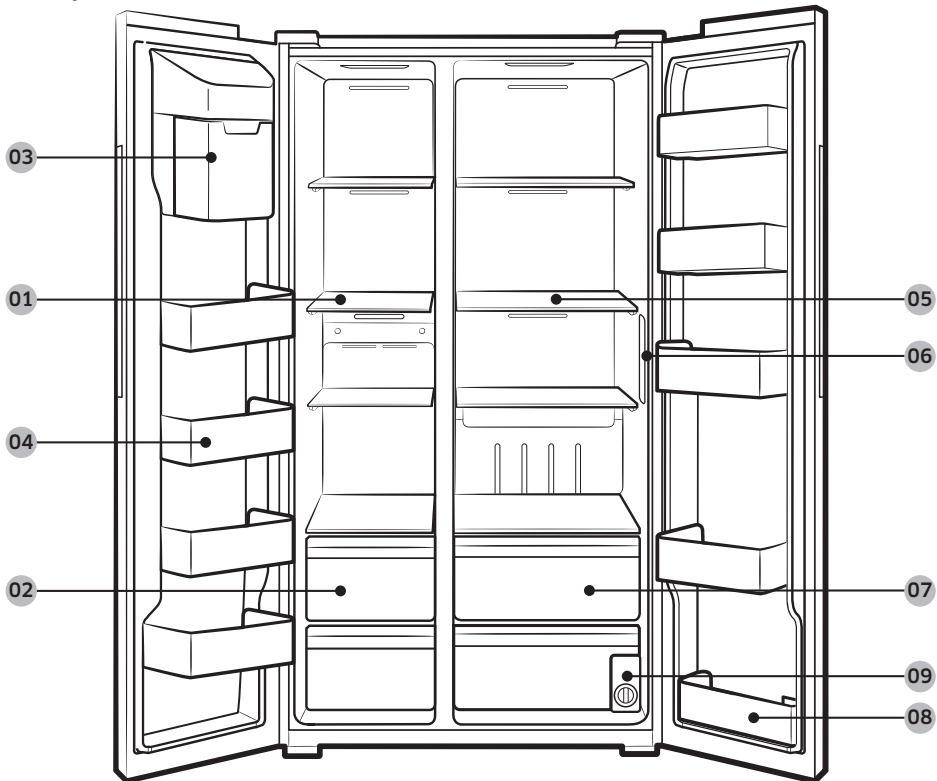
Follow these instructions carefully to ensure a proper installation of this refrigerator and to prevent accidents before using it.

WARNING

- Use the refrigerator only for its intended purpose as described in this manual.
- Any servicing must be performed by a qualified technician.
- Dispose of the product packaging material in compliance with the local regulations.
- To prevent electric shock, unplug the power cord before servicing or replacements.

Refrigerator at a glance

The actual appearance of your refrigerator may differ, depending on the model and the country.



Installation

- 01 Freezer shelves
- 02 Freezer drawer *
- 03 Auto IceMaker
- 04 Freezer door bins
- 05 Fridge shelves
- 06 Feature panel
- 07 Fridge drawer
- 08 Fridge door bin
- 09 Water filter **

* Applicable models only

NOTE

- The design of the egg container may differ with the model.

CAUTION

For normal models, do not change the position of the freezer shelves. Freezer shelves have different lengths, and if you change the position, you may damage the product when closing the door.

Step-by-step installation

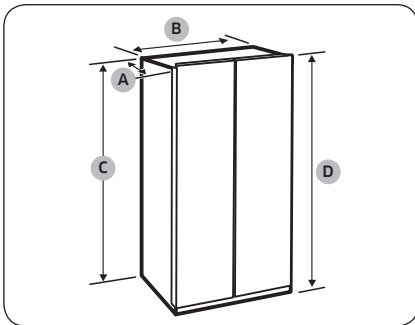
STEP 1 Select a site

Site requirements:

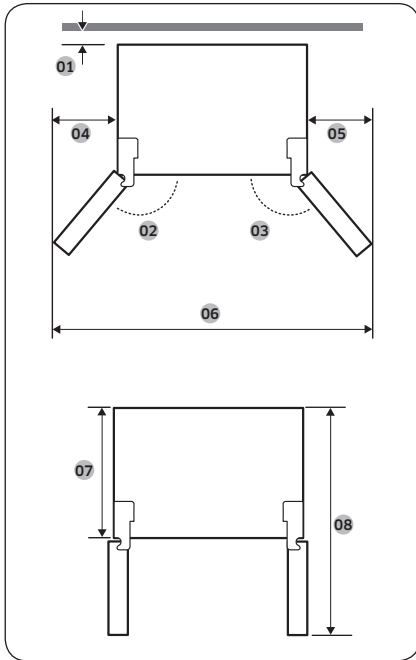
- Solid, level surface without carpeting or flooring that may obstruct ventilation
- Away from direct sunlight
- Adequate room for opening and closing the door
- Away from a heat source
- Room for maintenance and servicing
- Temperature range: between 50 °F (10 °C) and 109 °F (43 °C)

Clearance

See the pictures and table below for space requirements for installation.



	RS28*	RS23*
Depth "A"	33 1/2" (851 mm)	28 19/32" (726 mm)
Width "B"	35 7/8" (912 mm)	35 7/8" (912 mm)
Height "C"	68 5/8" (1744 mm)	68 5/8" (1744 mm)
Overall Height "D"	70 1/16" (1780 mm)	70 1/16" (1780 mm)



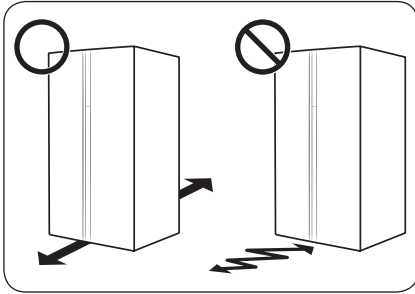
	RS28*	RS23*
01	more than 2" (50 mm) recommended	
02	165°	
03	170°	
04	14" (355 mm)	
05	18 21/32" (474 mm)	
06	68 5/32" (1731 mm)	
07	28 15/16" (735 mm)	24" (610 mm)
08	51" (1295 mm)	46 3/32" (1171 mm)

NOTE

The measurements in the above table may differ, depending on the measuring method.

Installation

STEP 2 Flooring



- The surface to install the refrigerator must support a fully loaded refrigerator.
- To protect the floor, put a large piece of cardboard on each leg of the refrigerator when you move it for installation.
- Once the refrigerator is in its final position, do not move it unless necessary to protect the floor. If you have to, use a thick paper or cloth such as old carpets along the movement path.

NOTE

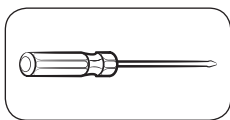
If the refrigerator cannot pass through the entrance due to its size, see the **Door removal for entrance** section.

STEP 3 Door removal for entrance

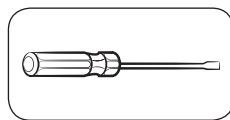
If the refrigerator cannot pass through the entrance due to its size, follow these instructions:

Tools required (not provided)

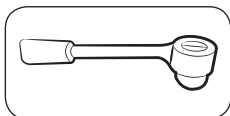
These tools are used for removing the doors.



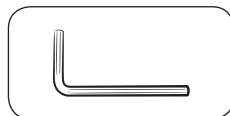
Phillips screwdriver



Flat-head screwdriver

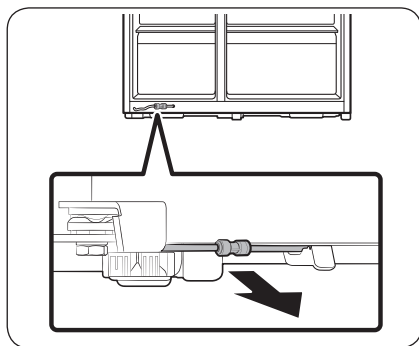


Socket spanner (3/8" (10 mm))



Allen spanner (1/4" (5 mm))

Disconnect the water line

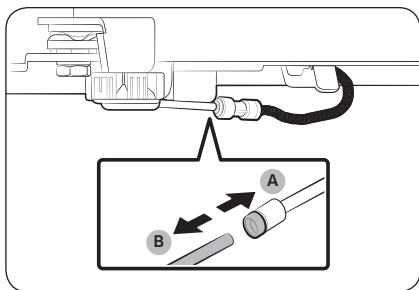


1. From the bottom rear side of the refrigerator, pull out the water line to the front.

NOTE

The refrigerator's water line is a water circulation line that connects between the water pipe from the water source and the hoses from the water filtering system of the refrigerator.

Installation



2. To disconnect the hoses, press and hold the **transparent coupler (A)** and detach the **water hose (B)**.

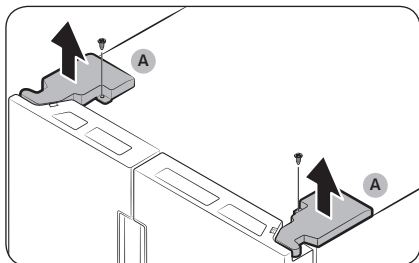
! CAUTION

Do not apply excessive force to the coupler. It may break.

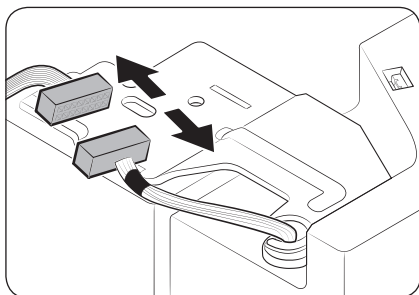
Detach the doors

! CAUTION

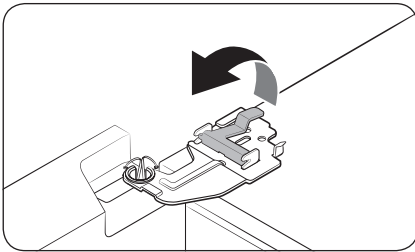
The door may fall off or over and damage itself during any of these steps. To prevent an accident, use extreme caution when performing these steps.



1. Use a Phillips screwdriver to unscrew the **hinge covers (A)** on the top of each door.
2. Open the doors to loosen the hinges and remove the hinge covers. Once the covers are removed, close the doors.



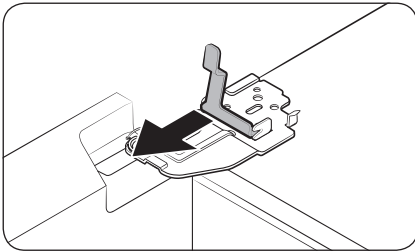
3. Disconnect the electrical harness.



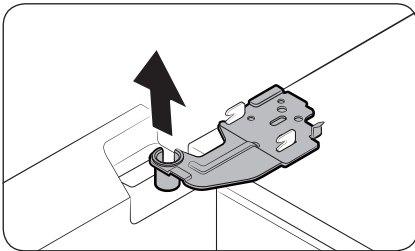
4. Gently lift the clamp.

NOTE

To prevent damage to the clamp or injuries, do not lift the clamp forcefully.



5. Pull the clamp to remove.



6. Open the door by 90 degrees. While holding the door, remove the hinge.

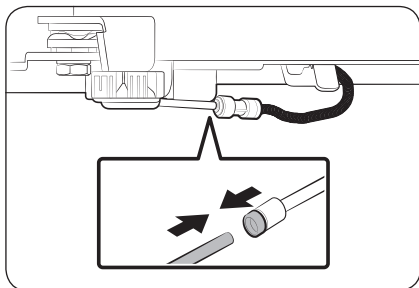
CAUTION

If you remove the hinge without holding the door, the door may fall and cause injury.

Installation

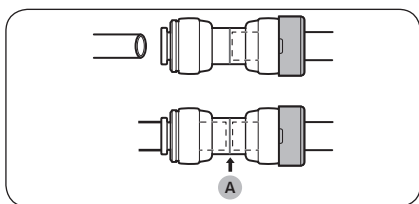
Reconnect the water hoses

Once the refrigerator has passed through the entrance, reconnect the water hoses.



⚠ CAUTION

- To prevent water leaks, each water hose must be inserted fully to the centre of the transparent coupler.
- After reconnecting the water hoses, push them under the cabinet and arrange them on the hook.



A. Centre of transparent coupler

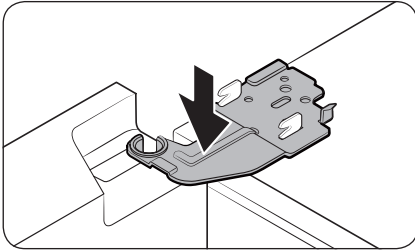
Reattach the doors

⚠ CAUTION

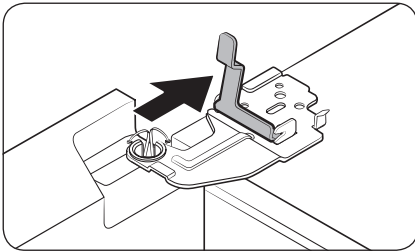
- Before reattaching the doors, make sure all the electrical connectors are properly connected.
- The freezer door must be reattached before the fridge door.



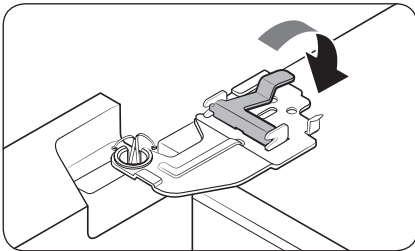
- 1.** Hold the freezer door and hook to the hinge at the bottom of the refrigerator.



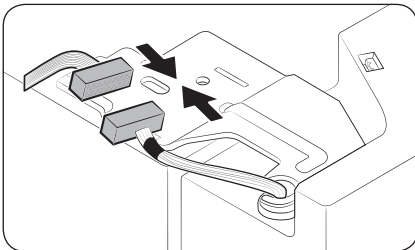
2. Put the hinge into its position, and then insert it into the hole on the door.



3. Insert the clamp in the arrow direction.

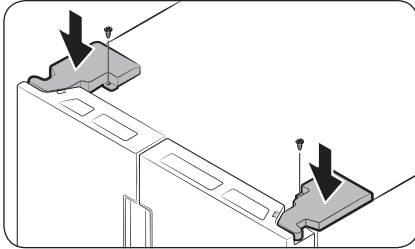


4. Press the clamp as shown.



5. Connect the electrical harness.

Installation



6. Insert the hinge covers with the front sides first, and then tighten the screws. Use a Phillips screwdriver for this step.

To reattach the fridge door

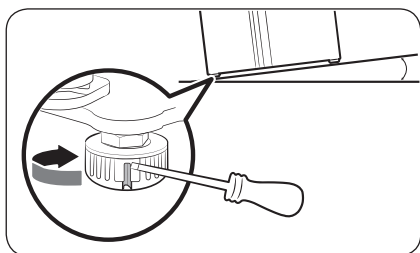
After you have moved the refrigerator to its final location, reattach the doors by following the removal instructions in reverse order.

STEP 4 Adjust the leveling feet

CAUTION

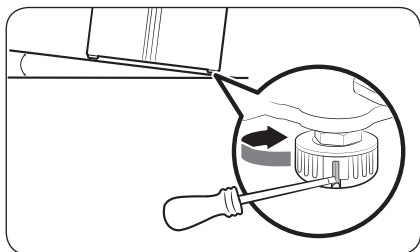
- The refrigerator must be leveled on a flat, solid floor. Failing to do so can cause damage to the refrigerator or physical injury.
- Leveling must be performed with an empty refrigerator. Make sure no food items remain inside the refrigerator.
- For safety reasons, adjust the front side a little higher than the rear side.

The refrigerator can be leveled using the front legs that have a special screw (leveler) for leveling purposes. Use a flat-head screwdriver for leveling.



To adjust the height of the freezer side:

Insert a flat-head screwdriver into the leveler of the freezer-side front leg. Turn the leveler clockwise to raise, or turn it counter clockwise to lower.



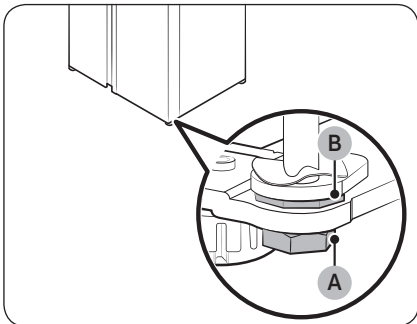
To adjust the height of the fridge side:

Insert a flat-head screwdriver into the leveler of the fridge-side front leg. Turn the leveler clockwise to raise, or turn it counter clockwise to lower.

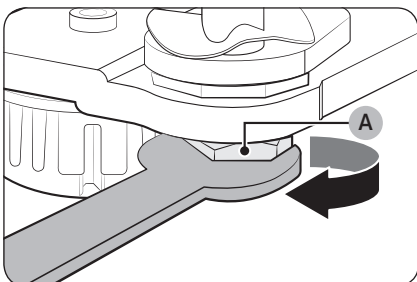
Installation

STEP 5 Adjust the door height

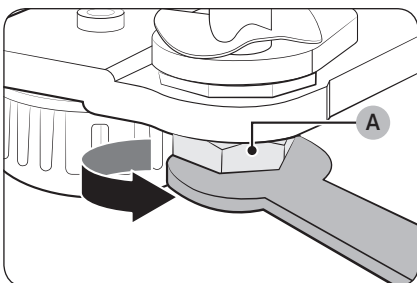
The height of a fridge door can be adjusted using the clamp nut and the height nut on the front bottom of each door.



1. Open the door to adjust, and locate the two nuts (A) and (B) on the front bottom of the door.



2. With a 19 mm spanner, turn the **clamp nut (A)** clockwise to loosen. Then, open the door, and do the following inside the door.
 - To raise the door, turn the **height nut (B)** counter clockwise.
 - To lower the door, turn the **height nut (B)** clockwise.



3. When complete, tighten the clamp nut (A) by turning it counter clockwise.



STEP 6 Connect the water dispenser line

A water dispenser with a filter is one of the helpful features on your new refrigerator. To help promote better health, the water filter removes unwanted particles from your water. However, it does not sterilize or destroy microorganisms. You may need to purchase a water purifying system to do that.

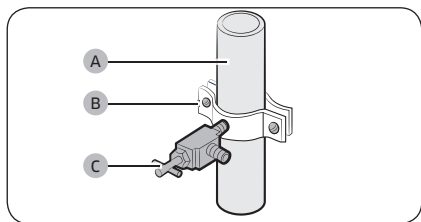
The water line also connects to the ice maker. For the ice maker to operate properly, water pressure of 30 to 120 psi (206 to 827 kPa) is required.

If the refrigerator is installed in an area with low water pressure (below 30 psi / 206 kPa), you can install a booster pump to compensate for the low pressure.

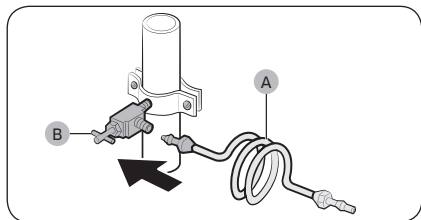
After you have connected the water line, make sure the water storage tank inside the refrigerator is properly filled. To do this, press the water dispenser lever until water runs from the water outlet.

NOTE

- Water line installation kits are available at extra cost from your retailer. We recommend using a water line installation kit that contains copper tubing and a $\frac{1}{4}$ " (6 mm) compression nut.



1. Shut off the main water source.
2. Insert the pipe clamp (B) and the shutoff valve (C) into the cold water line (A).



3. Connect the water line installation kit (A) to the shutoff valve (B).



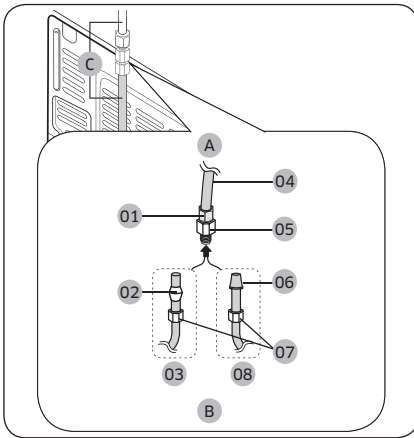
Installation

Connect the water supply line to the refrigerator

There are several items you must purchase to complete this connection. You may find these items sold as a kit at your local hardware store.

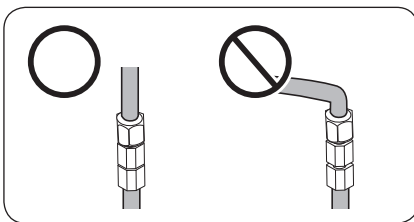
Copper Tubing	<ul style="list-style-type: none">• 1/4" copper tubing• 1/4" compression nut (1 pc)• Ferrule (2 pc)
Plastic Tubing	<ul style="list-style-type: none">• 1/4" plastic tubing → Molded end (Bulb)• 1/4" compression nut (1 pc)

Installation



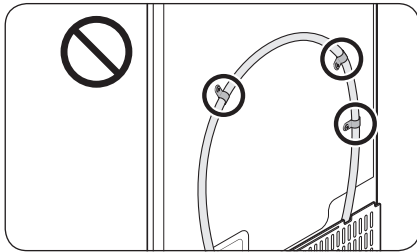
- A. Refrigerator
- B. Household water supply line
- C. Water Line: must be kept straight.

- 01 Compression Nut (1/4") (Assembled)
- 02 Ferrule (Not supplied)
- 03 Copper tubing (Not supplied)
- 04 Plastic Tubing (Assembled)
- 05 Compression Fitting (Assembled)
- 06 Molded end (Bulb)
- 07 Compression nut (B) (1/4") (Not supplied)
- 08 Plastic Tubing (A) (Not supplied)



NOTE

If you have to relocate the refrigerator after connecting the **water line (C)**, make sure the joined section of the water line is straight.



CAUTION

Do not mount the water filter on any part of the refrigerator. This may damage the refrigerator.

1. Connect the household water line to the assembled compression fitting.
 - If you are using copper tubing, slip the **compression nut (B)** (not supplied) and **ferrule** (not supplied) on the copper tubing (not supplied) as shown.
 - If you are using **plastic tubing (A)**, insert the molded end (Bulb) of the **plastic tubing (A)** into the compression fitting.

CAUTION

- If you use **plastic tubing (A)**, do not use it without the molded end (Bulb).
 - Leaving the water line disconnected may cause the water valve to produce a buzzing sound over time. If this is the case, make sure that the ice making function is turned "OFF".
2. Tighten the **compression nut (B)** onto the **compression fitting**. Do not over-tighten the **compression nut (B)**.
 3. Turn the water on and check for any leakage. If you find water drops or leakage in the connection areas, turn off the main water supply. Check the connections and, if necessary, tighten.
 4. After you turn on the refrigerator, let the ice maker make ice for 1 to 2 days. Over that period of time, throw out the first 1 or 2 buckets of ice the ice maker makes to ensure all impurities have been removed from the water line.

NOTE

Only connect the water line to a potable water source.

- If you have to repair or disassemble the water line, cut off $\frac{1}{4}$ " of the plastic tubing to make sure you get a snug, leak-free connection.

Installation

STEP 7 Initial settings

By completing the following steps, the refrigerator should be fully functioning.

1. Plug the power cord into the wall socket to turn the refrigerator on.
2. Open the door, and check if the interior light lights up.
3. Set the temperature to the coldest, and wait for about an hour. Then, the freezer will be slightly chilled, and the motor will run smoothly.
4. Wait until the refrigerator reaches the set temperature. Now the refrigerator is ready for use.

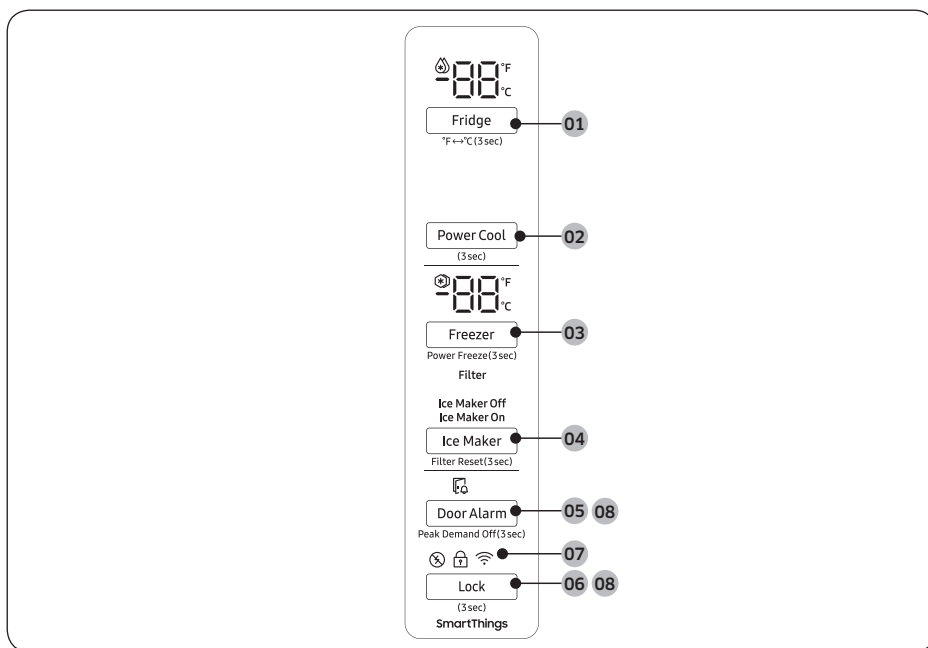
STEP 8 Final check

When installation is complete, confirm that:

- The refrigerator is plugged into an electrical outlet and grounded properly.
- The refrigerator is installed on a flat, level surface with a reasonable clearance from the wall or the cabinet.
- The refrigerator is level and is sitting firmly on the floor.
- The door opens and closes freely, and the interior light turns on automatically when you open the door.

Operations

Feature panel



01 Fridge / °F ↔ °C

02 Power Cool

03 Freezer / Power Freeze

04 Ice Maker / Filter Reset

05 Door Alarm / Peak Demand Off

06 Lock

07 Network connection

08 Sabbath Mode

NOTE

- When you change the temperature on the panel, the panel displays the actual temperature inside the refrigerator until the temperature matches the temperature you set. Then, the panel displays the new set temperature. Note that it will take time for the refrigerator to reach the new temperature. This is normal. During this time, you do not need to set the temperature again.
- To ensure optimal performance, we recommend setting the temperature to 0 °F (-18 °C) for the freezer, and 37 °F (3 °C) for the fridge.
- The temperature in the refrigerator may rise if you open the door frequently or put a large amount of food into the refrigerator. If this happens, the temperature display blinks until the refrigerator returns to the specified temperature settings.

Operations

- If a communication error occurs between the temperature display and the main controller, this blinking continues for an extended time. Contact a local Samsung service center for technical assistance.
- The display of the main panel turns on only if the door is opened and turns off if the door is closed.
- If you set Control Lock on the main panel, the main panel locks automatically 1 minute after inactivity.

01 Fridge / °F ↔ °C (3 sec)

Fridge	You can use the Fridge button to set the fridge temperature. <ul style="list-style-type: none">• Press Fridge repeatedly to select a desired temperature between 34 °F (1 °C) and 44 °F (7 °C).<ul style="list-style-type: none">- The temperature indicator displays the currently set or selected temperature.
°F ↔ °C	You can also use the Fridge button to switch the temperature scale between Celsius and Fahrenheit. To switch the temperature scale, press and hold Fridge for 3 seconds to change the current temperature scale.

02 Power Cool (3 sec)

Power Cool speeds up the cooling process at maximum fan speed.

This is useful to quickly cool food that spoils quickly, or after the door is left open for some time. The fridge keeps running at full speed for several hours and then returns to the previous temperature. Press and hold **Power Cool** for 3 seconds.

03 Freezer / Power Freeze (3 sec)

Freezer	You can use the Freezer button to set the freezer temperature. <ul style="list-style-type: none">• Press Freezer repeatedly to select a desired temperature between 5 °F (-15 °C) and -8 °F (-23 °C).<ul style="list-style-type: none">- The temperature indicator displays the currently set or selected temperature.
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Power Freeze	<p>Power Freeze speeds up the freezing process at maximum fan speed. The freezer keeps running at full speed for 50 hours and then returns to the previous temperature.</p> <ul style="list-style-type: none"> • To activate Power Freeze, press and hold Freezer for 3 seconds. The corresponding indicator (❄️) lights up, and the refrigerator will speed up the freezing process for you. • To deactivate, press and hold Freezer for 3 seconds again. The freezer returns to the previous temperature setting. • To freeze large amounts of food, activate Power Freeze for at least 20 hours before putting food in the freezer. <p>NOTE</p> <p>Using Power Freeze increases power consumption. Make sure you turn it off and return to the previous temperature if you do not intend to use it.</p>
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04 Ice Maker / Filter Reset (3 sec)

Ice Maker	<p>Press Ice Maker to turn the ice maker on or off. The ice maker has 2 indicators (Ice Maker On / Ice Maker Off) to indicate its operating status.</p> <ul style="list-style-type: none"> • When the ice maker operates, the corresponding indicator (Ice Maker On) turns on. • When the ice maker is turned off, the corresponding indicator (Ice Maker Off) turns on. To enable ice making, you must turn the ice maker on.
Filter Reset	<p>After about 6 months (and typically, about 300 gallons (1200 L) of water), the Filter indicator blinks red for several seconds when you open the door, reminding you that the filter needs to be replaced.</p> <p>When this happens, replace the filter, and then press and hold Filter Reset for 3 seconds. The filter lifecycle will be reset and the Filter indicator turns off.</p> <p>NOTE</p> <ul style="list-style-type: none"> • Some regions have relatively large amounts of lime in their water. This can reduce the lifecycle of the filter. In these areas, you will have to replace the water filter more often than specified above. • If water is not dispensing properly, the water filter is most likely clogged. Replace the water filter.



Operations

05 Door Alarm / Peak Demand Off (3 sec)

Door Alarm	If the door is left open for more than 2 minutes, an alarm will sound and the alarm indicator will blink. You can toggle the alarm on and off by pressing Door Alarm . The alarm is enabled by factory default. If the door is left open for 5 minutes, internal light (in the fridge, freezer) will blink for 5 minutes and turn off. This is for alerting the hearing-impaired person, and it is normal.
Peak Demand Off	The Peak Demand Off function activates/deactivates Smart Grid. Press Door Alarm for 3 seconds to set/clear the Peak Demand Off function.

06 Lock (3 sec)

To prevent accidental setting changes, press and hold **Lock** for 3 seconds. The main panel will be disabled and the Lock indicator (🔒) will turn on.

When Lock is on, the indicator blinks if any button on the main panel is pressed. If you press and hold the button again for more than 3 seconds, Lock will be deactivated. However, Lock will be reactivated if no button is pressed within 1 minute.

07 Network connection

You can control and monitor your refrigerator on the SmartThings app. For more information, see the **SmartThings** section.

08 Sabbath Mode

The Sabbath mode stays active for 85 hours once it is activated. After that, it will be deactivated automatically.

- To activate, press and hold **Door Alarm** and **Lock** simultaneously for 5 seconds to enter Sabbath mode. Then the refrigerator operates in Sabbath mode where the buttons, the display, and the room lamps are all under control.
- To deactivate, press and hold the buttons again for 5 seconds to exit Sabbath mode.

NOTE

Even after the refrigerator powers off and restarts, the Sabbath mode remains active. To exit, you must deactivate it first.

09 Cooling Off

Cooling Off mode (also called Shop mode) is designed for use by retailers when they are displaying refrigerators on a retail floor.

In Cooling Off mode, the refrigerator's fan motor and lights operate normally, but the compressors do not run so that neither the refrigerator nor the freezer run the cooling process.

To enter or exit the Cooling Off mode, press and hold **Fridge** and **Power Cool** simultaneously for 6 seconds. Then, when the display blinks, press **Lock**.

When the Cooling Off mode is on, the refrigerator chime sounds, and the refrigerator shows "0" on the fridge temperature display and "FF" on the freezer temperature display.

SmartThings

Installation

Visit the Google Play Store, Galaxy Apps, or Apple App Store and search for “SmartThings”. Download and install the SmartThings app provided by Samsung Electronics to your smart device.

NOTE

- The SmartThings app is not available for some tablet and iPad and some smartphone.
 - Support that [Android] OS 6.0 or higher. (minimum 2 GB RAM Size)
 - Support that [iOS] 10.0 or higher/iPhone 6 or higher.
- For improved performance, the SmartThings app is subject to change without notice or discontinued support according to the manufacturer’s policy.
- Recommended encryption systems include WPA/TKIP and WPA2/AES. Any newer or non-standard Wi-Fi authentication protocols are not supported.
- Wireless networks may be affected by the surrounding wireless communication environment.
- If your Internet service provider has registered the MAC address of your PC or modem for identification, your Samsung Smart Refrigerator may fail to connect to the Internet. If this happens, contact your Internet service provider for technical assistance.
- The firewall settings of your network system may prevent your Samsung Smart Refrigerator from accessing the Internet. Contact your Internet service provider for technical assistance. If this symptom continues, contact a local Samsung service center or retailer.
- To configure the wireless access point (AP) settings, see the user manual of the AP (router).
- Samsung Smart Refrigerators support IEEE 802.11 b/g/n (2.4 GHz) protocols. (IEEE 802.11 n is recommended.)
- Unauthorized Wi-Fi wireless routers may fail to connect to applicable Samsung Smart Refrigerators.

Operations

Samsung account

You are required to register your Samsung account to use the app. If you don't have a Samsung account, follow the app's onscreen instructions to create a free Samsung account.

Getting started

Turn on the device you want to connect, open the SmartThings app on your phone, and then follow the instructions below.

If a pop-up appears saying that a new device has been found, tap **ADD NOW**.

If a pop-up doesn't appear, tap the **+** button, and then select the device you want to connect from the list of available devices.

If your device isn't in the list of available devices, tap **Supported Devices**, select the device type (Refrigerator), and then select the specific device model.

Follow the instructions in the app to set up your device. Once setup is complete, your refrigerator will appear as a "card" on your **Devices** screen.

Refrigerator app

Integrated control

You can monitor and control your refrigerator at home and on the go.

- Tap the refrigerator icon on the SmartThings Dashboard or tap the Devices icon at the bottom of the Dashboard, and then tap the refrigerator "card" to open the Refrigerator page.
- Check the operation status or notifications related to your refrigerator, and then change options or settings if necessary.

NOTE

Some options or settings of the refrigerator may not be available for remote control.

Refrigerator settings

Category	Item	Description
Monitoring	Fridge temperature	Displays the desired temperature setting of the fridge.
	Freezer temperature	Displays the current temperature of the freezer.
	Diagnosis	Detects abnormal operations of the refrigerator.
	Energy monitoring	Checks the accumulated power consumption of the refrigerator for the last 180 days.
Functions	Ice making	You can turn the ice making function on or off, and check the current settings of the function.
		You can also check the status and progress of ice making.
	Power Cool	You can turn Power Cool on or off, and check the current settings.
	Power Freeze	You can turn Power Freeze on or off, and check the current settings.
	Fridge temperature	You can set the desired temperature of the fridge.
	Freezer temperature	You can set the desired temperature of the freezer.
	Sabbath Mode	You can activate and deactivate the Sabbath mode.
Alarms	Abnormally high temperature	This alarm is triggered when the fridge or the freezer has abnormally high temperatures.
	Door opening	This alarm is triggered if the fridge door or the freezer drawer is open for a specific time.
	Water filter replacement	This alarm reminds you that the water filter must be replaced.

Operations

SMART GRID Function (Demand Response) (applicable models only)

When the refrigerator operates in SMART GRID (Demand Response) mode, the Energy Management Refrigerator function can control energy usage or delay the operation of some functions to save money when energy prices or demand are the highest.

NOTE

- You can deactivate the SMART GRID (Demand Response) function at any time using the Peak Demand Off function.
- To use the SMART GRID (Demand Response) function, you need a separate contract with your electric utility company.

In addition, to use the Smart Grid (Demand Response) function, you must register for the service with your electric company. The company must have an EMS (Energy Management System) that supports SEP (Smart Energy profile).

Using the SMART GRID (Demand Response) Function

This feature monitors energy prices and demand information from your utility company and sends notifications to the refrigerator to run high energy consuming tasks during off-peak times when electricity costs and demand are lower.

If the refrigerator receives a control signal from the utility company, the refrigerator will display the **DAL** (L3) ~ **TALR** (L4) levels on the refrigerator display and control the power consumption according to the level.

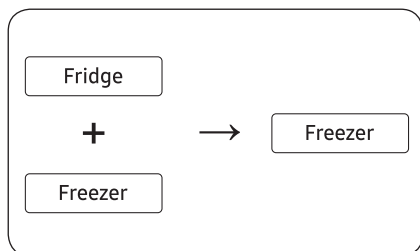
[Exception condition] The **DAL** and **TALR** control signals from a utility company work as long as product performance is maintained.

If the refrigerator receives the SMART GRID (Demand Response) signal (**DAL** or **TALR**), the refrigerator will operate in Delay Appliance Load (Display:L3) or Temporary Appliance Load Reduction (Display:L4) mode.

- Delay Appliance Load (L3): The refrigerator responds to a **DAL** signal by providing a moderate load reduction for the duration of the delay period. This function controls functions that consume a lot of energy such as adjusting the Cooling system, running the defrost cycle, and making ice.
 - When the refrigerator operates in **DAL** (L3) mode, "L3" is displayed on the refrigerator display.
 - **DAL** mode is automatically deactivated after it lasts for the amount of time stipulated by the **DAL** signal (max. 4.5 hours) or when the Peak Demand Off key is pressed.
- Temporary Appliance Load Reduction (L4): The refrigerator responds to a **TALR** signal by aggressively reducing the load for a short time period. This function reduces energy consumption by stopping the compressor and controlling the functions that consume a lot of energy such as the defrost cycle and making ice.
 - When the refrigerator operates in **TALR** (L4) mode, "L4" is displayed on the refrigerator display.
 - **TALR** (L4) mode is automatically deactivated after it lasts for the received duration (max. 15 minutes), or when the Peak Demand Off key is pressed. The mode is immediately deactivated and the refrigerator returns to the normal state when the door is opened or closed, or the dispenser is used.



To check the MAC address



1. In this mode, the MAC address appears on the temperature panel (on both the freezer and the fridge sections of the panel) sequentially for 1 minute. Press and hold both **Freezer** and **Fridge** for 6 seconds. The temperature panel blinks. Then, press **Freezer** again to display the MAC address. The fridge beeps.
2. For example, if the MAC address is "11-22-33-44-55-66", the temperature panel displays the address for 1 minute in this sequence: "-- / --" → "11 / 22" → "33 / 44" → "55 / 66" → "-- / --". After the 1 minute, the MAC address disappears and the temperature panel returns to the normal state.

NOTE

The temperature panel displays "-- / --" for an unknown MAC address or if a Wi-Fi connection is not established or is lost.

Peak Demand Off (Override mode)

When you want the refrigerator to ignore the SMART GRID (Demand Response) signal from the utility company, you can activate Peak Demand Off (Override mode).

When you activate Peak Demand Off (Override mode), the refrigerator ignores the SMART GRID (Demand Response) signal and is not controlled by the utility company.

Activating and deactivating Peak Demand Off (Override mode)

1. Press and hold **Door Alarm** for 3 seconds.
2. A buzzer sounds and 'Or' and 'on' is displayed in the freezer and fridge temperature displays for 5 seconds. Then the Peak Demand Off (Override mode) icon (⊗) turns on.
3. If the refrigerator receives a SMART GRID (Demand Response) signal from the utility company, 'Or' is displayed in the freezer temperature display.
4. To deactivate Peak Demand Off (Override mode), press and hold **Door Alarm** for 3 seconds.
5. A buzzer sounds and 'Or' and 'oF' is displayed in the freezer and fridge temperature displays for 5 seconds. Then the Peak Demand Off (Override mode) icon (⊗) turns off.

NOTE

- Alternatively, you can activate or deactivate Peak Demand Off (Override mode) using the SmartThings app and the Energy Management function. See the next page.



Operations

Using the Energy Management Function

The Energy Management function enables you to control and monitor your Energy Management refrigerator using the SmartThings app for your convenience.

NOTE

- To use the Energy Management refrigerator functions, you have to install the corresponding app first.
1. Operational Status
 - You can check the DR and Peak Demand Off (Override mode) status.
 2. Energy Consumption Reporting
 - Shows the accumulated power consumption. Power consumption data is updated every 10 minutes.

NOTE

The energy consumption report may differ from the power consumption specifications of the product depending on the operating environment and the stored food.

3. Delay Defrost Capability
 - The Delay Defrost Capability function saves energy by delaying the defrost operation to a time specified by the user. You can configure the time. And this function will save energy during the specified period in a 24 hour cycle. If the time is not set, the function works with the default time settings. The default time settings are below:
 - 6 am to 10 am: 1st. November ~ 30th. April
 - 3 pm to 7 pm: 1st. May ~ 31th. October

To change the time setting for the Delay Defrost Capability

You can change the time setting for the Delay Defrost Capability on the app.

Provision for Open Access to the Connected Product Requirements

1. SGIP Open Standards (Smart Energy Profile 2.0 - <http://www.csep.org/>)
 - Energy Consumption Reporting
 - Demand Response
2. Samsung OPEN API
 - Operational Status, User Settings & Messages
 - ICE Maker Status: GET /icemaker/status/vs/0
 - Door Open Alarm: GET /doors/vs/0
 - DR Status: GET /drlc/vs/0
 - Delay Defrost Capability
 - Set Schedule of the Defrost Delay: POST /defrost/reservation/vs/0?op=add
 - Get Schedule of the Defrost Delay : GET /defrost/reservation/vs/0
 - Delete Schedule of the Defrost Delay: POST /defrost/reservation/vs/0?op=remove
 - Defrost Delay On/OFF: POST /defrost/delay/vs/0

Special features

Auto ice maker

The refrigerator has a built-in ice maker that automatically dispenses ice so that you can enjoy filtered cubed ice.

Ice making

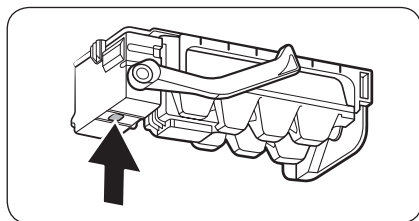
After you have installed your refrigerator and plugged it in, follow these instructions to ensure proper ice making and to keep the ice bucket full of ice:

1. Let the refrigerator operate for at least 24 hours to ensure optimal performance.
2. Dispense the first 4 to 6 ice cubes into a glass.
3. Wait another 8 hours and dispense another 4 to 6 ice cubes.
4. Then, wait another 16 hours and dispense the first glass-full of ice.

NOTE

- If you consume all the ice at once, you must wait 8 hours before dispensing the first 4 to 6 cubes. This ensures that the ice bucket is filled with ice properly.
- Ice cubes generated rapidly may look white, which is normal.

Diagnosis



If ice does not dispense, first check the ice maker.

1. Press **Test** on the bottom of the ice maker. You will hear a chime (ding-dong) when you press the button.
2. You will hear another chime if the ice maker is operating properly.

CAUTION

- If the ice making chime rings repeatedly, contact your waterline installer or a local Samsung service center.
- Do not press **Test** repeatedly after the ice tray is filled with ice or water. Water may overflow or ice may jam.
- Do not put food in the ice bucket. The frozen food may damage the ice maker, especially when you open or close the door.
- When the refrigerator recovers power after a power failure, the ice bucket may contain a mix of melted and jammed ice cubes, which can prevent the ice maker from working properly. To prevent this, make sure to empty the ice bucket so the ice bucket can refill with fresh, loose ice cubes.
- Do not put fingers or any objects into the ice maker. This can cause physical injury or property damage.
- When reinserting the ice maker tray, make sure that the tray is properly centered at the entrance. Otherwise, the tray can get stuck.

Operations

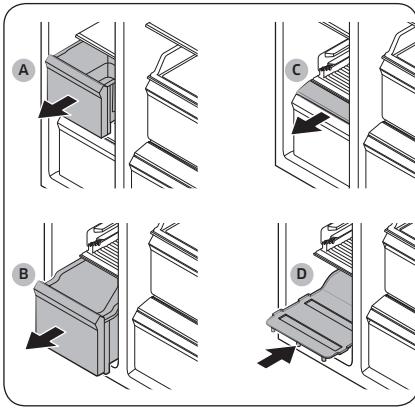
If You Turn the Ice Maker Off

If you press **Ice Maker** to turn the ice maker off, make sure to remove all ice cubes from the ice bucket. Remaining ice cubes may clump together, making it difficult to remove them.

Water clouding

Water supplied to the refrigerator flows through a core alkaline filter. During this filtering process, the water pressure of the water increases and the water becomes saturated with oxygen and nitrogen. This causes the water to look misty or cloudy temporarily when dispensed. This is normal and the water will look clear after a few seconds.

To secure more storage space (applicable models only)



To secure more space, remove the **upper drawer (A)**, **lower drawer (B)**, and **lower drawer cover (C)**. Then, insert the provided **bottom shelf (D)**.

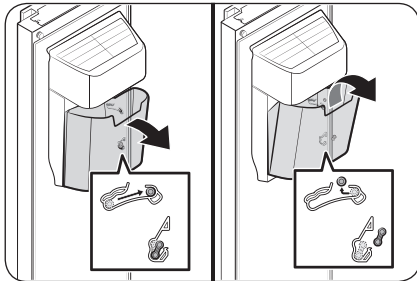
NOTE

- Removing the drawers does not affect the temperature or usage of the freezer.
- The declared freezer volume is measured with the bottom shelf, after removing the upper drawer, lower drawer, and lower drawer cover.

Maintenance

Handle and care

Auto Icemaker



To remove the ice from the Auto Icemaker, pull the ice bucket.

1. Unlock the ice bucket by pulling it out to the front. While holding it with both hands, tilt it back slightly, and then lift up to remove.
2. Press and hold **Ice Maker** for 3 seconds to reset the ice maker.

NOTE

- Not using ice for long period, remove the remaining ice and empty the ice bucket.
- The first batch of ice cubes may be small due to air in the pipe after connection. Any air will be purged during normal use.

CAUTION

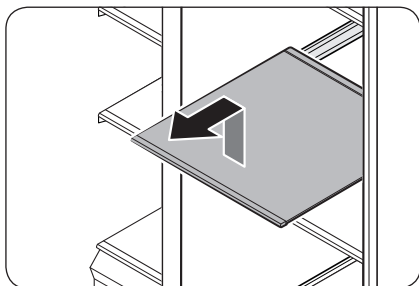
- Do not apply excessive force to the bucket cover. The cover may break.
- Do not close the door hard. Water may spill over the ice maker.
- To prevent injury, make sure to clean up any ice or water that has fallen on the floor.
- To prevent accidents or injury, do not let children play with the ice maker.

NOTE

- Any sound from the ice maker is normal, which outputs during the ice making process.
- While the door is open, the ice maker operates.
- If the Ice Maker On indicator blinks, remove and reinsert the ice bucket. Make sure it is reinserted properly.

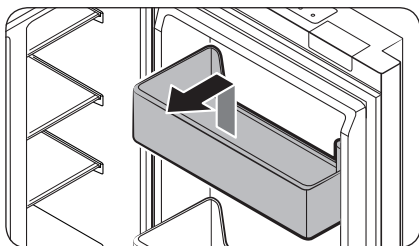
Maintenance

Shelves (fridge/freezer)



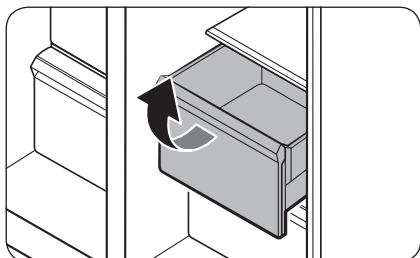
Pull the shelf out as far as it goes. Then lift it up and remove it.

Door bins

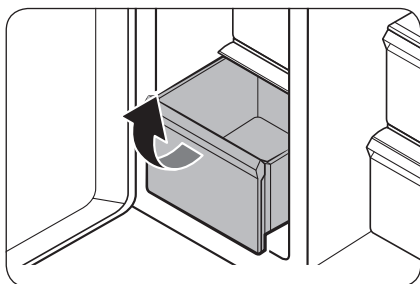


To remove a door bins, hold the front sides of the bin and gently lift up to remove.

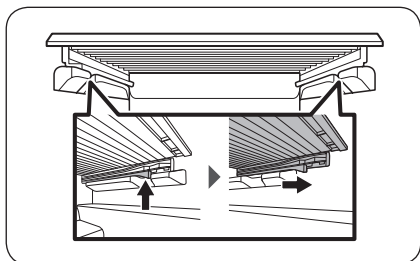
Drawers



To remove, pull the drawers out as far as they go, and then lift up slightly and pull.



Drawer cover



While pushing the left and right hooks underneath the drawer cover, pull the drawer cover to remove.

Maintenance

Cleaning

Interior and exterior

WARNING

- Do not use benzene, thinner, or home/car detergent such as Clorox™ for cleaning purposes. They may damage the surface of the refrigerator and cause a fire.
- Do not spray water onto the refrigerator. This may cause electric shock.

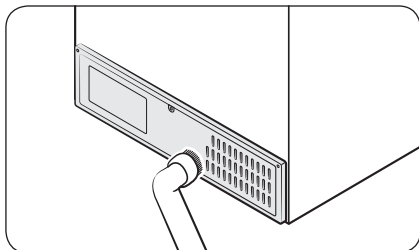
Regularly use a dry cloth to remove all foreign substances such as dust or water from the power plug terminals and contact points.

1. Unplug the power cord.
2. Use a moistened, soft, lint-free cloth or paper towel to clean the refrigerator's interior and exterior.
3. When done, use a dry cloth or paper towel to dry well.
4. Plug in the power cord.

Rubber seals

If the rubber seals of a door become dirty, the door may not close properly and reducing refrigerator performance and efficiency. Use a mild detergent and damp cloth to clean the rubber seals. Then, dry well with a cloth.

Rear panel



To keep cords and exposed parts of the rear panel free of dirt, vacuum the panel once or twice a year.

CAUTION

Do not remove the rear panel cover. Electric shock may occur.

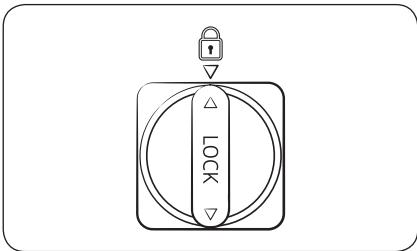
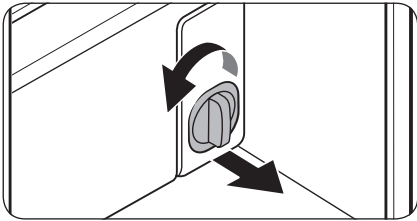
Replacement

Water filter

WARNING

- Do not use third-party water filters. Use only Samsung-provided or -approved filters.
- Unapproved filters may leak and damage the refrigerator, causing electric shock. Samsung is not responsible for any damage that may occur from use of third-party water filters.

The Filter Reset indicator (**Filter**) turns red to let you know it is time to replace the water filter. Before replacing the filter, make sure the water supply line is shut off.



1. Shut off the water supply line.
2. Turn the knob of the filter cartridge 90 degrees counterclockwise (1/4 turn). The filter cartridge unlocks.
3. Pull out to remove the cartridge.
 - If the water filter is severely contaminated, the cartridge may not be easy to remove. If that is the case, use force to remove the cartridge.
 - To prevent water leaks from the filter opening, pull the cartridge straight out while removing it.
4. Insert a new filter cartridge. Use only Samsung-provided or approved filters.
5. Turn the cartridge knob clockwise to lock into place.
6. Press and hold **Ice Maker** on the main panel for 3 seconds to reset the life cycle detector. The Filter Reset indicator (**Filter**) turns off.
7. When you are done replacing the filter, open the water valve and run water through the dispenser for about 7 minutes. This is to remove impurities and air from the water line.

Maintenance

Reverse osmosis water filtration system

The water pressure of the water supply system to a reverse osmosis water filtration system must be between 30 to 120 psi (206 to 827 kPa).

The water pressure of the reverse osmosis water filtration system to the refrigerator's cold water line must be at least 40 psi (276 kPa). If the water pressure is below these specifications:

- Check if the sediment filter in the reverse osmosis system is blocked. Replace the filter if necessary.
- Refill the water tank in the reverse osmosis system with water.
- If your refrigerator has a water filter, it may further reduce the water pressure when used in conjunction with a reverse osmosis system. Remove the water filter.

For more information or servicing, contact a licensed plumbing professional.

Ordering a new filter

To purchase a new water filter, contact a local Samsung service center.

LED Lamps

To replace the lamps of the refrigerator, contact a local Samsung service center.

WARNING

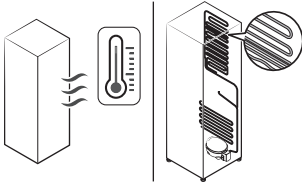
- The lamps are not user-serviceable. Do not attempt to replace a lamp yourself. This can cause electric shock.

Troubleshooting

Before calling for service, review the checkpoints below. Any service calls regarding normal situations (No Defect Cases) will be charged to users.

General

Temperature

Symptom	Possible causes	Solution
Fridge/freezer does not operate. Fridge/freezer temperature is warm.	<ul style="list-style-type: none"> Power cord is not plugged in properly. 	<ul style="list-style-type: none"> Properly plug in the power cord.
	<ul style="list-style-type: none"> Temperature control is not set correctly. 	<ul style="list-style-type: none"> Set the temperature lower.
	<ul style="list-style-type: none"> Refrigerator is located near a heat source or direct sunlight. 	<ul style="list-style-type: none"> Keep the refrigerator away from direct sunlight or a heat source.
	<ul style="list-style-type: none"> Not enough clearance between refrigerator and nearby walls or cabinets. 	<ul style="list-style-type: none"> We recommend that the gap between the refrigerator and nearby walls (or cabinets) is more than 2" (50 mm).
Fridge/freezer is over-cooling.	<ul style="list-style-type: none"> The refrigerator is overloaded. Food is blocking the refrigerator vents. 	<ul style="list-style-type: none"> Do not overload the refrigerator. Do not allow food to block vents.
	<ul style="list-style-type: none"> Temperature control is not set correctly. 	<ul style="list-style-type: none"> Set the temperature higher.
Interior wall is hot.	<ul style="list-style-type: none"> Refrigerator has heat-proof piping in the interior wall. 	<ul style="list-style-type: none"> To prevent condensation from forming, the refrigerator has heat-proof piping in the front corners. If the ambient temperature rises, this equipment may not work effectively. This is not a system failure. 

Troubleshooting

Odour

Symptom	Possible causes	Solution
Refrigerator has odours.	• Spoiled food.	• Clean the refrigerator and remove any spoiled food.
	• Food with strong odours.	• Make sure strong smelling food is wrapped airtight.

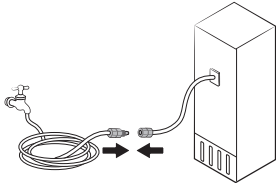
Frost

Symptom	Possible causes	Solution
Frost around the vents.	• Food is blocking the vents.	• Make sure no food blocks the refrigerator vents.
Frost on interior walls.	• Door is not closed properly.	• Make sure food does not block the door. Clean the door gasket.

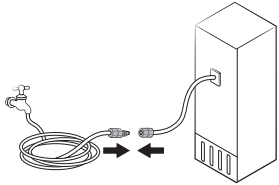
Condensation

Symptom	Possible causes	Solution
Condensation forms on the interior walls.	• If door is left open, moisture enters the refrigerator.	• Remove the moisture and do not leave a door open for extended periods of time.
	• Food with high moisture content.	• Make sure food is wrapped airtight.

Water/ice

Symptom	Possible causes	Solution
Water flow is weaker than normal.	<ul style="list-style-type: none"> Water pressure is too low. 	<ul style="list-style-type: none"> Make sure the water pressure is between 20 and 125 psi (138 and 862 kPa).
Ice maker makes a buzzing sound.	<ul style="list-style-type: none"> The ice maker function is activated, but the water supply to the refrigerator has not been connected. 	<ul style="list-style-type: none"> Activate the Ice Maker off.
Ice maker does not make ice.	<ul style="list-style-type: none"> Ice maker has just been installed. 	<ul style="list-style-type: none"> You must wait for 12 hours for the refrigerator to make ice.
	<ul style="list-style-type: none"> Freezer temperature is too high. 	<ul style="list-style-type: none"> Set the freezer temperature below 0 °F (-18 °C) or -4 °F (-20 °C) in warm ambient air.
	<ul style="list-style-type: none"> Ice maker is off. 	<ul style="list-style-type: none"> Turn on the ice maker.
Ice does not dispense.	<ul style="list-style-type: none"> Ice may jam if the ice dispenser is not used for a long time (approx. 3 weeks). 	<ul style="list-style-type: none"> If you won't be using the refrigerator for a long time, empty the ice bucket and turn off the ice maker.
	<ul style="list-style-type: none"> Ice bucket is not properly inserted. 	<ul style="list-style-type: none"> Make sure the ice bucket is properly inserted.
	<ul style="list-style-type: none"> Water line is not connected properly or water supply is not on. 	<ul style="list-style-type: none"> Check if the water line is installed correctly. Check if the water line stop cock is closed. 

Troubleshooting

Symptom	Possible causes	Solution
Water does not dispense.	<ul style="list-style-type: none"> Water line is not connected properly or water supply is not on. 	<ul style="list-style-type: none"> Check if the water line is installed correctly. Check if the water line stopcock is closed. 
	<ul style="list-style-type: none"> A third-party water filter was installed. 	<ul style="list-style-type: none"> Use only Samsung-provided or approved filters. Unapproved filters may leak and damage the refrigerator.
	<ul style="list-style-type: none"> Water filter indicator turns on or blinks. 	<ul style="list-style-type: none"> Replace the water filter. After replacing, reset the filter indicator sensor.

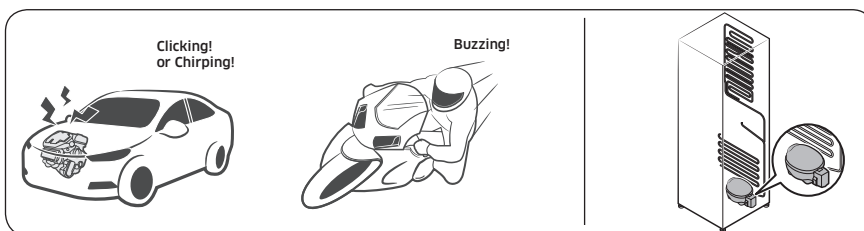


Do you hear abnormal sounds from the refrigerator?

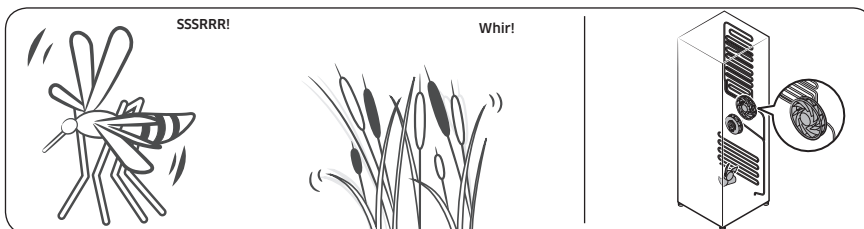
Before calling for service, review the checkpoints below. Any service calls related to normal sounds will be charged to the user.

These sounds are normal.

- When starting or ending an operation, the refrigerator may make sounds similar to a car engine igniting. As the operation stabilizes, the sounds will decrease.



- While the fan is operating, these sounds may occur. When the refrigerator reaches the set temperature, no fan sound will occur.

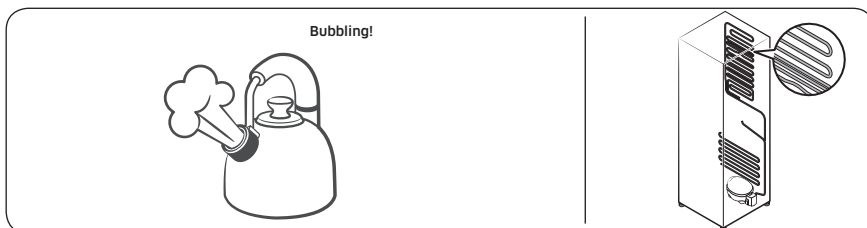


- During a defrost cycle, water may drip on the defrost heater, causing sizzling sounds.

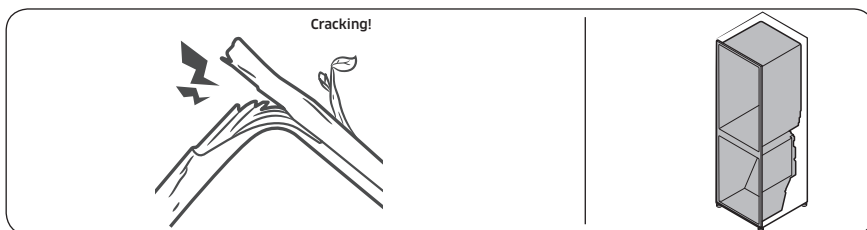


Troubleshooting

- As the refrigerator cools or freezes, refrigerant gas moves through sealed pipes, causing bubbling sounds.



- As the refrigerator temperature increases or decreases, plastic parts contract and expand, creating knocking noises. These noises occur during the defrosting cycle or when electronic parts are working.



- For ice maker models: When the water valve opens to fill the ice maker, buzzing sounds may occur.
- Due to pressure equalizing when opening and closing the refrigerator door, whooshing sounds may occur.

SmartThings

Symptom	Action
Could not find "SmartThings" in the app market.	<ul style="list-style-type: none">• The SmartThings app is not available for some tablet and iPad and some smartphone.<ul style="list-style-type: none">- support that [Android] OS 6.0 or higher(minimum 2GB RAM Size)- support that [iOS]10.0 or higher/iPhone6 or higher.
The SmartThings app fails to operate.	<ul style="list-style-type: none">• The SmartThings app is available for applicable models only.• The old Samsung Smart Refrigerator app cannot connect with Samsung Smart Home models.
The SmartThings app is installed but is not connected to my refrigerator.	<ul style="list-style-type: none">• You must log into your Samsung account to use the app.• Make sure that your router is operating normally.• If you have not connected your refrigerator to the SmartThings App after the app was installed, you must make the connection using the device registration function of the app.
Could not log into the app.	<ul style="list-style-type: none">• You must log into your Samsung account to use the app.• If you don't have a Samsung account, follow the app's onscreen instructions to create one.
An error message appears when I try to register my refrigerator.	<ul style="list-style-type: none">• Easy Connection may fail due to the distance from your access point (AP) or electrical interference from the surrounding environment. Wait a moment and try again.
The SmartThings app is successfully connected to my refrigerator but does not run.	<ul style="list-style-type: none">• Exit and restart the SmartThings app or disconnect and reconnect the router.• Unplug the power cord of the refrigerator, and then plug it in again after 1 minute.

Troubleshooting

Smart Grid (applicable models only)

Symptom	Action
What Do I Need to use the Energy Management and Smart Grid functions?	<p>To use the Smart Grid (Demand Response) and Energy Management functions on your refrigerator, you need the following:</p> <p>Devices</p> <ul style="list-style-type: none">• A wireless access point (router)• A Samsung Energy Management-supported refrigerator• A smartphone <p>Registration</p> <ul style="list-style-type: none">• Connect your refrigerator to your home Wi-Fi network.• Register for the EMS service with your electric company. Your electric company must have an EMS (Energy Management System) supporting SEP (Smart Energy profile). <p>App</p> <ul style="list-style-type: none">• Download the SmartThings app from the Google Play Store, Apple App Store, or Samsung Galaxy Apps.• Install and run the SmartThings app on your smartphone.
Why isn't the Energy Management function working normally?	<ul style="list-style-type: none">• Make sure that your home router is operating normally with proper Internet service and connection.• Make sure that the refrigerator is connected to the AP (router). <p>Checkpoints</p> <ul style="list-style-type: none">• Connect your smartphone to the router (AP, Access Point), and then check if you can browse the Internet on the smartphone.
Why isn't the Delay Defrost Capability working normally?	<ul style="list-style-type: none">• Make sure that your home router is operating normally with proper Internet service and connection.

LIMITED WARRANTY (U.S.A.)

SAMSUNG REFRIGERATOR

LIMITED WARRANTY TO ORIGINAL CONSUMER PURCHASER WITH PROOF OF PURCHASE

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials or workmanship for the limited warranty period of:

One (1) year parts and labor

Five (5) years parts and labor on Sealed Refrigeration System Only (Compressor, Evaporator, Condenser, Drier, and Connecting Tubing)

Ten (10) years part and Five (5) years labor on Digital Inverter Compressor Only

This limited warranty is valid only on products purchased and used in the United States that have been installed, operated, and maintained according to the instructions attached to or furnished with the product. To receive warranty service, the purchaser must contact SAMSUNG at the address or phone number provided below for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center to receive warranty service.

SAMSUNG will provide in-home service within the contiguous United States during the warranty period at no charge, subject to availability of SAMSUNG authorized servicers within the customer's geographic area. If in-home service is not available, SAMSUNG may elect, at its option, to provide transportation of the product to and from an authorized service center. If the product is located in an area where service by a SAMSUNG authorized servicer is not available, you may be responsible for a trip charge or required to bring the product to a SAMSUNG authorized service center for service.

To receive in-home service, product must be unobstructed and accessible to the service agent.

During the applicable warranty period, a product will be repaired, replaced, or the purchase price refunded, at the sole option of SAMSUNG. SAMSUNG may use new or reconditioned parts in repairing a product, or replace the product with a new or reconditioned product. Replacement parts and products are warranted for the remaining portion of the original product's warranty or ninety (90) days, whichever is longer. All replaced parts and products are the property of SAMSUNG and you must return them to SAMSUNG.

LIMITED WARRANTY (U.S.A.)

This limited warranty covers manufacturing defects in materials or workmanship encountered in normal household, noncommercial use of this product and shall not cover the following: damage that occurs in shipment, delivery, installation, and uses for which this product was not intended; damage caused by unauthorized modification or alteration of the product; product where the original factory serial numbers have been removed, defaced, changed in any way, or cannot be readily determined; cosmetic damage including scratches, dents, chips, and other damage to the product's finishes; damage caused by abuse, misuse, pest infestations, accident, fire, floods, or other acts of nature or God; damage caused by use of equipment, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG; damage caused by incorrect electrical line current, voltage, fluctuations and surges; damage caused by failure to operate and maintain the product according to instructions; in-home instruction on how to use your product; and service to correct installation not in accordance with electrical or plumbing codes or correction of household electrical or plumbing (i.e., house wiring, fuses, or water inlet hoses). The cost of repair or replacement under these excluded circumstances shall be the customer's responsibility.

Visits by an authorized servicer to explain product functions, maintenance or installation are not covered by this limited warranty. Please contact SAMSUNG at the number below for assistance with any of these issues.

EXCLUSION OF IMPLIED WARRANTIES

IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

LIMITATION OF REMEDIES

YOUR SOLE AND EXCLUSIVE REMEDY IS PRODUCT REPAIR, PRODUCT REPLACEMENT, OR REFUND OF THE PURCHASE PRICE AT SAMSUNG'S OPTION, AS PROVIDED IN THIS LIMITED WARRANTY. SAMSUNG SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO TIME AWAY FROM WORK, HOTELS AND/OR RESTAURANT MEALS, REMODELING EXPENSES, LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

SAMSUNG does not warrant uninterrupted or error-free operation of the product. No warranty or guarantee given by any other person, firm, or corporation with respect to this product shall be binding on SAMSUNG.

To obtain warranty service, please contact SAMSUNG at:

Samsung Electronics America, Inc.
85 Challenger Road
Ridgefield Park, NJ 07660
1-800-SAMSUNG (726-7864)
www.samsung.com/us/support

Warranty Information (CANADA)

If your refrigerator needs service

Do not hesitate to call any Samsung Authorized Service Center nearby giving them your name, address and telephone number if your product is not functioning properly.

Limited Warranty for Original Purchaser

This Samsung product is warranted by Samsung Electronics Canada Inc. (hereafter referred to as SECA) against manufacturing defects in material or workmanship for the following periods:

Labor : 1 year (in-home)

Parts : 1 year

Inverter Compressor : 10 years (Part only)

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SECA will repair or replace the product at its option. In-home service is not available in all areas. Contact us to find out if in-home service is currently available in your area by using the contact information at the back of this warranty.

All warranty repairs or part replacements must be performed by a SECA Authorized Service Center. (To find the nearest SECA Service Center, call 1-800-SAMSUNG (7267864) or visit our web site at www.samsung.com/ca)

Obligation to the Original Owner

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to a SECA Authorized Service Center at the time service is requested before warranty services are rendered. On all carry-in models, transportation to and from the Authorized Service Center is the responsibility of the customer.

Exclusions of the Warranty

This warranty does not cover damage due to accident, fire, flood, and/or other Acts of God, misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs during shipping. Customer adjustments which are explained in this owners manual are not covered under the terms of this warranty. This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.

SAMSUNG CUSTOMER CARE CENTER

Samsung Electronics Canada Inc.
2050 Derry Road West
Mississauga, Ontario L5N 0B9
Canada
1-800-SAMSUNG (726-7864)
www.samsung.com/ca/support (English)
www.samsung.com/ca_fr/support (French)

Regulatory Notice

FCC Notice

FCC CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Contains Transmitter Module FCC ID: A3LCWAP210M

This device complies with Part 15 of FCC Rules. Operation is Subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received including interference that cause undesired operation.

For products available in the US and Canadian markets, only channels 1~11 are available. You cannot select other channels.

FCC STATEMENT:

This equipment has been tested and found to comply within the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet that is on a different circuit than the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and it's antennas must not be co-located or operated in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

IC Notice

Contains Transmitter Module IC: 649E-CWAP210M

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. Operation is subject to the following two conditions : (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For products available in the US and Canadian markets, only channels 1~11 are available. You cannot select other channels.

IC RADIATION EXPOSURE STATEMENT:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and it's antennas must not be co-located or operated in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

SAVE THESE INSTRUCTIONS

Open Source Announcement

The software included in this product contains open source software.

The following URL http://opensource.samsung.com/opensource/SMART_TP2_0/seq/0 leads to open source license information as related to this product.



Memo

Memo

Memo



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If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	Contact Center	Web Site
U.S.A	1-800-SAMSUNG (726-7864) 1-844-SAM-PAYS (726-7297)	www.samsung.com/us/support
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DA68-03958P-00