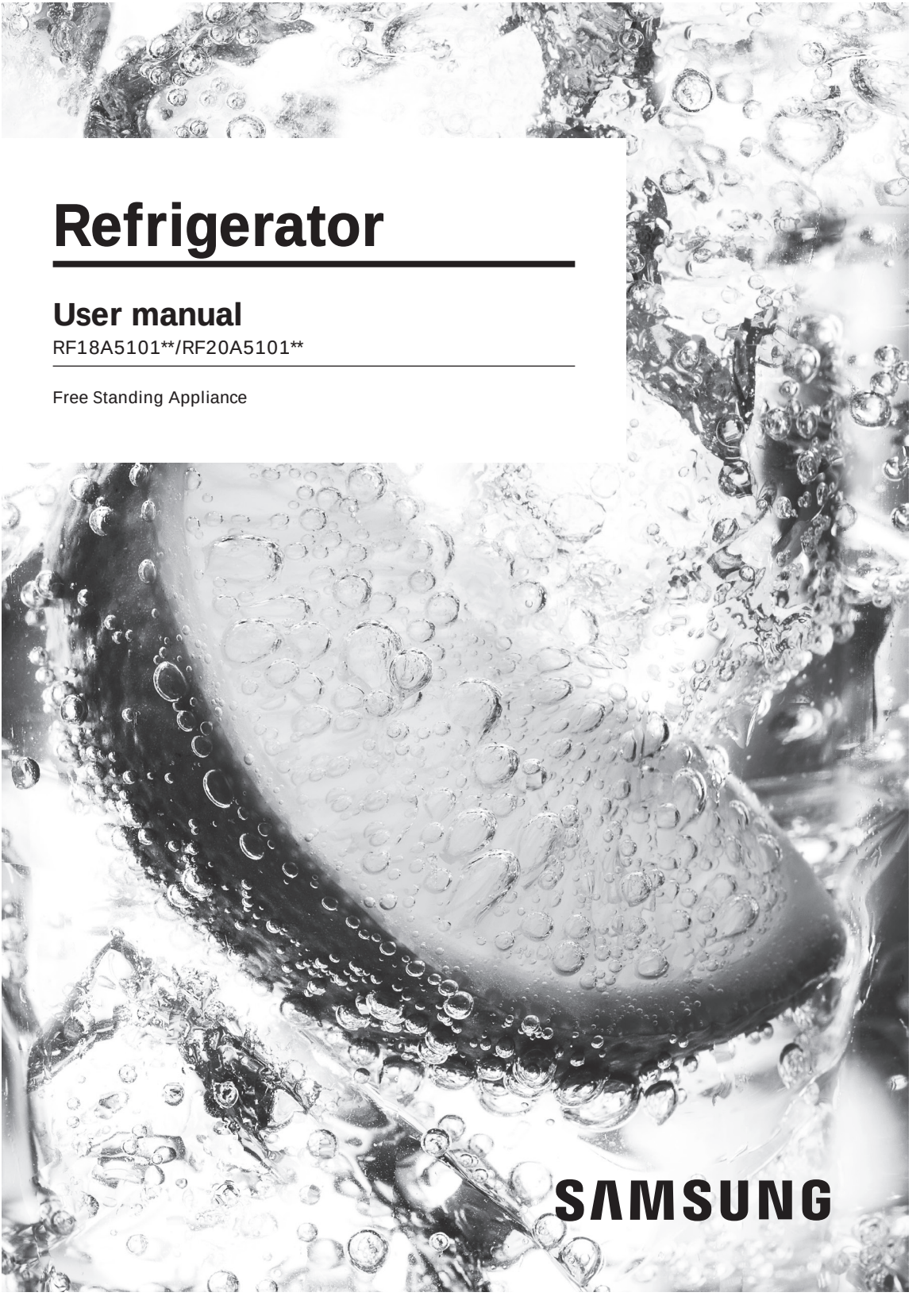
Refrigerator

User manual

RF18A5101**/RF20A5101**

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 ef□ciently.

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 □nd 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 □ames and move anything □ammable away from the product and ventilate the room immediately.
  - Failing to do so may result in □re 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 bene□t 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 □re / □ammable materials

⚠ WARNING

- R-600a is used as a refrigerant. This product contains □ammable gas (Refrigerant R-600a), contact your local authority in regard to safe disposal of this product.
- In order to avoid the creation of a □ammable 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 ft^3 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 certi□ed 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 quali□ed 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 □ammable 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, of□ces 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 □ames 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 □ammable.

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 □re.
- 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 □re hazard.
- If the wall socket is loose, do not insert the power plug.
  - There is a risk of electric shock or □re.
- 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 □re.
- Never unplug your refrigerator by pulling on the power cord. Always grip the plug □rmly and pull straight out from the outlet.
  - Damage to the cord may cause a short-circuit, □re, and/or electric shock.
- Do not install this appliance near a heater or □ammable material.
- Do not install this appliance in a location where gas may leak.
  - This may result in an electric shock or □re.
- 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 □re 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 □re 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 □re.
- 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 □re.
- 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, □re, problems with the product, or injury.
- You need to remove all the protective plastic □lm 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, □re, explosion, or problems with the product.
- Plug the power plug into the wall socket □rmly. Do not use a damaged power plug, damaged power cord, or loose wall socket.
  - This may result in an electric shock or □re.
- Only a quali□ed 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 suf□cient space around the refrigerator and install it on a □at 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 quali□ed technician or service company install the refrigerator.
  - Failing to do so may result in an electric shock, □re, 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 □lled with water on the refrigerator.
  - If spilled, there is a risk of □re or electric shock.
- Do not keep volatile or □ammable 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 □re or explosion.
- Children should be supervised to ensure that they do not play with the appliance.
  - Keep □ngers 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, scienti□c 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 □re.
- 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 over□ll 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, □re, or problems with the product.
- Never put □ngers 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 □ammable sprays, □ammable 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 □re.
- Fill the water tank and ice cube trays with potable water only (tap water, mineral water, or puri□ed water).
  - Do not □ll 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, □re, problems with the product, or injury. Do not put a container □lled with water on the appliance.
  - If spilled, there is a risk of □re 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 □ngers 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 □ames 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 □re.
- 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 □ngers 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 modi□cations can cause safety problems. To reverse an unauthorized modi□cation, 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, □re, 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 □re 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 dif□culty 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 □rmly.
- Do not use a damaged power plug, damaged power cord, or loose wall socket.
  - This may result in an electric shock or □re.

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 Modi□cation.
  - Any changes or modi□cations performed by a 3rd party on this □nished appliance are not covered under Samsung warranty service, nor is Samsung responsible for safety issues that result from 3rd party modi□cations.
- Do not block the air vents inside the refrigerator.
  - If the air vents are blocked, especially with a plastic bag, the refrigerator can be over cooled. If a cooling period lasts too long, the water □lter may break and cause water leakage.
- If the refrigerator is disconnected from the power supply, you should wait for at least □ve 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 puri□ed water).
  - Do not □ll the tank with tea, juice, or a sports drink. They can damage the refrigerator.
- If the refrigerator is □ooded, shut off the power to the refrigerator and contact your nearest Samsung service center.
  - There is a risk of electric shock or □re.
- Do not keep vegetable oil in your refrigerator's door bins. The oil can solidify, making it foul-tasting and dif□cult 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 □re 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 □re.
- 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 □re.
- 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 □re 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 □re.
- Never put □ngers 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 □re.
- 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, □ammable □uids, 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 □ammable 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

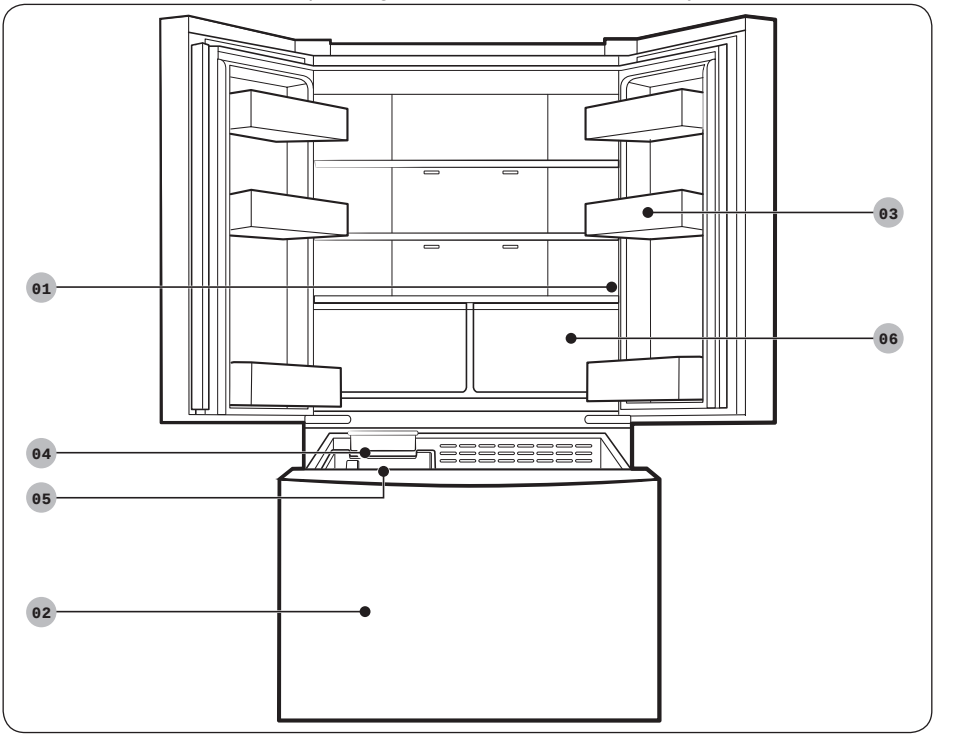
Follow these instructions carefully to ensure a proper installation of this refrigerator and to prevent accidents before using it.

⚠ WARNING

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

Refrigerator at a glance

The actual refrigerator and provided parts of your refrigerator may differ from the illustrations in this manual, depending on the model and the country.



Installation

01 Main panel

02 Freezer

03 Door bins

04 Ice Maker

05 Ice bucket

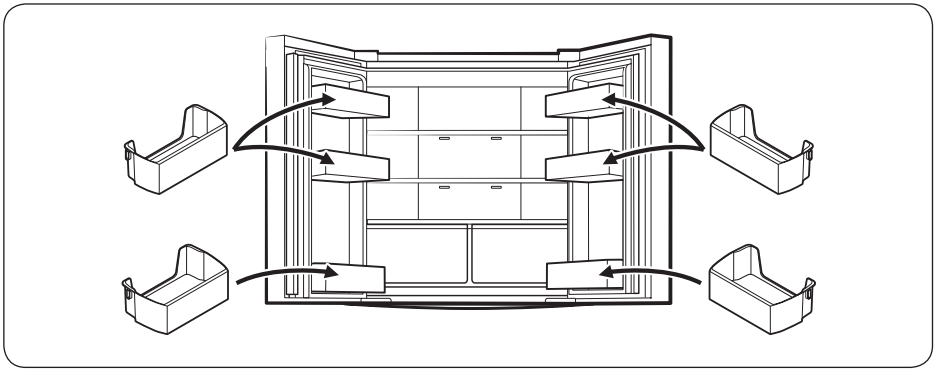
06 Fridge drawers

NOTE

- For energy ef□ciency, keep all shelves, drawers, and baskets in their original positions.
- When closing the door, make sure the vertical hinged section is in the correct position to avoid scratching the other door.
- If the vertical hinged section is reversed, put it back into the correct position, and then close the door.
- Moisture may form at times on the vertical hinged section.
- If you close a door forcefully, the other door may open.
- If the internal or external LED lamp is out of order, contact a local Samsung service center.
- If the door is left open for too long, the top internal LED will blink. This is normal.

Door bins

Your refrigerator ships with door bins of different types and sizes. If the door bins for your refrigerator were packaged separately, use the □gure below to help you position the bins properly.



Step-by-step installation

STEP 1 Select a site

Select a site that:

- Has a solid, level surface without carpeting or □ooring that may obstruct ventilation
- Is away from direct sunlight
- Has adequate room for opening and closing the door
- Is away from any heat sources
- Provides room for maintenance and servicing
- Has a temperature range between 50 °F (10 ℃) and 109 °F (43 ℃)

⚠ CAUTION

- If your refrigerator is equipped with an ice maker, provide extra space at the rear of the refrigerator for the water line connection.
- When you install the refrigerator next to a □xed wall, you must provide a minimum clearance of 3 $^{3}/_{4}$" (95 mm) from the wall to allow the door to swing open.

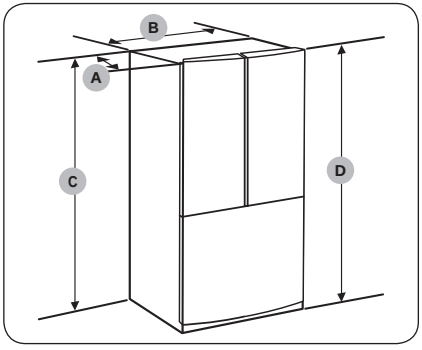
NOTE

To facilitate moving your refrigerator to its □nal location, be sure to measure the width and height of doorways, thresholds, ceilings, stairways, and anything else that needs to be taken into consideration to ensure you can move your refrigerator safely. The following diagram illustrates the exact height and depth (factory speci□cations) of your refrigerator.

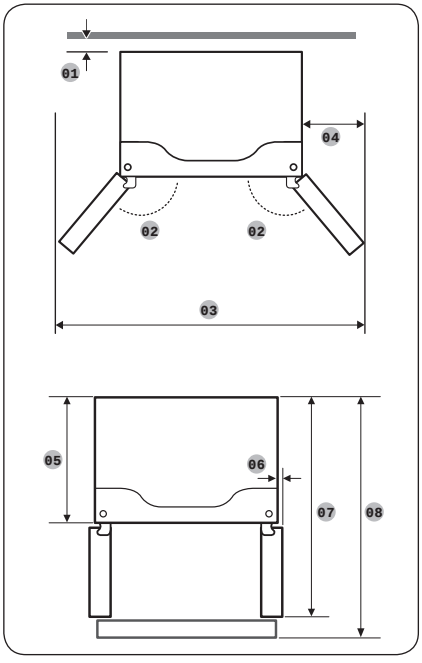
Installation

Clearance

See the following □gures and tables for space requirements for installation.



Model	RF18**	RF20**
Depth “A”	28 1/8" (715 mm)	30 1/8" (765 mm)
Width “B”	32 1/8" (817 mm)	32 1/8" (817 mm)
Height “C”	68 7/8" (1749 mm)	68 7/8" (1749 mm)
Overall Height “D”	70 " (1776 mm)	70 " (1776 mm)



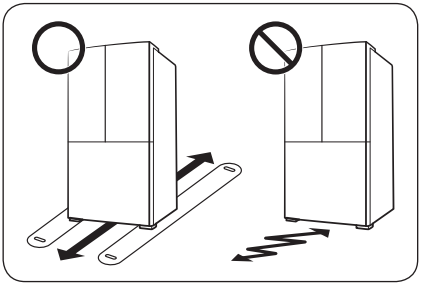
Model	RF18**	RF20**
01	2" (50 mm)	2" (50 mm)
02	5 1/4" (135°)	5 1/4" (135°)
03	54 7/8" (1393 mm)	54 7/8" (1393 mm)
04	11 1/2" (291 mm)	11 1/2" (291 mm)
05	24 1/2" (625 mm)	26 1/2" (675 mm)
06	1 1/4" (31.5 mm)	1 1/4" (31.5 mm)
07	41 1/2" (1056 mm)	43 1/2" (1101 mm)
08	42 1/2" (1082 mm)	44 1/2" (1132 mm)

NOTE

The measurements in the table above may differ slightly from the actual measurements, depending on the measuring and rounding method.

STEP 2 Flooring

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



NOTE

To prevent □oor damage, make sure the front leveling legs are in the upright position.

- The surface you install the refrigerator on must support a fully loaded refrigerator.
- To protect the □oor, put a large piece of cardboard along the path to the refrigerator's □nal installation location.
- Once the refrigerator is in its □nal position, do not move it unless necessary to protect the □oor. If you have to move the refrigerator, place thick paper or cloth such as old carpets along the path of movement.

Installation

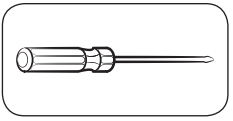
STEP 3 Door removal for entrance

If the refrigerator cannot pass through the entrance to your home or kitchen due to its size, follow these instructions to remove and then re-install the refrigerator's doors. If you do not need to remove the doors, go to page 26 to continue the installation procedure.

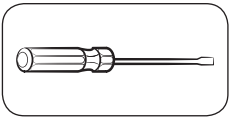
⚠ WARNING

Unplug the power cord of the refrigerator before removing the doors.

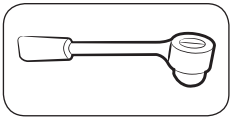
Tools required (not provided)



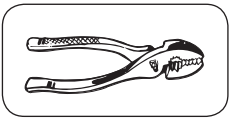
Phillips screwdriver



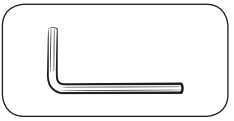
Flat-head screwdriver



Socket wrench 3/8" (10 mm)

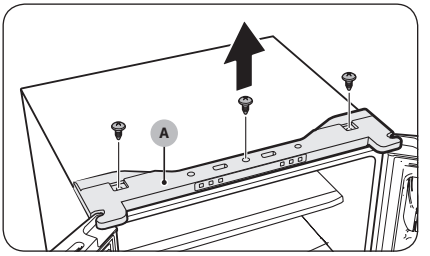


Pliers

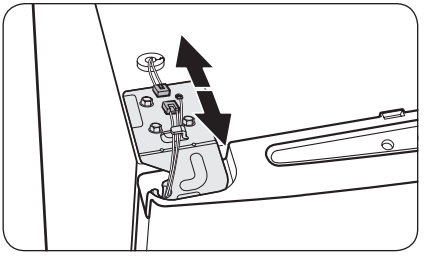


Allen wrench 1/4" (5 mm)

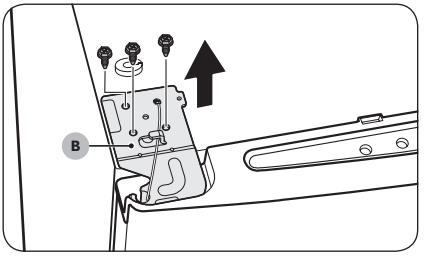
Detach the fridge doors



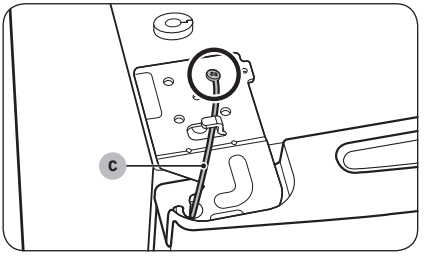
1. Use a Phillips screwdriver to remove the screws fastening the top cover (A).



2. Disconnect the wires on the top of the refrigerator.

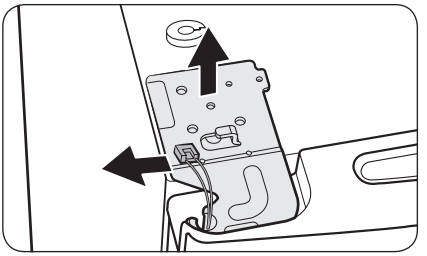


3. Use a socket wrench ($^3/_8$" / 10 mm) to remove the screws fastening the top hinge (B).



4. Use a Phillips screwdriver to remove the screw fastening the ground wire (C).

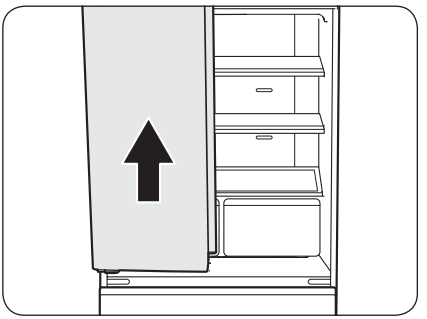
Installation



5. Remove the top hinge from the door.

NOTE

Remove the top hinge carefully. The wires from the door are arranged through the hinge shaft.

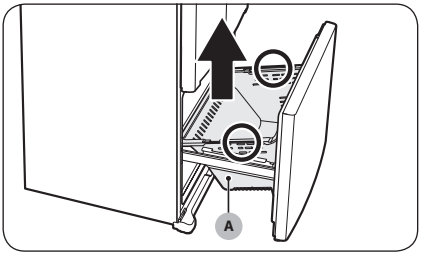


6. Gently pull up the fridge door to remove. Do not apply excessive force to the door. The door may fall, causing physical injury.
7. Lay the door down on a □at surface.

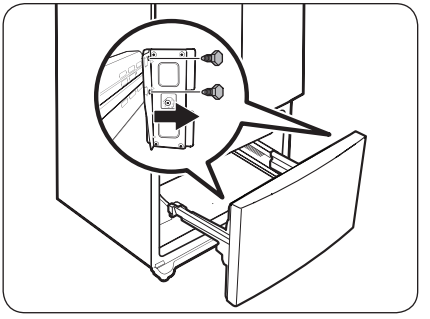
To reattach the fridge doors

After moving the refrigerator to its □nal location, reattach the doors by following the removal instructions in the reversed order.

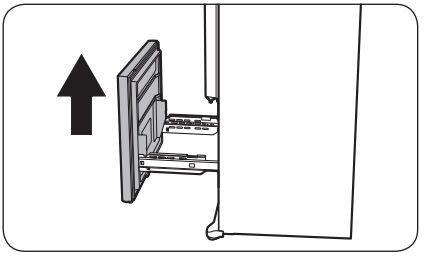
Detach the freezer drawer



1. Fully open the freezer drawer, and then lift the drawer basket (A) to remove.

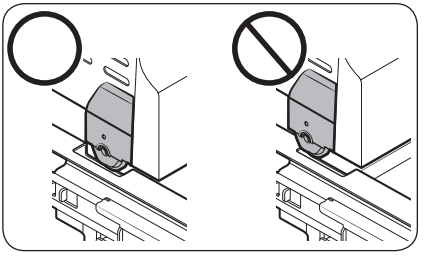


2. Use a socket wrench ($^3/_8$" / 10 mm) to remove the 4 screws fastening the door.



3. Lift the freezer door from the rails to remove.

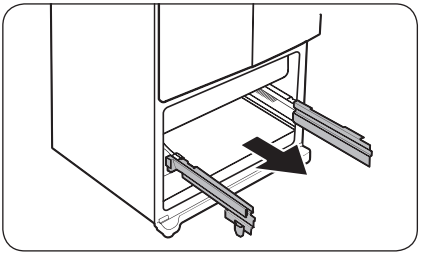
Installation



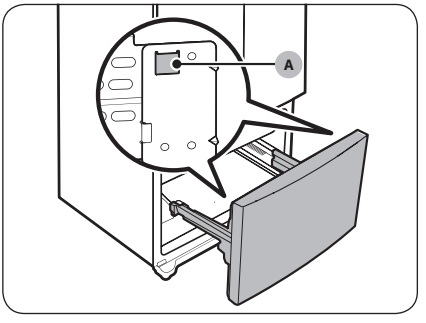
⚠ CAUTION

- Be careful not to scratch or dent the rail assembly.
- Make sure you mount the freezer baskets in the correct position. Otherwise, the door will not open or close properly, which causes frost to build up.
- Do not store too much food in the freezer drawer. This prevents the freezer drawer from closing properly, resulting in frost buildup.

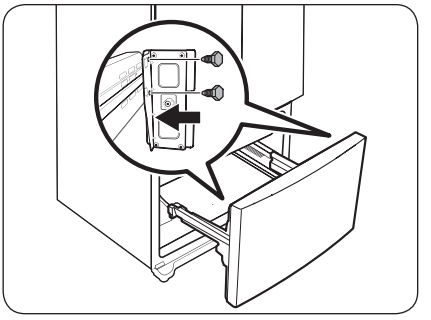
To reattach the freezer drawer



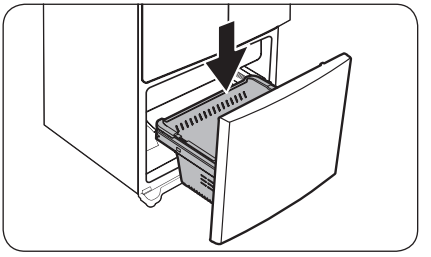
1. Fully pull out the freezer drawer rails.



2. Attach the freezer door to the slots (A) at the side of the rails.



3. Use a socket wrench ($^3/_8$" / 10 mm) to fasten the door to the rail with 4 screws.



4. Insert the freezer basket back into its position.

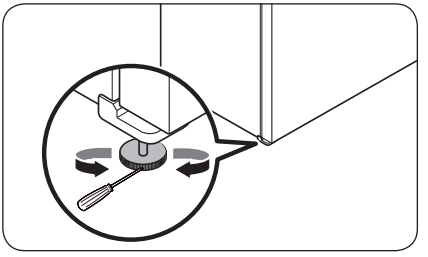
Installation

STEP 4 Leveling the refrigerator

⚠ CAUTION

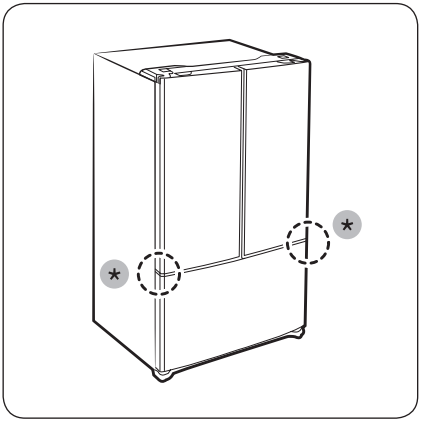
- When installed, the refrigerator must be leveled on a □at, solid □oor. Not leveling the refrigerator can cause damage to the refrigerator or physical injury.
- Leveling must be performed with the refrigerator empty. Make sure no food items are inside the refrigerator.
- For safety reasons, adjust the front a little higher than the rear.

Level the refrigerator using the special screws (levelers) on the front legs. Use a □at-head screwdriver to turn the levelers.

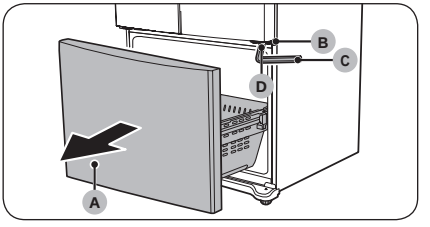


- To adjust the height of the left side: Insert a □at-head screwdriver into the leveler of the left side front leg. Turn the leveler clockwise to raise the left side or turn it counterclockwise to lower.
- To adjust the height of the right side: Insert a □at-head screwdriver into the leveler of the right side front leg. Turn the leveler clockwise to raise the right side or turn it counterclockwise to lower.

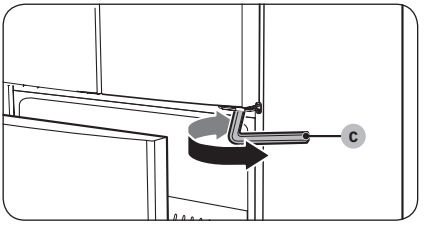
STEP 5 Align the fridge doors



- Before aligning the fridge doors, make sure the refrigerator is level. Refer to the “Leveling the refrigerator” section for detailed instruction.
- You can use the adjustment parts (*) at the bottom of both fridge doors to raise or lower the door.

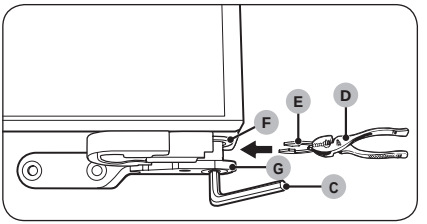


1. Fully open the freezer drawer (A), and then □nd the middle hinge (B).
2. Insert the Allen wrench (C) into the shaft (D) of the middle hinge.



3. Turn the Allen wrench (C) clockwise or counterclockwise to raise or lower the door.

Installation



4. Use the Pliers (D) to insert the provided snap ring (E) in the gap between the hinge-grommet (F) and the middle hinge (G). The number of snap rings depends on the gap.

NOTE

Two 0.04” snap rings are provided with the product.

STEP 6 Connect the water dispenser line (applicable models only)

A water dispenser with a □lter is one of the helpful features on your new refrigerator. To help promote better health, the water □lter 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.

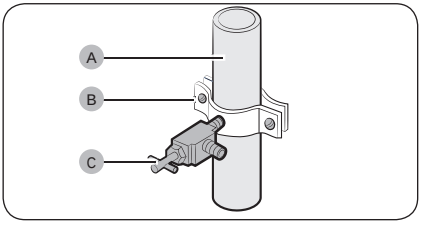
The water line also connects to the ice maker. For the ice maker to operate properly, water pressure of 30 to 120 psi (206 to 827 kPa) psi is required.

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.

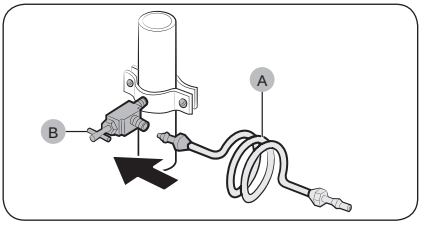
After you have connected the water line, make sure the water storage tank inside the refrigerator is properly □lled. To do this, press the water dispenser lever until water runs from the water outlet.

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 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).



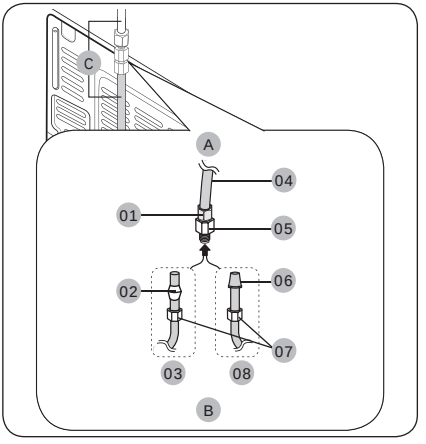
3. Connect the water line installation kit (A) to the shutoff valve (B).

Installation

Connect the water supply line to the refrigerator

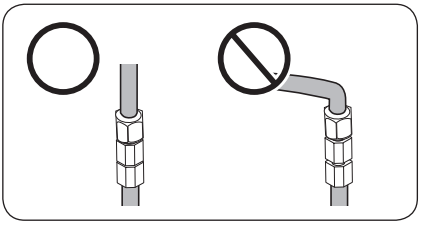
There are several items you must purchase to complete this connection. You may □nd these items sold as a kit at your local hardware store.

Copper Tubing	• 1/4" copper tubing • 1/4" compression nut (1 pc) • Ferrule (2 pc)
Plastic Tubing	• 1/4" plastic tubing → Molded end (Bulb) • 1/4" compression nut (1 pc)



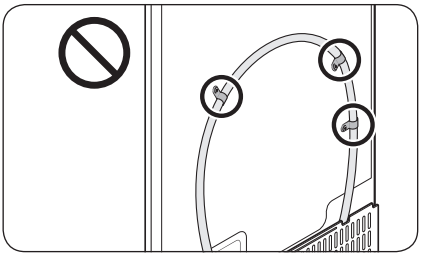
A. Refrigerator
B. Household water supply line
C. Water Line: must be kept straight.

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 (1/4") (Not supplied)
08 Plastic Tubing (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 (07) (not supplied) and ferrule (not supplied) on the copper tubing (not supplied) as shown.
   - If you are using plastic tubing (08), insert the molded end (Bulb) of the plastic tubing (08) into the compression fitting.

⚠ CAUTION

- If you use plastic tubing (08), 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” and do not attempt to use the water dispenser.

2. Tighten the compression nut (07) onto the compression fitting. Do not over-tighten the compression nut (07).
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. Flush 1 gallon of water through the filter before drinking or using the water from the refrigerator. (Flush approximately 6 minutes.) To flush, press a large glass or cup against the water dispenser lever. Fill the glass, empty it, and then repeat.
5. 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 1/4“ of the plastic tubing to make sure you get a snug, leak-free connection.
- You can test the water line quickly using a paper cup. Under normal conditions, the water dispenser can fill a 5 3/4 oz. (170 cc) cup in about 10 seconds.

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 setting, and wait for about an hour. Then, the freezer will be slightly chilled, and the motor should be running smoothly.
4. Wait until the refrigerator reaches the set temperature. Now the refrigerator is ready for use.

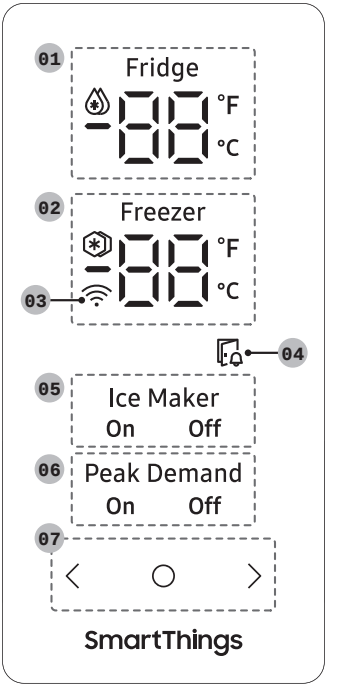
STEP 8 Final check

When installation is complete, con□rm that:

- The refrigerator is plugged into an electrical outlet and grounded properly.
- The refrigerator is installed on a □at, level surface with a reasonable clearance from walls and cabinets.
- The refrigerator is level and is sitting □rmly on the □oor.
- The door opens and closes freely, and the interior light turns on automatically when you open the door.

Operations

Main panel



01 Fridge indicator	• Displays the current or desired temperature of the fridge. • indicates that the Power Cool function is on.
02 Freezer indicator	• Displays the current or desired temperature of the freezer. • indicates that the Power Freeze function is on.
03 Network connection indicator	• This icon indicates that the refrigerator is connected to a network. • You can control and monitor your refrigerator on the SmartThings app. For more information, see the SmartThings section.
04 Door open indicator	• This indicator blinks with an alarm if the door is left open for more than 2 minutes.

05 Ice Maker indicator	• Displays the status of the ice maker. • To enable ice making, you must turn on the ice maker.
06 Peak Demand indicator *	• Displays the status of the Peak Demand function. • For more information on the Peak Demand function, see the SMART GRID Function (Demand Response) (applicable models only) section.
07 Buttons	• When the display is off, tap any button to wake up the display. • Tap ◯ to select the desired item on the main panel and to con□rm any setting changes. • Tap 〈 or 〉 to change the settings of the selected item on the main panel.

NOTE

- The control panel is designed to stay off when the refrigerator is not in use. It only becomes active and lights up when you open the door or tap the buttons.
- If the door is left open for 5 minutes, the internal light will blink for 5 minutes and turn off to alert deaf and hard of hearing users that a door is open. Note that this function is normal.

Setting the desired temperature or function

Select the fridge or freezer and set the desired temperature or function of your choice.

1. Tap any button (〈, ◯, or 〉) to wake up the display.
   - This step may not apply to some models.
2. Tap ◯ until the fridge or freezer indicator blinks.
   - The selected compartment's indicator blinks.
3. Tap 〈 or 〉 to select the desired temperature or function.
   - Refer to the table for available selection for each compartment.

Fridge	• Available selection (Fahrenheit): (Power Cool) ↔ 34 °F ↔ 35 °F ↔ 36 °F ↔ 37 °F ↔ 38 °F ↔ 39 °F ↔ 40 °F ↔ 41 °F ↔ 42 °F ↔ 43 °F ↔ 44 °F • Available selection (Celsius): (Power Cool) ↔ 1 ℃ ↔ 2 ℃ ↔ 3 ℃ ↔ 4 ℃ ↔ 5 ℃ ↔ 6 ℃ ↔ 7 ℃ • Power Cool speeds up the cooling process at maximum fan speed. The fridge keeps running at full speed for two and a half hours and then returns to the previous temperature.
Freezer	• Available selection (Fahrenheit): (Power Freeze) ↔ -8 °F ↔ -7 °F ↔ -6 °F ↔ -5 °F ↔ -4 °F ↔ -3 °F ↔ -2 °F ↔ -1 °F ↔ 0 °F ↔ 1 °F ↔ 2 °F ↔ 3 °F ↔ 4 °F ↔ 5 °F • Available selection (Celsius): (Power Freeze) ↔ -23 ℃ ↔ -22 ℃ ↔ -21 ℃ ↔ -20 ℃ ↔ -19 ℃ ↔ -18 ℃ ↔ -17 ℃ ↔ -16 ℃ ↔ -15 ℃ • 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. To freeze large amounts of food, activate Power Freeze for at least 20 hours before putting food in the freezer. **NOTE** When you use this function, the energy consumption of the refrigerator will increase. Remember to turn it off when you do not need it and return the freezer to your original temperature setting.

4. Wait for 5 seconds or tap ◯ to con□rm your selection.
   - The selected compartment's indicator stops blinking.

Operations

NOTE

- Using Power Cool or Power Freeze increases power consumption.
- 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 ℃) for the freezer, and 37 °F (3 ℃) 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 speci□ed temperature settings. If the blinking continues for an extended time, contact a local Samsung service center for technical assistance.

Changing the temperature scale

You can switch the temperature scale between Fahrenheit and Celsius.

1. Tap any button (〈, ◯, or 〉) to wake up the display.
- This step may not apply to some models.

2. Tap ◯ until the ℉ and ℃ symbols on the fridge or freezer blink.

3. Tap 〈 or 〉 to select the desired temperature scale.
- Tap 〈 to select Fahrenheit.
- Tap 〉 to select Celsius.

4. Wait for 5 seconds or tap ◯ to con□rm your selection.
- The ℉ and ℃ symbols stop blinking.

Turning on or off the ice maker

You can turn on or off the auto ice maker in the freezer.

1. Tap any button (〈, ◯, or 〉) to wake up the display.
- This step may not apply to some models.

2. Tap ◯ until the Ice Maker indicator blinks.

3. Tap 〈 or 〉 to turn on or off the ice maker.
- Tap 〈 to turn it on.
- Tap 〉 to turn it off.

4. Wait for 5 seconds or tap ◯ to con□rm your selection.
- The Ice Maker indicator stops blinking.

Turning on or off the Peak Demand function

You can turn on or off the Peak Demand function. For more information on the Peak Demand function, see the SMART GRID Function (Demand Response) (applicable models only) section.

1. Tap any button (〈, ◯, or 〉) to wake up the display.
   - This step may not apply to some models.
2. Tap ◯ until the Peak Demand indicator blinks.
3. Tap 〈 or 〉 to turn on or off the function.
   - Tap 〈 to turn it on.
   - Tap 〉 to turn it off.
4. Wait for 5 seconds or tap ◯ to con□rm your selection.
   - The Peak Demand indicator stops blinking.

Activating or deactivating the Sabbath mode (applicable models only)

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

- To activate or deactivate the Sabbath Mode, tap and hold ◯ and 〉 simultaneously for 6 seconds. Then, when the display blinks, tap 〉.
  - When the refrigerator is in the Sabbath mode, the buttons, display, and internal lights do not function. The refrigerator and freezer, however, continue to cool.

NOTE

- If the refrigerator powers off and restarts (for example, if there is a power failure), the Sabbath mode remains active. To end Sabbath Mode, you must deactivate it as instructed above.

Activating or deactivating the Cooling Off mode

The Cooling Off mode (also called the Shop mode) is designed for retailers to display refrigerators on a retail □oor. In the Cooling Off mode, the refrigerator's fan motor and lights operate normally, but the compressors do not run, so neither the refrigerator nor the freezer becomes cold.

- To activate or deactivate the Cooling Off mode, tap and hold 〈 and 〉 simultaneously for 6 seconds. Then, when the display blinks, press ◯.
  - When the Cooling Off mode is on, the refrigerator chime sounds, and the refrigerator shows "0" on the fridge indicator and "FF" on the freezer indicator.

Operations

SmartThings

Installation

Visit the Google Play Store, Galaxy Store, 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. (mimimum 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.
- In addition, further updates on the app or the function in the app may stop due to usability and security reasons, even if updates are currently supported on your OS.
- 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 identi□cation, your Samsung Smart Refrigerator may fail to connect to the Internet. If this happens, contact your Internet service provider for technical assistance.
- The □rewall 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 con□gure the wireless access point (AP) settings, see the user manual of the AP (router).
- Samsung Smart Refrigerators support both IEEE 802.11 b/g/n (2.4 GHz) and 802.11 a/n/ac (5 GHz) protocols. (IEEE 802.11 n and 802.11 ac are recommended.)
- Unauthorized Wi-Fi wireless routers may fail to connect to applicable Samsung Smart Refrigerators.

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 speci□c 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 noti□cations 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.

Operations

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 speci□c time.

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 pro□le).

Using the SMART GRID (Demand Response) Function

This feature monitors energy prices and demand information from your utility company and sends noti□cations 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.

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. To activate Peak Demand Off (Override mode), tap ○ until the Peak Demand indicator blinks.
2. Tap 〉 to select the Peak Demand Off.
   - The corresponding indicator (Peak Demand Off) turns on.
   - If the refrigerator receives a SMART GRID (Demand Response) signal from the utility company, ‘Or’ is displayed in the fridge indicator.
3. To deactivate Peak Demand Off (Override mode), tap ○ until the Peak Demand indicator blinks.
4. Tap 〈 to select the Peak Demand On.
   - The corresponding indicator (Peak Demand On) turns on.

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 □rst.

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 speci□cations 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 speci□ed by the user. You can con□gure the time. and this function will save energy during the speci□ed 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 Pro□le 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

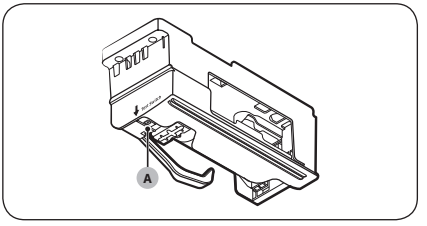
Operations

Special features

Ice maker

The refrigerator has a built-in ice maker that automatically dispenses ice so that you can enjoy □ltered water with cubed or crushed ice.

Ice Maker Operation



- The ice maker will produce 8 cubes per cycle - approximately 100~130 cubes in a 24-hour period, depending on freezer compartment temperature, room temperature, number of door openings, and other use conditions.
- Throw away the □rst few batches of ice to allow the water line to clear.
- Be sure nothing interferes with the sweep of the feeler arm. When the bin □lls to the level of the feeler arm, the ice maker will stop producing ice.
- After the ice maker has been turned on again, there will be a time delay before the ice maker resumes operation.
- It is normal for several cubes to be joined together.
- If ice is not used frequently, old ice cubes will become cloudy, taste stale, and shrink. If you do not want to make ice, turn the ice maker off. (For detailed instructions on turning the ice maker on or off, see the “Turning on or off the ice maker” section on page 36.)
- If the auto ice maker does not make ice, remove the ice bucket and press Test Switch (A) to check if the auto ice maker operates properly.

NOTE

When the ice maker is on, the temperature of the freezer will be lower than the set temperature. If you do not need to use the ice maker, turn off the ice maker.

If You Turn the Ice Maker Off

If you turn the ice maker off, make sure to remove all ice cubes from the ice bucket. The remaining ice cubes may clump together, making it dif□cult to remove.

Maintenance

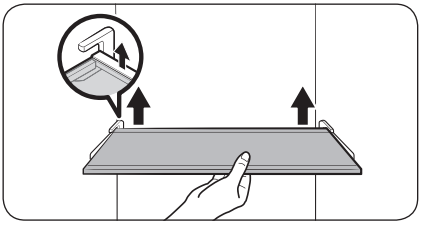
Handling and care

Shelves

⚠ CAUTION

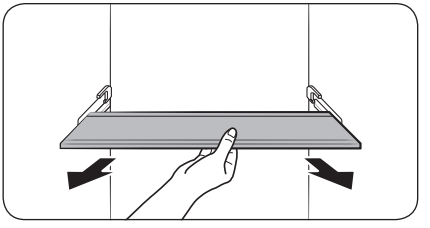
- The shelf must be inserted correctly. Do not insert upside down.
- Glass containers may scratch the surface of glass shelves.

Fridge shelves



To remove a shelf, fully open the fridge door. Hold the front of the shelf and gently lift up and slide out.

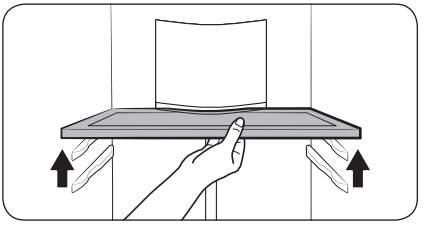
1. Fully open the fridge door.
2. Hold the front of the shelf lift the back of the shelf to release the hook from the groove.



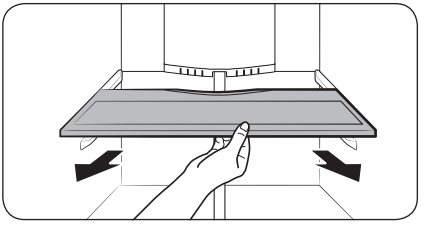
3. Pull out to remove.

Maintenance

Vegetable shelves

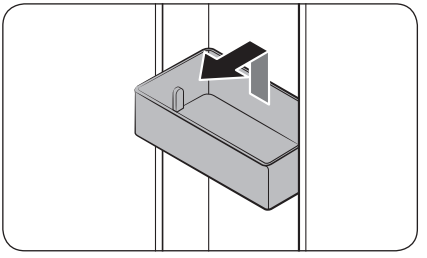


1. Fully open the fridge door.
2. Lift up the front of the shelf and pull it to release the shelf from the holder at the rear wall.

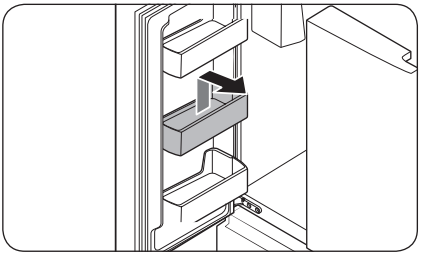


3. Pull out to remove.

Door bins



- To remove the door bin, hold the front sides of the bin, and then gently lift up to remove.
- To reinsert, insert the door bin slightly above its □nal location making sure that the back of the bin is against the door. Hold the rear of the door bin with both hands, and then press down so that it □ts snugly.

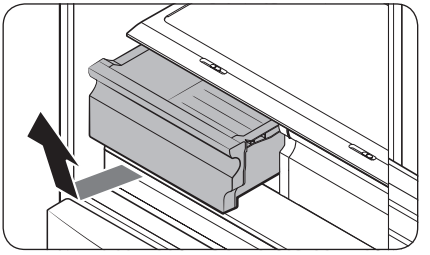


⚠ CAUTION

- Do not remove a bin that is □lled with food. Empty the bin beforehand.
- Use caution when opening the door if the bottom bin contains larger bottles, which may fall over.
- Do not allow children to play with the bins. Sharp corners of the bin may cause injury.

Fridge drawers

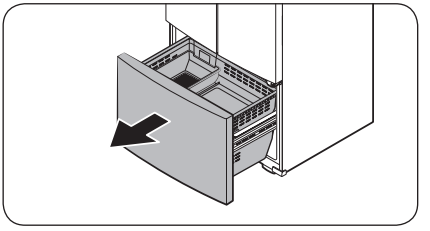
Vegetable / fruit drawers



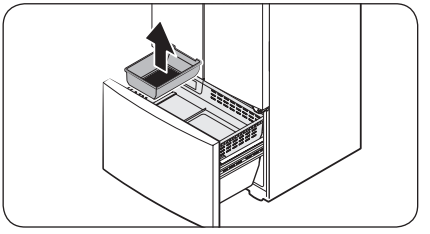
Gently lift up the front of the drawer and slide out.

- We recommend that you remove the door bins before removing the drawer. This is to prevent damage to the door bins.
- To reinsert, insert the drawer into the frame rails and then slide inward.

Freezer baskets



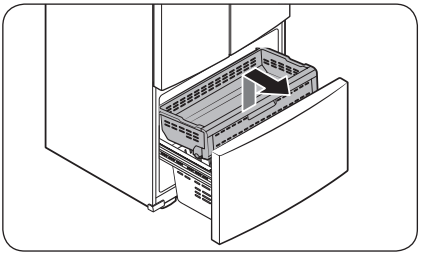
1. Fully open the freezer drawer.



2. Lift the ice bucket to remove.

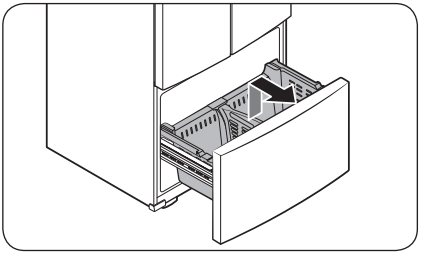
Maintenance

Upper basket



- To remove, fully slide open the freezer drawer. Lift up the front of the upper basket and pull to remove.
- To reinsert, align the front wheels of the upper basket with the end of the lower basket. Slide the upper basket to the front.

Lower basket



- To remove, □rst remove the upper basket. Then, tilt up the front of the lower basket to pull out.
- To reinsert, put the basket onto the rail assembly rear side □rst.

⚠ CAUTION

- Do not twist the basket when removing or reinserting the basket. The basket can be scratched.
- To prevent physical injury, property damage, or suffocation, keep children away from freezer baskets that have been removed.
- Do not remove the divider.
- Put the wheels of the upper basket on the end of the rails of the lower basket. Then, slide the upper basket all the way to the front. Otherwise, the drawer will not open or close properly, which will cause frost to build up.

Cleaning

Interior and exterior

⚠ WARNING

- Do not use benzene, thinner, home/car detergent, or Clorox™ to clean the refrigerator. They may damage the surface of the refrigerator and cause a □re.
- Do not spray water onto the refrigerator. This may cause electric shock.

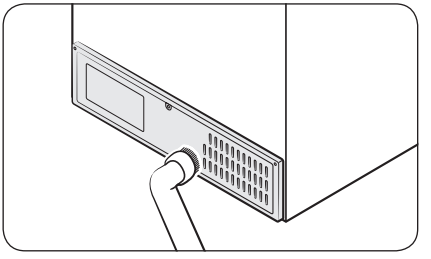
Regularly use a dry cloth to remove all foreign substances such as dust or water from the power plug terminals and contact points.

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 ef□ciency. 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.

Maintenance

Replacement

LED Lamps

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

⚠ WARNING

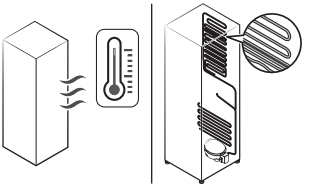
- The lamps are not user-serviceable. Do not attempt to replace a lamp yourself. This can cause electric shock.

Troubleshooting

Before calling for service, review the symptoms and recommended solutions below. If none of the suggested solutions resolve your problem, please visit our website at www.samsung.com or call Samsung Customer Care at 1-800-SAMSUNG (726-7864). Note that you will be charged for any service visits in which no defects were found.

General

Temperature

Symptom	Possible causes	Solution
Fridge/freezer does not operate. Fridge/freezer temperature is warm.	• Power cord is not plugged in properly.	• Properly plug in the power cord.
	• Temperature control is not set correctly.	• Set the temperature lower.
	• Refrigerator is located near a heat source or direct sunlight.	• Keep the refrigerator away from direct sunlight or a heat source.
	• Not enough clearance between refrigerator and nearby walls or cabinets.	• Make sure there is a gap of at least 2.5 inches (5 cm) between the refrigerator back and sides and any nearby walls or cabinets.
	• The refrigerator is overloaded. Food is blocking the refrigerator vents.	• Do not overload the refrigerator. Do not allow food to block vents.
Fridge/freezer is over-cooling.	• Temperature control is not set correctly.	• Set the temperature higher.
Interior wall is hot.	• Refrigerator has heat-proof piping in the interior wall.	• 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

Odors

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

Frost

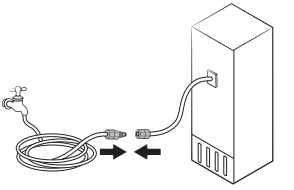
Symptom	Possible causes	Solution
Frost around the vents.	• Food is blocking the vents.	• Make sure no food blocks the refrigerator vents.
Frost on interior walls.	• Door is not closed properly.	• Make sure food does not block the door. Clean the door gasket.

Condensation

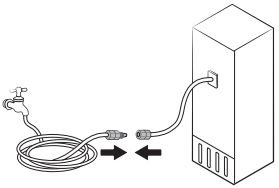
Symptom	Possible causes	Solution
Condensation forms on the interior walls.	• If door is left open, moisture enters the refrigerator.	• Remove the moisture and do not leave a door open for extended periods of time.
	• Food with high moisture content.	• Make sure food is wrapped airtight.

Water/ice (dispenser models only)

Symptom	Possible causes	Solution
Water □ow is weaker than normal.	• Water pressure is too low.	• Make sure the water pressure is between 30 to 125 psi (206 to 861 kPa).
Ice maker makes a buzzing sound.	• The Ice Maker function is activated, but the water supply to the refrigerator has not been connected.	• Press Ice Maker.

Symptom	Possible causes	Solution
Ice maker does not make ice.	• Ice maker has just been installed.	• You must wait for 12 hours for the refrigerator to make ice.
	• Freezer temperature is too high.	• Set the freezer temperature below 0 °F (-18 ℃) or -4 °F (-20 ℃) in warm ambient air.
	• Dispenser panel Lock is activated.	• Deactivate dispenser panel Lock.
	• Ice maker is off.	• Turn on the ice maker.
Ice does not dispense.	• Ice may jam if the ice dispenser is not used for a long time (approx. 3 weeks).	• If you won't be using the refrigerator for a long time, empty the ice bucket and turn off the ice maker.
	• Ice bucket is not properly inserted.	• Make sure the ice bucket is properly inserted.
	• Water line is not connected properly or water supply is not on.	• Check if the water line is installed correctly. Check if the water line stop cock is closed. 

Troubleshooting

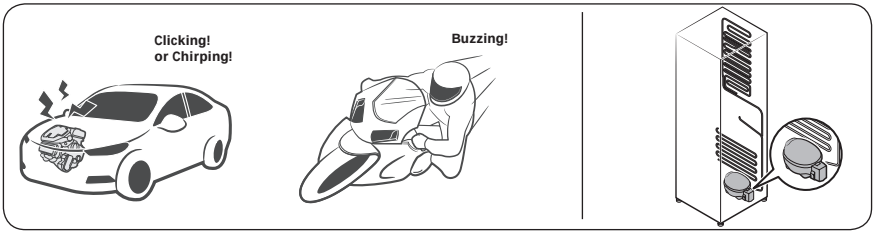
Symptom	Possible causes	Solution
Water does not dispense.	• Water line is not connected properly or water supply is not on.	• Check if the water line is installed correctly. Check if the water line stop cock is closed. 
	• Dispenser panel Lock is activated.	• Deactivate dispenser panel Lock.
	• A third-party water □lter was installed.	• Use only Samsung-provided or approved □lters. • Unapproved □lters may leak and damage the refrigerator.
	• Water □lter indicator turns on or blinks.	• Replace the water □lter. After replacing, reset the □lter indicator sensor.

Do you hear abnormal sounds from the refrigerator?

Before calling for service, review the information below. If you still have questions about sounds your refrigerator is making, please call Samsung Customer Care at 1-800-SAMSUNG (726-7864). Note that you will be charged for any service visits related to normal operating sounds in which no defects were found.

These sounds are normal.

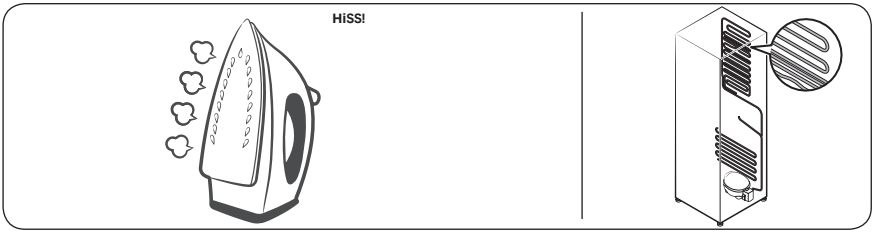
- When starting or ending an operation, the refrigerator may make sounds similar to a car engine ignition. As the operation stabilizes, the sounds will decrease.



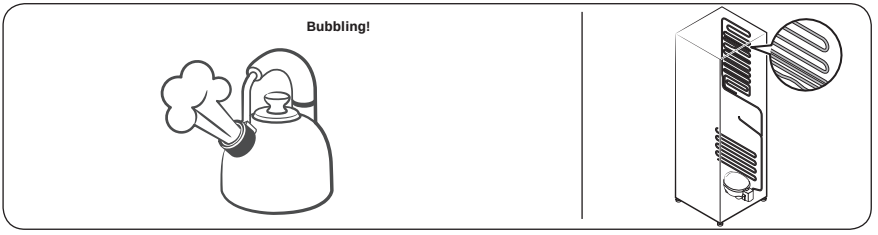
- While the fan is operating, these sounds may occur. When the refrigerator reaches the set temperature, the fan sound will stop.

Troubleshooting

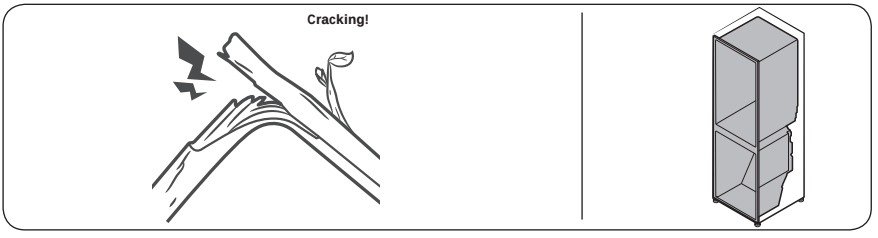
- During a defrost cycle, water may drip on the defrost heater, causing sizzling sounds.



- 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 □ll the ice maker, you may hear a buzzing sound.
- Due to pressure equalizing when you open and close the refrigerator door, you may hear a whooshing sound.

SmartThings

Symptom	Action
Could not □nd “SmartThings” in the app market.	• The SmartThings app is not available for some tablet and iPad and some smartphone. - 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.	• 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.	• You must log into your Samsung account to use the app. • Make sure that your router is operating normally. • If the Wi-Fi icon on the refrigerator’s display is off, this indicates that no network connection has been established yet. In this case, use the SmartThings app to connect and register your refrigerator to the access point (AP) of your house.
Could not log into the app.	• 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.	• 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.	• Exit and restart the SmartThings app, or disconnect and reconnect the router. • Power off the refrigerator, and then power it on 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?	• To use the Smart Grid (Demand Response) and Energy Management function on your Refrigerator, you need the following devices and apps: - Devices: 1) A Wireless Router, 2) A SmartThings Refrigerator, 3) A Smartphone. (Recommended: Android OS 6.0 or later version) - Applications: 1) “SmartThings App” from the Goolge Play Store. You also need to: • Connect the Refrigerator and the Smartphone to the same Wi-Fi network in your home. • Install and run the SmartThings App on your Smartphone. • 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 pro□le).
Why isn’t the Energy Management function working normally?	• Con□rm that the router in your home and the internet are working properly. - Connect a Smartphone to the router (AP, Access Point), and then con□rm that you can browse the Internet on the phone. • Con□rm that refrigerator is connected to the AP. - Check for Wi-Fi icon on the panel of the refrigerator. If the refrigerator is connected, the icon will be on. • Con□rm that the refrigerator and Smartphone are connected to the same router.
Why isn’t the Delay Defrost Capability working normally?	• Con□rm that the router in your home and the Internet are working properly. • Connect a Smartphone to the router (AP, Access Point), and then con□rm that you can browse the Internet on the phone. • Con□rm that the rear where you live is properly entered into the SmartThings App. • Con□rm that the Smart Grid function works correctly. (Check the control panel. The DAL or TALR icon should not be displayed on the panel.)

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 speci□c 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, □rm, 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
Ridge□eld 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 speci□ed 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 □nd 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 □nd 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, □re, □ood, 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 modi□cations 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 certi□cation number only signi□es that Industry Canada technical speci□cations 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 á 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

SAMSUNG

Scan the QR code* or visit
www.samsung.com/spsn
to view our helpful
How-to Videos and Live Shows

Scan this with your smartphone

* Requires reader to be installed on your smartphone

Contact SAMSUNG WORLD WIDE

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
CANADA	1-800-SAMSUNG(726-7864) 1-844-SAM-PAYS (726-7297)	www.samsung.com/ca/support (English) www.samsung.com/ca_fr/support (French)

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