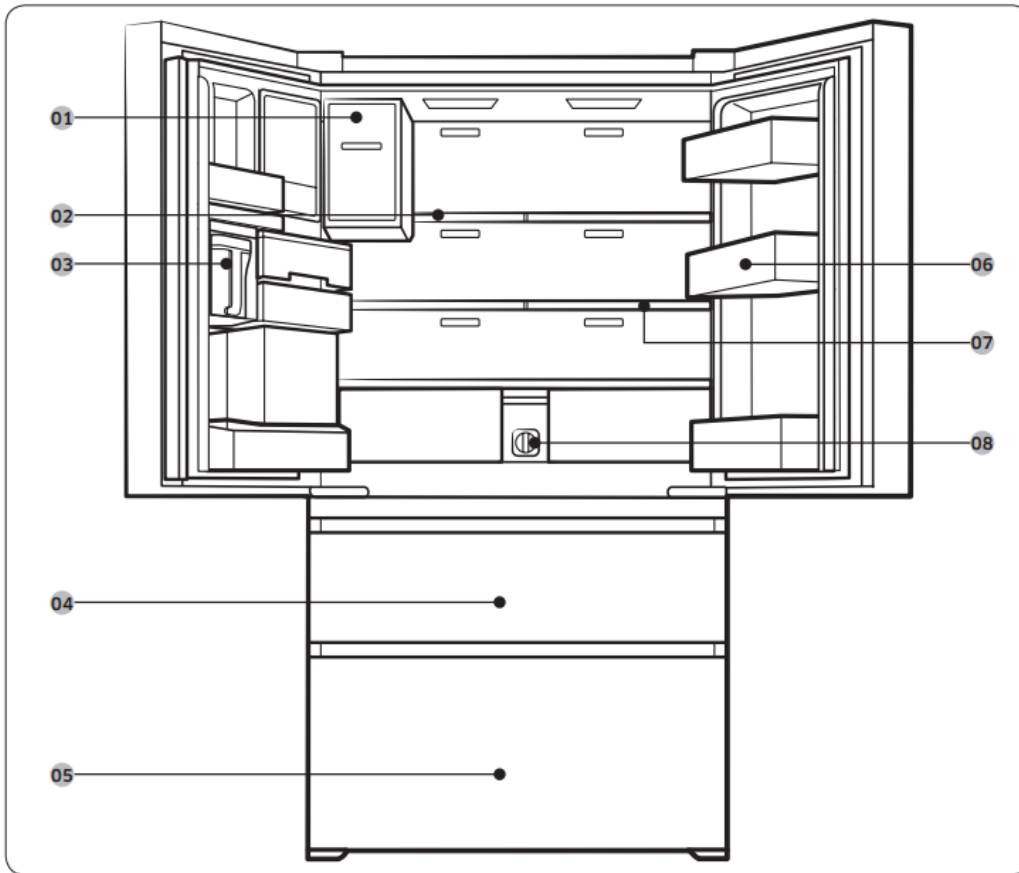


PARTS AND FEATURES



01 Auto Ice Maker	05 Freezer
02 1-Step Foldable Shelf	06 Door bins
03 Water tank (Auto Water Fill)	07 2-Step Foldable Shelf
04 FlexZone™	08 Water filter

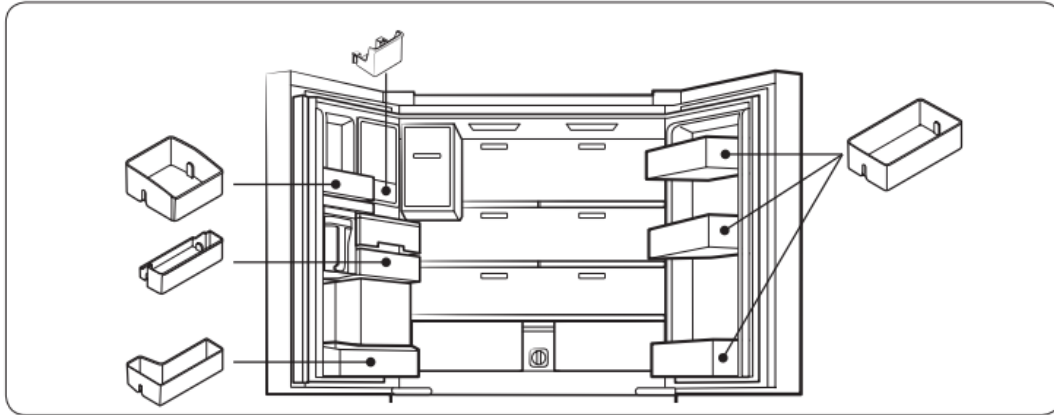
NOTE

- For energy efficiency, 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.
- When a door opens, the interlock switch automatically disables the auger motor of the ice maker for safety reasons.



- If the internal or external LED lamp is out of order, contact a local Samsung service center.

Door bins



INSTALLATION

STEP 1 Select a site

Select a site that:

- Has a solid, level surface without carpeting or flooring 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 °C) and 109 °F (43 °C)

CAUTION

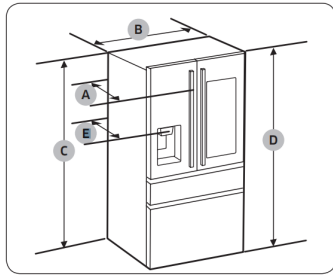
- If your refrigerator is equipped with an ice maker, secure extra space at the rear of the refrigerator for the water line connection.
- When you install the refrigerator next to a fixed wall, you must secure a minimum clearance of 3 3/4" (95 mm) from the wall to allow the door to swing open.

NOTE

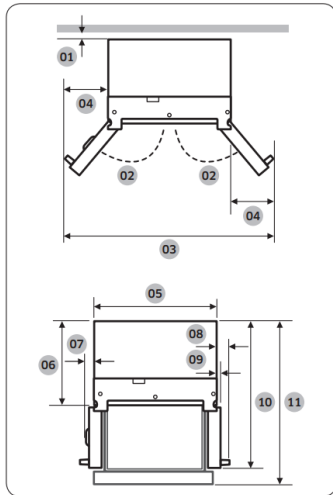
To facilitate moving your refrigerator to its final location, be sure to measure the width and height of doorways, thresholds, ceilings, stairways, and anything else that needs to be taken into consideration to ensure you can move your refrigerator safely. The following diagram illustrates the exact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

Clearance

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



Model	RF23M857*** RF23M858***	RF23M859***
Depth "A"	-	30 3/4" (781 mm)
Width "B"	35 3/4" (908 mm)	35 3/4" (908 mm)
Height "C"	68 7/8" (1749 mm)	68 7/8" (1749 mm)
Overall Height "D"	70" (1777 mm)	70" (1777 mm)
Depth "E"	29 1/4" (742 mm)	29 1/4" (742 mm)



Model	RF23M857*** RF23M858***	RF23M859***
01	2" (50 mm)	2" (50 mm)
02	135°	135°
03	62" (1575 mm)	64" (1624 mm)
04	13 1/4" (333.5 mm)	14 1/8" (358 mm)
05	35 3/4" (908 mm)	35 3/4" (908 mm)
06	24" (610 mm)	24" (610 mm)
07	2 1/2" (64 mm)	2 1/2" (64 mm)
08	-	4 1/8" (104 mm)
09	1 3/4" (45.4 mm)	1 3/4" (45.4 mm)
10	43 1/8" (1095.5 mm)	43 1/8" (1095.5 mm)
11	45" (1143 mm)	45" (1143 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 STEP 3 Door removal for entrance

NOTE

To prevent floor damage, make sure the front levelling legs are in the upright position.

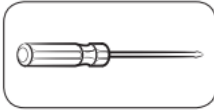
- The surface you install the refrigerator must support a fully loaded refrigerator.
- To protect the floor, put a large piece of cardboard along the path to the refrigerator's final installation location.
- Once the refrigerator is in its final position, do not move it unless necessary to protect the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

STEP 3 Door removal for entrance

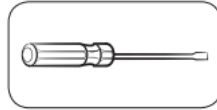
If the refrigerator cannot pass through the entrance to your home or kitchen due to its size, follow these instructions to remove and then re-install the refrigerator's doors.

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

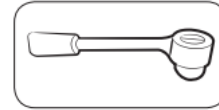
Tools required (not provided)



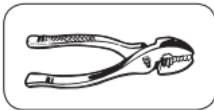
Phillips screwdriver



Flat-head screwdriver



Socket wrench $\frac{3}{8}$ " (10 mm)



Pliers




Allen wrench $\frac{1}{4}$ " (5 mm)

Detach the fridge doors

	<p>1. With the door opened, remove the screws from the top cover</p>
	<p>2. Disconnect the wires and the water tube from the left-side door. Do the following sequentially:</p> <ul style="list-style-type: none"> • Decouple the connector. • While holding down one end of the water line <p>CAUTION Keep the water tube clips out of children's reach.</p>
	<p>3. Remove the top hinges.</p> <ul style="list-style-type: none"> • Pull and remove the hinge lever. • Then, remove the door hinge. • Repeat this step on the other side.
	<p>4. Lift straight up to remove the door.</p> <ul style="list-style-type: none"> • Repeat this step on the other side. <p>CAUTION Do not remove both doors simultaneously. Make sure to remove one door at a time. Otherwise, any of the doors may fall and cause physical injury.</p>
	<p>5. Remove the middle hinge.</p> <ul style="list-style-type: none"> • Remove the screw from the hinge using a Phillips screwdriver. • Remove 1 hex-head bolts from the hinge using an Allen wrench (1/4", 5 mm). • Remove the middle hinge. • Repeat this step on the other side.

To reattach the fridge door

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

 <p>01 Dispenser 02 Center of transparent coupler 03 Guidelines</p>	<p>CAUTION</p> <p>To prevent water leaks from the dispenser, the water line must be fully connected. Make sure both tubes of the water line are inserted fully to the center of transparent coupler (A) or the guidelines (B).</p>
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Detach the FlexZone™ drawer

	1. Lift up to remove the FlexZone™ basket.
	2. Remove the wire cover with harness using a flat-head screwdriver.
	3. Press the locking tab to disconnect the wire connector.
	4. Remove the hex-head bolt from each side using a socket wrench (3/8", 10 mm) or a screwdriver.
	5. Lift up to remove the drawer front of the FlexZone™ from the rail assembly.
	<p>CAUTION</p> <p>Use caution when removing the rail assembly, which may fall off causing damage to the floor.</p> <p>Make sure to put the FlexZone™ drawer in place after removing or mounting the FlexZone™ basket. The FlexZone™ drawer may not open or close if the freezer drawer is not in place.</p> <p>Do not store too much food in the FlexZone™ drawer. This prevents the FlexZone™ drawer from closing properly, resulting in frost buildup.</p>

To reattach the FlexZone™ drawer

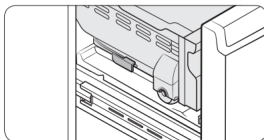
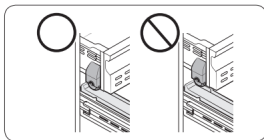
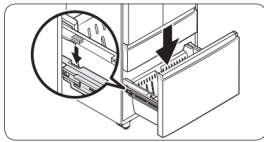
After you have moved the refrigerator to its final location, reattach the FlexZone™ drawer by following the removal instructions in reverse order.

CAUTION

If the FlexZone™ or the indicator does not operate properly, make sure the connectors are connected properly.

Detach the freezer drawer

	1. Push the upper basket to the end, and then pull up to remove.
	2. Pull up to remove the lower basket from the rail assembly.
	3. Press down the hooks to unlock the rail assembly.
	4. While holding the upper area of the drawer front of the freezer, slide out all the way to remove the freezer drawer from the rail assembly.



CAUTION

- Make sure you mount the freezer baskets in the right position. Otherwise, the drawer will not open or close properly, which causes frost to build up.
- Do not store too much food in the freezer baskets. This prevents the freezer drawer from closing properly, resulting in frost buildup.
- While the lower basket is fully open, put the upper basket into the freezer drawer. Make sure the wheels of the upper basket are on the end of the rails of the lower basket. 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.
- Be careful not to scratch or dent the rail assembly.

To reattach the freezer drawer

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

STEP 4 Levelling the refrigerator

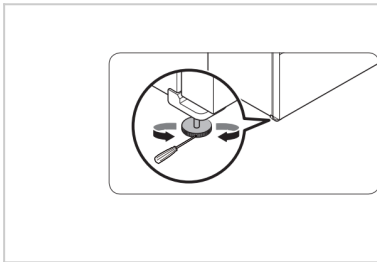
CAUTION

- The refrigerator must be levelled on a flat, solid floor. Failing to do so can cause damage to the

refrigerator or physical injury.

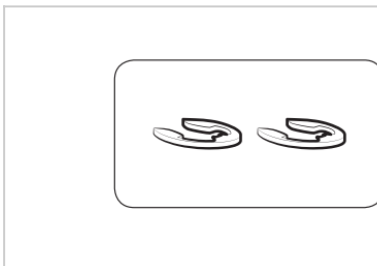
- Levelling must be performed with the refrigerator empty. Make sure no food items are inside the refrigerator.
- Also, open the freezer drawer and remove the lower basket.
- For safety reasons, adjust the refrigerator so that the front is a little higher than the rear.

Level the refrigerator using the special screws (levellers) on the front legs. Use a flat-head screwdriver to turn the revelers.



To adjust the height on one side: Insert a flat-head screwdriver into a notch in the leveller on that side. (left or right) Turn the leveller clockwise to raise the refrigerator. Turn it counterclockwise to lower. Repeat on the other side.

STEP 5 Adjust the door height and the door gap



Snap rings The height of a door can be adjusted using the provided snap rings, which come in 4 different sizes (1 mm, 1.5 mm, 2 mm, and 2.5 mm)

To adjust the height of a door

	1. Check the height difference between the doors, and then raise and hold the door with the lower height.
	2. Insert a suitable-sized snap ring (A) between the door and the hinge as shown.

CAUTION

- Insert only one snap ring. If you insert two or more snap rings, the rings may slip out or make a rubbing noise.
- Keep the snap rings out of children's reach and keep them for future use.
- Do not raise the door too much. The door can contact and damage the top cover.

STEP 6 Connect the water dispenser line

A water dispenser with a filter is one of the helpful features on your new refrigerator. To help promote better health, the water filter removes unwanted particles from your water.

However, it does not sterilize or destroy microorganisms. You may need to purchase a water purifying system to do that.

The water line also connects to the ice maker. For the ice maker to operate properly, water pressure of 20-125 psi is required.

If the refrigerator is installed in an area with low water pressure (below 20 psi), you can install a booster pump to compensate for the low pressure.

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

NOTE

- Water line installation kits are available at extra cost from your retailer. We recommend using a water line installation kit that contains copper tubing and a 1/4" (6 mm) compression nut.
- Use the new hose-sets supplied with the appliance only. Do not re-use an old hose set

	<ol style="list-style-type: none"> 1. Shut off the main water source. 2. Insert the pipe clamp (B) and the shutoff valve (C) into the cold water line (A).
	<ol style="list-style-type: none"> 3. Connect the water line installation kit (A) to the shutoff valve (B).

Connect the water supply line to the refrigerator

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

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



	<p>A. Refrigerator B. Household water supply line C. Water Line: must be kept straight. 01 Compression Nut (1/4") (Assembled) 02 Ferrule (Not supplied) 03 Copper tubing (Not supplied) 04 Plastic Tubing (Assembled) 05 Compression Fitting (Assembled) 06 Molded end (Bulb) 07 Compression nut (B) (1/4") (Not supplied) 08 Plastic Tubing (A) (Not supplied)</p>
	<p>NOTE If you have to relocate the refrigerator after connecting the water line (C), make sure the joined section of the water line must be straight.</p>

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

CAUTION

- If you use plastic tubing (A), do not use it without the molded end (Bulb).
- Leaving the water line disconnected may cause the water valve to produce a buzzing sound over time. If this is the case, make sure that the ice making function is turned“OFF” and do not attempt to use the water dispenser.

2. Tighten the compression nut (B) onto the compression fitting. Do not over-tighten the compression nut (B).
3. Turn the water on and check for any leakage. If you find water drops or leakage inthe 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.

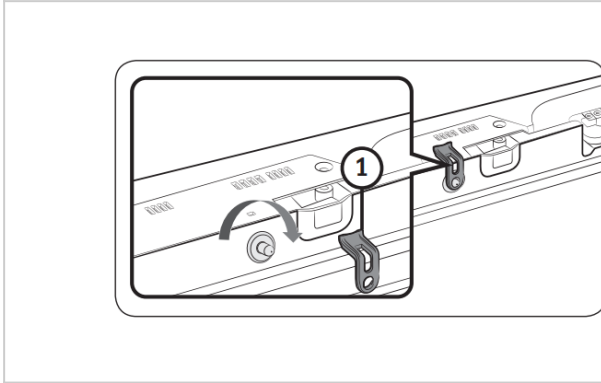
- If you have to repair or disassemble the water line, cut off 1/4“ of the plastic tubing to make sure you get a snug, leak-free connection.



- 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.

STEP 7 Initial settings

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



CAUTION Before installing the refrigerator, make sure to remove the Cover Interlock (1) from the top of the fridge door. Otherwise, injuries may be caused by the ice crushing blade.

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, confirm that:

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

OPERATION

User interface

NOTE

- For detailed information about the refrigerator's functions, and apps, see the on-screen user manual available on the LCD display of your refrigerator.

- The content of apps and widgets, or their design is subject to change. Support for apps and widgets may be discontinued without notice, depending on the content provider's policy.
- Underage transactions with the services must be supervised by adults.
- The PANDORA apps are only available in the United States.

01 Home screen

<p>01 Apps & Widgets</p> <ul style="list-style-type: none"> • Tap a desired app or widget to launch it. • Tap and hold an app or widget to enter Edit mode. A grid appears. In Edit mode, you can drag and drop an app or widget to a new position on the grid. When you move the app or widget to a new grid location, the location turns blue if it is available. If it is not available, it turns red. <p>You can add an app or widget that has been removed from the All Apps list.</p> <p>02 Status bar</p> <ul style="list-style-type: none"> • Bluetooth (📶): Indicates Bluetooth connection status. • USB (🔌): Indicates USB connection status. • Remote Management (🔒): Turns on when Remote Management is enabled and running. 	
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NOTE The refrigerator supports USB memory that is formatted in the FAT32 or exFAT file systems. NTFS is not supported. Be sure to convert NTFS to FAT32 or exFAT before use.

- Network (📶): Indicates network connection status in 5 levels (Off, 1-4).

02 Task bar



01 Microphone	<p>Tap to turn on or off the voice recognition function.</p> <p>The microphone icon turns red when it is turned off.</p>
02 Menu	<p>Tap to display the menus available.</p>
03 Home	<ul style="list-style-type: none"> • Tap to open the Home screen. • Tap and hold to open the Task Manager. See the Task Manager section for details.
04 Return	<p>Tap to return to the previous screen.</p>
05 Notification	<p>Tap to display the Quick Panel.</p>

Fridge Manager

To access Fridge Manager, swipe the Home screen to the left, and then tap the Fridge Manager widget.

	<ul style="list-style-type: none"> • On the Fridge Manager widget, the current fridge and freezer temperatures as well as active special functions are displayed. • For detailed settings, tap the widget to open the Fridge Manager.
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The Fridge Manager is a graphical representation of your refrigerator. The top half represents the refrigerator compartment, the bottom left the freezer compartment, and the bottom right the FlexZone. The temperature or mode settings for each are displayed over each section. Fridge Manager At a Glance

01 Temperature

Change the set temperature in the fridge, freezer, and FlexZone. You can also turn on and turn off the refrigerator's Power Cool function and the freezer's Power Freeze function.

- Power Freeze speeds up the freezing process at maximum fan speed. The freezer keeps running at full speed for several hours and then returns to the previous temperature.
- To freeze large amounts of food, activate Power Freeze for at least hours before putting food in the freezer.

NOTE Using Power Freeze or Power Cool increases power consumption. Make sure you turn it off to return to the previous temperature if you do not intend to use it.

02 Special Features

View a short explanation of some of the refrigerator's special features.

03 Fridge Settings

Change many of the fridge's settings including settings for ice making, the door alarm, and the temperature units (°F or °C). See the next page for details.

04 External Conditions

Displays the external (ambient) temperature and humidity.

05. Auto Water Fill Status

Displays the status of the Auto Water Fill function.


06. Ice Maker Status

Displays the operation status of the Ice Maker.



NOTE

- Also displayed is the Ice Off (ice making off) indicator at the top, center. When the indicator displays Ice Off, the refrigerator's ice maker is turned off.

- If the ice maker is turned off, it will turn on if you press and hold the ice lever for more than 5 seconds.

Ice Maker	Turns the icemaker on and off. Tap and drag the button to turn on or off. Note that if the ice bucket is full of ice, the refrigerator will not start making ice when you drag the button to On. Instead, displays the Ice Making Off indicator on the main screen.
Auto Water Fill	<p>Turns the Auto Water Fill function on and off. Tap and drag the button to turn on or off. Open the left door of the fridge, and then insert the water tank. Close the door and the water tank starts to be filled with water up to the a preset level some time later.</p> <p> NOTE</p> <ul style="list-style-type: none"> • By default, Auto Water Fill is disabled. Enable this function after you have installed the water line. • If you open the door or push the dispenser lever, this function is stopped temporarily. • While the water tank fills with water, the mood light on the dispenser panel stays lit.
Dispenser Lock	Turns the ice and water dispensers on and off. Tap and drag the button to turn on or off.
Door Alarm	The door alarm sounds if you leave the door open. Tap and drag the button to turn on or off.
Temp. Unit	Switch the temperature scale between Celsius and Fahrenheit. Touch °F or °C to change the scale.



Water Filter	<p>Provides a water filter replacement tutorial and lets you reset the water filter replacement indicator. Tap to open.</p> <p> NOTE</p> <p>After installing the water filter, tap Water Filter, and then tap RESET. Tapping RESET re-initializes the function that measures the time remaining until the water filter needs to be replaced again.</p>
Self Check	<p>Self Check is a self diagnoses function. Tap to open. Tap START to run.</p>
Energy Saver	<p>Turns the Energy Saver mode on and off. Tap and drag the button to turn on or off. By default, the Energy Saver mode is enabled.</p> <p> NOTE</p> <p>If condensation or water drops form on or around the doors, turn the Energy Saver mode off.</p>
Demand Response	<p>Works with the Smart Grid energy saving manager. Tap to open. Tap and drag the button to turn on or off. See the Smart Grid section in this manual for more information.</p>
Cooling Off	<p>Cooling Off mode (also called Shop mode), is designed for use by retailers when they are displaying refrigerators on the shop floor.</p> <p>In Cooling Off mode, the refrigerator's fan motor and lights work normally, but the compressors do not run, and the refrigerator and freezer do not get cold. If Cooling Off is turned on, all cooling controls will turn to OFF on the Fridge Manager.</p> <p>Tap and drag the button to turn on or off.</p>

Samsung Connect

Installation

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

NOTE

- The Samsung Connect app is designed for Android 6.0 (Marshmallow) or higher, or iOS or higher, and is optimized for Samsung smartphones (Galaxy S and Galaxy Note series).
- For improved performance, the Samsung Connect app is subject to change without notice or discontinued support according to the manufacturer's policy.
- Recommended encryption systems include WPA/TKIP and WPA2/AES. Any newer or non-standard Wi-Fi authentication protocols are not supported.
- Wireless networks may be affected by the surrounding wireless communication environment.

- If your Internet service provider has registered the MAC address of your PC or modem for identification, your Samsung Smart Refrigerator may fail to connect to the Internet. If this happens, contact your Internet service provider for technical assistance.
- The firewall settings of your network system may prevent your Samsung Smart Refrigerator from accessing the Internet. Contact your Internet service provider for technical assistance. If this symptom continues, contact a local Samsung service center or retailer.
- To configure the wireless access point (AP) settings, see the user manual of the AP router).
- Samsung Smart Refrigerators support both Wi-Fi 2.4 GHz with IEEE 802.11 b/g/n and Soft-AP protocols. (IEEE 802.11 n is 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 Samsung Connect app on your phone, 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, 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, add the device manually by selecting the device type, and then selecting the specific device model.

Follow the instructions for setting up your device.

1. Sign in to your Samsung account (if not already signed in).
2. Add the device.
3. Check the connection.
4. Find and connect to a Wi-Fi network.
5. Register the device.
6. Setup is complete. Your device will now appear as a card on the My devices screen.

Refrigerator app

Integrated control

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

- Tap the refrigerator icon in Samsung Connect to open the Refrigerator page.

- Check the operation status or notifications related to your refrigerator, and then change options or settings if necessary.

SMART GRID Function (Demand Response)

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 Override On/Off function.
- To use the SMART GRID (Demand Response) function, you need a separate contract with your electric utility company.

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

Using the SMART GRID (Demand Response) Function

This feature monitors energy prices and demand information from your utility company and sends notifications to the refrigerator to run high energy consuming tasks during offpeak 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 or Temporary Appliance Load Reduction 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.
 - 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 Override function is turned on.
- 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

- TALR (L4) mode is automatically deactivated after it lasts for the received duration (max. 15 minutes), or when the Override function is turned on. The mode is immediately deactivated and the refrigerator returns to the normal state when the door is opened or closed, or the dispenser is used.

To check the MAC address

1. Tap the Settings icon on the Home screen.
2. Scroll down to and open About Device.
3. The screen displays (among others) the Wi-Fi MAC address.

Override Mode

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

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

Activating and deactivating Override mode

1. Tap the Fridge Manage icon.
2. On the bottom of the Fridge Manager screen, tap the Fridge Settings icon.
3. Tap Demand Response.
4. Slide the DAL/TALR override button to the ON or OFF position.

Using the Energy Management Function

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

NOTE

To use the Energy Management refrigerator functions, you have to install the corresponding app first.

01 Operational Status

- You can check the DR and Override status.

02 Energy Consumption Reporting

- Shows the accumulated power consumption. Power consumption data is updated every 5 minutes.

NOTE

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

03 Delay Defrost Capability

The Delay Defrost Capability function saves energy by delaying the defrost operation to a time specified by the user. You can configure the time, and this function will save energy during the

specified period in a 24 hour cycle. If the time is not set, the function works with the default time settings. The default time settings are below:

- 6 am to 10 am: November 1st to April 30th.
- 3 pm to 7 pm: May 1st to October 31st.

To change the time setting for the Delay Defrost Capability

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

Provision for Open Access to the Connected Product Requirements

1. SGIP Open Standards (Smart Energy Profile 2.0 - <http://www.csep.org/>)

- Energy Consumption Reporting
- Demand Response

2. Samsung OPEN API

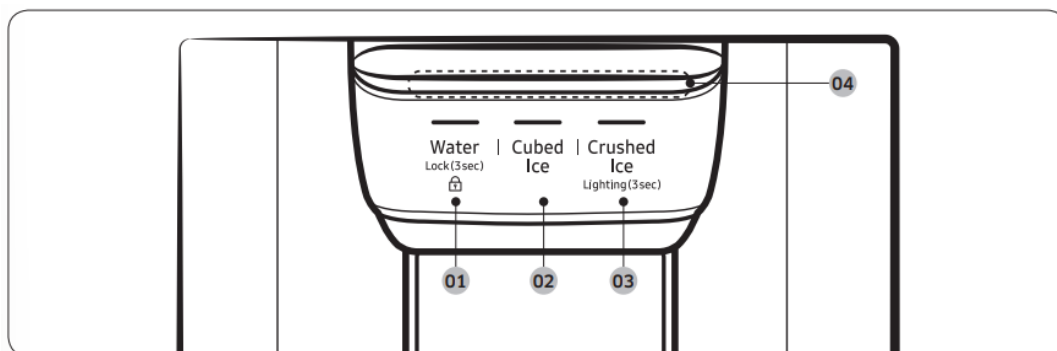
- Operational Status, User Settings & Messages
- ICE Maker Status: GET /icemaker/status/vs/0
- Door Open Alarm: GET /doors/vs/0
- DR Status: GET /drlc/vs/0
- Delay Defrost Capability
- Set Schedule of the Defrost Delay: POST /defrost/reservation/vs/0?op=add
- Get Schedule of the Defrost Delay : GET /defrost/reservation/vs/0
- Delete Schedule of the Defrost Delay: POST /defrost/reservation/vs/0?op=remove
- Defrost Delay On/OFF: POST /defrost/delay/vs/0

Recommendations for voice recognition

Around the 'MIC' marked area of the refrigerator's display is a built-in microphone.

- Speak loud and clear towards the built-in microphone within 1 m from the refrigerator's display.
- Voice recognition may not be triggered or enabled at distances over 1 m or with low voices.
- Speak clearly at a regular pace. Reduce ambient noises, such as from the living room TV.

Dispenser panel



01 Water / Lock

02 Cubed Ice

03 Crushed Ice / Lighting

04 Dispenser mood light

01 Water / Lock (3 sec)

Water	To dispense chilled water, press Water . The corresponding indicator turns on.
Lock (Dispenser panel / Dispenser lever)	To prevent use of the dispenser panel buttons and the dispenser lever, press and hold Water for more than 3 seconds. If you press and hold the button again for more than 3 seconds, the dispenser lock will be deactivated.

02 Cubed Ice

Cubed Ice	Press Cubed Ice to dispense cubed ice. The corresponding indicator turns on.
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03 Crushed Ice / Lighting (3 sec)

Crushed Ice	Press Crushed Ice to dispense crushed ice. The corresponding indicator turns on.
Lighting	By default, the dispenser lamp turns on only when the dispenser is used. To keep the dispenser lamp turning on, press and hold Crushed Ice for 3 seconds. To turn the lamp off, press and hold Crushed Ice for 3 seconds again.

04 Dispenser mood light

The Dispenser mood light lights up in the following conditions:

- When you push the dispenser lever with the dispenser lock disabled
 - Push the dispenser lever and the dispenser mood light turns on. Release the lever and the light turns off after a some time.
- While the water tank is being filled with water with the Auto Water Fill function turned on
 - The dispenser mood light stays lit.

MAINTENANCE

Handling and care

Ice bucket

If you do not dispense ice for an extended period, ice may form clumps inside the bucket. If this happens, remove and empty the ice bucket.

	1. While grabbing the handle of the ice bucket, slightly lift up the bucket, and then remove it to the front.
	2. Remove the remaining ice cubes and put the ice bucket back into place.
	If the ice bucket is not firmly inserted, turn the ice screw 90 degrees, and then try again.

CAUTION

- Do not apply excessive force to the bucket cover. The cover may break.
- Do not forcefully close the door. Water may spill over the ice maker.
- To prevent injury, make sure to clean up any ice or water that has spilled on the floor.
- To prevent accidents or injury, do not let children play with the water dispenser or the ice maker.
- Do not put your hand or an object into the ice chute. This may cause physical injury or product damage.
- Use only the provided ice bucket. Third-party ice buckets may cause a system failure.
- Use only potable water that is connected to the water supply line.

NOTE

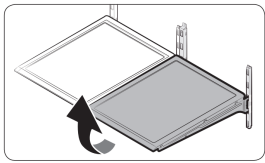
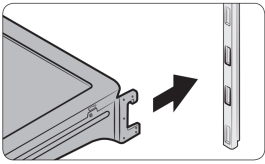
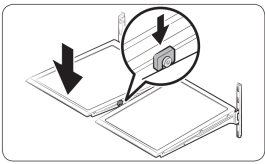
- The water pressure required for ice making is between 20 psi and 125 psi.
- Noise from the ice maker as it produces ice during the ice making process is normal.
- While the door is open, neither the ice maker nor the water dispenser operates.

Auto Water Fill

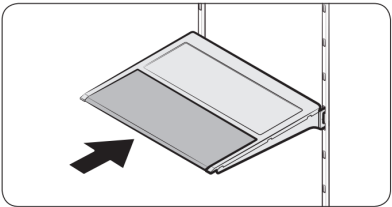
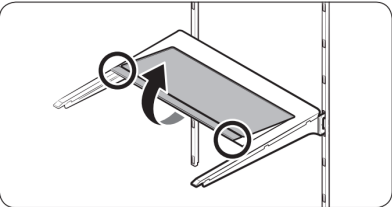
	1. Grasp a handle groove of the sealed mouth, and then pull up to remove.
	2. Grasp both sides of the sealed mouth, and then lift to remove.
	3. While slightly twisting the infuser, pull it out of the sealed mouth. 4. Clean the infuser with neutral agents and running water. Rinse and dry well. 5. Reassemble the Auto Water Fill in the reverse order of disassembly.

Fridge shelves

The appearance of the shelves differs by model.

	<ul style="list-style-type: none"> • To remove a shelf, fully open the corresponding door. Hold the front of the shelf, and then gently lift up and slide out. <p>NOTE Do not lift up the shelf fully when removing or reinserting the shelf. The rear wall of the fridge room can be dented.</p>
	<ul style="list-style-type: none"> • To reinsert, hold the shelf at an angle so the front is higher than the back, and then insert the top hook into the top shelf notch. Then, lower the shelf and insert the bottom shelf hook into the bottom shelf notch.
	<p>CAUTION</p> <ul style="list-style-type: none"> • The tempered glass shelves are heavy. Use caution when removing them. • The shelf must be inserted correctly. Do not insert upside down. • Glass containers may scratch the surface of glass shelves.

Foldable shelf

	<p>To remove, slide up the front of the shelf so that it folds. Then gently lift up and pull out. To reinsert, place the shelf on the angled frame in the main unit, and then, press down to unfold.</p>
	<p>CAUTION</p> <p>After sliding the foldable shelf in and folding it, the front of the shelf can be removed for your convenience. If you use the shelf without removing the front of the shelf, be aware that it can separate from the rear portion, be careful of its possible separation.</p>

Recommended foldable shelf location

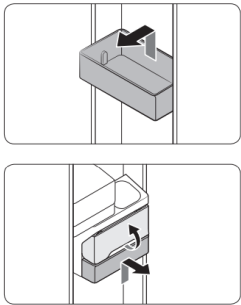


	<p>The foldable shelf folds up from the center, giving you more room for storage.</p> <ul style="list-style-type: none"> • Insert the shelf in the right side of the fridge. Left side insertion does not allow the shelf to fold completely. • To fold, push the front area of the shelf inward so that it folds up from the middle. <p>CAUTION Do not lift up quickly or twist the foldable shelf to take out food under it. It may fall off.</p>
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Vegetable shelf

	<p>1. Slide out the left-side vegetable drawer</p>
	<p>2. Fully open the door, and then remove the shelf.</p>
	<p>3. While supporting the vegetable shelf with one hand, slide it out with the other hand.</p> <p>NOTE To use the space that is opened up after removing the foldable shelf, take out the vegetable shelf. To reinsert, follow the steps above in the reverse order.</p>

Door Bins

	<p>To remove - hold the front sides of the bin, and then gently lift up to remove.</p> <p>To reinsert - insert the door bin slightly above its final 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 fits snugly.</p>
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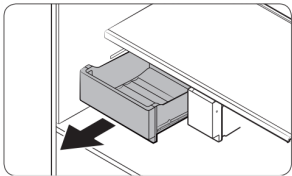
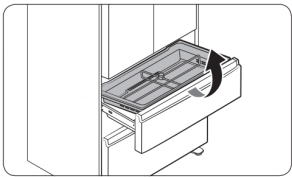
CAUTION

- Do not remove a bin that is filled 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

	<p>Gently lift up the front of the drawer and slide out.</p> <ul style="list-style-type: none"> • 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.
<p>FlexZone™ basket</p> 	<ul style="list-style-type: none"> • To remove, fully open the FlexZone™ drawer. Lift up the FlexZone™ basket, and then pull out with both hands. • To reinsert, fully open the FlexZone™ drawer. While tilting up the front of the basket, insert the rear of the basket into the rail assembly. Lower the front until the basket settles down. • If the divider lock does not function, wipe the bars to remove moisture on them.

To remove the divider and the metal cooling plate (applicable models only) from the FlexZone™ basket

	<ol style="list-style-type: none"> 1. Unlock the divider by turning the divider dial counter clockwise. 2. Slide the divider to the end as shown.
	<ol style="list-style-type: none"> 3. As the divider has the width and length bars, push the lower part of each bar inward to unlock. See the figures for details.
	<ol style="list-style-type: none"> 4. Hold the divider and pull up to remove.
	<ol style="list-style-type: none"> 5. Turn over the basket to remove the metal cooling plate.

CAUTION

The basket and the metal cooling plate are heavy. Use caution when handling them.

Careless handling may cause personal injury or property damage.

To reinsert the metal cooling plate

Reinsertion in the reverse order of removal.

Reinsert the divider into the FlexZone™ basket firmly until you hear a clicking sound.

Freezer baskets

<i>Upper basket</i>	<ul style="list-style-type: none">• To remove, fully slide open the freezer drawer. Push the upper basket to the end, and then pull up 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.
<i>Lower basket</i>	<ul style="list-style-type: none">• To remove, first remove the upper basket. Then, tilt up the front of the lower basket to pull out.• To reinsert, put the basket into the rail assembly with the rear side first.

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 does not open or close properly, which causes 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 fire.
- Do not spray water onto the refrigerator. This may cause electric shock.

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

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

4. Plug in the power cord.

Ice / Water dispenser

CAUTION

When crushed ice is selected, some residual ice chips may collect in the ice chute. To prevent this, remove the residual ice from the chute using a soft, clean cloth.

Rubber seals

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

Inner-view camera

	NOTE Use a cotton swab or microfiber cloth to clean the camera on the left-side door of the fridge
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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.
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Replacement

Water filter

WARNING

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

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

	<p>1. While opening the filter cover, turn the knob of the filter cartridge counter clockwise by 90 degrees (1/4 turn). The filter cartridge unlocks.</p> <p>2. Pull out to remove the cartridge.</p> <p>- If the water filter is severely contaminated, the cartridge may not be easily removable. In that case, use force to pull it out.</p> <p>- To prevent water leaks from the opening, pull the cartridge straight out while removing it.</p>
	<p>NOTE To prevent overflow, empty and dry the water filter tray.</p>
	<p>3. Insert a new filter cartridge. Use only Samsung-provided or approved filters.</p>
	<p>4. Turn the cartridge knob clockwise to lock into place.</p> <p>5. On the Home screen, tap Fridge Manager > Fridge Settings > Water Filter, and then select RESET. The filter indicator turns off.</p> <p>6. When you are done replacing the filter, open the water valve and run water through the dispenser for about 7 minutes. This is to remove impurities and air from the water line.</p>

NOTE

- A newly installed filter may cause the water dispenser to spurt water briefly. This is because air has entered the waterline.
- The replacement process may cause the water dispenser to drip for a short period of time. If it drips, simply wipe up any water on the floor with a dry towel.

Reverse osmosis water filtration system

The water pressure of the water supply system to a reverse osmosis water filtration system must be between 35 psi and 120 psi (241 kPa and 827 kPa).

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

- Check if the sediment filter in the reverse osmosis system is blocked. Replace the filter if necessary.
- Refill the water tank in the reverse osmosis system with water.

- If your refrigerator has a water filter, it may further reduce the water pressure when used in conjunction with a reverse osmosis system. Remove the water filter. For more information or servicing, contact a licensed plumbing professional.

LED Lamps

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

WARNING

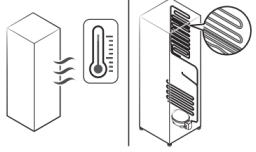
- The lamps are not user-serviceable. Do not attempt to replace a lamp yourself. This can cause electric shock.

To relocate the divider - Hook the back of the divider over the rear wall of the pantry and push the divider down.

TROUBLESHOOTING

General Temperature



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

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

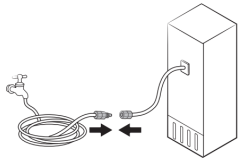
Symptom	Possible causes	Solution
Frost around the vents.	• Food is blocking the vents.	• Make sure no food blocks the refrigerator vents.
Frost on interior walls.	• Door is not closed properly.	• Make sure food does not block the door. Clean the door gasket.
Fruits or vegetables are frozen.	• Fruits or vegetables are stored in the FlexZone.	• Do not store most kinds of fruit or vegetables in the FlexZone.

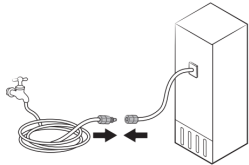
Condensation

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)



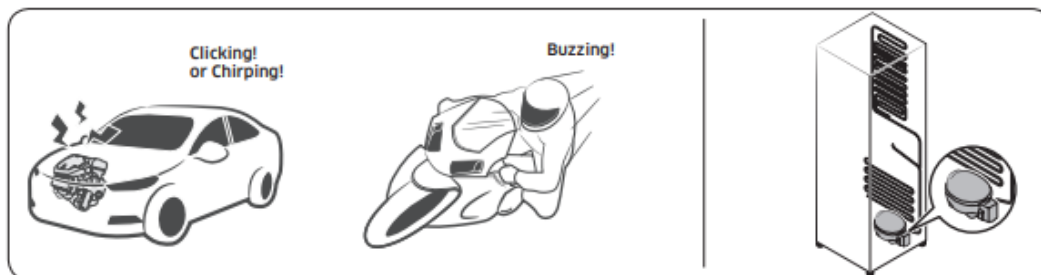
Symptom	Possible causes	Solution
Water flow is weaker than normal.	<ul style="list-style-type: none"> Water pressure is too low. 	<ul style="list-style-type: none"> Make sure the water pressure is between 20 to 120 psi.
Ice maker makes a buzzing sound.	<ul style="list-style-type: none"> The ice maker function is activated, but the water supply to the refrigerator has not been connected. 	<ul style="list-style-type: none"> Activate the Ice Maker off.
Ice maker does not make ice.	<ul style="list-style-type: none"> Ice maker has just been installed. 	<ul style="list-style-type: none"> You must wait for 12 hours for the refrigerator to make ice.
	<ul style="list-style-type: none"> Freezer temperature is too high. 	<ul style="list-style-type: none"> Set the freezer temperature below 0 °F (-18 °C) or -4 °F (-20 °C) in warm ambient air.
	<ul style="list-style-type: none"> Dispenser Lock is activated. 	<ul style="list-style-type: none"> Deactivate dispenser Lock.
	<ul style="list-style-type: none"> Ice maker is off. 	<ul style="list-style-type: none"> Turn on the ice maker.
Ice does not dispense.	<ul style="list-style-type: none"> Ice may jam if the ice dispenser is not used for a long time (approx. 3 weeks). 	<ul style="list-style-type: none"> If you won't be using the refrigerator for a long time, empty the ice bucket and turn off the ice maker.
	<ul style="list-style-type: none"> Ice bucket is not properly inserted. 	<ul style="list-style-type: none"> Make sure the ice bucket is properly inserted.
	<ul style="list-style-type: none"> Water line is not connected properly or water supply is not on. 	<ul style="list-style-type: none"> Check if the water line is installed correctly. Check if the water line stop cock is closed. 
Water does not dispense.	<ul style="list-style-type: none"> Water line is not connected properly or water supply is not on. 	<ul style="list-style-type: none"> Check if the water line is installed correctly. Check if the water line stop cock is closed.

Symptom	Possible causes	Solution
		
	<ul style="list-style-type: none"> • Dispenser Lock is activated 	<ul style="list-style-type: none"> • Deactivate dispenser Lock.
	<ul style="list-style-type: none"> • A third-party water filter was installed. 	<ul style="list-style-type: none"> • Use only Samsung-provided or approved filters. • Unapproved filters may leak and damage the refrigerator.
	<ul style="list-style-type: none"> • Water filter indicator turns on or blinks. 	<ul style="list-style-type: none"> • Replace the water filter. After replacing, reset the filter indicator sensor.

Do you hear abnormal sounds from the refrigerator?

These sounds are normal.

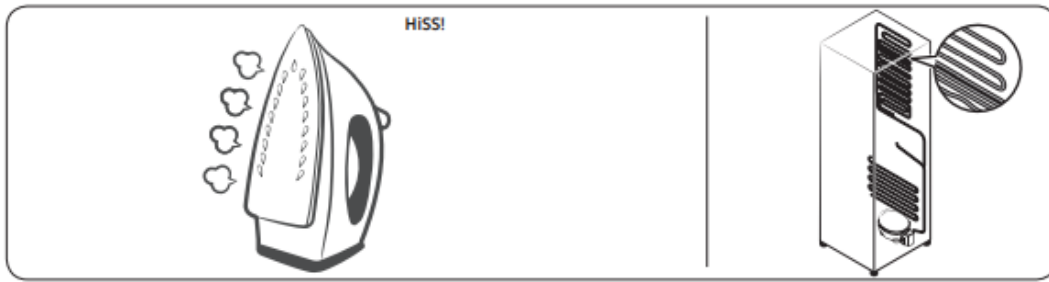
- When starting or ending an operation, the refrigerator may make sounds similar to a car engine ignition. As the operation stabilizes, the sounds will decrease.



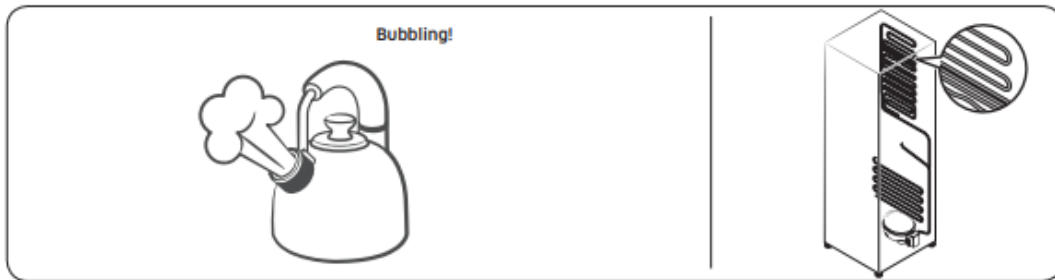
- While the fan is operating, these sounds may occur. When the refrigerator reaches the set temperature, the fan sound will stop. S



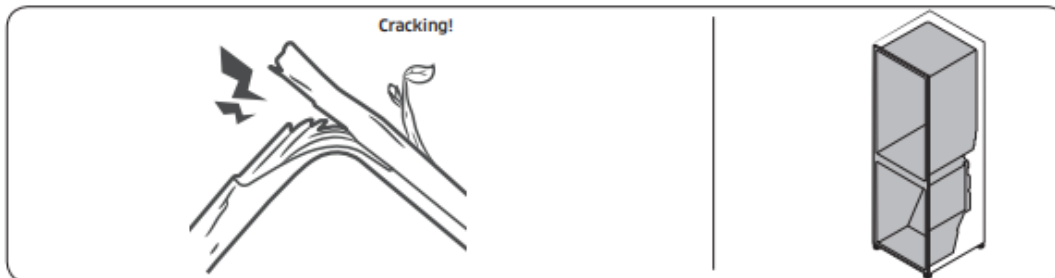
- During a defrost cycle, water may drip on the defrost heater, causing sizzling sounds



- 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 fill the ice maker, buzzing sounds may occur.
- Due to pressure equalizing when you open and close the refrigerator door, whooshing sounds may occur.

Samsung Connect

Symptom	Action
<p>Could not find “Samsung Connect” in the app market.</p>	<ul style="list-style-type: none"> • The Samsung Connect app is available for smartphones that run Android 6.0 (Marshmallow) or higher, or iOS 9.0 or higher.
<p>The Samsung Connect app fails to operate.</p>	<ul style="list-style-type: none"> • The Samsung Connect app is available for applicable models only. • The old Samsung Smart Refrigerator app cannot connect with Samsung Smart Home models.
<p>The Samsung Connect app is installed but is not connected to my refrigerator.</p>	<ul style="list-style-type: none"> • You must log into your Samsung account to use the app. • Make sure that your router is operating normally. • If you have not connected your refrigerator to the Samsung Connect App after the app was installed, you must make the connection using the device registration function of the app.
<p>Could not log into the app.</p>	<ul style="list-style-type: none"> • You must log into your Samsung account to use the app. • If you don't have a Samsung account, follow the app's onscreen instructions to create one.
<p>An error message appears when I try to register my refrigerator.</p>	<ul style="list-style-type: none"> • Easy Connection may fail due to the distance from your access point (AP) or electrical interference from the surrounding environment. Wait a moment and try again.
<p>The Samsung Connect app is successfully connected to my refrigerator but does not run.</p>	<ul style="list-style-type: none"> • Exit and restart the Samsung Connect app or disconnect and reconnect the router. • Unplug the power cord of the refrigerator, and then plug it in again after 1 minute.

Samsung Family Hub

Symptom	Action
Could not find “Samsung Family Hub” in the app market.	<ul style="list-style-type: none">• The Samsung Family Hub app is available for smartphones that run Android 4.4 (KitKat) or higher, or iOS 8.0 or higher.
Could not log into the app.	<ul style="list-style-type: none">• You must log into your Samsung account to use the app.• If you don't have a Samsung account, follow the app's onscreen instructions to create one.



Smart Grid

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

LCD

Symptom	Action
Cannot connect to my TV.	<ul style="list-style-type: none">• This refrigerator can connect only with Samsung Smart TV 6400 series or higher models released since 2015. Please check the model name of your TV first.• Network connections may suffer temporary interruptions. Turn your TV off, and then try again.
The inner view picture looks bulged out or incomplete.	<ul style="list-style-type: none">• The edges of the inner view may look bulged out. The bulging is caused by the convex lens of the camera.• The inner view may be incomplete due to the blind spots on the left and right corners or screened depending on the layout of food items. Make sure to place food items in the front center.
The displayed measurement on the Fridge Manager is not correct.	<ul style="list-style-type: none">• The displayed conditions may differ from the actual temperature and humidity.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.