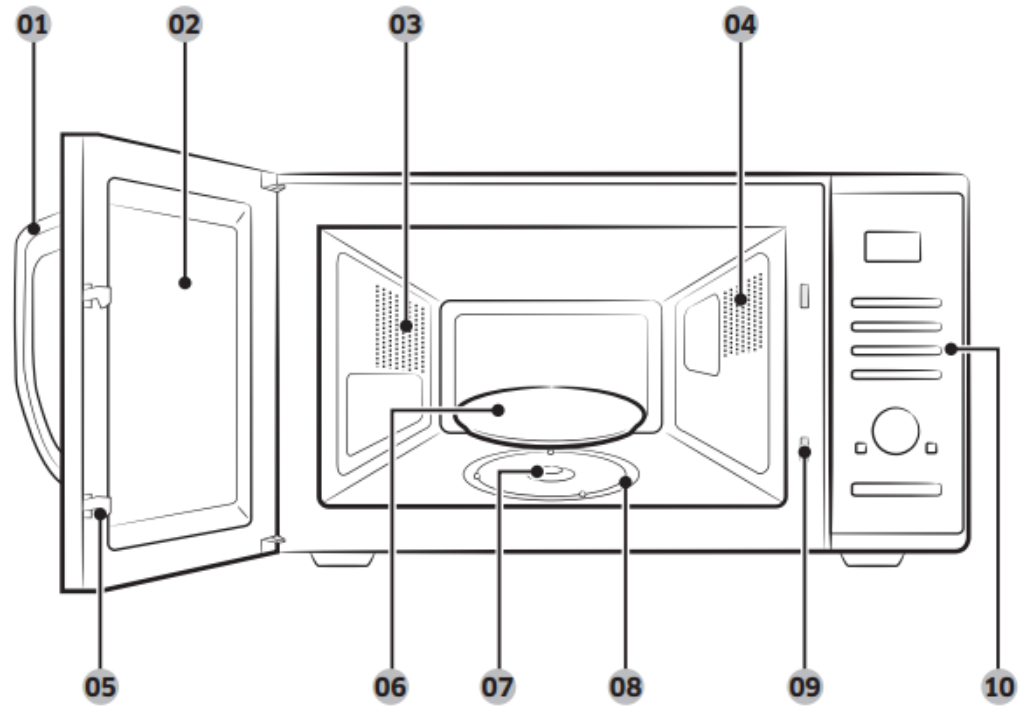


User Manual

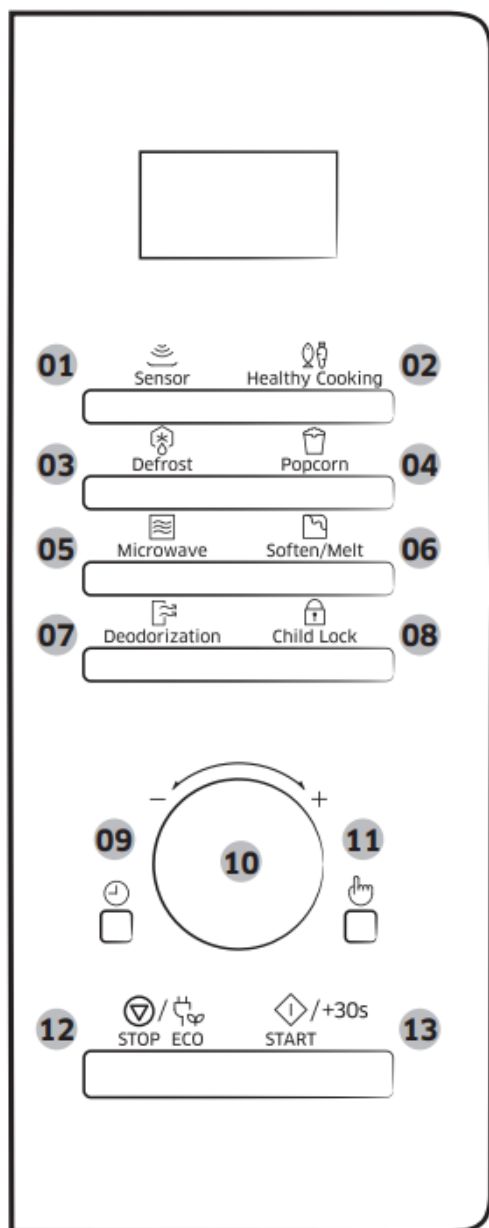
Oven features

Oven



- | | | |
|-------------------------|------------------------|----------------------------------|
| 01 Door handle | 02 Door | 03 Ventilation holes |
| 04 Light | 05 Door latches | 06 Turntable |
| 07 Coupler | 08 Roller ring | 09 Safety interlock holes |
| 10 Control panel | | |

Control panel



- 01** Sensor Cook Button
- 02** Healthy Cooking button
- 03** Defrost Button
- 04** Popcorn Button
- 05** Microwave Button
- 06** Soften/Melt Button
- 07** Deodorization Button
- 08** Child Lock Button
- 09** Clock Button
- 10** Dial Knob (Weight/Serving/Time)
- 11** Select Button
- 12** Stop/Eco Button
- 13** Start/+30s Button

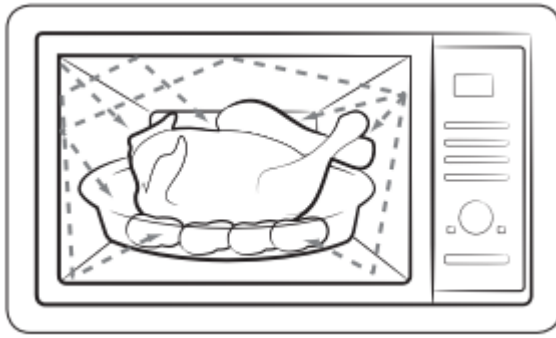
How a microwave oven works

Microwaves are high-frequency electromagnetic waves; the energy released enables food to be cooked or reheated without changing either the form or the colour.

You can use your microwave oven to:

- Defrost
- Reheat
- Cook

Cooking principle.



1. The microwaves generated by the magnetron reflected at cavity and are distributed uniformly as the food rotates on the turntable. The food is thus cooked evenly.
2. The microwaves are absorbed by the food up to a depth of about 1 inch (2.5 cm). Cooking then continues as the heat is dissipated within the food.
3. Cooking times vary according to the container used and the properties of the food:
 - Quantity and density
 - Water content
 - Initial temperature (refrigerated or not)

IMPORTANT

As the centre of the food is cooked by heat dissipation, cooking continues even when you have taken the food out of the oven. Standing times specified in recipes and in this booklet must therefore be respected to ensure:

- Even cooking of the food right to the centre.
- The same temperature throughout the food.

Checking that your oven is operating correctly

The following simple procedure enables you to check that your oven is working correctly at all times. If you are in doubt, refer to the section entitled “Troubleshooting”

NOTE The oven must be plugged into an appropriate wall socket. The turntable must be in position in the oven. If a power level other than the maximum (100 % - 1000 W) is used, the water takes longer to boil.

Open the oven door by pulling the handle on the right side of the door. Place a glass of water on the turntable. Close the door. Press the START/+30s button and set the time to 4 or 5 minutes, by pressing the START/+30s button the appropriate number of times.

Result: The oven heats the water for 4 or 5 minutes. The water should then be boiling.

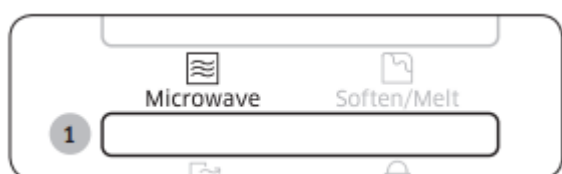


Cooking/Reheating

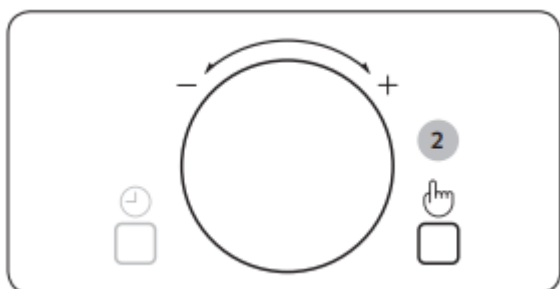
Open the door. Place the food in the centre of the turntable. Close the door. Never switch the microwave oven on when it is empty.

1. Press the Microwave button.

Result: The 100 % (Maximum cooking power) indications are displayed



2. Select the appropriate power level by turning the Dial Knob. (Refer to the power level table.) And then press the Select button.



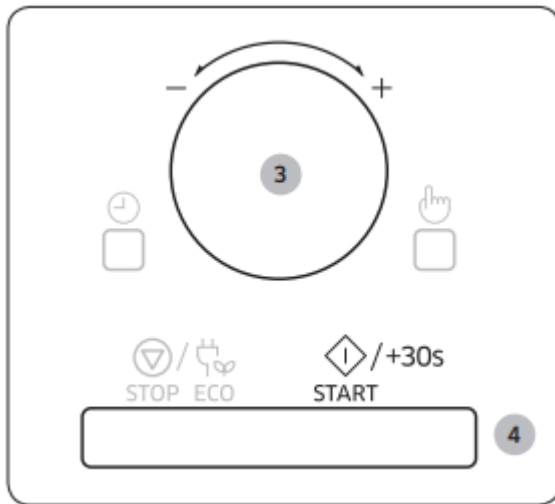
3. Set the cooking time by turning the **Dial Knob**.

Result: The cooking time is displayed.

4. Press the **START/+30s** button.

Result: The oven light comes on and the turntable starts rotating. Cooking starts and when it has finished.

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.
- 4) The Maximum Cooking Time is 99 minutes 99 Seconds.

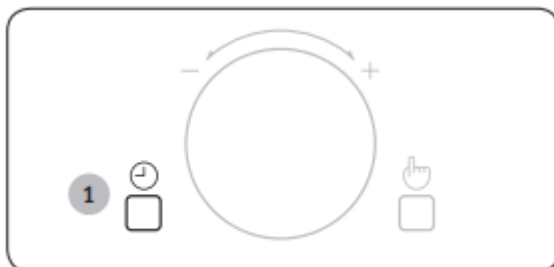


Setting the time

When power is supplied, “88:88” and then “12:00” is automatically displayed on the display. Please set the current time. The time can be displayed in either the 24- hour or 12-hour notation. You must set the clock:

- When you first install your microwave oven
- After a power failure

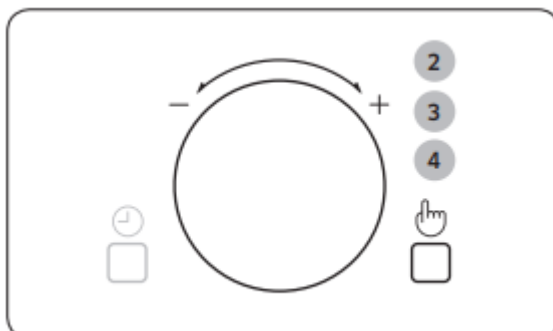
1. Press the Clock button



2. Set the 24-hour or 12-hour notation by turning the Dial Knob. And then press the Select button.

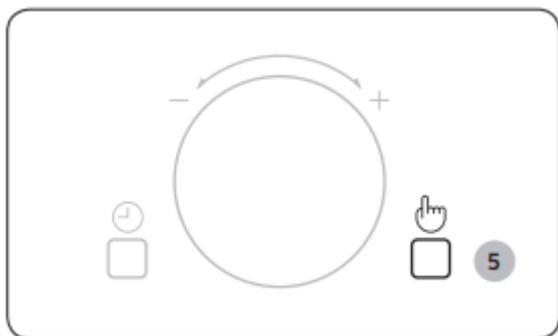
3. Turn the Dial Knob to set the hour. And then press the Select button.

4. Turn the Dial Knob to set the minute.



5. When the right time is displayed, press the Select button to start the clock.

Result: The time is displayed whenever you are not using the microwave oven.



Power levels and time variations

The power level function enables you to adapt the amount of energy dissipated and thus the time required to cook or reheat your food, according to its type and quantity. You can choose between ten power levels

Power level	Percentage
Warm	10 %
Defrost	20 %
Low	30 %
Medium low	40 %
Medium	50 %
Simmer	60 %
Medium high	70 %
Reheat	80 %
Saute	90 %
High	100 %

The cooking times given in recipes and in this booklet correspond to the specific power level indicated.

If you select a...	Then the cooking time must be...
Higher power level	Decreased
Lower power level	Increased

Adjusting the cooking time

You can increase the cooking time by pressing the START/+30s button once for each 30 seconds to be added.

- Check how cooking is progressing at any time simply by opening the door
- Increase the remaining cooking time

Method 1.

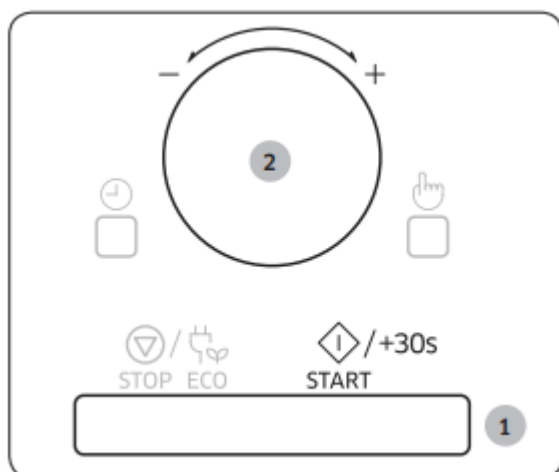
To increase the cooking time of your food during cooking, press the START/+30s button once for each 30 seconds that you wish to add.

Example: To add three minutes, press the START/+30s button six times.

Method 2.

Just turning Dial Knob to adjust cooking time.

To increase cooking time, turn to right and to decrease cooking time, turn to left



Stopping the cooking

You can stop cooking at any time so that you can:

- Check the food
- Turn the food over or stir it
- Leave it to stand

To stop the cooking...	Then...
Temporarily	Temporarily : Open the door or press the STOP/ECO button once. Result: Cooking stops. To resume cooking, close the door again and press the START/+30s button.
Completely	Completely : Press the STOP/ECO button once. Result: Cooking stops. If you wish to cancel the cooking settings, press the STOP/ECO button again.

Setting the energy save mode

The oven has an energy save mode.



- Press the STOP/ECO button.

Result: Display off.

- To remove energy save mode, open the door or press the STOP/ECO button and then display shows current time. The oven is ready for use.

NOTE

Auto energy saving function

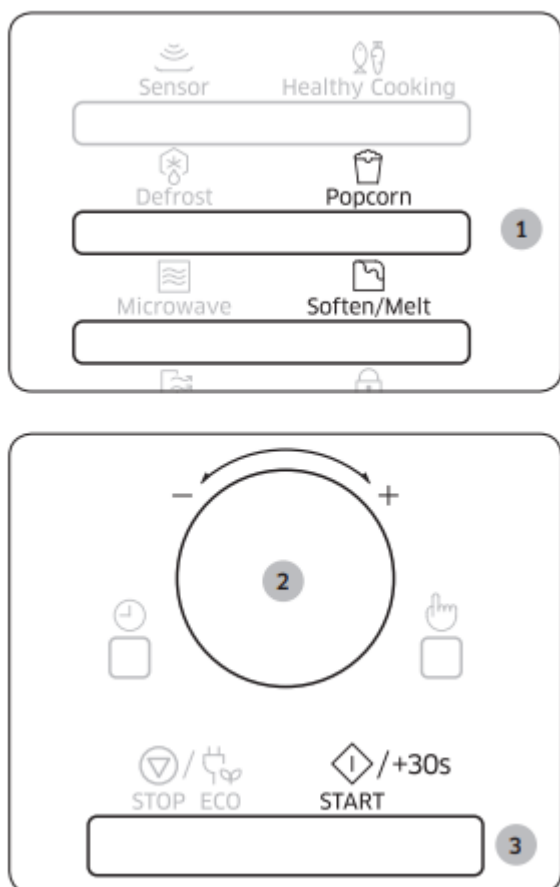
If you do not select any function when appliance is in the middle of setting or operating with temporary stop condition, function is canceled and clock will be displayed after 25 minutes.

Using the auto cook features

You do not need to set either the cooking times or the power level. You can adjust the size of the serving by turning the Dial Knob.

First, place the food in the centre of the turntable and close the door.

1. Press the Popcorn, Soften/Melt button.



2. Select the type of food or serving size that you are cooking by turning the Dial Knob. (Refer to the table on the side.)

3. Press the START/+30s button.

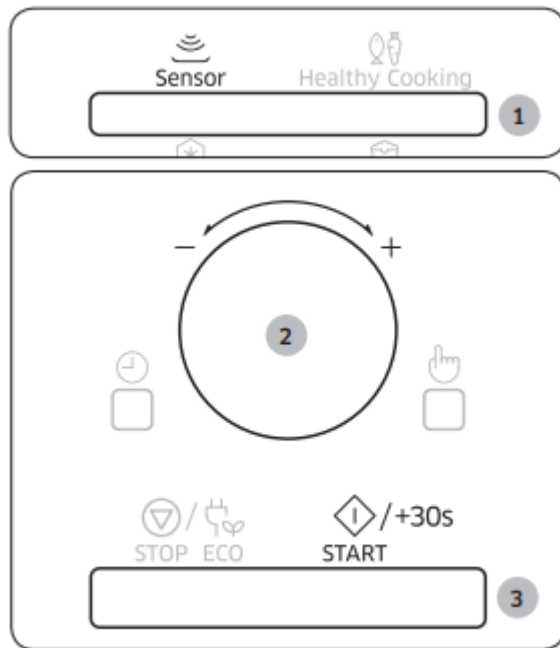
Result: The food is cooked according to the pre-programmed setting selected.

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again

Using the sensor cook features

The 10 Sensor Cook features include/provide pre-programmed cooking times. You do not need to set either the cooking times or the power level. You can adjust the Sensor Cook type of food by turning the Multi Function Selector Dial. First, place the food in the centre of the turntable and close the door

1. Press the Sensor Cook button.



2. Select the type of food that you are cooking by turning the Multi Function Dial Knob. Refer to the table on the following page for a description of the various pre-programmed settings. At that time, press the Select Button.

3. (In case of 3~5 Food Type) Select the Cooking Item that you are cooking by turning the Munti Function Dial Knob.

4. Press the START/+30s button. Result: Cooking starts. When it has finished.

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.

NOTE Use only recipients that are microwave-safe.

The following table presents 10 Sensor Cook programmes. It contains its recommended weight range per item after cooking and appropriate instructions. In the beginning of the programme the display shows the sensor period. After this period the cooking time and power level is calculated automatically and the remaining cooking time will be displayed. The cooking process is controlled by the sensor system for your convenience.

Auto sensor cooking instructions

The Auto Sensor allows you to cook your food automatically by detecting the amount of gases generated from the food while cooking.

- When cooking food, many kinds of gases are generated.
- The Auto Sensor determines the proper time and power level by detecting these gases from the food, eliminating the need to set the cooking time and power level.

- When you cover a container with its lid or plastic wrap during Sensor Cooking, the Auto Sensor will detect the gases generated after the container has been saturated with steam. If using cling film or plastic wrap be sure to leave a small opening near the edge of dish for ventilation or be sure to pierce at several times.
- Shortly before cooking ends, the remaining cooking time will begin its count down. This will be a good time for you to rotate or stir the food for even cooking if it is necessary.
- Before auto sensor cooking food may be seasoned with herbs, spices or browning sauces. A word of caution though, salt or sugar may cause burn spots on food so these ingredients should be added after cooking.

Utensils & Cover for sensor cooking

- To obtain good cooking results with this function, follow the directions for selecting appropriate containers and covers in the charts in this book.
- Always use microwave-safe containers and cover them with their lids or with plastic wrap. When using plastic wrap, turn back one corner to allow steam to escape at the proper rate.
- Always cover with the lid intended for the utensil being used. If the utensil does not have its own lid, use plastic wrap.
- Fill containers at least half full.
- Foods that require stirring or rotating should be stirred or turned toward the end of the Sensor Cook cycle, after the time has started to count down on the display.

Important

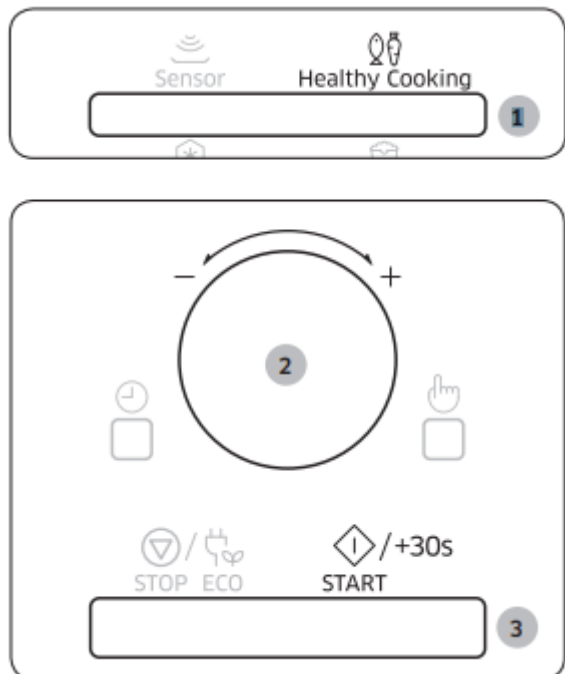
- After installing the oven and plugging into an electrical outlet, do not unplug the power cord. The gas sensor needs time to stabilize in order to cook satisfactorily.
- It is not advisable to use the auto sensor cooking feature on a continuous cooking operation, i.e. one cooking operation immediately after another.
- Install the oven in a well ventilated location for proper cooling and airflow and to ensure the sensor will operate accurately.
- To avoid poor results, do not use the Auto sensor when the room ambient temperature is too high or too low.
- Do not use volatile detergent to clean your oven. Gas resulting from this detergent may affect the sensor.
- Avoid placing the oven near high moisture or gas emitting appliances, since this will interfere with the proper performance of the Auto Sensor.
- Always keep the inside of the oven clean. Wipe all spills with a damp cloth. This oven is designed for household use only.

Using the healthy cooking features

The cooking time and temperature will be adjusted according to the selected recipe.

First, place the food in the centre of the turntable and close the door.

1. Press the Healthy Cooking button.



2. Select the type of food that you are cooking by turning the Dial Knob. (Refer to the table on the side.)

3. Press the START/+30s button.

Result: The food is cooked according to the pre-programmed setting selected.

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.

The table contains food quantities, weight ranges, and appropriate recommendations. Cooking modes and times have been pre-programmed for your convenience.

IMPORTANT Use only recipients that are microwave-safe

Code/Food	Serving size	Instructions
1 Broccoli	250 g	Rinse and clean fresh broccoli and prepare florets. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
2 Carrots	250 g	Rinse and clean carrots and prepare even slices. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
3 Green Beans	250 g	Rinse and clean green beans. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
4 Spinach	150 g	Rinse and clean spinach. Put into a glass bowl with lid. Do not add water. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
5 Corn on the Cob	500 g	Rinse and clean corn on the cobs and put into an oval glass dish. Cover with microwave cling film and pierce film. Stand for 1-2 minutes.
6 Peeled Potatoes	250 g	Wash and peel the potatoes and cut into a similar size. Put them into a glass bowl with lid. Add 45-60 ml (3-4 tbsp) water. Put bowl in the centre of turntable. Cook covered. Stand for 2-3 minutes.

Code/Food	Serving size	Instructions
7 Brown Rice	250 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (500 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 5-10 minutes.
8 Wholemeal Macaroni	250 g	Use a large glass ovenware dish with lid. Add 1 L hot boiling water, a pinch of salt and stir well. Cook covered. Stir before standing time and drain thoroughly afterwards. Stand for 1 minutes.
9 Quinoa	250 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (500 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 1-3 minutes.
10 Bulgur	250 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (500 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 2-5 minutes.

Using the defrost features

This is useful to defrost frozen meat. The operating time and power level will be adjusted according to the selected programme.

Open the door. Place the frozen food on a ceramic in the centre of the turntable. Close the door.

1. Press the Defrost button.



2. Select the size of the serving by turning the Dial Knob. (Refer to the table on the side.)

3. Press the START/+30s button.

Result:

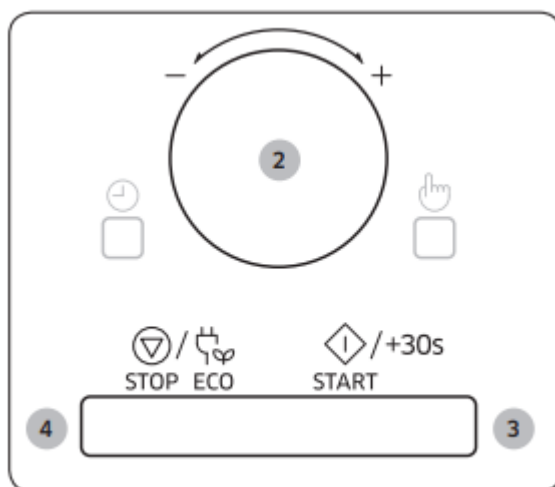
- Defrosting begins.
- The oven beeps through defrosting to remind you to turn the food over.

4. Press the STOP/ECO button to finish defrosting.

Result:

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.

NOTE The maximum serving size is 3.5 lbs



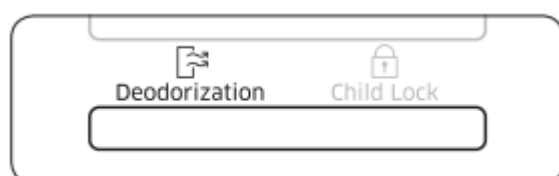
The table contains food quantities, weight ranges, and appropriate recommendations

Food	Serving size	Instructions
Roast Beef, Pork	2.5-3.5 lbs.	Start with the food placed fat side down. After each stage, turn the food over and shield any warm portions with narrow strips of aluminum foil. Let stand, covered for 10-20 minutes.
Steaks, Chops, Fish	0.5-3.5 lbs.	After each stage, rearrange the food. If there are any warm or thawed portions of food, shield them with narrow, flat pieces of aluminum foil. Remove any pieces of food that are nearly defrosted. Let stand, covered for 5-10 minutes.
Ground Meat	0.5-3.5 lbs.	After each stage, remove any pieces of food that are nearly defrosted. Let stand, covered with foil for 5-10 minutes.
Whole Chicken	2.5-3.5 lbs.	Remove giblets before frozen poultry. Start defrosting with the breast side down. After the first stage, turn the chicken over and shield any warm portions with narrow strips of aluminum foil. After the second stage, again shield any warm portions with narrow strips of aluminum foil. Let stand, covered for 30-60 minutes in the refrigerator.
Chicken Pieces	0.5-3.5 lbs.	After each stage, rearrange or remove any pieces of food that are nearly defrosted. Let stand for 10-20 minutes.

Using the deodorization features

Use this features after cooking odorous food or when there is a lot of smoke in the oven interior.

First clean the oven interior.



Press the Deodorization button after you have finished cleaning. As soon as you press the Deodorization button, the operation will start automatically. when it has finished, the oven beeps four times.

NOTE

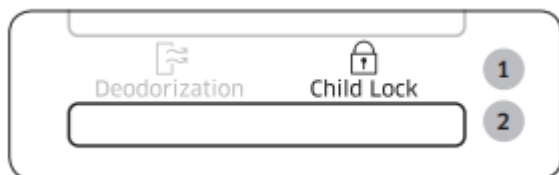
The deodorization time has been specified as 5 minutes. It increases by 30 seconds whenever the START/+30s button is pressed.

NOTE

The maximum deodorization time is 15 minutes.


Using the child lock features

Your microwave oven is fitted with a special child lock programme, which enables the oven to be “locked” so that children or anyone unfamiliar with it cannot operate it accidentally.



1. Press the Child Lock button at the 3 second.

Result:

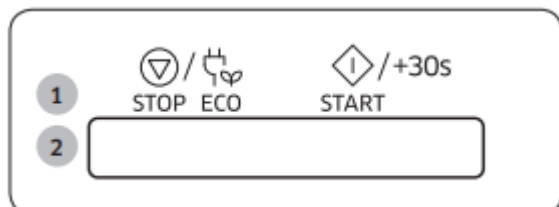
- The oven is locked (no functions can be selected).
- The display shows “L”. 

2. To unlock the oven, press the Child Lock button at the 3 second.

Result: The oven can be used normally.

Switching the beeper off

You can switch the beeper off whenever you want.



1. Press the START/+30s and STOP/ECO button at the same time. Result: The oven does not beep to indicate the end of a function.

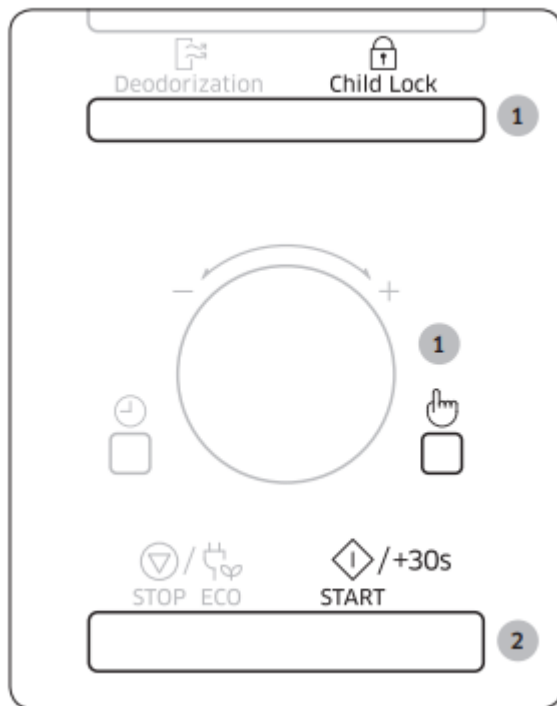
2. To switch the beeper back on, press the START/+30s and STOP/ECO button again at the same time. Result: The oven operates normally.

Demonstration mode

You can use the demonstration mode to see how your microwave oven operates without the oven heating.

1. Press hidden button during 1 second. (the Select button + Child Lock button). Result: The display shows “On”.

2. Press the START/+30s button. Now Demonstration mode is on.



NOTE

To turn demo mode off, repeat 1-2 step. It will be displayed “OFF”.

Maintenance

Cleaning

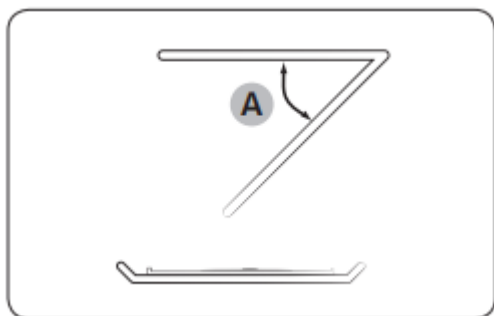
Clean the oven regularly to prevent impurities from building up on or inside the oven. Also pay special attention to the door, door sealing, and turntable and roller ring (applicable models only).

If the door won't open or close smoothly, first check if the door seals have built up impurities. Use a soft cloth in soapy water to clean both the inner and outer sides of the oven. Rinse and dry well.

To remove stubborn impurities with bad smells from inside the oven

1. With an empty oven, put a cup of diluted lemon juice on the centre of the turntable.
2. Heat the oven for 10 minutes at max power.
3. When the cycle is complete, wait until the oven cools down. Then, open the door and clean the cooking chamber.

To clean inside swing-heater models



To clean the upper area of the cooking chamber, lower the top heating element by 45° (A) as shown. This will help clean the upper area. When done, reposition the top heating element

Replacement (repair)

WARNING

This oven has no user-removable parts inside. Do not try to replace or repair the oven yourself.

- If you encounter a problem with hinges, sealing, and/or the door, contact a qualified technician or a local Samsung service centre for technical assistance.
- If you want to replace the light bulb, contact a local Samsung service centre. Do not replace it yourself.
- If you encounter a problem with the outer housing of the oven, first unplug the power cord from the power source, and then contact a local Samsung service centre.

Care against an extended period of disuse

If you don't use the oven for an extended period of time, unplug the power cord and move the oven to a dry, dust-free location. Dust and moisture that builds up inside the oven may affect the performance of the oven

Troubleshooting

Problem	Cause	Action
General		
The buttons cannot be pressed properly.	Foreign matter may be caught between the buttons.	Remove the foreign matter and try again.
	For touch models: Moisture is on the exterior.	Wipe the moisture from the exterior.
	Child lock is activated.	Deactivate Child lock.
The time is not displayed.	Power is not supplied.	Make sure power is supplied.
	The Eco (power-saving) function is set.	Turn off the Eco function.
The oven does not work.	Power is not supplied.	Make sure power is supplied.
	The door is open.	Close the door and try again.
	The door open safety mechanisms are covered in foreign matter.	Remove the foreign matter and try again.
The oven stops while in operation.	The user has opened the door to turn food over.	After turning over the food, press the Start button again to start operation.

The power turns off during operation.	The oven has been cooking for an extended period of time.	After cooking for an extended period of time, let the oven cool.
	The cooling fan is not working.	Listen for the sound of the cooling fan.
	Trying to operate the oven without food inside.	Put food in the oven.
	There is not sufficient ventilation space for the oven.	There are intake/exhaust outlets on the front and rear of the oven for ventilation. Keep the gaps specified in the product installation guide.
	Several power plugs are being used in the same socket.	Designate only one socket to be used for the oven.
There is no power to the oven.	Power is not supplied.	Make sure power is supplied.
There is a popping sound during operation, and the oven doesn't work.	Cooking sealed food or using a container with a lid may causes popping sounds.	Do not use sealed containers as they may burst during cooking due to expansion of the contents.
The oven exterior is too hot during operation.	There is not sufficient ventilation space for the oven. There are intake/ exhaust outlets on the front and rear of the oven for ventilation.	Keep the gaps specified in the product installation guide.

	Objects are on top of the oven.	Remove all objects on the top of the oven.
The door cannot be opened properly.	Food residue is stuck between the door and oven interior.	Clean the oven and then open the door.
The oven does not heat.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.
Heating is weak or slow.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.
The warm function does not work.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.

<p>The thaw function does not work.</p>	<p>The oven may not work, too much food is being cooked, or improper cookware is being used.</p>	<p>Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.</p>
<p>The interior light is dim or does not turn on.</p>	<p>The door has been left open for a long time.</p>	<p>The interior light may automatically turn off when the Eco function operates. Close and reopen the door or press the Cancel button.</p>
	<p>The interior light is covered by foreign matter.</p>	<p>Clean the inside of the oven and check again.</p>
<p>A beeping sound occurs during cooking.</p>	<p>If the Auto Cook function is being used, this beeping sound means it's time to turn over the food during thawing.</p>	<p>After turning over the food, press the Start button again to restart operation.</p>
<p>The oven is not level.</p>	<p>The oven is installed on an uneven surface.</p>	<p>Make sure the oven is installed on flat, stable surface.</p>
<p>There are sparks during cooking.</p>	<p>Metal containers are used during the oven/thawing functions.</p>	<p>Do not use metal containers.</p>
<p>When power is connected, the oven immediately starts to work.</p>	<p>The door is not properly closed.</p>	<p>Close the door and check again.</p>

There is electricity coming from the oven.	The power or power socket is not properly grounded.	Make sure the power and power socket are properly grounded.
There is water dripping.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
There is steam through a crack in the door.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
There is water left in the oven.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
The brightness inside the oven varies.	Brightness changes depending on power output changes according to function.	Power output changes during cooking are not malfunctions. This is not an oven malfunction.
Cooking is finished, but the cooling fan is still running.	To ventilate the oven, the cooling fan continues to run for about 3 minutes after cooking is complete.	This is not an oven malfunction.
Pressing the +30sec button operates the oven.	This happens when the oven was not operating.	The microwave oven is designed to operate by pressing the +30sec button when it was not operating.

Turntable		
While turning, the turntable comes out of place or stops turning.	There is no roller ring, or the roller ring is not properly in place.	Install the roller ring and then try again.
The turn table drags while turning.	The roller ring is not properly in place, there is too much food, or the container is too large and touches the inside of the microwave.	Adjust the amount of food and do not use containers that are too large.
The turn table rattles while turning and is noisy.	Food residue is stuck to the bottom of the oven.	Remove any food residue stuck to the bottom of the oven.

Information code

Code	Description	Action
C-d0	Control buttons are pressed over 10 seconds	Clean the keys and check if there is water on the surface around key. If it occurs again, turn off the microwave oven over 30 seconds and try setting again. If it appears again, call your local SAMSUNG Customer Care Centre.
C-10	The GAS sensor is open.	Unplug the power cord of the oven, and contact a local Samsung service center.
	The GAS sensor is shorted.	

NOTE

if the suggested solution does not solve the problem, contact your local SAMSUNG Customer Care Centre.

Technical specification

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice

Model		MS11K3000**
Power source		120 V ~ 60 Hz AC
Power consumption	Microwave	1500 W
Output power		1000 W
Magnetron		OM75P (31)
Cooling method		Cooling fan motor
Operating frequency		2450 MHz
Dimensions (W x H x D)	Outside (Included Handle)	20 ¹¹ / ₃₂ X 11 ¹¹ / ₁₆ X 16 ²⁷ / ₃₂ (in)
	Oven cavity	14 ⁷ / ₁₂₈ X 10 ¹ / ₃₂ X 14 ⁷ / ₁₂₈ (in)
Volume		1.1 cu.ft
Weight	Net/Gross	31.9 lbs. / 35.2 lbs.

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.