



# OWNER'S MANUAL LIGHTWAVE SPEED CONVECTION

Please read this owner's manual thoroughly before operating.

MJ3881BP



MFL62517320

[www.lg.com](http://www.lg.com)



## How the Microwave Function Works

Microwaves are a form of energy similar to radio, television waves, and ordinary daylight. Normally, microwaves spread outwards as they travel through the atmosphere and disappear without effect.

This oven, however, has a magnetron that is designed to make use of the energy in microwaves. Electricity, supplied to the magnetron tube, is used to create microwave energy.

These microwaves enter the cooking area through openings inside the oven. A tray is located inside the oven. Microwaves cannot pass through metal walls of the oven, but they can penetrate such materials as glass, porcelain and paper, the materials out of which microwave-safe cooking dishes are constructed.

Microwaves do not heat cookware, though cooking vessels will eventually get hot from the heat generated by the food.

## A very safe appliance

**Your Microwave oven, is one of the safest of all home appliances. When the door is opened, the oven automatically stops producing microwaves. Microwave energy is converted completely to heat when it enters food, leaving no "left over" energy to harm you when you eat your food.**

# CONTENTS

## 4 IMPORTANT SAFETY INSTRUCTIONS

---

### 8 BEFORE USE

---

- 8 Unpacking & Installing
- 9 Method To Use Accessories As Per Mode
- 10 Microwave-Safe Utensils
- 11 Control Panel
- 12 Setting The Clock
- 12 Child Lock
- 12 Quick Start

### 13 HOW TO USE

---

- 13 Microwave Power Cooking
- 13 Microwave Power Level
- 14 Grill Cooking
- 14 Grill Combi Cooking
- 15 Convection Preheat
- 15 Convection Cooking
- 16 Convection Combi Cooking
- 16 More Or Less Cooking
- 17 Chef Recipe
- 17 Chef Recipe Guide
- 20 Convection
- 20 Convection Guide
- 22 Grill Temp
- 22 Grill Temp Guide
- 24 Crispy Reheat
- 24 Crispy Reheat Guide
- 25 Healthy Fry
- 25 Healthy Fry Guide
- 27 Defrost & Cook
- 27 Defrost & Cook Guide
- 28 Auto Defrost
- 29 Auto Defrost Guide

### 30 FOOD CHARACTERISTICS & MICROWAVE COOKING

---

### 32 QUESTIONS & ANSWERS

---

### 33 TEST DISHES IN ACCORDANCE WITH EN 60705

---

### 33 TECHNICAL SPECIFICATIONS

---

## IMPORTANT SAFETY INSTRUCTIONS

Please keep for future reference. Read and follow all instructions before using your oven to prevent the risk of fire, electric shock, personal injury, or damage when using the oven. This guide does not cover all possible conditions that may occur. Always contact your service agent or manufacturer about problems that you do not understand.

### **WARNING**

This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others. All safety messages will follow the safety alert symbol and either the word "WARNING" or "CAUTION". These word means:

#### **WARNING**

This symbol will alert you to hazards or unsafe practices which could cause serious bodily harm or death.

#### **CAUTION**

This symbol will alert you to hazards or unsafe practices which could cause bodily injury or property damage.

### **WARNING**

- 1 Do not attempt to tamper with, or make any adjustments or repairs to the door, door seals, control panel, safety interlock switches or any other part of the oven which would involve the removal of any cover protecting against exposure to microwave energy. Do not operate the oven if the door seals and adjacent parts of the microwave oven are faulty. Repairs should only be undertaken by a qualified service technician.**
  - Unlike other appliances, the microwave oven is a high-voltage and a high electrical-current piece of equipment. Improper use or repair could result in harmful exposure to excessive microwave energy or in electric shock.
- 2 Do not use the oven for the purpose of dehumidification. (ex. Operating the microwave oven with wet newspapers, clothes, toys, electric devices, pet or child etc.)**
  - It can be the cause of serious damage to safety such as a fire, a burn or a sudden death due to an electric shock.
- 3 The appliance is not intended for use by young children or elderly persons. Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.**
  - Improper use may cause damage such as a fire, electric shock or burn.
- 4 Accessible parts may become hot during use. Young children should be kept away.**
  - They may get a burn.
- 5 Liquids or other foods must not be heated in sealed containers since they are liable to explode. Remove the plastic wrapping from food before cooking or defrosting. Note though that in some cases food should be covered with plastic film, for heating or cooking.**
  - They could burst.
- 6 Be certain to use proper accessories on each operation mode, refer to the guide page 9.**
  - Improper use could result in damage to your oven and accessories, or could make spark and a fire.
- 7 The children should not allow to play with accessories or hang down from the door handle.**
  - They may get hurt.

- 8 It is hazardous for anyone other than a competent person to carry out any service or repair operation that involves the removal of a cover which gives protection against exposure to microwave energy.
- 9 When the appliance is operated in the combination mode, children should only use the oven under adult supervision due to the temperatures generated.

 CAUTION

- 1 You cannot operate your oven with the door open due to the safety interlocks built into the door mechanism. It is important not to tamper with the safety interlocks.
  - It could result in harmful exposure to excessive microwave energy. (Safety interlocks automatically switch off any cooking activity when the door is opened.)
- 2 Do not place any object (such as kitchen towels, napkins, etc.) between the oven front face and the door or allow food or cleaner residue to accumulate on sealing surfaces.
  - It could result in harmful exposure to excessive microwave energy.
- 3 Do not operate your oven if it is damaged. It is particularly important that the oven door closes properly and that there is no damage to the: (1) door (bent), (2) hinges and latches (broken or loosened), (3) door seals and sealing surfaces.
  - It could result in harmful exposure to excessive microwave energy.
- 4 Please ensure cooking times are correctly set, small amounts of food require shorter cooking or heating time.
  - Over cooking may result in the food catching on fire and subsequent damage to your oven.
- 5 When heating liquids, e.g. soups, sauces and beverages in your microwave oven,
  - \* Avoid using straight sided containers with narrow necks.
  - \* Do not overheat.
  - \* Stir the liquid before placing the container in the oven and again halfway through the heating time.
  - \* After heating, let it stand in the oven for a short time; stir or shake it again carefully and check the temperature of it before consuming to avoid burns (especially, contents of feeding bottles and baby food jars).
  - Be careful when handling the container. Microwave heating of beverages can result in delayed eruptive boiling without evidence of bubbling. This could result in hot liquids suddenly boiling over.
- 6 An exhaust outlet is located on the top, bottom or side of the oven. Don't block the outlet.
  - It could result in damage to your oven and poor cooking results.
- 7 Do not operate the oven when empty. It is best to leave a glass of water in the oven when not in use. The water will safely absorb all microwave energy, if the oven is accidentally started.
  - Improper use could result in damage to your oven.
- 8 Do not cook food wrapped in paper towels, unless your cook book contains instructions for the food you are cooking. And do not use newspaper in place of paper towels for cooking.
  - Improper use can cause an explosion or a fire.

- 9 Do not use wooden containers and ceramic containers that have metallic (e.g. gold or silver) inlays. Always remove metal twist ties. Check that the utensils are suitable for use in microwave ovens before use.**

  - They may heat-up and char. Metal objects in particular may arc in the oven, which can cause serious damage.
- 10 Do not use recycled paper products.**

  - They may contain impurities which may cause sparks and/or fires when used in cooking.
- 11 Do not rinse the tray and rack by placing it in water just after cooking. This may cause breakage or damage.**

  - Improper use could result in damage to your oven.
- 12 Be certain to place the oven so the front of the door is 8 cm or more behind the edge of the surface on which it is placed, to avoid accidental tipping of the appliance.**

  - Improper use could result in bodily injury and oven damage.
- 13 Before cooking, pierce the skin of potatoes, apples or any such fruit or vegetables.**

  - They could burst.
- 14 Do not cook eggs in their shell. Eggs in their shell and whole hardboiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended.**

  - Pressure will build up inside the egg which will burst.
- 15 Do not attempt deep fat frying in your oven.**

  - This could result in a sudden boil over of the hot liquid.
- 16 If smoke is observed, switch off or disconnect the oven from the power supply and keep the oven door closed in order to stifle any flames.**

  - It can cause serious damage such as a fire or electric shock.
- 17 When food is heated or cooked in disposable containers made of plastic, paper or other combustible materials, keep an eye on the oven and check it frequently.**

  - Your food may be poured due to the possibility of container deterioration, which also can cause a fire.
- 18 The temperature of accessible surfaces may be high when the appliance is operating. Do not touch the oven door, outer cabinet, rear cabinet, oven cavity, accessories and dishes during grill mode, convection mode and auto cook operations, before clearing make sure they are not hot.**

  - As they will become hot, there is the danger of a burn unless wearing thick culinary gloves.
- 19 The oven should be cleaned regularly and any food deposits should be removed.**

  - Failure to maintain the oven in a clean condition could lead to deterioration of the surface. This could adversely affect the life of the appliance and possibly result in a hazardous situation.
- 20 If there are heating elements, the appliance becomes hot during use. Care should be taken to avoid touching the heating elements inside the oven.**

  - There is danger of a burn.

- 21** Follow exact directions given by each manufacturer for their popcorn product. Do not leave the oven unattended while the corn is being popped. If corn fails to pop after the suggested times, discontinue cooking. Never use a brown paper bag for popping corn. Never attempt to pop leftover kernels.
- Overcooking could result in the corn catching a fire.
- 22** This appliance must be earthed.
- The wires in the mains lead are coloured in accordance with the following codes  
BLEU~ Neutral  
BROWN ~ Live  
GREEN & YELLOW ~ Earth
- As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
- The wire which is coloured BLEU must be connected to the terminal which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
- The wire which is coloured GREEN & YELLOW or GREEN must be connected to the terminal which is marked with the letter E or  $\perp$ .
- If the supply cord is damaged, it must be replaced by the manufacturer, a service agent or a similarly qualified person in order to avoid potential hazards.
- Improper use may cause serious electric damage.
- 23** Do not use harsh abrasive cleaners or sharp metal scrapers to clean the oven door glass.
- They can scratch the surface, which may result in the glass shattering.
- 24** This oven should not be used for commercial catering purposes.
- Improper use could result in damage to your oven.
- 25** The microwave oven must be operated with the decorative door open.
- If the door is closed while operating, the airflow will get worse possibly resulting in a fire or damage to your oven and the cabinet.
- 26** The connection may be achieved by having the plug accessible or by incorporating a switch in the fixed wiring in accordance with the wiring rules.
- Using improper plug or switch can cause an electric shock or a fire.
- 27** The microwave oven shall be used freestanding.
- 28** 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.
- 29** Children should be supervised to ensure that they do not play with the appliance.

# BEFORE USE

## Unpacking & Installing

By following the basic steps on these two pages you will be able to quickly check that your oven is operating correctly. Please pay particular attention to the guidelines on where to install your oven. When unpacking your oven make sure you remove all accessories and packing materials. Check to make sure that your oven has not been damaged during shipping.

- 1 Unpack your oven and place it on a flat level surface.



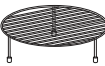
Glass tray



Rotating ring



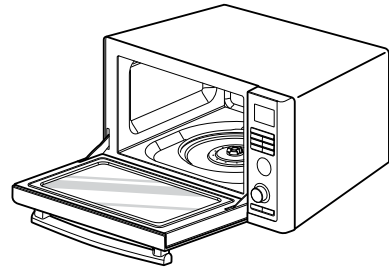
High rack



Low rack



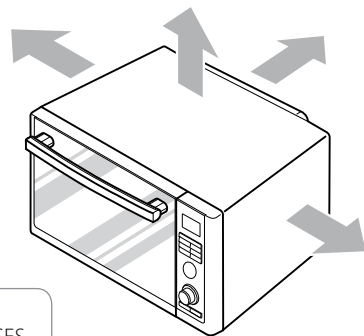
Crisp Tray



- 2 Place the oven on the level location of your choice with more than 85cm height but make sure there is at least 20cm of space on the top and 10cm at the rear for proper ventilation.

The front of the oven should be at least 8cm from the edge of the surface to prevent tipping.

An exhaust outlet is located on bottom or side of the oven. Blocking the outlet can damage the oven.



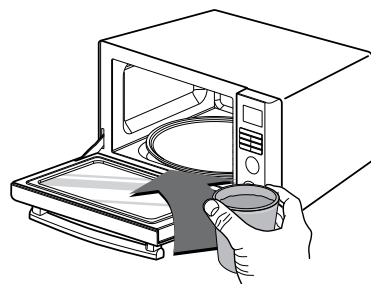
### NOTE

• THIS OVEN SHOULD NOT BE USED FOR COMMERCIAL CATERING PURPOSES.

- 3 Plug your oven into a standard household socket. Make sure your oven is the only appliance connected to the socket. **If your oven does not operate properly, unplug it from the electrical socket and then plug it back in.**

- 4 Open your oven door by pulling the door handle. Place the rotating ring inside the oven and place the glass tray on top.

- 5 Fill a **microwave safe container** with 300 ml (1/2 pint) of water. Place on the glass tray and close the oven door. If you have any doubts about what type of container to use please refer to Page 10.





- 6 Press the **STOP/CLEAR** button, and press the **START/QUICK START** button one time to set 30 seconds of cooking time.







- 7 The **DISPLAY** will count down from 30 seconds. When it reaches 0 it will sound BEEPS. Open the oven door and test the temperature of the water. If your oven is operating the water should be warm.  
**Be careful when removing the container it may be hot.**



### YOUR OVEN IS NOW INSTALLED

- 8 The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption in order to avoid burns.

## Method To Use Accessories As Per Mode

|   | Microwave | Grill | Convection | Grill combi | Conv combi |
|---|-----------|-------|------------|-------------|------------|
| <br>High rack  | —         | ○     | ○          | ○           | ○          |
| <br>Low rack   | —         | ○     | ○          | ○           | ○          |
| <br>Glass tray | ○         | ○     | ○          | ○           | ○          |
| <br>Crisp tray | ○         | ○     | —          | ○           | ○          |

Caution: Use accessories in accordance with cooking guides!

○ Acceptable  
— Not Acceptable

## Microwave-Safe Utensils

### Never use metal or metal trimmed utensils in using microwave function

Microwaves cannot penetrate metal. They will bounce off any metal object in the oven and cause arcing, an alarming phenomenon that resembles lightning. Most heat resistant non metallic cooking utensils are safe for use in your oven. However, some may contain materials that render them unsuitable as microwave cookware. If you have any doubts about a particular utensil, there's a simple way to find out if it can be used in the microwave. Place the utensil in question next to a glass bowl filled with water in using microwave function. Microwave at power HIGH for 1 minute. If the water heats up but the utensil remains cool to the touch, the utensil is microwave-safe. However, if the water does not change temperature but the utensil becomes warm, microwaves are being absorbed by the utensil and it is not safe for use in using microwave function. You probably have many items on hand in your kitchen right now that can be used as cooking equipment in the microwave. Just read through the following checklist.

### Dinner plates

Many kinds of dinnerware are microwave-safe. If in doubt consult the manufacturer's literature or perform the microwave test.

### Glassware

Glassware that is heat-resistant is microwave-safe. This would include all brands of oven tempered glass cookware. However, do not use delicate glassware, such as tumblers or wine glasses, as these might shatter as the food warms.

### Plastic storage containers

These can be used to hold foods that are to be quickly reheated. However, they should not be used to hold foods that will need considerable time in the oven as hot foods will eventually warp or melt plastic containers.

### Paper

Paper plates and containers are convenient and safe to use in using microwave function, provided that the cooking time is short and foods to be cooked are low in fat and moisture. Paper towels are also very useful for wrapping foods and for lining baking trays in which greasy foods such as bacon are cooked. In general, avoid coloured paper products as the colour may run. Some recycled paper products may contain impurities which could cause arcing or fires when used in the microwave.

### Plastic cooking bags

Provided they are made specially for cooking, cooking bags are microwave safe. However, be sure to make a slit in the bag so that steam can escape. Never use ordinary plastic bags for cooking in using microwave function, as they will melt and rupture.

### Plastic microwave cookware

A variety of shapes and sizes of microwave cookware are available. For the most part, you can probably use items you already have on hand rather than investing in new kitchen equipment.

### Pottery, stoneware and ceramic

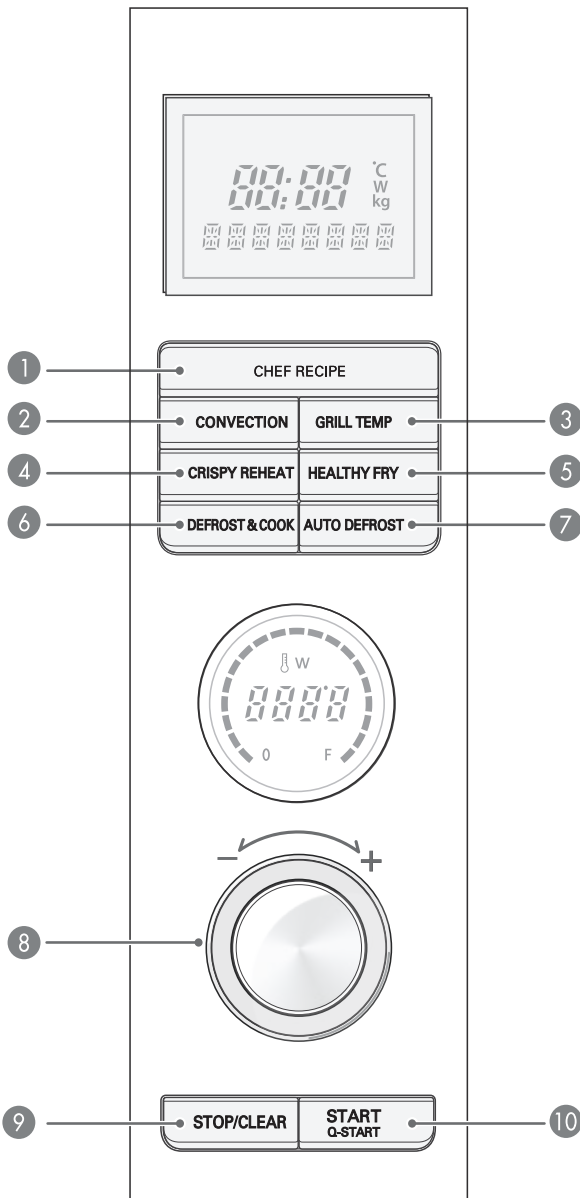
Containers made of these materials are usually fine for use in using microwave function, but they should be tested to be sure.



### CAUTION

- Some items with high lead or iron content are not suitable as cooking utensils.
- Utensils should be checked to ensure that they are suitable for use in the microwave.

## Control Panel



### Part

#### 1 CHEF RECIPE

Chef recipe allows you to cook most of your favorite food by selecting the food type and the weight of the food.  
See page 17 "Chef recipe"

#### 2 CONVECTION

See page 20 "Convection"

#### 3 GRILL TEMP

See page 22 "Grill temp"

#### 4 CRISPY REHEAT

See page 24 "Crispy reheat"

#### 5 HEALTHY FRY

See page 25 "Healthy fry"

#### 6 DEFROST & COOK

See page 27 "Defrost & cook"

#### 7 AUTO DEFROST

See page 28 "Auto defrost"

#### 8 COOK MODE

- Determine the selected cooking category.
- Set cooking times, temperature and power level.
- While cooking with auto and manual function, you can increase or decrease the cooking time at any point by turning the dial (except defrost mode).

#### 9 STOP/CLEAR

- Stop over and clear all entries except time of day.

#### 10 START/QUICK START

- In order to start cooking which is selected, press button one time.
- The quick start feature allows you to set 30 seconds intervals of HIGH power cooking with a touch of the quick start button.

## Setting The Clock

You can set either 12 hour clock or 24 hour clock. In the following example, show you how to set the time for 14:35 when using the 24 clock.

- 1 Plug your oven for the first time.

"24H" appears on the display.

Press **START/QUICK START** for 24 clock confirmation.

(If you want to change different option after setting clock, you have to unplug and plug it back in.)



- 2 Turn **COOK MODE** until display shows "14:00".

Press **START/QUICK START** for confirmation.



- 3 Turn **COOK MODE** until display shows "14:35".

Press **START/QUICK START**.

The clock starts counting.



### NOTE

- When your oven is plugged in for the first time you will have to reset the clock.
- If the clock (or display) shows any strange looking symbols, unplug your oven from the electrical socket and plug it back in and reset the clock.

## Child Lock

In the following example, show you how to set the child lock.

- 1 Press **STOP/CLEAR**.



- 2 Press and hold **STOP/CLEAR** until "CHILD LOCKED" and "🔒" appears on the display and BEEP sounds.

The **CHILD LOCK** is now set.

If any button is pressed, "CHILD LOCKED" and "🔒" will appear on the display.



- 3 To cancel **CHILD LOCK**, press and hold **STOP/CLEAR** until "CHILD LOCKED" disappears.

You will hear BEEP when it's unlocked.



### NOTE

Your oven has a safety feature that prevents accidental running of the oven. Once the child lock is set, you will be unable to use any functions and no cooking can take place.

## Quick Start

In the following example, show you how to set 2 minutes of cooking on 900W power.

- 1 Press **STOP/CLEAR**.



- 2 Press **START/QUICK START** to select 2 minutes on high power (900 W).

Your oven will start before you have finished the fourth press.



- 3 During **START/QUICK START** cooking, you can extend the cooking time up to 99 minutes 59 seconds by turning the **COOK MODE** dial.



### NOTE

The **START/QUICK START** feature allows you to set 30 seconds intervals of HIGH power cooking with a touch of the **START/QUICK START** button.

# HOW TO USE

## Microwave Power Cooking

In the following example, show you how to cook some food on 720W power for 5 minutes.

- 1 Press **STOP/CLEAR**



- 2 Turn **COOK MODE** to select **Microwave**.

The following indication is displayed: "≡".

Press **START/QUICK START** for mode confirmation.



- 3 Turn **COOK MODE** until display shows "720W".

Press **START/QUICK START** for power confirmation.



- 4 Turn **COOK MODE** until display shows "5:00".  
Press **START/QUICK START**.



### NOTE

- Your oven has 5 microwave power settings. High power is automatically selected and turning of **COOK MODE** will select a different power level.
- Food to be cooked should be placed in a microwave-safe utensils.
- Please do not use the following accessories.



High rack



Low rack

## Microwave Power Level

This oven is equipped with 5 power levels to give you maximum flexibility and control over cooking.

The table below shows some examples of food and their recommended cooking power levels for use with this oven.

| POWER LEVEL     | OUTPUT | USE  | ACCESSORY            |
|-----------------|--------|--|----------------------|
| HIGH            | 900 W  | <ul style="list-style-type: none"> <li>• Boil water</li> <li>• Brown minced beef</li> <li>• Cook poultry pieces, fish, vegetables</li> <li>• Cook tender cuts meat</li> </ul>                | Microwave-safe plate |
| MEDIUM HIGH     | 720 W  | <ul style="list-style-type: none"> <li>• All reheating</li> <li>• Roast meat and poultry</li> <li>• Cook mushrooms and shellfish</li> <li>• Cook foods containing cheese and eggs</li> </ul> |                      |
| MEDIUM          | 540 W  | <ul style="list-style-type: none"> <li>• Bake cakes and scones</li> <li>• Prepare eggs</li> <li>• Cook custard</li> <li>• Prepare rice, soup</li> </ul>                                      |                      |
| MEDIUM LOW      | 360 W  | <ul style="list-style-type: none"> <li>• Melt butter and chocolate</li> <li>• Cook less tender cuts of meat</li> </ul>   |                      |
| DEFROST/<br>LOW | 180 W  | <ul style="list-style-type: none"> <li>• All thawing</li> <li>• Soften butter &amp; cheese</li> <li>• Soften ice cream</li> <li>• Raise yeast-based dough</li> </ul>                         |                      |

## Grill Cooking

In the following example, show you how to use the Grill to cook some food for 12 minutes.

- 1 Press **STOP/CLEAR**.



- 2 Turn **COOK MODE** to select **Grill**.

The following indication is displayed: "🔥🔥".

Press **START/QUICK START** for grill confirmation.



- 3 Turn **COOK MODE** until display shows "12:00".



- 4 Press **START/QUICK START**.



### CAUTION

Always use oven gloves when removing the food and accessories after cooking as the oven & accessories will be very hot.



### NOTE

- This feature will allow you to brown and crispy food quickly.
- For the best result use the following accessories.



High rack

## Grill Combi Cooking

In the following example, show you how to program your oven with micro power 360W and grill for a cooking time of 25 minutes.

- 1 Press **STOP/CLEAR**.



- 2 Turn **COOK MODE** to select **Grill Combi**.

The following indications are displayed: "🔥🔥".

Press **START/QUICK START** for grill combi confirmation.



- 3 Turn **COOK MODE** until display shows "360W".

Press **START/QUICK START** for power confirmation.



- 4 Turn **COOK MODE** until display shows "25:00".



- 5 Press **START/QUICK START**.



### NOTE

- Your oven has a combination cooking feature which allows you to cook food with **Heater** and **Microwave**. This generally means it takes less time to cook your food.
- You can set three kinds of micro power level (180W, 270W, and 360W) in grill combi mode.
- This feature will allow you to brown and crispy food quickly.
- For the best result use the following accessories.



High rack

## Convection Preheat

In the following example, show you how to preheat the oven to a temperature of 200°C.

- 1 Press **STOP/CLEAR**.



- 2 Turn **COOK MODE** to select **Conv.**

The following indication is displayed: "🌀".

Press **START/QUICK START** for convection confirmation.



- 3 Turn **COOK MODE** until display shows "200°C".

Press **START/QUICK START** for temperature confirmation.



- 4 Press **START/QUICK START**.

Preheating will be started with displaying "PREHEAT".



### NOTE

- The convection oven has a temperature range of 40°C and 100~230°C.
- The oven has a ferment function at the oven temperature of 40°C. You may wait until the oven is cool because you cannot use a ferment function if the oven temperature is over 40°C.
- Your oven will take a few minutes to reach the selected temperature.
- Once it has reached correct temperature, your oven will BEEP to let you know that it has reached the correct temperature.
- Then place your food in your oven and to start cooking.

## Convection Cooking

The metal tray or metal rack must be used during convection cooking.

In the following example, show you how to cook some food at a temperature of 230°C for 50 minutes.

- 1 Press **STOP/CLEAR**.



- 2 Turn **COOK MODE** to select **Conv.**

The following indication is displayed: "🌀".

Press **START/QUICK START** for convection confirmation.



- 3 Turn **COOK MODE** until display shows "230°C".

Press **START/QUICK START** for temperature confirmation.



- 4 Turn **COOK MODE** until display shows "50:00".



- 5 Press **START/QUICK START**.



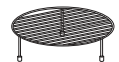
### CAUTION

Always use oven gloves when removing the food and accessories after cooking as the oven & accessories will be very hot.

### NOTE

If you do not set a temperature your oven will automatically select 180°C, the cooking temperature can be changed by turning **COOK MODE**.

For the best result please use the following accessories.



Low rack

## Convection Combi Cooking

In the following example, show you how to program your oven with micro power 270W and at a convection temperature 200°C for a cooking time of 25 minutes.

- 1 Press **STOP/CLEAR**.



- 2 Turn **COOK MODE** to select **Conv. Combi**.

The following indications are displayed: "≡", "⊗".

Press **START/QUICK START** for Convection Combi confirmation.



- 3 Turn **COOK MODE** until display shows "270W".

Press **START/QUICK START** for power confirmation.



- 4 Turn **COOK MODE** until display shows "200°C".

Press **START/QUICK START** for temperature confirmation.



- 5 Turn **COOK MODE** until display shows "25:00".



- 6 Press **START/QUICK START**.



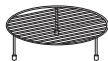
### CAUTION

Always use oven gloves when removing the food and accessories after cooking as the oven & accessories will be very hot.

### NOTE

You can set three kinds of micro power level (180W, 270W and 360W).

- For the best result use the following accessories.



Low rack

## More Or Less Cooking

In the following example, show you how to change the preset COOK programs for a longer or shorter cooking time.

- 1 Press **STOP/CLEAR**.



- 2 Set the required preset **COOK** program.

Select weight of food.



- 3 Press **START/QUICK START**.

Turn **COOK MODE**.

The cooking time will increase or decrease.



### NOTE

- If you find that your food is over or undercooked when using the preset COOK program, you can increase or decrease cooking time by turning the **COOK MODE**.
- You can lengthen or shorten the cooking time (except defrost mode) at any point turning the **COOK MODE**.



## Chef Recipe

In the following example, show you how to cook 0.6kg of pork chops.

- 1 Press **STOP/CLEAR**.



- 2 Press **CHEF RECIPE**.

The following indication is displayed: "auto".



- 3 Turn **COOK MODE** until display shows "4 PORK CHOPS".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.6kg". Press **START/QUICK START**.

When cooking you can increase or decrease cooking time by turning **COOK MODE**.



### NOTE

- Chef recipe are programmed.
- Chef recipe allows you to cook most of your favorite food by selecting the food type and the weight of the food.

## Chef Recipe Guide

| Category            | Weight Limit    | Utensil                                   | Food Temp. | Instructions   |
|---------------------|-----------------|---|------------|--|
| 1. Roast Vegetables | 0.2~0.4kg       | Crispy tray<br>On the high rack           | Room       | <p><b>Ingredients</b><br/><i>Eggplant, zucchini, onion, sweet pepper, tomato, mushroom</i></p> <p>Slice vegetables into large pieces, add salt and pepper, let stand for 30 minutes. Rub the surface of vegetables with oil. Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking. After cooking, remove from the oven and stand.</p>   |
| 2. Lasagna          | See ingredients | 26 x 17 cm Baking dish<br>On the low rack | Room       | <p><b>Ingredients</b><br/><i>9 lasagna sheets / 500g spaghetti sauce / 600g cheese sauce / 300g grated mozzarella cheese / 30g grated parmesan cheese</i></p> <p><b>Cheese sauce</b><br/><i>60g butter / 50g all-purpose flour / Pinch ground nutmeg / 500ml milk / 20g grated parmesan cheese</i></p> <p><i>Melt butter in a small saucepan. Add flour and nutmeg, stirring until smooth. Gradually add milk and stir until sauce boils and thickens. Reduce heat and add parmesan cheese. Stir until cheese melts well.</i></p> <ol style="list-style-type: none"> <li>1. Cook lasagna sheets according to package directions and drain.</li> <li>2. Spread about 125g spaghetti sauce in the 26 x 17cm baking dish.</li> <li>3. Layer the 3 lasagna sheets, 300g cheese sauce, 125g spaghetti sauce and 100g mozzarella cheese. Repeat layering.</li> <li>4. Finally layer the remained lasagna sheets, spread 125g spaghetti sauce, sprinkle with 100g mozzarella cheese and 30g parmesan cheese.</li> <li>5. Place food on the low rack. Choose the menu, press start. After cooking, remove from the oven and stand for 10 minutes.</li> </ol> |

## Chef Recipe Guide

| Category         | Weight Limit    | Utensil                          | Food Temp.   | Instructions  |
|------------------|-----------------|----------------------------------|--------------|---|
| 3. Meat Pie      | See ingredients | 20 cm pie tin<br>On the low rack | Room         | <p><b>Ingredients</b><br/> 600-650g meat mixture<br/> 2 puff pastry sheets, thawed (180~200g/sheet)<br/> 1 egg, lightly beaten</p> <p><i>For Meat mixture :</i><br/> 1 onion, chopped / 500g steak, finely chopped<br/> 2 tablespoons plain flour / 250ml bouillon<br/> ½ teaspoon thyme / Pinch ground nutmeg<br/> Salt and pepper to taste</p> <p><i>Saute chopped onion over a low heat in a saucepan until soften. Add chopped steak and stir until browned. Sprinkle flour over steak and continue cooking for further 2 minutes. Gradually add bouillon and stir constantly until it boils and thickens. Add all remaining ingredients. Cover and simmer for 30 minutes.</i></p> <ol style="list-style-type: none"> <li>1. On a lightly floured surface, roll out 1 puff pastry sheet into a circle and line a 20cm pie tin. Trim edges, leaving a little overhang and prick with a fork. Fill with the cooled meat mixture and brush around edges with beaten egg to top will stick to it.</li> <li>2. Roll out the remaining pastry sheet and place on top of pie to form a lid and trim edges. Press edges together with a fork to seal. Cut a vent in top of pie to allow steam to escape. Brush top with remaining beaten egg.</li> <li>3. Place pie tin on the low rack. Choose the menu, press start.</li> </ol> |
| 4. Pork Chops    | 0.2~0.6 kg      | High rack<br>On a drip dish      | Refrigerated | Choose pork chops of 100~150g weight and 1.5~2.0cm thickness each. Season with salt and pepper or as desired. Place food on the high rack on a drip dish. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |
| 5. Lamb Chops    | 0.2~0.6 kg      | High rack<br>On a drip dish      | Refrigerated | Choose lamb chops of 100~150g weight and 1.5~2.0cm thickness each. Season with salt and pepper or as desired. Place food on the high rack on a drip dish. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |
| 6. Chicken Wings | 0.2~0.8 kg      | Crisp tray<br>On the high rack   | Refrigerated | Rub surface of chicken wings with oil. Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |

## Chef Recipe Guide

| Category         | Weight Limit    | Utensil                                  | Food Temp. | Instructions   |
|------------------|-----------------|--|------------|--|
| 7. Potato Gratin | See ingredients | 25 x 25cm baking dish<br>On the low rack | Room       | <p><b>Ingredients</b><br/> <i>1 kg potatoes / 125g cheddar cheese, grated</i><br/> <i>1 shallots or onion / 6 slices ham or bacon, chopped</i><br/> <i>2 teaspoons all-purpose flour / Pepper / 250ml cream</i></p> <ol style="list-style-type: none"> <li>1. Peel and wash potatoes and onions then cut into 5mm slices.</li> <li>2. Put 1/3 of potatoes in a 25 x 25mm baking dish. Sprinkle half of ham or bacon, half onion, 40g cheese, flour and pepper.</li> <li>3. Repeat the layering with above method.</li> <li>4. Then put remaining potatoes and cheese. Pour cream over top.</li> <li>5. Place the baking dish on the low rack. Choose the menu, press start. After cooking, remove from the oven and stand for 10 minutes.</li> </ol> |
| 8. Frozen Pizza  | 0.3~0.6kg       | Crisp tray<br>On the low rack            | Frozen     | Remove pizza from packaging and place food on the crisp tray on the low rack. Choose the menu and weight, press start.   |

## Convection

In the following example, show you how to cook 0.3kg chicken pieces.

- 1 Press **STOP/CLEAR**.



- 2 Press **CONVECTION**.

The following indication is displayed: "auto" .



- 3 Turn **COOK MODE** until display shows "2 CHICKEN PIECES".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.3kg".

Press **START/QUICK START**.

When cooking you can increase or decrease cooking time by turning **COOK MODE**.



### NOTE

- Convection cook menus are programmed.
- Convection cook allows you to cook most of your favorite food by selecting the food type and the weight of the food.

## Convection Guide

| Category          | Weight Limit | Utensil                     | Food Temp.   | Instructions  |
|-------------------|--------------|-----------------------------|--------------|---|
| 1. Roast chicken  | 0.8~1.8 kg   | Low rack<br>On a drip dish  | Refrigerated | Brush whole chicken with melted butter or oil and season as desired. Place whole chicken breast-side down on the low rack on a drip dish. Choose the menu and weight, press start. When BEEP, drain juices and turn food over immediately. And then press start to continue cooking. After cooking, stand covered with foil for 10 minutes. |
| 2. Chicken Pieces | 0.2~0.8 kg   | High rack<br>On a drip dish | Refrigerated | Brush chicken pieces with melted butter or oil and season as desired. Place food on the high rack on a drip dish. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |
| 3. Roast Pork     | 0.5~2.0 kg   | Low rack<br>On a drip dish  | Room         | Brush pork with melted butter or oil and season as desired. Place food on the low rack on a drip dish. Choose the menu and weight, press start. After cooking, stand covered with foil for 10 minutes.  |

## Convection Guide

| Category          | Weight Limit    | Utensil   | Food Temp. | Instructions  |
|-------------------|-----------------|---|------------|---|
| 4. Fresh pizza    | See ingredients | Crisp tray<br>On the low rack                             | Room       | <p><b>Ingredients</b><br/> <i>Dough :</i><br/>           120 g all-purpose or bread flour / 1 teaspoon active dry yeast<br/>           1/3 teaspoon salt / 1 teaspoon sugar / 70 ml warm water<br/>           1 teaspoon extra-virgin olive oil, plus little for coating</p> <p><i>Topping :</i><br/>           3 tablespoons tomato sauce / 30 g sausage, sliced<br/>           1/2 onion, sliced / 2 fresh mushrooms, sliced<br/>           1/2 fresh pepper / 100 g shredded Mozzarella cheese</p> <p>Combine all ingredients in large mixing bowl.<br/>           Knead with an electric mixer to make smooth and elastic dough.<br/>           Roll dough out and place dough on the crisp tray.<br/>           Spread pizza sauce. Top with toppings and cheese.<br/>           Place the crisp tray on the low rack. Choose the menu, press start.</p> |
| 5. Cookies        | See ingredients | High rack<br>+<br>Low rack                                | Room       | <p><b>Ingredients</b><br/>           80 g brown sugar / 80 g butter, softened<br/>           1 egg, lightly beaten / 180 g all-purpose flour, sifted<br/>           1/2 teaspoon baking powder / 1/2 teaspoon baking soda<br/>           100 g mini chocolate chips</p> <p>Mix brown sugar and softened butter. Gradually add egg and stir until light and fluffy. Add flour, baking powder, baking soda and chocolate chips and mix well.</p> <p>Drop dough by tablespoon onto the high rack and low rack covered with aluminum foil. Cookies should be spaced 2cm part.</p> <p>Place high rack and low rack in the oven. Choose the menu, press start. After cooking, remove from the oven and let them cool.</p>   |
| 6. Baked Potatoes | 0.2~1.0 kg      | Low rack  | Room       | <p>Choose medium sized potatoes. (200-220g per each)<br/>           Wash and dry potatoes. Pierce potatoes several times with fork.<br/>           Place food on the low rack. Choose the menu and weight, press start.<br/>           After cooking, stand covered with foil for 10 minutes.</p>   |
| 7. Small cakes    | See ingredients | Paper muffin cups<br>On the crisp tray<br>On the low rack | Room       | <p><b>Ingredients</b><br/>           60 g sugar / 100g butter, softened<br/>           2 eggs, lightly beaten / 150 g all-purpose flour, sifted<br/>           1/2 teaspoon baking powder<br/>           10~13 ea paper muffin cups (50 mm base x 30 mm height)</p> <p>Mix sugar and softened butter. Gradually add eggs and stir until light and fluffy. Add flour and baking powder and mix well. Evenly fill paper muffin cups with batter. (25~30g per each)</p> <p>Place muffin cups on the crisp tray on the low rack. Choose the menu, press start. After cooking, place food on the low rack and let them cool.</p>   |

## Grill Temp

In the following example, show you how to cook High(80°C) 30min keep warm.

- 1 Press **STOP/CLEAR**.



- 2 Press **GRILL TEMP**.

The following indication is displayed: "🔥🔥".



- 3 Turn **COOK MODE** until display shows "2 KEEP WARM".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "80°C".

Press **START/QUICK START**.

Turn **COOK MODE** until display shows "30:00".



- 5 Press **START/QUICK START**.



### ! NOTE

For the best results with the multi temp controller function, be sure to keep the oven cavity has cooled before use.

## Grill Temp Guide

| Function                 | Utensil                                      | Range                       | Step                                    | Default       | Instruction  |                          |  |  |   |  |            |              |            |              |                  |             |            |            |            |              |             |            |            |            |
|--------------------------|--|-----------------------------|---|---------------|--|--------------------------|--|--|---|--|------------|--------------|------------|--------------|------------------|-------------|------------|------------|------------|--------------|-------------|------------|------------|------------|
| 1. Slow cook             | Heatproof glass dish with cover on turntable | 110° C (High) / 90° C (Low) | -                                       | 110° C (High) | <p>This function maintains a relatively low temperature compared to other cooking methods (such as baking, boiling, and frying), for many hours allowing unattended cooking of pot roast, stew, and other suitable dishes.</p> <p><b>90° C (Low) Setting</b><br/>The Low setting gently simmers food for an extended period of time without overcooking or burning. No stirring is required when using this setting.</p> <p><b>110° C (High) Setting</b><br/>The High setting will cook food in approximately half the time required for the Low setting. Some foods may boil when cooked on the high setting, so it may be necessary to add extra liquid. Occasional stirring of stews and casseroles will improve flavor distribution.</p> <p>Searing and browning before slow cooking is not necessary, but this will help to seal in the juices and flavors, and keeps the meat tender.</p> <p><b>Slow cook guide</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Traditional cooking time</th> <th colspan="2">Slow cooker cooking time (without searing)</th> <th colspan="2">Slow cooker cooking time (with searing)</th> </tr> <tr> <th>90° C(Low)</th> <th>110° C(High)</th> <th>90° C(Low)</th> <th>110° C(High)</th> </tr> </thead> <tbody> <tr> <td>35 to 60 minutes</td> <td>6 to 10 hrs</td> <td>3 to 4 hrs</td> <td>4 to 6 hrs</td> <td>2 to 3 hrs</td> </tr> <tr> <td>1 to 3 hours</td> <td>8 to 10 hrs</td> <td>4 to 6 hrs</td> <td>5 to 6 hrs</td> <td>3 to 4 hrs</td> </tr> </tbody> </table> | Traditional cooking time | Slow cooker cooking time (without searing) |  | Slow cooker cooking time (with searing) |  | 90° C(Low) | 110° C(High) | 90° C(Low) | 110° C(High) | 35 to 60 minutes | 6 to 10 hrs | 3 to 4 hrs | 4 to 6 hrs | 2 to 3 hrs | 1 to 3 hours | 8 to 10 hrs | 4 to 6 hrs | 5 to 6 hrs | 3 to 4 hrs |
| Traditional cooking time | Slow cooker cooking time (without searing)   |                             | Slow cooker cooking time (with searing) |               |  |                          |  |  |   |  |            |              |            |              |                  |             |            |            |            |              |             |            |            |            |
|                          | 90° C(Low)                                   | 110° C(High)                | 90° C(Low)                              | 110° C(High)  |  |                          |  |  |   |  |            |              |            |              |                  |             |            |            |            |              |             |            |            |            |
| 35 to 60 minutes         | 6 to 10 hrs                                  | 3 to 4 hrs                  | 4 to 6 hrs                              | 2 to 3 hrs    |  |                          |  |  |   |  |            |              |            |              |                  |             |            |            |            |              |             |            |            |            |
| 1 to 3 hours             | 8 to 10 hrs                                  | 4 to 6 hrs                  | 5 to 6 hrs                              | 3 to 4 hrs    |  |                          |  |  |   |  |            |              |            |              |                  |             |            |            |            |              |             |            |            |            |

## Grill Temp Guide

| Function         | Utensil  | Range                   | Step     | Default  | Instruction  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
|------------------|--|-------------------------|----------|--|--|-----------|-------------|----------|------|-----|---------|-------------------------|-------|---------|--|------|------------------------|-------|----------|---|------|--------------------------------|-------|---------|--------|--------|---------------------------------------|-------|----------|------------------------------|-----------|--------------------------------------|-------|----------|------------------------------------|----------|-----------------------------|-------|----------|------------------------------|----------|--|-------|---------|---|------------|--|-------|----------|-------|
| 2. Keep warm     | Heatproof glass dish with cover on turntable   | 80° C<br>70° C<br>60° C | -        | 70° C  | Heat from the top and bottom elements are used to maintain set temperature. You can use this function to keep food warm until ready to serve.  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| 3. Food dry      | Metal tray on low rack (crisp tray on low rack)  | 40° C ~<br>90° C        | 10° C    | 70° C  | <p>With this function, you can dry fruit, veggies, and beef into healthy and nutritional snacks and tasty jerky without chemicals and preservatives. Place baking paper on tray and spread food in a single layer.</p> <p><b>Food dry guide</b></p> <table border="1"> <thead> <tr> <th>Food type</th> <th>Preparation</th> <th>Set temp</th> <th>Time</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>Bananas</td> <td>Slice into 5~6 mm thick</td> <td>60° C</td> <td>5~8 hrs</td> <td>Snacks, baby food, granola, cookies and banana bread</td> </tr> <tr> <td>Figs</td> <td>Remove stems and halve</td> <td>60° C</td> <td>8~10 hrs</td> <td>Fillings, cakes, puddings, breads and cookies</td> </tr> <tr> <td>Kiwi</td> <td>Peel, slice into 8~12 mm thick</td> <td>60° C</td> <td>5~8 hrs</td> <td>Snacks</td> </tr> <tr> <td>Mangos</td> <td>Remove skin, slice into 6~10 mm thick</td> <td>60° C</td> <td>6~10 hrs</td> <td>Snacks, cereals, baked goods</td> </tr> <tr> <td>Pineapple</td> <td>Peel, core, slice into 8~12 mm thick</td> <td>60° C</td> <td>6~10 hrs</td> <td>Snacks, baked goods, baked granola</td> </tr> <tr> <td>Tomatoes</td> <td>Wash and slice 6 mm circles</td> <td>60° C</td> <td>6~10 hrs</td> <td>Soups, stews, paste or sauce</td> </tr> <tr> <td>Mushroom</td> <td>Clean with soft brush or cloth. Don't wash</td> <td>50° C</td> <td>4~8 hrs</td> <td>Rehydrate for soups, meat dishes, omelets or frying</td> </tr> <tr> <td>Beef jerky</td> <td>Marinate sliced meats (5~6 mm thick) in store-bought or your own recipe for 6 to 8 hours in the refrigerator</td> <td>70° C</td> <td>6~10 hrs</td> <td>Snack</td> </tr> </tbody> </table> | Food type | Preparation | Set temp | Time | Use | Bananas | Slice into 5~6 mm thick | 60° C | 5~8 hrs | Snacks, baby food, granola, cookies and banana bread | Figs | Remove stems and halve | 60° C | 8~10 hrs | Fillings, cakes, puddings, breads and cookies | Kiwi | Peel, slice into 8~12 mm thick | 60° C | 5~8 hrs | Snacks | Mangos | Remove skin, slice into 6~10 mm thick | 60° C | 6~10 hrs | Snacks, cereals, baked goods | Pineapple | Peel, core, slice into 8~12 mm thick | 60° C | 6~10 hrs | Snacks, baked goods, baked granola | Tomatoes | Wash and slice 6 mm circles | 60° C | 6~10 hrs | Soups, stews, paste or sauce | Mushroom | Clean with soft brush or cloth. Don't wash | 50° C | 4~8 hrs | Rehydrate for soups, meat dishes, omelets or frying | Beef jerky | Marinate sliced meats (5~6 mm thick) in store-bought or your own recipe for 6 to 8 hours in the refrigerator | 70° C | 6~10 hrs | Snack |
| Food type        | Preparation  | Set temp                | Time     | Use  |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Bananas          | Slice into 5~6 mm thick  | 60° C                   | 5~8 hrs  | Snacks, baby food, granola, cookies and banana bread |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Figs             | Remove stems and halve   | 60° C                   | 8~10 hrs | Fillings, cakes, puddings, breads and cookies        |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Kiwi             | Peel, slice into 8~12 mm thick   | 60° C                   | 5~8 hrs  | Snacks   |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Mangos           | Remove skin, slice into 6~10 mm thick  | 60° C                   | 6~10 hrs | Snacks, cereals, baked goods                         |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Pineapple        | Peel, core, slice into 8~12 mm thick   | 60° C                   | 6~10 hrs | Snacks, baked goods, baked granola                   |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Tomatoes         | Wash and slice 6 mm circles  | 60° C                   | 6~10 hrs | Soups, stews, paste or sauce                         |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Mushroom         | Clean with soft brush or cloth. Don't wash   | 50° C                   | 4~8 hrs  | Rehydrate for soups, meat dishes, omelets or frying  |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| Beef jerky       | Marinate sliced meats (5~6 mm thick) in store-bought or your own recipe for 6 to 8 hours in the refrigerator | 70° C                   | 6~10 hrs | Snack  |  |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| 4. Proof         | Heatproof glass dish on the low rack   | 40° C                   | -        | 40° C  | <p><b>How to make yogurt</b></p> <ul style="list-style-type: none"> <li>• Pour a 1000 ml milk into a proper heat-resistant bowl with cover.</li> <li>• Boil it to proper temperature (up to 60~70° C) and then cool down to about 40° C.</li> <li>• Add 150ml natural yogurt into a bowl and stir well.</li> <li>• Place covered bowl in the oven.</li> <li>• Choose the menu, and set cook time 5~8 hours.</li> </ul> <p><b>How to raise yeast dough</b></p> <ul style="list-style-type: none"> <li>• Place the dough in a proper heat-resistant bowl and cover with baking wrap or damp cloth.</li> <li>• Place the bowl in the oven.</li> <li>• Choose the menu, and set cook time about 40 minutes until the dough has doubled in volume.</li> </ul>   |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |
| 5. Plate warming | On the low rack  | 40° C<br>~100° C        | 10° C    | 70° C  | Use this function to warm plates to a hot and comfortable temperature. Make sure that plates are heat resistant.   |           |             |          |      |     |         |                         |       |         |  |      |                        |       |          |   |      |                                |       |         |        |        |                                       |       |          |                              |           |                                      |       |          |                                    |          |                             |       |          |                              |          |  |       |         |   |            |  |       |          |       |

## Crispy Reheat

In the following example, show you how to cook 0.5kg lasagna.

- 1 Press **STOP/CLEAR**.



- 2 Press **CRISPY REHEAT**.

The following indication is displayed: " **auto** ".



- 3 Turn **COOK MODE** until display shows " 2 LASAGNA ".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.5kg".

Press **START/QUICK START**.

When cooking you can increase or decrease cooking time by turning **COOK MODE**.



### NOTE

- Crispy Reheat menus are programmed.
- Crispy Reheat allows you to cook most of your favorite food by selecting the food type and the weight of the food.

## Crispy Reheat Guide

| Category        | Weight Limit | Utensil                                 | Food Temp.   | Instructions  |
|-----------------|--------------|---|--------------|---|
| 1. Roasted meat | 0.2~0.6 kg   | Crisp tray<br>On the low rack           | Refrigerated | Place roasted meat in crisp tray on the low rack. Choose the menu and weight, press start.  |
| 2. Lasagna      | 0.2~0.8 kg   | Heatproof glass dish<br>On the low rack | Refrigerated | Cut leftover lasagna into pieces. (200~250g/piece)<br>Place food a heatproof glass dish on the low rack. Choose the menu and weight, press start. |
| 3. Bread        | 0.1~0.3 kg   | Low rack                                | Frozen       | Place frozen bread (50~100g/piece) on the low rack. Choose the menu and weight, press start.  |
| 4. Pie/Tart     | 0.2~0.8 kg   | Heatproof glass dish<br>On the low rack | Refrigerated | Cut leftover pie into pieces. (200~250g/piece)<br>Place food on a heatproof glass dish on the low rack. Choose the menu and weight, press start.  |



## Healthy Fry

In the following example, show you how to cook 0.5 kg of chicken nuggets.

- 1 Press **STOP/CLEAR**.



- 2 Press Steam **HEALTHY FRY**.

The following indication is displayed: "auto".



- 3 Turn **COOK MODE** until display shows "2 CHICKEN NUGGETS".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.5kg".



- 5 Press **START/QUICK START**.

When cooking you can increase or decrease cooking time by turning **COOK MODE**.



### CAUTION

1. Always use culinary gloves when removing a crisp tray from the oven. It's very hot.
2. Do not put a hot healthy on a glass table or a place. Always make sure to use a pad or tray.
3. Never use this crisp tray with a product of a different model. It may cause a fire or fatal damage to the product.

### NOTE

- This feature allows you to crispy cook.
- For the best result, use the following accessories.



## Healthy Fry Guide

| Category             | Weight Limit | Utensil                        | Food Temp.   | Instructions   |
|----------------------|--------------|--------------------------------|--------------|--|
| 1. Sausage           | 0.2~0.6 kg   | Crisp tray<br>On the high rack | Refrigerated | Slit on the surface of sausage and rub the surface with oil.<br>Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |
| 2. Chicken nuggets   | 0.2~0.5 kg   | Crisp tray<br>On the high rack | Frozen       | Place chicken nuggets on the crisp tray on the high rack.<br>Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.   |
| 3. Chicken schnitzel | 0.2~0.8 kg   | Crisp tray<br>On the low rack  | Refrigerated | <p><b>Ingredients</b><br/> <i>Chicken breasts of 150~200 g per each.</i><br/> <i>1 cup flour / 2 eggs, lightly beaten</i><br/> <i>1 cup finely ground breadcrumbs</i><br/> <i>Salt and pepper to taste</i></p> <ol style="list-style-type: none"> <li>1. Season chicken breasts with salt and pepper or as desired, coat in flour and brush with beaten eggs.</li> <li>2. Coat with finely ground breadcrumbs and brush surface of schnitzel with oil.</li> <li>3. Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.</li> </ol> |

## Healthy Fry Guide

| Category          | Weight Limit | Utensil                        | Food Temp.   | Instructions  |
|-------------------|--------------|--------------------------------|--------------|---|
| 4. Fish Schnitzel | 0.2~0.8 kg   | Crisp tray<br>On the high rack | Refrigerated | <p><b>Ingredients</b><br/> <i>Fish fillet of 150~200 g weight each.</i><br/> <i>1 cup flour / 2 eggs, lightly beaten</i><br/> <i>1 cup finely ground breadcrumbs</i><br/> <i>Salt and pepper to taste</i></p> <ol style="list-style-type: none"> <li>Season the fish fillet with salt and pepper or as desired, coat in flour and brush with beaten egg.</li> <li>Coat with finely ground breadcrumbs and rub the surface of schnitzel with oil</li> <li>Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking.</li> </ol>  |
| 5. Cutlet         | 0.2~0.8 kg   | Crisp tray<br>On the high rack | Refrigerated | <p><b>Ingredients</b><br/> <i>500 g lean ground lamb or beef</i><br/> <i>500 g small potatoes, cooked and mashed</i><br/> <i>3 eggs / 2 onions, grated</i><br/> <i>2 tablespoons chopped parsley</i><br/> <i>1 cup bread crumbs / Salt and pepper to taste</i></p> <ol style="list-style-type: none"> <li>Mix meat, potatoes, eggs, onions and parsley.</li> <li>With meat mixture, make balls about 4~5cm in diameter.</li> <li>Spread bread crumbs on flat surface. Roll each ball in bread crumbs until it is fully covered. Shape the ball into an ellipse with thickness of 1cm. Rub the surface of cutlet with oil.</li> <li>Place food on the crisp tray on the high rack. Choose the menu and weight, press start.</li> </ol> |
| 6. Salmon fillet  | 0.2~0.8 kg   | Crisp tray<br>On the high rack | Refrigerated | <p>Choose salmon fillet of 200g weight and 2.5cm thickness each. Rub the surface of salmon with oil and season as desired. Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking. After cooking, remove from the oven and stand.</p>  |
| 7. Ham-burger     | 0.2~0.4 kg   | Crisp tray<br>On the high rack | Refrigerated | <p>Choose hamburger of 100g weight and 0.5~1cm thickness each. Rub the surface of hamburger with oil. Place food on the crisp tray on the high rack. Choose the menu and weight, press start. When BEEP, turn food over and press start to continue cooking. After cooking, remove from the oven and stand.</p>   |
| 8. French fries   | 0.2~0.4 kg   | Crisp tray<br>On the low rack  | Frozen       | <p>Spread frozen potato products out on the crisp tray on the low rack. For the best results, cook in single layer. Choose the menu and weight, press start.</p>  |

## Defrost & Cook

In the following example, show you how to cook 0.6 kg of pie/tart.

- 1 Press **STOP/CLEAR**.



- 2 Press **DEFROST & COOK**.

The following indication is displayed: "auto".



- 3 Turn **COOK MODE** until display shows "3 PIE/TART".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.6 kg". Press **START/QUICK START**.

When cooking you can increase or decrease cooking time by turning **COOK MODE**.



### ! NOTE

- Defrost & Cook menus are programmed.
- Defrost & Cook allows you to cook most of your favorite food by selecting the food type and the weight of the food.

## Defrost & Cook Guide

| Category          | Weight Limit | Utensil                                 | Food Temp. | Instructions   |
|-------------------|--------------|---|------------|--|
| 1. Quiche         | 0.3~1.0 kg   | Heatproof glass dish<br>On the low rack | Frozen     | Remove quiche from box packages and remove tray. Place food on a heatproof glass dish on the low rack. Choose the menu and weight, press start.    |
| 2. Lasagna        | 0.3~0.6kg    | Low rack                                | Frozen     | Remove lasagna from box packages and remove cover. Place food on the low rack. Choose the menu and weight, press start.                            |
| 3. Pie/Tart       | 0.2~0.8kg    | Heatproof glass dish<br>On the low rack | Frozen     | Remove pie/ tart from box packages and remove tray. Place food on a heatproof glass dish on the low rack. Choose the menu and weight, press start. |
| 4. Chicken pieces | 0.2~0.8kg    | Crisp tray<br>On the high rack          | Frozen     | Place chicken pieces on the metal tray on the low rack. Choose the menu and weight, press start.   |

## Auto Defrost

The temperature and density of food varies, recommend that the food be checked before cooking begins. Pay particular attention to large joints of meat and chicken, some foods should not be completely thawed before cooking.

For example fish cooks so quickly that it is sometimes better to begin cooking while still slightly frozen. This will require a standing time to allow the centre to thaw.

Weigh the food that you are about to defrost. Be certain to remove any metallic ties or wraps; then place the food on microwave safe dish on the glass tray in your oven and close the oven door.

In the following example, show you how to defrost 0.8kg frozen poultry.

- 1 Press **STOP/CLEAR**.



- 2 Press **AUTO DEFROST**.

The following indication is displayed: "00".



- 3 Turn **COOK MODE** until display shows "2 POULTRY".

Press **START/QUICK START** for category confirmation.



- 4 Turn **COOK MODE** until display shows "0.8kg" for the weight of frozen food.

Press **START/QUICK START**.



- 5 During defrosting your oven will "BEEP", at which point you should open the oven door, turn food over and separate it to ensure even thawing. Remove any portions that have thawed or shield them to help slow down thawing. After checking, close the oven door and press **START/QUICK START** to resume defrosting.

**Your oven will not stop defrosting (even when the BEEP sounds) unless the door is opened.**

### NOTE

- Your oven has 4 microwaves defrost settings:
  - **Meat, Poultry, Fish** and **Bread**; each defrost category has different power settings.
- Food to be cooked should be placed in microwave-safe utensils.
- Please do not use the following accessories.



High rack



Low rack

## Auto Defrost Guide

- \* Food to be defrosted should be placed in a suitable microwave proof container and placed uncovered on the glass tray.
  - \* If necessary, shield small areas of meat or poultry with flat pieces of aluminum foil. This will prevent thin areas from becoming warm during defrosting. Ensure the foil does not touch the oven walls.
  - \* Separate items like minced meat, chops, sausages and bacon as soon as possible.
- When BEEP sounds, turn food over.** Remove defrosted portions. Continue to defrost remaining pieces. After defrosting, allow to stand until completely thawed.

| Category   | Weight Limit | Utensil              | Instructions   |
|------------|--------------|----------------------|--|
| 1. Meat    | 0.1~4.0kg    | Microwave-safe plate | - Minced beef, Fillet steak, Cubes for stew, Sirloin steak, Pot roast, Rump roast, Beef burger Pork chops, Lamb chops, Rolled roast, Sausage, Cutlets(2cm).<br>- Turn food over at BEEP.<br>- After defrosting, cover with aluminum foil and let stand for 5~15 minutes. |
| 2. Poultry |              |                      | - Whole chicken, Legs, Breasts, Turkey breasts (under 2.0kg).<br>- Turn food over at BEEP.<br>- After defrosting, let stand for 20~30 minutes.   |
| 3. Fish    |              |                      | - Fillets, Steaks, Whole fish, Seafood.<br>- Turn food over at BEEP.<br>- After defrosting, let stand for 10~20 minutes.   |
| 4. Bread   | 0.1~0.5kg    | Paper towel          | - Sliced bread, Buns, Baguette, etc.<br>- After defrosting, let stand for 1 minute.  |

# FOOD CHARACTERISTICS & MICROWAVE COOKING

## Keeping an eye on things

The recipes in the book have been formulated with great care, but your success in preparing them depends on how much attention you pay to the food as it cooks. Always watch your food while it cooks. Your microwave function is equipped with a light that turns on automatically when the oven is in operation so that you can see inside and check the progress of your food. Directions given in recipes to elevate, stir, and the like should be thought of as the minimum steps recommended. If the food seems to be cooking unevenly, simply make the necessary adjustments you think appropriate to correct the problem.

## Factors affecting microwave cooking times

Many factors affect cooking times. The temperature of ingredients used in a recipe makes a big difference in cooking times. For example, a cake made with ice-cold butter, milk, and eggs will take considerably longer to bake than one made with ingredients that are at room temperature. All of the recipes in this book give a range of cooking times. In general, you will find that the food remains under-cooked at the lower end of the time range, and you may sometimes want to cook your food beyond the maximum time given, according to personal preference. The governing philosophy of this book is that it is best for a recipe to be conservative in giving cooking times because overcooked food is ruined for good. Some of the recipes, particularly those for bread, cake, and custards, recommend that food be removed from the oven when they are slightly undercooked. This is not a mistake. When allowed to stand, usually covered, these foods will continue to cook outside of the oven as the heat trapped within the outer portions of the food gradually travels inward. If the food is left in the oven until it is cooked all the way through, the outer portions will become overcooked or even burnt. You will become increasingly skillful in estimating both cooking and standing times for various foods.

## Density of food

Light, porous food such as cakes and breads cook more quickly than heavy, dense foods such as roasts and casseroles. You must take care when microwaving porous food so that the outer edges do not become dry and brittle.

## Height of food

The upper portion of tall foods, particularly roasts, will cook more quickly than the lower portion. Therefore, it is wise to turn tall food several during cooking.

## Moisture content of food

Since the heat generated from microwaves causes moisture to evaporate, relatively dry food such as roasts and some vegetables should either be sprinkled with water prior to cooking or covered to retain moisture.

## Bone and fat content of food

Bones conduct heat and fat cooks more quickly than meat. Care must be taken when cooking bony or fatty cuts of meat in order to prevent unevenly or overcooked meat.

## Quantity of food

The number of microwaves in your oven remains constant regardless of how much food is being cooked. Therefore, the more food you place in the oven, the longer the cooking time. Remember to decrease cooking times by at least one third when halving a recipe.

## Shape of food

Microwaves penetrate only about 2 cm into food, the interior portion of thick foods are cooked as the heat generated on the outside travels inward. Only the outer edge of food is cooked by microwave energy; the rest is cooked by conduction. The worst possible shape for a food that is to be microwaved is a thick square. The corners will burn long before the centre is even warm. Round thin foods and ring shaped foods cook most successfully in the microwave.

## Covering

A cover traps heat and steam which causes food to cook more quickly. Use a lid or microwave cling film with a corner folded back to prevent splitting.

# FOOD CHARACTERISTICS & MICROWAVE COOKING

## Browning

Meats and poultry that are cooked fifteen minutes or longer will brown lightly in their own fat. Foods that are cooked for a shorter period of time may be brushed with a browning sauce such as worcestershire sauce, soy sauce or barbecue sauce to achieve an appetizing colour. Since relatively small amounts of browning sauces are added to food, the original flavour of the recipe is not altered.

## Covering with greaseproof paper

It is a looser cover than a lid or cling film, the food may dry out slightly. But because it makes a looser cover than a lid or clingfilm, it allows the food to dry out slightly.

## Arranging and spacing

Individual foods such as baked potatoes, small cakes and hors d'oeuvres will heat more evenly if placed in the oven an equal distance apart, preferably in a circular pattern. Never stack foods on top of one another.

## Stirring

Stirring is one of the most important of all microwaving techniques. In conventional cooking, food is stirred for the purpose of blending. Microwaved food, however, is stirred in order to spread and redistribute heat. Always stir from the outside towards the centre as the outside of the food heats first.

## Turning over

Large, tall foods such as roasts and whole chickens should be turned so that the top and bottom will cook evenly. It is also a good idea to turn cut up chicken and chops.

## Placing thicker portions facing outwards

Since microwaves are attracted to the outside portion of food, it makes sense to place thicker portions of meat, poultry and fish to the outer edge of the baking dish. This way, thicker portions will receive the most microwave energy and the food will cook evenly.

## Shielding

Strips of aluminium foil (which block microwaves) can be placed over the corners or edges of square and rectangular foods to prevent those portions from overcooking. Never use too much foil and make sure the foil is secured to the dish or it may cause 'arcing' in the oven.

## Elevating

Thick or dense foods can be elevated so that microwaves can be absorbed by the underside and centre of the foods.

## Piercing

Foods enclosed in a shell, skin or membrane are likely to burst in the oven unless they are pierced prior to cooking. Such foods include yolks and whites of eggs, clams and oysters and whole vegetables and fruits.

## Testing if cooked

Food cooks so quickly in a oven, it is necessary to test it frequently. Some foods are left in the microwave until completely cooked, but most foods, including meats and poultry, are removed from the oven while still slightly undercooked and allowed to finish cooking during standing time. The internal temperature of foods will rise between 5° F (3° C) and 15° F (8° C) during standing time.

## Standing time

Foods are often allowed to stand for 3 to 10 minutes after being removed from the oven. Usually the foods are covered during standing time to retain heat unless they are supposed to be dry in texture (some cakes and biscuits, for example). Standing allows foods to finish cooking and also helps flavour blend and develop.

## To Clean Your Oven

### 1 Keep the inside of the oven clean

Food spatters or spilled liquids stick to oven walls and between the seal and door surfaces. It is best to wipe up spillovers with a damp cloth right away. Crumbs and spillovers will absorb microwave energy and lengthen cooking times. Use a damp cloth to wipe out crumbs that fall between the door and the frame. It is important to keep this area clean to assure a tight seal. Remove greasy spatters with a soapy cloth then rinse and dry. Do not use harsh detergent or abrasive cleaners. The metal tray can be washed by hand or in the dishwasher.

### 2 Keep the outside of the oven clean

Clean the outside of your oven with soap and water then with clean water and dry with a soft cloth or paper towel. To prevent damage to the operating parts inside the oven, the water should not be allowed to seep into the ventilation openings. To clean control panel, open the door to prevent the oven from accidentally starting, and wipe a damp cloth followed immediately by a dry cloth. Press Stop/Clear after cleaning.

- 3 If steam accumulates inside or around the outside of the oven door, wipe the panels with a soft cloth. This may occur when the oven is operated under high humidity conditions and in no way indicates a malfunction of the unit.
- 4 The door and door seals should be kept clean. Use only warm, soapy water, rinse then dry thoroughly. DO NOT USE ABRASIVE MATERIALS, SUCH AS CLEANING POWDERS OR STEEL AND PLASTIC PADS. Metal parts will be easier to maintain if wiped frequently with a damp cloth.
- 5 Do not use steam cleaners.
- 6 Unplug your oven from the electrical socket when you clean control panel with wet cloth or spray water on control glass to clean. If it is not unplugged, this product can be operated by touching the Quick Start button.

## QUESTIONS & ANSWERS

| FAQ   | Answer  |
|---|---|
| What's wrong when the oven light will not glow?                             | There may be several reasons why the oven light will not glow. Either the light bulb has blown or the electric circuit has failed.  |
| Does microwave energy pass through the viewing screen in the door?          | No. The holes, or ports, are made to allow light to pass; they do not let microwave energy through.   |
| Why does the BEEP tone sound when a button on the control panel is touched? | The BEEP tone sounds to assure that the setting is being properly entered.  |
| Will the microwave function be damaged if it operates empty?                | Yes. Never run it empty.  |
| Why do eggs sometimes pop?  | When baking, frying, or poaching eggs, the yolk may pop due to steam build up inside the yolk membrane. To prevent this, simply pierce the yolk before cooking. Never microwave eggs in the shell.  |
| Why is standing time recommended after microwave cooking is over?           | After microwave cooking is finished, food keeps on cooking during standing time. This standing time finishes cooking evenly throughout the food. The amount of standing time depends on the density of the food.  |
| Why doesn't my oven always cook as fast as the cooking guide says?          | Check your cooking guide again to make sure you've followed directions correctly, and to see what might cause variations in cooking time. Cooking guide times and heat settings are suggestions, chosen to help prevent overcooking, the most common problem in getting used to this oven. Variations in the size, shape, weight and dimensions of the food require longer cooking time. Use your own judgment along with the cooking guide suggestions to test food conditions, just as you would do with a conventional cooker. |



## TEST DISHES IN ACCORDANCE WITH EN 60705

| Function                               | Meal          | Microwave Wattage Setting | Heating Temperature | Notes   |
|--|---------------|---------------------------|---------------------|---|
| Microwave defrosting                   | Meat          | Auto key function         | -                   | Place a flat plate on the center of the glass tray. Use the "Auto defrost 1" function and select appropriate weight. When BEEP, turn food over and press start to continue cooking.                 |
| Microwave cooking                      | Custard       | 360 W, 28~35 min          | -                   | Place a Pyrex dish on the center of the glass tray.   |
|  | Sponge cake   | 900 W, 4~5 min            | -                   | Place a ø22 cm Pyrex dish on the center of the glass tray.  |
|  | Meat loaf     | 540 W, 13~25 min          | -                   | Place a Pyrex dish on the center of the glass tray.   |
| Combination cooking with the microwave | Potato gratin | 360 W, 25~29 min          | 200° C              | Place a ø 22cm Pyrex dish on low rack.  |
|  | Cake          | -                         | 170° C              | Place a ø22 cm Pyrex dish on low rack.  |
|  | Chicken       | Auto key function         | -                   | Place chicken breast-side down on the low rack on a drip dish. Use the "Active convection 1" function and select appropriate weight. When BEEP, turn food over and press start to continue cooking. |

## TECHNICAL SPECIFICATIONS

| MJ3881BP                |   |                            |
|-------------------------|---|----------------------------|
| Power Input             | 240V~50 Hz                                    |                            |
| Microwave Output Power. | 900 Watt (IEC60705 rating standard)           |                            |
| Microwave Frequency     | 2450 MHz                                      |                            |
| Oven Cavity Dimension   | MJ3881BP<br>393 mm(W) X 250 mm(H) X 386 mm(D) |                            |
| Outside Dimension       | 559 mm(W) X 340 mm(H) X 567 mm(D)             |                            |
| Power Consumption       | Max.  | 2150 watt                  |
|                         | Microwave                                     | 1400 Watt                  |
|                         | Grill   | 1100 Watt                  |
|                         | Convection                                    | 1100 Watt (Max. 2150 Watt) |
|                         | Combination                                   | Max. 2150 Watt             |

### Disposal of your old appliance



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

