

# Built-In Convection Microwave Oven (Speed Oven)

## Installation Manual

### 800 SERIES

HMC87152UC, HMC80152UC, HMC80252UC,  
HMCP0252UC



**BOSCH**

Invented for life



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Questions?

1-800-944-2904

www.bosch-home.com

1901 Main Street, Suite 600  
Irvine, CA 92614

We look forward to hearing from you!

## Safety Definitions

**⚠ WARNING**

This indicates that death or serious injuries may occur as a result of non-observance of this warning.

**⚠ CAUTION**

This indicates that minor or moderate injuries may occur as a result of non-observance of this warning.

**NOTICE:** This indicates that damage to the appliance or property may occur as a result of non-compliance with this advisory.

**Note:** This alerts you to important information and/or tips.

# **IMPORTANT SAFETY INSTRUCTIONS**

## READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

INSTALLER: LEAVE THESE INSTRUCTIONS WITH THE APPLIANCE AFTER INSTALLATION IS COMPLETE.

IMPORTANT: SAVE THESE INSTRUCTIONS FOR THE LOCAL ELECTRICAL INSPECTOR'S USE.

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### **WARNING**

If the information in this manual is not followed exactly, fire or shock may result causing property damage or personal injury.

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### **WARNING**

Do not repair, replace or remove any part of the appliance unless specifically recommended in the manuals. Improper installation, service or maintenance can cause injury or property damage. Refer to this manual for guidance. All other servicing should be done by an authorized servicer.

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## **Appliance Handling Safety**

Unit is heavy and requires at least two people or proper equipment to move.

Do not lift appliance by door handle.

Hidden surfaces may have sharp edges. Use caution when reaching behind or under appliance.

## **Safety Codes and Standards**

This appliance complies with the latest version of one or more of the following standards:

- CAN/CSA C22.2 No. 61 - Household Cooking Ranges
- UL 858 - Household Electric Ranges
- CAN/CSA C22.2 No. 150 - Microwave Ovens
- UL 923 - Microwave Cooking Appliances
- UL 507 - Electric Fans
- CAN/CSA C22.2 No. 113 - Fans and Ventilators
- CSA C22.2 No. 64 - Household Cooking and Liquid-Heating Appliances
- UL 1026 - Electric Household Cooking and Food Serving Appliances

It is the responsibility of the owner and the installer to determine if additional requirements and/or standards apply to specific installations.

## **Electric Safety**

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### **WARNING**

Before you plug in an electrical cord or turn on power supply, make sure all controls are in the OFF position.

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### **WARNING**

The appliance must be disconnected from the source of supply before attempting the installation.

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For appliances equipped with a cord and plug, do not cut or remove the ground prong. It must be plugged into a matching grounding type receptacle to avoid electrical shock. If there is any doubt as to whether the wall receptacle is properly grounded, the customer should have it checked by a qualified electrician.

If required by the National Electrical Code (or Canadian Electrical Code), this appliance must be installed on a separate branch circuit.

Installer – show the owner the location of the circuit breaker or fuse. Mark it for easy reference.

Before installing, turn power OFF at the service panel. Lock service panel to prevent power from being turned ON accidentally.

Be sure your appliance is properly installed and grounded by a qualified technician. Installation, electrical connections and grounding must comply with all applicable codes.

## **Microwave Safety**

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- Do not operate or allow the oven to be operated with the door open.
- Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary:
  1. Interlock operation
  2. Proper door closing
  3. Seal and sealing surfaces (arcing, wear, and other damage)
  4. Damage to or loosening of hinges and latches
  5. Evidence of dropping or abuse
- Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connection.
- Any damaged or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.



# IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

## GROUNDING INSTRUCTIONS

This appliance must be grounded. Grounding reduces the risk of electric shock by providing a safe pathway for electric current in the event of a short circuit.

This appliance must be grounded. Connect only to properly grounded outlet. → *"Electrical Installation - GROUNDING INSTRUCTIONS" on page 8*

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### WARNING

Improper grounding can result in a risk of electric shock. Consult a qualified electrician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded. Do not use an extension cord. If the power supply cord is too short, have a qualified electrician install an outlet near the appliance.

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#### For all cord-connected appliances:

This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

#### For a permanently connected appliance

This appliance must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding conductor should be run with the circuit conductors and connected to the equipment grounding terminal or lead on the appliance.

## Related Equipment Safety

Remove all tape and packaging before using the appliance. Destroy the packaging after unpacking the appliance. Never allow children to play with packaging material.

Never modify or alter the construction of the appliance. For example, do not remove leveling legs, panels, wire covers or anti-tip brackets/screws.

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### WARNING

To reduce the risk of fire, use only metal ductwork.

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### CAUTION

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

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## State of California Proposition 65 Warnings

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### WARNING

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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# Before you begin

## Tools and parts needed

- Philips head screwdriver
- 1/8" drill bit and drill
- Measuring tape

## Parts included

- Microwave oven
- Philips head screws

## Power Requirements

The outlet must be properly grounded in accordance with all applicable codes.

It can be installed in the back wall directly behind the appliance.

You can also connect your appliance directly to a compatible conventional Built-in Oven. Refer to separate Combination Instructions.

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# Checklist for Installation

Use this checklist to verify that you have completed each step of the installation process. This can help you avoid common mistakes.

Refer to detailed instructions for each step in the sections following this checklist.

1. Before installing the appliance, be sure to verify the cabinet dimensions are correct for your appliance and that the required electrical connections are present. Make sure the electrical conduit provided on the appliance is able to reach to the point of connection.  
*Section: Dimensions and Cabinet Requirements*

2. Move the appliance into place in front of the cabinet opening.

*Section: Removing Packaging*

3. Remove packaging materials, leaving the bottom packaging on the appliance to avoid damage to the floor.

*Section: Removing Packaging*

4. Team-lift the appliance directly into the cabinet cutout.  
*Section: Install Appliance, "Mount to Cabinet"*

5. Slide the appliance all the way into place.  
*Section: Install Appliance, "Mount to Cabinet"*

6. Fasten the appliance to the cabinet opening with the screws supplied.

*Section: Install Appliance, "Mount to Cabinet"*

Always read and follow the complete installation instructions contained in this manual.

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# Removing Packaging

**NOTICE:** To prevent damage to your floor keep the unit in its packaging base until ready to be placed in the cabinet opening. Do not slide the unit across the flooring. Different models use different packaging materials. Bracket remains in packaging base.

1. Cut straps on outside of box.
2. Remove cardboard box.
3. Remove all top and side cardboard and Styrofoam braces.
4. Place oven in front of cabinets where it is to be installed.

**NOTICE:** To avoid damage to the microwave oven, do not grip or use the door or door handle while the microwave oven is being handled.



# Dimensions and Cabinet Requirements

## General Cabinet Requirements

Cabinet requirements vary depending on the model to be installed. Please consult the section *Dimensions* for the details pertaining to your particular model.

### All models require:

- 1/4" (6.4 mm) space between the side of the appliance and an adjacent wall or cabinet door when installed at the end of a cabinet run.
- The cabinet base must be flat and capable of supporting the weight of your appliance when in use. See the appropriate weight for your model in the *Dimensions* section pertaining to your particular model. For combination units consult the section *Cabinet Dimension Requirements* in the installation manual of your combination appliance.
- The appliance door will overlap the furniture below by approx. 3/16" (5 mm) when opened. If necessary, you can elevate the appliance position by adding a panel in the required thickness on top of the supporting base. The supporting base must be level and securely fixed to the cabinet.

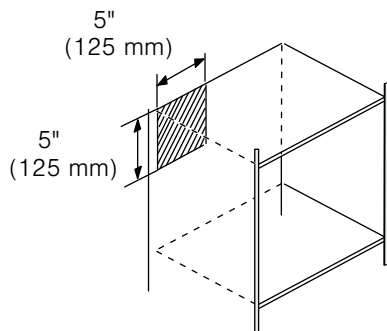
## Outlet Area

Anywhere within the shaded area the minimal distance between the appliance and the wall is 1 3/4 in (45 mm).

**Appliances with plug connection:** The outlet can be located anywhere within the shaded area.

### Appliances with wire conduit connection:

- For stand alone installation, the electrical connection box must be mounted to the wall inside the cabinet cavity anywhere within the shaded area.
- For installation as part of a combination of various Bosch appliances, please consult the installation manual of the combo-unit.



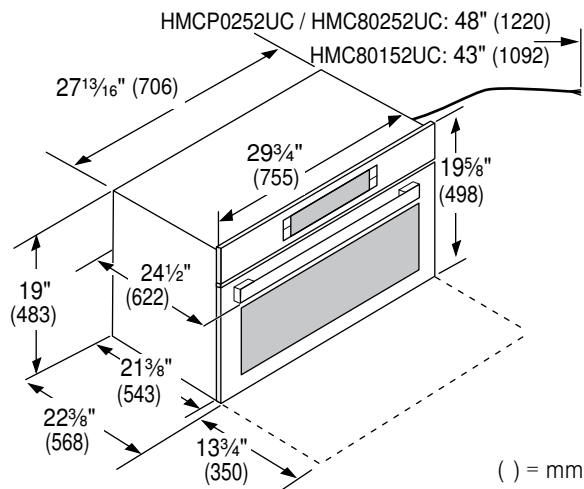
## Dimensions for 30" Wall-Mounted Units

HMC80152UC

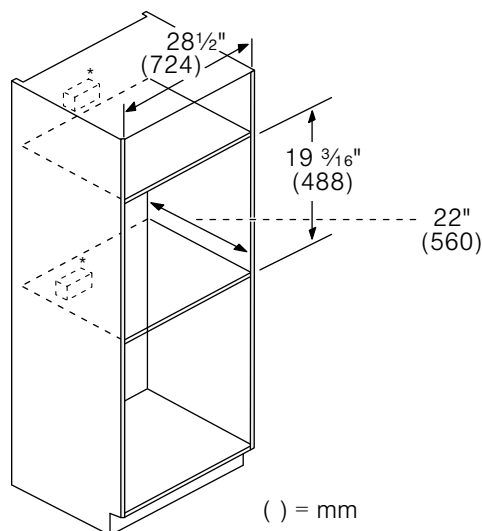
HMC80252UC

HMCP0252UC

### Appliance Dimensions

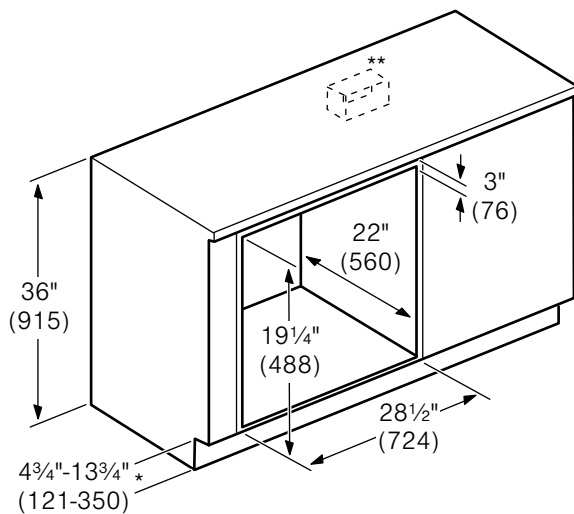


### Cabinet Dimensions

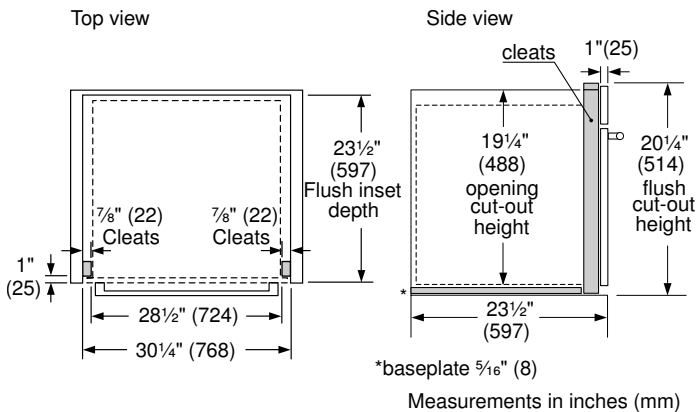


**NOTICE:** The cabinet base must be flat and capable of supporting a weight of at least 142 lbs (64.1 kg).

## Under counter dimensions 30" units



## Flush installation 30" units

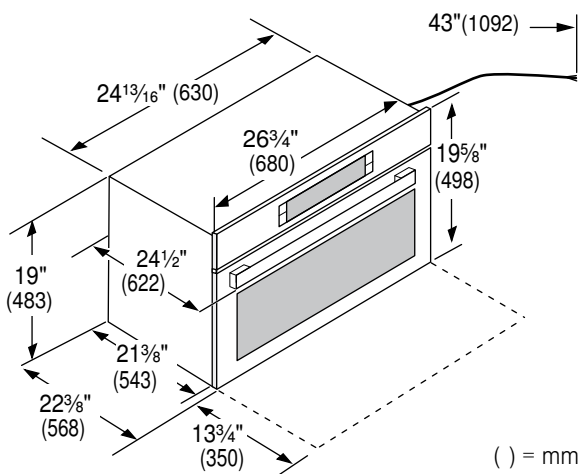


Flush installation also requires:

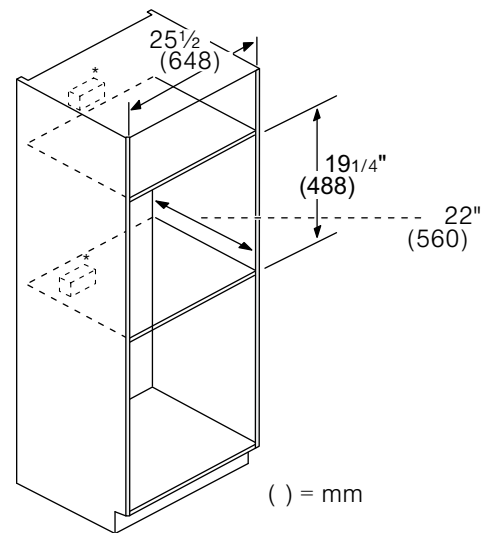
- two side cleats to be attached inside the cabinet frame, recessed from the front
- a  $\frac{5}{16}$ " (8 mm) baseplate underneath the unit body.

## Dimensions for 27" Wall-Mounted Units HMC87152UC

### Appliance Dimensions

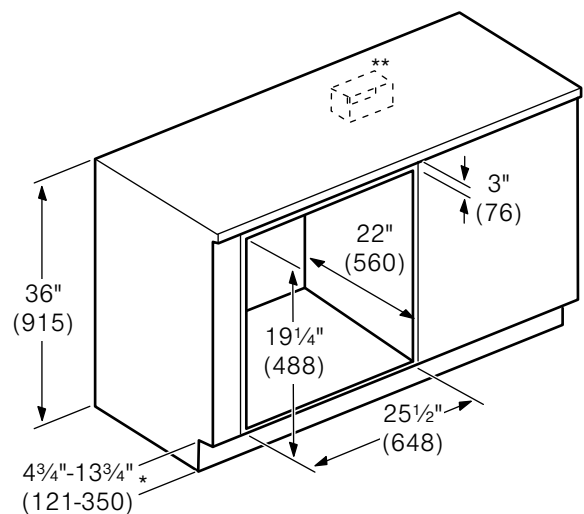


## Cabinet Dimensions

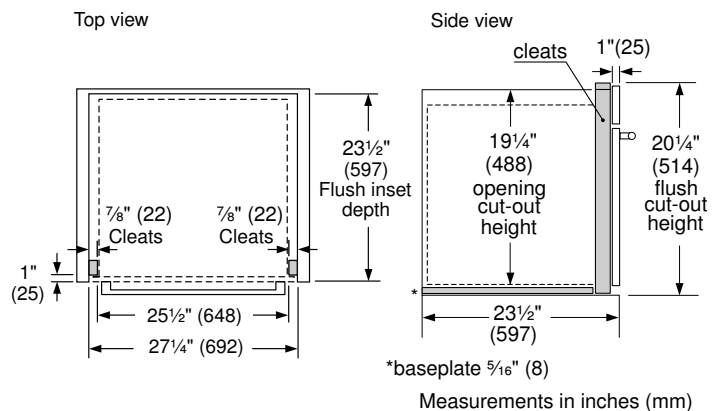


**NOTICE:** The cabinet base must be flat and capable of supporting a weight of at least 142 lbs (64.1 kg).

## Under counter dimensions 27" units



## Flush installation 27 " units



Flush installation also requires:

- two side cleats to be attached inside the cabinet frame, recessed from the front
- a  $\frac{5}{16}$ " (8 mm) baseplate underneath the unit body.

# Electrical Installation - GROUNDING INSTRUCTIONS

The models stated on the front cover are either dual-rated, designed to be connected to either 208/240V AC, 60 Hz, 4-wire, single-phase power supply, or rated at 120V AC, 60 Hz and use a NEMA 5-20 plug to connect to a dedicated 120 V microwave circuit.

208/240 V models may also be combined with some Bosch Built-in Ovens and can be connected directly to the combo appliance. To do this, please refer to detailed instructions with the Bosch Combination Kit.

## ⚠ WARNING

When connected to a 4 or 5-wire, 120/208-Volt 3-phase power supply, the phase C conductor is not required for the operation of the appliance.

Model	Connection	Circuit Requirements	
HMCP0252UC	4 wire conduit cable	208 V, 60 Hz	20 Amps
		240 V, 60 Hz	20 Amps
HMC80252UC	4 wire conduit cable	208 V, 60 Hz	20 Amps
		240 V, 60 Hz	20 Amps
HMC80152UC	NEMA 5-20	120 V, 60 Hz	20 Amps
HMC87152UC	NEMA 5-20	120 V, 60 Hz	20 Amps

## Electrical Connection with Plug

**HMC80152UC**

**HMC87152UC**

Electrical Requirements:

- a three prong grounded outlet
- 120 V, 60 Hz, AC only
- 20 Amp electrical supply with a fuse or a circuit breaker

This product must be connected to a supply circuit of the proper voltage and frequency. Wire size must conform to the requirements of the National Electric Code or the prevailing local code for this rating. The power supply cord and plug should be brought to a separate 20-amp branch circuit single grounded outlet. The outlet box should be located in the area behind the appliance (see section *Cabinet Dimensions*). The outlet box and supply circuit should be installed by a qualified electrician and conform to the National Electrical Code or the prevailing local code.

The voltage used must be the same as specified on this microwave oven. Using a higher voltage is dangerous and may result in a fire or oven damage. Using a lower voltage will cause slow cooking. The manufacturer is not responsible for any damages resulting from the use of the oven with any voltage other than specified.

## Electrical Connection with Wire Conduit

**HMC80252UC**

**HMCP0252UC**

The electrical supply should be a 4-wire single-phase AC. Install a suitable conduit box (not furnished). An appropriately-sized, UL-listed conduit connector must be used to correctly attach the conduit to the junction box.

## ⚠ WARNING

Local codes may vary; installation, electrical connections and grounding must comply with all applicable local codes.

If local codes permit grounding through the electrical supply neutral, connect both the white neutral wire and the bare ground wire from the oven to the white neutral electrical supply wire.

## Electrical Connection

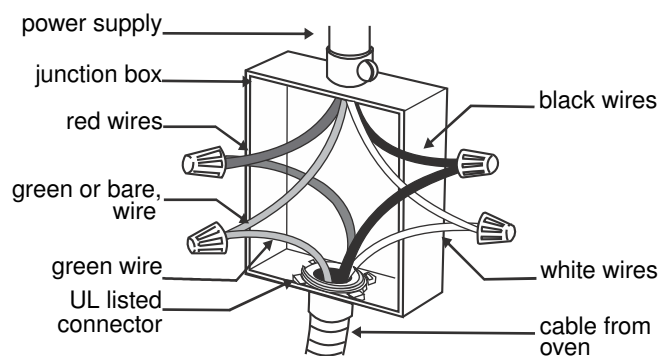
The four-wire connection is preferred, but where local codes permit, the three wire connection is also acceptable.

## ⚠ WARNING

When connected to a 4 or 5-wire, 120/208-Volt 3-phase power supply, the phase C conductor is not required for the operation of the appliance.

## Four-wire Connection

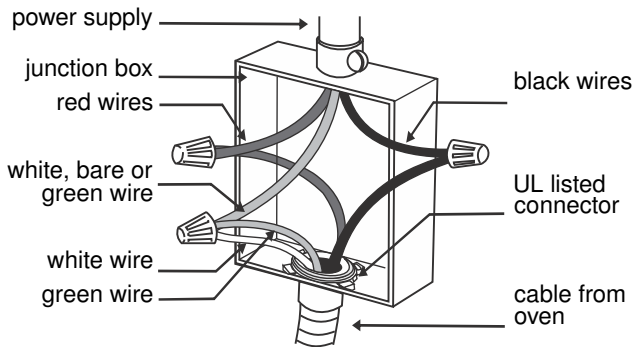
### Ungrounded Neutral



- Connect the red oven wire to the red electrical supply wire (hot wire).
- Connect the black oven wire to the black electrical supply wire (hot wire).
- Connect the white neutral oven wire to the white neutral (not bare or green ground) electrical supply wire.
- Connect the green ground oven wire to the bare or green ground electrical supply wire.



### Three-wire Connection Grounded Neutral



- Connect red wire from oven to red wire in junction box.
- Connect black wire from oven to black wire in junction box.
- Connect both green ground wire and white wire from oven to white, green or bare neutral wire in junction box.

The conduit cable, when connected at the oven, swivels. Rotate conduit cable upward (or downward) and direct through hole prepared in cabinet to attach to junction box.

To maintain serviceability, the flex conduit must not be shortened and should be routed to permit temporary removal of the oven.

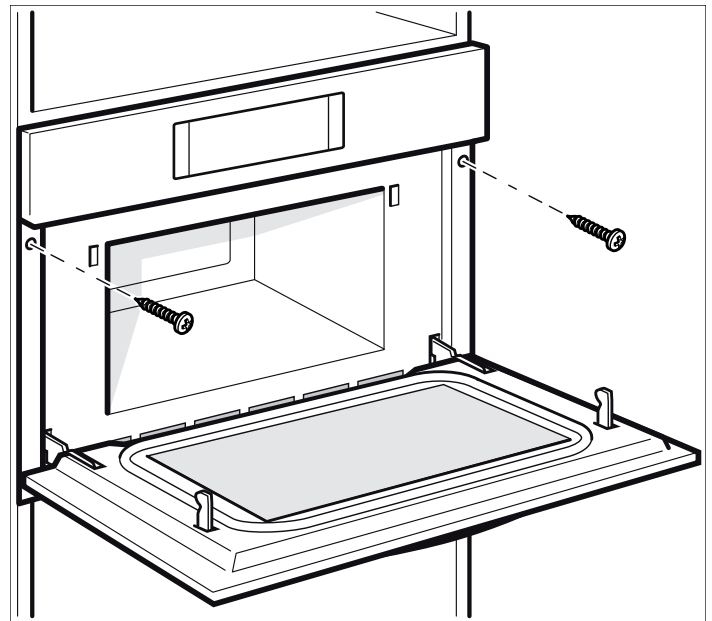
## Install Appliance

**Note:** The appliance is heavy. It is advisable to install it with a second person.

**NOTICE:** Before installing the appliance, be sure to verify the cabinet dimensions and electrical connections.

### Mount to Cabinet

1. Fully insert the appliance and center it. Do not kink the electrical cable.
2. Screw the appliance into place.



## Testing Operation

1. Turn on power at the breaker.
2. For Model HMC80252UC and HMCP0252UC: Check power at junction box using a volt meter.  
For 240 V installation, the reading between the red and black wires (line to line) should be 220 to 240 volts.  
For 208 V installation, the reading between the red and black wires (line to line) should be 190 to 208 volts.
3. For all models: Test the oven mode.  
Select the CONVECTION mode. See the Use and Care Manual for detailed operation instructions.
4. Verify that the oven light comes on and the oven begins to preheat.
5. Test the microwave:  
Place a cup of water into the oven cavity. Follow the instructions in the Use and Care Manual on how to heat a beverage.
6. Verify that the oven light comes on and the water is heated.
7. If any of the tests do not result as explained above, contact Service for assistance. Otherwise, the installation is complete at this time.

# Bosch® Support

## Before Calling Service

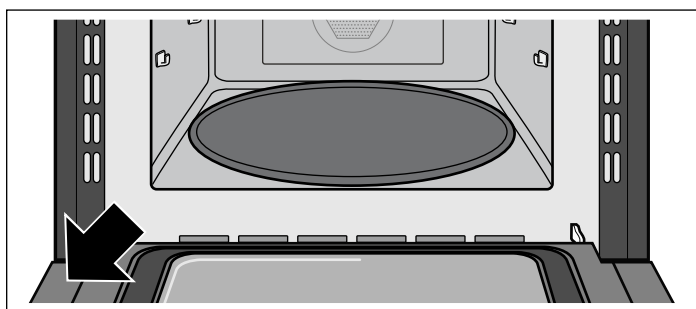
See the Use and Care Manual for troubleshooting information. Refer to the "Statement of Limited Product Warranty" in the Use and Care Manual.

To reach a service representative, see the contact information at the front of the manual or in the following section. Please be prepared with the information printed on your product data plate prior to calling.

## Data Plate

The data plate shows the model and serial number. Refer to the data plate on the appliance when requesting service.

The data plate can be found on the inside of the appliance door.



To avoid having to search for each piece of information when calling, you can enter the four items needed in the spaces provided below.

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**Model No.**

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**FD-No.**

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**Date of Purchase**

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**Customer Service** ☎

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Keep your invoice or escrow papers for warranty validation if service is needed.

## Service

We realize that you have made a considerable investment in your kitchen. We are dedicated to supporting you and your appliance so that you have many years of creative cooking.

Please don't hesitate to contact our Customer Support Department if you have any questions or in the unlikely event that your Bosch® appliance needs service. Our service team is ready to assist you.

### USA

800-944-2904

[www.bosch-home.com/us/support](http://www.bosch-home.com/us/support)

### Canada

800-944-2904

[www.bosch-home.ca/en/support](http://www.bosch-home.ca/en/support)

## Parts and Accessories

Parts, filters, descalers, stainless steel cleaners and more can be purchased in the Bosch® eShop or by phone.

### USA

[www.bosch-home.com/us/store](http://www.bosch-home.com/us/store)

### Canada

Marcone 800-482-6022

or

Reliable Parts 800-941-9217



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