

# turbofan<sup>®</sup>

## Turbofan Convection Oven

30 Series

## Use and Care Manual

E33D5

Electric Convection Oven

Digital Control



CONTENTS

**Preface**  
General information ..... 3  
Safety information ..... 3  
Warranty ..... 4

**Specifications**  
Product information ..... 5  
Overview ..... 5  
Replacement parts ..... 7

**Operation**  
Using the controls ..... 8  
General operation ..... 13  
Controller settings ..... 24  
Exporting or importing configuration files ..... 25

**Care and maintenance**  
Maintenance schedule ..... 27  
Maintenance tasks ..... 28  
Maintenance (periodic) ..... 30

**Troubleshooting**  
Fault finding ..... 31  
Error codes ..... 33

THANK YOU

Thank you for purchasing this Turbofan oven. Your Turbofan oven is designed to provide years of reliable service.

This manual will provide you with the information you need to operate and maintain your oven in the best possible way. Please read this manual carefully and refer to it frequently.

This manual must be kept for the entire life of the oven. The manual must remain with the oven, even if the oven is transferred, sold, leased, or shared.

This manual must be stored carefully in the place where the oven is used so that it is readily available to operators for consultation.

For your records

Model number

Serial number\*

Date of purchase

Date installed

Installer

\*Find the serial number on your oven's rating plate.

## General information

The drawings and diagrams in this manual are representative only and not to scale. They supplement the written instructions and specifications that they refer to.

## Copyright

### ❗ IMPORTANT

The reproduction or copying of any part of this manual by any means whatsoever is strictly forbidden unless authorised previously in writing by Moffat Limited.

## Warranty requirements

### ❗ IMPORTANT

Installations must be carried out by a certified or licensed service person only. Failure to comply will void any written or implied warranty.

### ❗ IMPORTANT

Unauthorised alterations to the oven may void warranties and approvals.

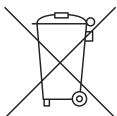
## Intended use and restrictions

### ❗ IMPORTANT

This appliance is intended for commercial use only, in kitchens of restaurants, canteens, and so on. It is not intended to be used in residential, outdoor, marine environments, or for the continuous mass-production of food.

- This oven must not be used by minors or adults with limited physical, sensory, or mental abilities.
- This oven must only be used by operators who are adequately trained in the purpose, limitations, and hazards of its operation. To avoid the risk of accidents or damage, operators should be regularly trained.

## Product disposal



This symbol on the oven indicates that this oven should not be treated as domestic or regular commercial waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and human health. For further information on the recycling of this oven, contact your local city office or your waste disposal service.

- ☑ The oven is built with common electrical, electromechanical, and electronic parts. No batteries are used.
- ☑ The owner and operator are responsible for the proper and safe disposal of the oven.

## Safety information

Read the safety messages in this manual and follow the instructions carefully. Review them frequently.

Safety messages cannot cover every potential cause of injury or equipment damage but can highlight common causes of hazards. Read and understand all instructions in this manual prior to installing or servicing the oven and seek advice before operating the oven in a manner other than that described in this manual. Consult your authorised service technician before performing maintenance.

- Ensure that you and all operators of this appliance understand every safety message.
- Know and observe all safety rules that may apply to your work situation and your work site.
- Replace the user manuals and safety labels immediately if they are missing or damaged.

## Recognize safety information



Safety alert symbol.

When you see this symbol in the manual or on the oven, pay special attention to the instructions.



Read the instructions before using the oven.



Risk of electric shock.



Risk of burns—hot surface.



Equipotential bonding terminal—must be connected to equipotential bonding system.



Risk of burns—hot liquid products above height level.

This manual uses the following safety symbols to indicate the level of caution required when using the oven.

**⚠ DANGER**

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

**⚠ WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

**⚠ CAUTION**

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**NOTICE**

Indicates information considered important, but not hazard-related (for example, messages relating to property damage).

## General safety

**⚠ WARNING**

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this oven.

**⚠ DANGER**

Fire hazard. Do not use gasoline or other flammable substances in the vicinity of this oven. Do not spray aerosols in the vicinity of this oven while it is in operation.

**⚠ WARNING**

Fire hazard. The oven operator shall take great care to use the oven safely and guard against risk of fire. The oven must not be left unattended during use.

**NOTICE**

The oven shall be regularly inspected by a competent service person to ensure that it is in safe and correct order for operation.

**⚠ CAUTION**

Do not operate this oven without the supplied legs fitted to it.

period of 12 months from the date of purchase or 18 months from the date of manufacture, whichever comes first.

Visit [www.moffat.com](http://www.moffat.com) for warranty terms and conditions or contact our Customer Care team.

## Warranty

Moffat warrants all equipment supplied by Moffat against defects in material and workmanship for a

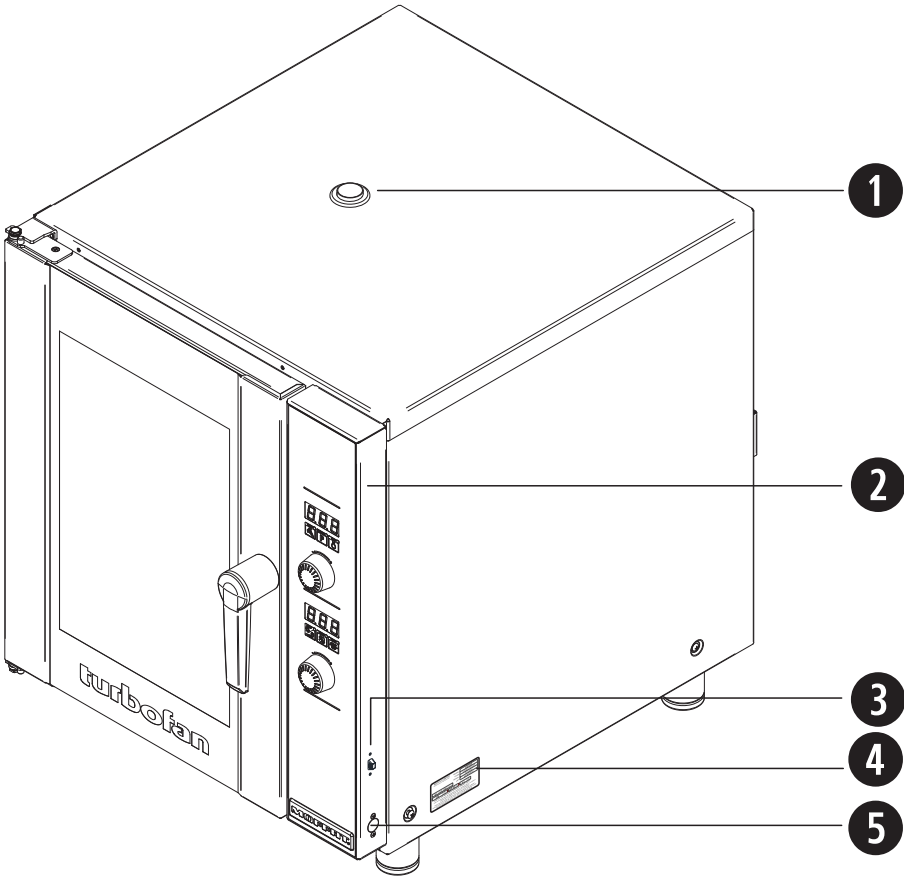


# SPECIFICATIONS

## Product information

	E33D5
Capacity	5 shelves
Tray capacity	1/1 GN pan capacity
Tray spacing	85 mm (3 1⁄3 inches)
Net Weight	56.2 kg

## Overview



- 1

Vent
- 3

USB port
- 5

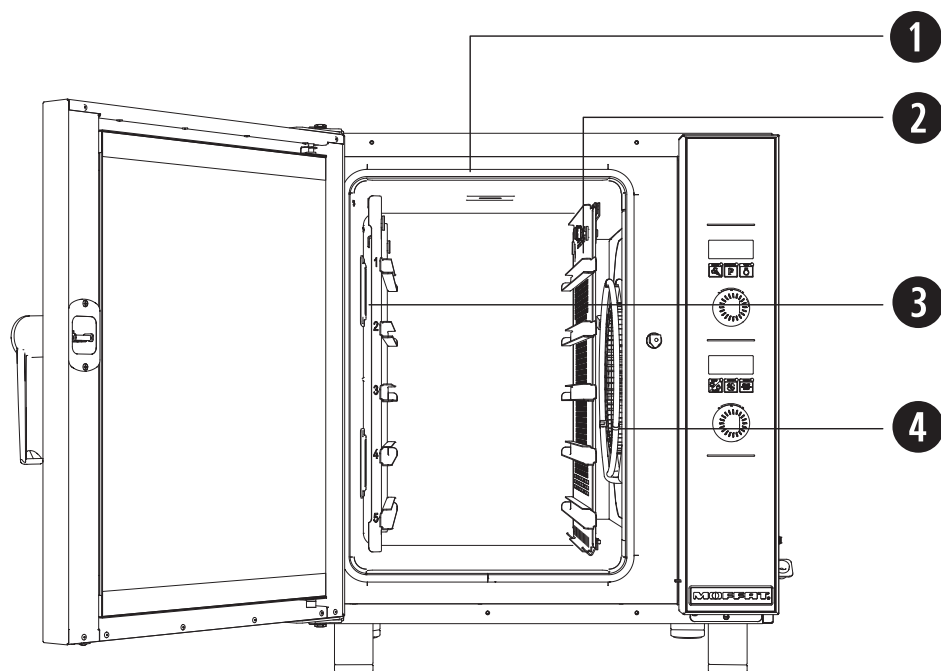
Core temperature probe port

- 2

Controller
- 4

Rating plate


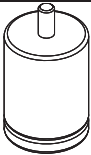
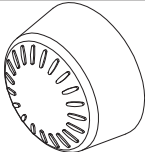
## Inside your oven



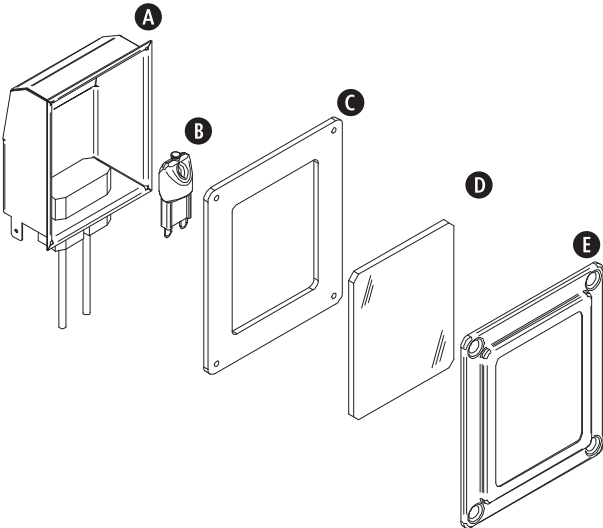
- 1 Door seal
- 3 Lamp

- 2 Rack
- 4 Heating element

Replacement parts

	Part No.	Description
	235615	Door Seal
	232379	Adjustable Leg 3 inches (76 mm)
	232380	Foot O-ring for Adjustable Leg
	243261	Rotary Control Knob

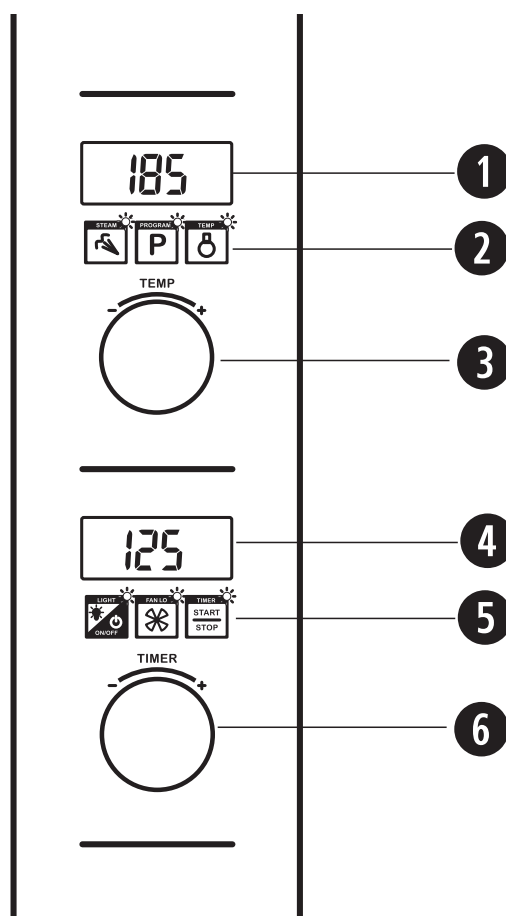
Lamp














	Part No.	Description
A	236214	Lamp Holder (bulb Included)
B	231814	Lamp G9/25 W 230 V Halogen
C	242092	Gasket
D	021352	Glass Lens
E	021353	Support Frame


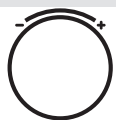




# OPERATION

## Using the controls



		Description	Range	Functions
1	185	Upper display	Varies with function	<p>The display shows the following information:</p> <ul style="list-style-type: none"> <li>The pre-set chamber temperature.</li> <li>Press the  TEMP button to show the actual oven temperature for 5 seconds.</li> <li>Program information (program mode).</li> <li>Error codes.</li> <li>The set core probe temperature, when a core temperature probe is connected.</li> <li>The display alternates between  P and the set core probe temperature.</li> </ul>
2		Steam button	H-0-H-5 (default)  - or -  5-0-5-9	<p>Cook with steam in the oven chamber. See <a href="#">Cooking modes on page 11</a>.</p> <ul style="list-style-type: none"> <li>Set the steam level. See <a href="#">Steam modes on page 11</a> <ul style="list-style-type: none"> <li>Press and hold the  STEAM button for 3 seconds until H-0 (or 5-0) appears in the upper display.</li> <li>Rotate the  TEMP knob to set the steam level from H-0 to H-5 (or 5-0 to 5-9).</li> <li>Press the  STEAM button to confirm the steam level setting.</li> </ul> </li> </ul>

	Description	Range	Functions
			<ul style="list-style-type: none"><li>☑ The button's red indicator light glows when the function is active.</li></ul> 
	Program button	PD 1-P20	<ul style="list-style-type: none"><li>👉 Use the oven in Program mode. See <a href="#">Cooking in Program mode on page 16</a></li><li>👉 Select cooking programs and set program parameters in program configuration mode. See <a href="#">Configuring programs on page 19</a></li><li>☑ The button's red indicator light glows when the function is active.</li></ul> 
	Temperature button	N/A	<ul style="list-style-type: none"><li>👉 Display the actual oven temperature for 5 seconds on the upper display.</li><li>☑ The button's red indicator light glows when the oven is heating.</li><li>☑ The button's red indicator light flashes when the upper display shows the actual temperature.</li><li>☑ In core temperature mode, the actual oven temperature is displayed in the upper display and the actual core probe temperature is displayed in the lower display.</li></ul>
	Temperature knob	50-250(°C) 150-550(°F)	<p>Rotate this knob to do the following:</p> <ul style="list-style-type: none"><li>👉 Select the temperature required (Manual mode).</li><li>👉 Select the program (Program mode).</li><li>🕒 View the program stage (Program mode).</li><li>👉 Press the  PROGRAM button while cooking in Program mode and rotate the  TEMP knob in either direction.</li></ul>
	Lower display	Varies with function	<p>This display shows the following information.</p> <ul style="list-style-type: none"><li>🕒 The cook time in minutes until the timer reaches the last 10 minutes, after which it displays minutes and seconds for the final 10 minutes.</li><li>🕒 In core temperature mode, the display alternates between  P and the set core probe temperature.</li></ul>
	Power button	N/A	<p>When the oven is turned off, press this button once to turn the oven on.</p> <ul style="list-style-type: none"><li>☑ The button's red indicator light glows when the oven is either being used or in standby mode.</li></ul> <p>When the oven is turned on:</p> <ul style="list-style-type: none"><li>● Press this button to switch the oven lamp on or off.</li><li>💡 To extend the life of the bulb, set the controller parameters to switch the lamp off after a set duration. By default, this time-out is 0 and the lamp is illuminated until you press the  LIGHT button again. See <a href="#">Controller settings on page 24</a>.</li><li>● Press and hold this button for 1.5 seconds to put the oven into standby mode.</li></ul>

	Description	Range	Functions
	Fan Speed button	Fan Lo	<ul style="list-style-type: none"> <li>Press this button to switch the fan speed from high to low.</li> <li>By default, the oven's fan speed is set to high.</li> <li>The button's red indicator light glows when the fan speed is low.</li> <li>Low fan speed results in slower cooking. Use the low fan speed to cook delicate products like cakes and muffins.</li> </ul>
	Timer button	N/A	<ul style="list-style-type: none"> <li>Start the timer (Manual mode). <ul style="list-style-type: none"> <li>The button's indicator light glows steadily when the timer is running.</li> <li>The button's indicator light flashes when the timer is paused.</li> </ul> </li> <li>Reset the timer (Manual mode).</li> <li>Cancel the alarm (all modes).</li> <li>Start the program (Program mode).</li> <li>Cancel and reset the program (Program mode).</li> <li>Start core temperature cooking (Core Temperature mode).</li> </ul>
<p>6</p> 	Timer knob	CP INF 00 1-180 (minutes)	<p>Rotate this knob to do the following:</p> <ul style="list-style-type: none"> <li>Set the timer. See <a href="#">Timer settings on the facing page</a></li> <li>In Program mode, press  PROGRAM and rotate the  TIMER knob in either direction to view the total time remaining in the program stage or the core probe set temperature (when a core temperature probe stage is programmed).</li> <li>When using a core temperature probe, set the core probe temperature. <ul style="list-style-type: none"> <li>In Manual mode, connect the core temperature probe and use the  TIMER knob to set the core probe set temperature.</li> <li>In program configuration mode, use the  TIMER knob to set the core probe set temperature for the program or program stage. See <a href="#">Configuring programs on page 19</a></li> </ul> </li> </ul>

## Operation modes

Mode	Description	Supported cooking modes
Manual	Adjust all aspects of the cooking process. See <a href="#">Cooking in Manual mode on page 14</a> . 💡 Use Manual mode to cook products that you would only cook occasionally.	<ul style="list-style-type: none"> <li>• Convection</li> <li>• Steam</li> <li>• Bake-Steam</li> <li>• Core temperature probe</li> </ul>
Program	Cook to pre-set programs. See <a href="#">Cooking in Program mode on page 16</a> . 💡 Use Program mode to cook one or more similar products automatically, according to programmed cooking settings. 💡 Use Program mode to cook products that are cooked in one or more stages.	<ul style="list-style-type: none"> <li>• Convection</li> <li>• Steam</li> <li>• Bake-Steam</li> <li>• Core temperature probe (when programmed in a stage)</li> </ul>

## Cooking modes

Mode	Description
Convection	Cook products in a convection baking system. 💡 Use Convection mode for roasting and browning products.
Moisture	Cook products in a convection baking system while periodically injecting small amounts of steam into the oven while cooking. 💡 Use Moisture mode to prevent meats and pastries from drying out while cooking.
Bake-Steam	Cook products in a convection baking system after injecting a single pulse of steam into the oven at the beginning of a cooking cycle. 💡 Use Bake-Steam mode to add moisture to the surface of products before cooking, for example, breads.
Core temperature probe	Cook products in Convection or steam injection modes more accurately using a core temperature probe.


## Steam modes

In Bake-Steam mode or Moisture mode, you can control the steam injection into the chamber by setting the steam level.

☑ Moisture mode is enabled by default.

💡 Configure the oven parameters to enable Bake-Steam instead or completely disable the injection of steam into the oven. See [Controller settings on page 24](#).

## Moisture mode levels

Level	Description	Available in
H-0	Automatic steam injection is not active. Press the Steam button  to manually inject one shot of steam into the oven.	Manual mode Program mode
H-1-H-5	💡 Automatically inject 1 to 5 pulses of steam per steam cycle into the oven chamber. ☑ By default, the duration of a steam pulse is 1 second and cycles every 2 minutes.	Manual mode* Program mode

\* Can be activated only when you set a timer or connect a core temperature probe.

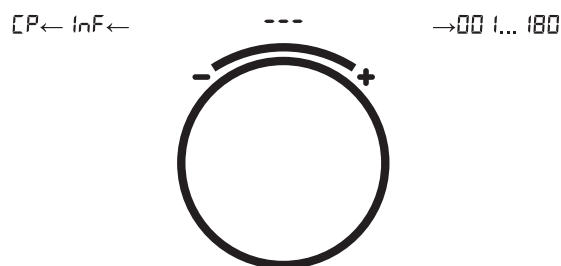
## Bake-Steam mode levels

Level	Description	Available in
SE0	Automatic steam injection is not active in program mode and you cannot manually inject steam into the oven.	Manual mode Program mode
SE1-SE9	💡 Manually inject a pulse of steam for 1 to 9 seconds into the oven chamber while cooking. 💡 In Program mode, automatically inject a pulse of steam for 1 to 9 seconds into the oven chamber at the beginning of the program.	Manual mode Program mode

## Timer settings

Rotate the  TIMER knob to the left or right to set the timer options. The lower display shows your selection.





Turn the  TIMER knob in either direction to cycle through the range of timer options in sequence.

Setting	Manual mode function	Program mode function
---	The timer is not set.	The program (or program stage) is turned off.
CP	Indicates that the core temperature probe is connected to the oven.  The cooking cycle runs at the oven temperature, steam, and fan speed settings until the actual core temperature reaches the pre-set core probe temperature value.	Indicates that the program (or program stage) is configured for core temperature probe cooking.  The program (or program stage) runs at the oven temperature, steam, and fan speed settings until the actual core temperature reaches the pre-set core probe temperature value.  <input checked="" type="checkbox"/> When the core temperature probe is not connected while running a program that requires a core temperature probe, CP flashes in the lower display, an alarm sounds, and the program pauses until the probe is connected.
InF	The cooking timer runs continuously, up to 999 minutes.	The program (or program stage) runs continuously, up to 999 minutes.  <input checked="" type="checkbox"/> The InF timer option can only be set for the final stage of a program. If you set this option for an intermediate stage, the stages that follow it are not available for configuration.
00 1- 180	The cooking timer runs for this set value (in minutes)	The program (or program stage) runs for this set value (in minutes).

## General operation

### ⚠ CAUTION

Risk of burns. Parts of this oven will become very hot during operation and may cause burns if touched.


### ⚠ CAUTION

Risk of burns. Always open the oven door with caution when the oven is hot and allow the hot air and steam to escape before handling items inside the oven.

## Switching on the oven

### Standby mode

When the mains supply to the oven is switched on, the oven is in standby mode as follows:

- Both displays are blank.
- The  LIGHT button's indicator light glows.





- When the oven is in operating, press and hold the  ON/OFF button for 1.5 seconds to put the oven in Standby mode.


### Operation mode

- Press the  ON/OFF button to start operating the oven.

When you switch on the oven, the controller defaults to the following settings:

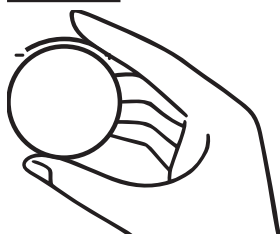
- The oven temperature is set to 150 °C (325 °F).
  - The start-up temperature is set in the oven parameters. See [Controller settings on page 24](#).
- The oven timer is not set and the lower display shows ---.
- The steam level is set to H- (or 5-). See [Steam modes on page 11](#).
- The fan speed is set to high.


## Cooking in Manual mode

- Rotate the  TEMP knob to set the oven temperature between 60 °C-260 °C (140 °F-500 °F).



The display shows the temperature reading.

125




- The  TEMP button's red indicator light glows when the oven is heating.



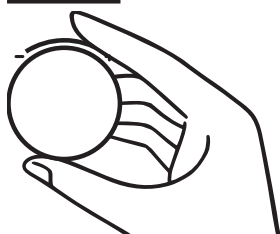
- Heating pauses when you open the oven door.
- When the  TEMP button's red indicator light stops glowing, the oven is ready for use.
- Press the  TEMP button during cooking to view the actual oven temperature.


## Manual mode adjustments and controls

### Set a timer




- You can use the oven without setting a timer.
- Rotate the  TIMER knob to set the timer. See [Timer settings on page 11](#).

180




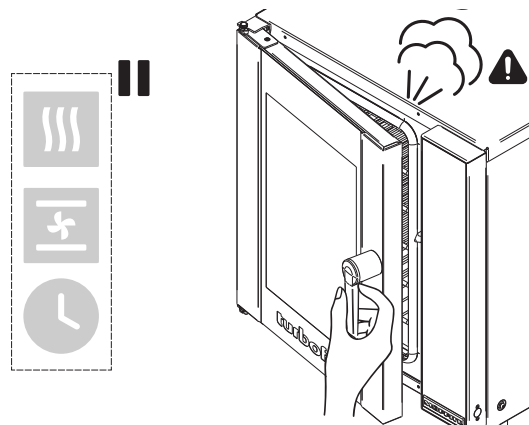
- The  TIMER button's red indicator light glows when the timer is running.



- Press the  TIMER button to start the timer.
- Press and hold the  TIMER button for 3 seconds to cancel the timer.
- The  TIMER button's red indicator light is off when the timer is cancelled.

When the timer completes, an alarm sounds and the display flashes.

- Press the  TIMER button to cancel the alarm. The oven continues cooking at the set temperature.
- Open the oven door to stop cooking.
- Open the oven door to cancel the alarm, turn off the fan, and stop the oven heating. Close the oven door again to resume cooking at the oven set temperature.





### CAUTION

Risk of burns. Always open the oven door with caution when the oven is hot and allow the hot air and steam to escape before handling items inside the oven.


- The oven continues heating while the oven door is closed.

### Set the fan speed



- Press the  FAN LO button to change the fan speed to low.
- The  FAN LO button's red indicator light glows when the fan speed is low.





## Use steam while cooking


- Press the  STEAM button to inject steam into the oven chamber while cooking. See [Steam modes on page 11](#).
- If the oven temperature is below 100 °C (212 °F), water may pool in oven chamber as the temperature is too low to create steam.

To adjust the amount of steam injected into the oven chamber:



- Press and hold the  STEAM button for 3 seconds and then rotate the  TEMP knob to adjust the steam injection setting.

 → 

## Bake-Steam mode

If Bake-Steam mode is enabled, different steam injection settings are available when you press the  STEAM button. See [Steam modes on page 11](#).


To adjust the amount of steam injected into the oven chamber:


- Press and hold the  STEAM button for 3 seconds and then rotate the  TEMP knob to adjust the steam injection setting.

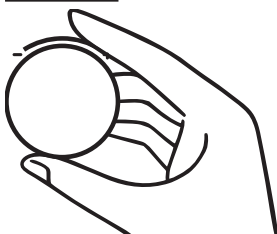
 → 



- Steam injection is disabled when the steam injection setting is 5L0.


## Manual mode with the core temperature probe

- Connect the core temperature probe to the oven. See [Cooking with the core temperature probe on page 22](#).
- Rotate the  TIMER knob to set the core probe temperature between 50 °C-90 °C (122 °F-194 °F).







- The display shows the temperature reading.
- Press the  TIMER button to start cooking in core temperature mode.
- The lower display alternates between  P and the core probe set temperature.

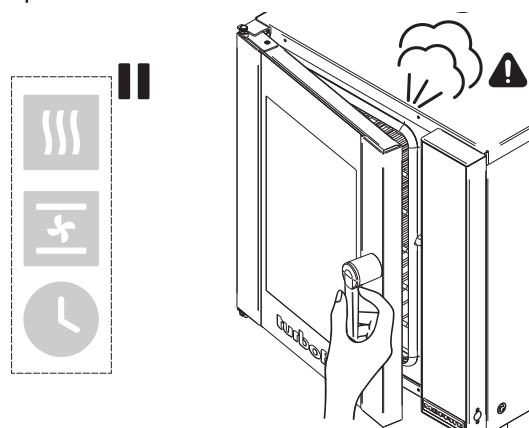
- The  TIMER button's red indicator light glows when the oven is in core temperature mode.



- In core temperature mode, press the  TEMP button to view the actual core probe temperature on the lower display.

Cooking completes when the product reaches the core probe set temperature. When cooking completes, an alarm sounds and the lower display flashes.

- Press the  TIMER button to cancel the alarm. The oven continues cooking at the set temperature.
- Open the oven door to stop cooking.
- Open the oven door to cancel the alarm, turn off the fan, and stop oven heating. Close the oven door again to resume cooking at the oven set temperature.



### CAUTION



Risk of burns. Always open the oven door with caution when the oven is hot and allow the hot air and steam to escape before handling items inside the oven.

- The oven continues heating while the oven door is closed.

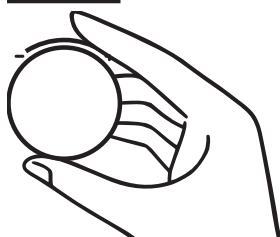
## Cooking in Program mode

Your oven can store 20 programs, with up to 3 stages each. See [Configuring programs on page 19](#).

☑ Your oven is not pre-programmed at delivery.

- 👉 Press the  PROGRAM button to use Program mode.
- 🕒 The upper display shows the program number (for example, P01).
- 👉 Rotate the  TEMP knob to select the required program.

P01

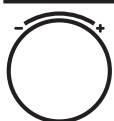




- 🕒 The lower display shows P r H while the oven is preheating.
- ☑ You cannot start the program while the oven is preheating.
- ☑ The lower display shows r d Y when the oven has finished preheating and is ready for use.

P r H

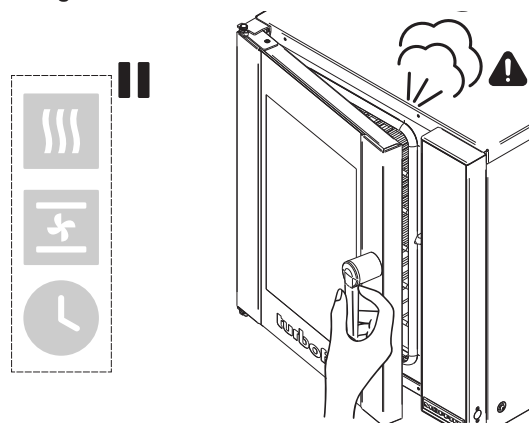
→



r d Y

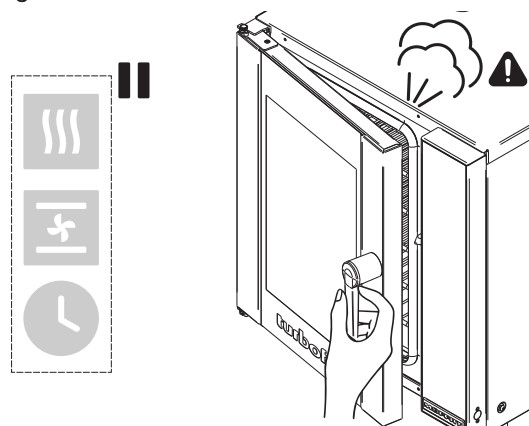


- 👉 When preheating completes, place the product into the oven and close the oven door.
- 👉 Press the  TIMER button to start the program.
- When the program completes, an alarm sounds.
  - 👉 Press the  TIMER button to stop the alarm and continue cooking.

- 👉 Open the oven door to stop the alarm. Close the door and press the  TIMER button to continue cooking.



- If the End of Stage Alarm is enabled for the program stage, an alarm sounds when the stage completes. See [Configuring programs on page 19](#).
- 👉 Press the  TIMER button to stop the alarm, resume cooking, and continue to the next cooking stage.
- 👉 Open the oven door to stop the alarm. Close the door and press the  TIMER button to continue cooking or to continue on to the next cooking stage.



## Program mode with core temperature probe


If a program or program stage requires a core temperature probe, connect the core temperature probe to the oven before starting the program. See [Cooking with the core temperature probe on page 22](#).

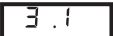
## Program mode adjustments and controls

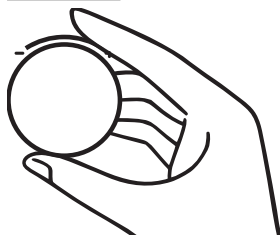
While a program is running you can view additional information and make adjustments to the settings.


- Adjustments are not saved to the program and are applied to the current stage only. Any following stages run according to the program settings.

### View the current program information


- Press the  PROGRAM button or rotate the  TIMER knob in either direction.



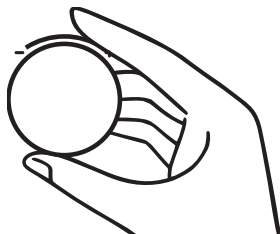


- The upper display shows the program number and program stage (for example, 3 . 1) for 5 seconds.
- The lower display shows either of the following for 5 seconds:
  - The total time remaining in the program stage.
  - The elapsed time of the stage, if the stage is programmed *inF*.
  - The core probe set temperature, if the stage is programmed for core temperature probe cooking.
  - Alternates between  and the core probe set temperature, if the stage is a core temperature probe stage.


### View the Set Temperature

- Rotate the  TEMP knob in either direction to view the Set Temperature of the current stage. The upper display shows the set temperature for 5 seconds before returning to the previous view.







### View the actual temperature

- Press the  TEMP button during cooking.
- The oven set temperature appears on the upper display for 2 seconds before the display returns

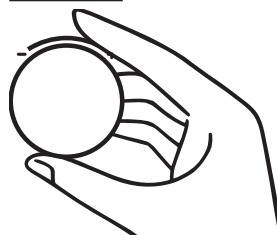
to the actual temperature.

- If the stage is programmed for core temperature probe cooking, the actual core probe temperature appears on the lower display for 4 seconds before the display returns to the program number.

### Adjust the program time remaining

- Rotate the  TIMER knob quickly in either direction to put the controller into timer edit mode.
- Rotate the  TIMER knob to add additional time to the timer.







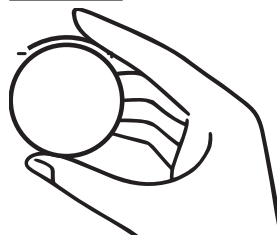
- Adjust the time remaining between 0-180 minutes.

The controller updates the time remaining and exits the editing mode after 3 seconds.

### Adjust the core probe set temperature (if the program requires a core temperature probe)

- Ensure that the core temperature probe is connected to the oven
- Rotate the  TIMER knob quickly in either direction to put the controller into temperature edit mode.
- Rotate the  TIMER knob to adjust the core probe set temperature.







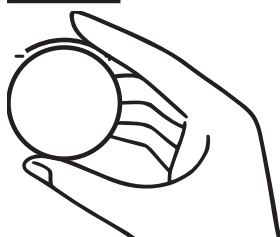
- Adjust the core probe set temperature between 50 °C-90 °C (122 °F-194 °F)

The controller updates the core probe set temperature and exits the editing mode after 3 seconds.



## Adjust the set temperature

- Rotate the  TEMP knob quickly in either direction to put the controller into temperature edit mode
- Rotate the  TEMP knob to adjust the set temperature. The controller updates the temperature and exits the editing mode after a 3 seconds.

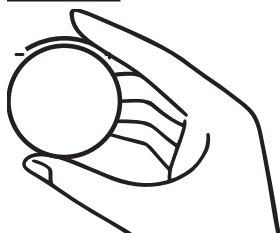
100



## Add additional time to a program while the end of stage alarm is sounding



- ☑ You can only add additional time to a program or program stage when an end of stage alarm is programmed. See [Configuring programs on the facing page](#).
- Rotate the  TIMER knob quickly in either direction to put the controller into temperature edit mode.
- Rotate the  TIMER knob to add additional time to the timer.

90





- Adjust the time remaining between 0-180 minutes.

The controller updates the time remaining and exits the editing mode after 3 seconds.





- Press the  TIMER button to resume the stage with additional time added.
- ☑ When the additional time has run out, the end of stage alarm will sound for a second time. Either press the  TIMER button to continue to the next stage, or let the program automatically progress on to the next stage after 1 minute of inactivity.

## Change the fan speed

- Press the  FAN LO button to change the programmed fan speed.
- ☑ The  FAN LO button's red indicator light glows when the fan speed is set to low.




## Change the steam settings

- Press the  STEAM button to disable steam injection for programs with steam enabled.
  - Press the  STEAM button to enable steam injection for programs with steam disabled.
- To adjust the amount of steam injected into the oven chamber:
- Press and hold the  STEAM button for 3 seconds and then rotate the  TEMP knob to adjust the steam injection setting.



H-0 → H-5

## Bake-Steam mode

In Bake-Steam mode You can inject additional steam into the oven chamber while the program is running.

- Press the  STEAM button to inject steam into the oven chamber while cooking. See [Steam modes on page 11](#).

To adjust the amount of steam injected into the oven chamber:

- Press and hold the  STEAM button for 3 seconds and then rotate the  TEMP knob to adjust the steam injection setting.

SE1 → SE9

- ☑ Steam injection is disabled when the steam injection setting is SE0.



## Configuring programs


☑ Your oven is not pre-programmed at delivery.

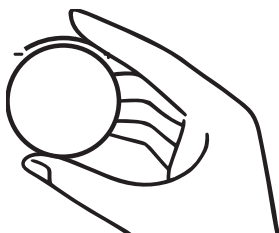
Configure each program required as follows:


1. Press the  PROGRAM button to access Program mode.


- ⦿ The upper display shows the program number selected (for example, P01).
- ⦿ When the program stage is not configured, the lower display shows ---.



2. Rotate the  TEMP knob to select the required program.



3. Press and hold the  PROGRAM button until you hear a beep, indicating that the controller is in program configuration mode.

- ⦿ The upper display shows the program number and stage (for example, 3 . 1).
- ☑ The  PROGRAM button's indicator light flashes while the controller is in program configuration mode.

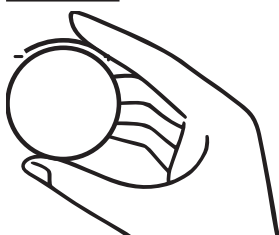



- ☑ The controller exits program configuration mode after 30 seconds of inactivity.


4. Select a program stage to configure.

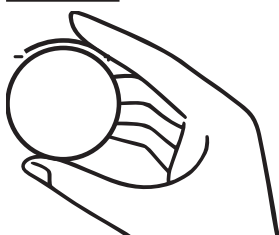
- ☑ Stage programming is only available when Multi-Stage programming is enabled. See [Controller settings on page 24](#).

- a. Rotate the  TEMP knob to select the program stage.



- ☑ When you rotate the  TEMP knob, the upper display shows all the active stages and the first inactive stage.

- b. Rotate the  TIMER knob to enable or disable a program stage.



- ⦿ The lower display shows **On** when the program stage is enabled and **OFF** when the program stage is disabled.
- 💡 Alternatively, press the **PROGRAM** button to enable the program stage.
- 💡 Setting parameters for a stage changes its state from **OFF** to **On** (that is, the stage is enabled).
- 🔍 When you edit a program for the first time, only the first stage is available for configuration and it is **OFF** by default.

5. Configure the program parameters. See [Program parameters below](#).

6. Press and hold the **PROGRAM** button for 3 seconds until you hear a beep, indicating that the controller has exited Program mode.

## Program parameters

The following program parameters are configured in sequence below.

- 💡 Press the Program button **PROGRAM** to save the each parameter configuration.

Parameter	Configuration procedure
<div>125</div> Oven Temperature	<ul style="list-style-type: none"> <li>🔍 Ensure that the upper display is flashing before proceeding.</li> <li>💡 Rotate the <b>TEMP</b> knob to select the required temperature in the upper display.</li> <li>💡 Press the <b>PROGRAM</b> button to confirm the setting.</li> </ul>
<div>60</div> Cook Time Core Temperature Probe	<ul style="list-style-type: none"> <li>🔍 Ensure that the lower display is flashing before proceeding.</li> <li>💡 Rotate the <b>TIMER</b> knob to set a cooking time. See <a href="#">Timer settings on page 11</a> for more information.</li> <li>💡 Rotate the <b>TIMER</b> knob to set a cooking time or <b>CP</b> to use a core probe in the stage. See <a href="#">Timer settings on page 11</a>. <ul style="list-style-type: none"> <li>▪ If you select <b>CP</b> to use a core probe in the stage, set the core probe temperature required as follows: <ul style="list-style-type: none"> <li>💡 Rotate the <b>TIMER</b> knob to set the core temperature in the lower display.</li> </ul> </li> </ul> </li> <li>💡 Press the <b>PROGRAM</b> button to confirm the setting.</li> </ul>
<div>H-1</div> or <div>5L1</div> Steam level	<ul style="list-style-type: none"> <li>🔍 Ensure that the upper display is flashing before proceeding.</li> <li>💡 Rotate the <b>TEMP</b> knob to select the required steam level in the upper display. See <a href="#">Steam modes on page 11</a>.</li> <li>💡 Press the <b>PROGRAM</b> button to confirm the setting.</li> <li>🔍 Steam injection is disabled when the steam level is set to <b>H-1</b> or <b>5L1</b>.</li> </ul>
<div>H1</div> Fan speed	<ul style="list-style-type: none"> <li>🔍 Ensure that the upper display shows <b>FRn</b> and the lower display is flashing before proceeding.</li> <li>💡 Rotate the <b>TIMER</b> knob to select the required fan option in the lower display.</li> <li>💡 Press the <b>PROGRAM</b> button to confirm the setting.</li> <li>🔍 If Multi-Stage programming is disabled, the controller exits the Program mode when you press the <b>PROGRAM</b> button to confirm the fan speed setting.</li> </ul>
<div>HLr</div> End of stage alarm	<ul style="list-style-type: none"> <li>🔍 Ensure that the upper display is flashing before proceeding.</li> <li>💡 Rotate the <b>TIMER</b> knob to select the required alarm state in the lower display. <ul style="list-style-type: none"> <li>▪ <b>On</b> - The alarm sounds at completion of the cooking stage, the program is paused awaiting user action. Without any input, the program will automatically resume after 1 minute.</li> <li>▪ <b>OFF</b> - The oven continues on to the next cooking stage without sounding an alarm.</li> </ul> </li> <li>🔍 Regardless of the setting applied to the last stage of the program, a Cook Time Completed Alarm will sound to indicate the end of the program.</li> <li>💡 Press the <b>PROGRAM</b> button to confirm the setting.</li> </ul>

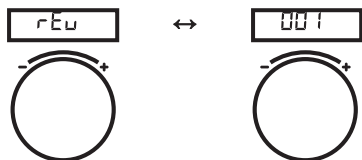
## Revisioning programs

The set of programs stored in the controller is tagged with a revision number, which enables you to keep track of changes and updates to the set of programs on the controller or USB drive. See [Exporting or importing configuration files on page 25](#).

To view the revision number of the current program set on the controller:

1. Access the controller configuration. See [Controller settings on page 24](#).
2. Rotate the ○ TIMER knob until  $P\text{-}E\text{-}$  appears on the upper display.

The lower display alternate between  $r\text{-}E\text{-}$  and the revision number (for example, 001).



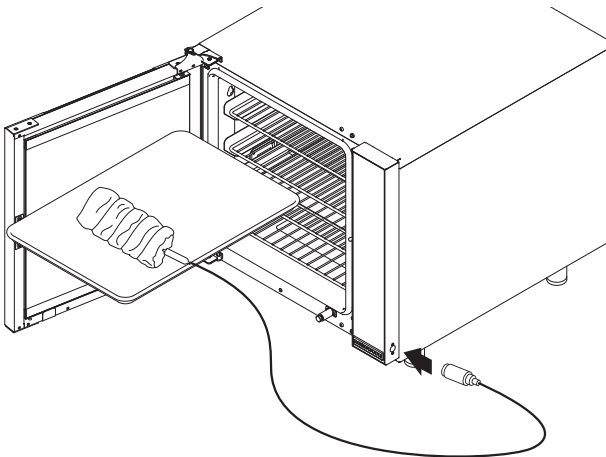
3. To change the revision number, rotate the ○ TIMER knob.

## Cooking with the core temperature probe

An optional core temperature probe kit is available for this oven. See the Installation manual for more information. The core temperature probe provides greater precision while cooking. Core temperature probe cooking is ideal for large items of food and has the following advantages.

- Improves control over the cooking process, eliminating the risk of loss and waste.
- Accurately cooks food, irrespective of the quality or quantity being cooked.
- Saves time because cooking control is automatic.
- Guarantees strict hygiene because, with precision monitoring of the core temperature, there is no need for food to be handled, poked, or pierced.

Connect the core temperature probe to the core temperature probe port on the side of the oven and insert it into the product on the shelf.

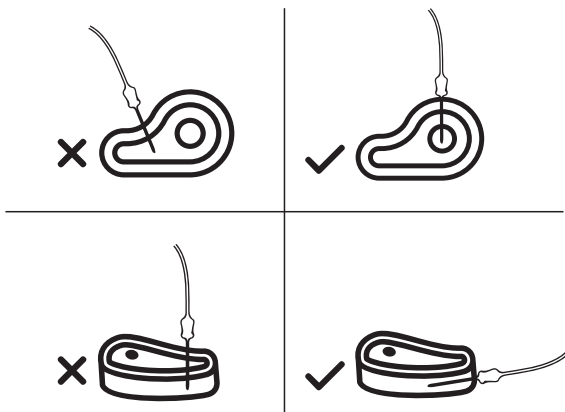


When you connect the core temperature probe:

- The lower display shows  $\square P$ .
- The  $\bigcirc$  TIMER knob is used to set the core probe temperature.
- The core probe temperature is shown in the lower display.
- Cooking completes when the core temperature probe reaches the set core probe temperature.

To disable core probe cooking, unplug the core temperature probe.






## Best practices for core probe cooking



- Position the core temperature probe in the very centre of the food.
  - ☑ Always insert the core temperature probe from the top downwards and into the centre of the food to be cooked.
- For products of thickness less than twice the probe length, insert the core temperature probe horizontal to the table top so that the tip of the core temperature probe reaches the middle of the food.
- Place food in the centre of the oven.






## Controller settings

To access the controller configuration:


1. Ensure that the oven is in Standby mode.
2. Press and hold the  STEAM and  TIMER buttons until the upper display shows *PR5* and the lower display flashes *000*.
3. Rotate the  TIMER knob to enter the 3-digit password into the lower display.  
 The default operator password is 123.
4. Press the  FAN LO button to confirm the password.


## Changing the controller parameters

In the controller configuration, the upper display shows the current parameter (for example, *PrH*) and the lower display shows the value of the parameter (for example, *185*).

1. Rotate the  TIMER knob to select the setting parameter. See [Controller parameters below](#).
2. Press the  FAN LO button to confirm the setting that you want to edit. The lower display flashes the current value of the parameter.
3. While the lower display flashes, rotate the  TIMER knob to select the new value required.
4. Press the  FAN LO button to confirm the new value for the parameter.  
 The lower display stops flashing when the setting is confirmed with the new value.

## Controller parameters

The controller parameters are configured sequentially as shown below. Rotate the  TIMER knob to scroll through the parameters.

	Description	Min	Max	Default	Units
<i>PrH</i>	Default preheat temperature. The temperature that the oven heats to when it starts up.	60 (140)	260 (500)	150 (302)	°C (°F)
<i>L-L</i>	The duration for which the oven light is on. For example, <ul style="list-style-type: none"> <li>• when set to 0, the oven light stays on until it is switched off.</li> <li>• when set to 1, the oven light switches off after 1 minute after it is switched on.</li> </ul>	0	60	2	Minutes
<i>ESL</i>	Enable steam injection <ul style="list-style-type: none"> <li>• 0: No steam</li> <li>• 1: Bake-Steam mode</li> <li>• 2: Moisture mode</li> </ul>	0	2	2	-
<i>uol</i>	Buzzer Volume	0	10	5	-
<i>PrE</i>	Program Preheating Offset The temperature above the Set Temperature that the oven heats to, so as to allow for heat losses when the door is opened or when cold product is loaded.  The Oven Set Temperature reverts to the Set Temperature when the program is started.	0	30	0	°C (°F)
<i>SEU</i>	Multi-Stage Cooking Enables or disables multi-stage cooking. Set this to No to simplify programming and program cooking.	No	Yes	Yes	-

Exporting or importing configuration files

Export the controller configuration files to a USB drive to create a backup or to apply the settings to another oven.

You can export or import the following configuration files to a USB drive that is connected to the controller.

- The set of programs used in Program operation mode.
- The set of parameters that configure the controller.

The controller automatically recognises the following configuration files.

File name	Format	Description
MPGR000.csv ⋮ MPGR999.csv	CSV	The file containing the set of programs for the current (or set) revision number (000-999). See <a href="#">Revisoning programs on page 21</a> .
PARAM.csv	CSV	The file containing the set of parameters.

Export procedure

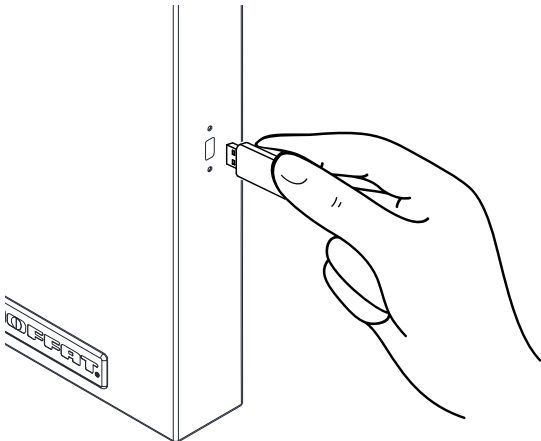
Regardless whether you export programs or parameters, the controller saves both these files to the USB drive during the export process. If files with the same name are present on the USB drive, they are overwritten.

If the files present on the USB are read-only, *Err* or *Err* appears in the upper display. See [Error codes on page 33](#).

1. Ensure that the oven is switched on and in Standby mode.
2. Insert a USB drive into the USB port.
  - When the controller detects that the USB drive is connected, the upper display shows *USB* and the lower display shows *Err*.

USB

Err



3. Press the TIMER button.  
The lower display alternates between *rev* and the revision number of the program set (for example, *001*).
- rev

↔

001
- The lower display shows the revision number of the current program set on the controller. See [Revisoning programs on page 21](#)
  4. If you are exporting the programs set, rotate the TIMER knob to select the revision number of the program set that is saved to the USB drive.
    - It is recommended that a backup copy of the configuration files is kept in a separate storage location and that you set a revision number when exporting the programs set file.
  5. Press the TIMER button to copy the configuration files from the controller to the USB drive.
    - When the controller is copying the program set to the USB drive the lower display shows *copy*.
    - When the controller finishes copying the program set to the USB drive, the lower display shows *done*.
  6. Remove the USB drive from the controller.

Import procedure

Ensure that the USB drive contains valid configuration files that were created by a previous export from the controller (for example, MPGR001.csv or PARAM.csv).

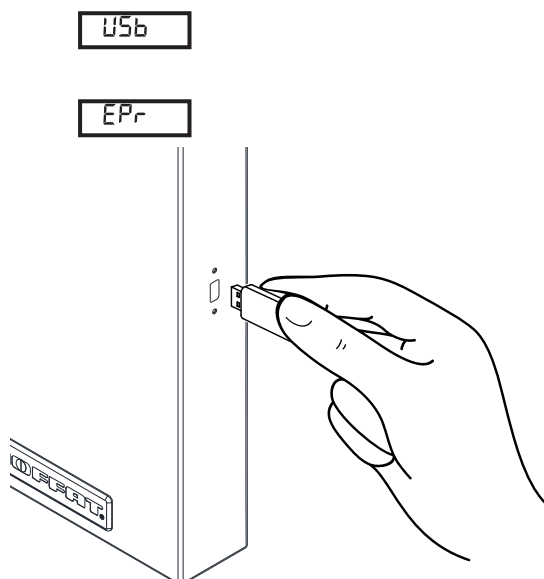



- ☑ The import process overwrites the controller with all the configuration files on the USB drive. Ensure that you only include the required configuration files on the USB drive.

1. Ensure that the oven is switched on and in standby mode.

2. Insert a USB drive into the USB port.

- ☑ When the controller detects that the USB drive is connected, the upper display shows *USB* and the lower display shows *EP<sub>r</sub>*.




3. Rotate the Timer knob  until the display shows *iP<sub>r</sub>*.

*USB*

*iP<sub>r</sub>*

- ☑ *iP<sub>r</sub>* will not show on the display if valid configuration files are not present on the USB drive.

4. Press the  **TIMER** button to copy the configuration files from the controller to USB drive.

- ⌚ When the controller is copying the program set to the USB drive the lower display shows *run*.

- ⌚ When the controller finishes copying the program set to the USB drive, the lower display shows *done*.

5. Remove the USB drive from the controller.

# CARE AND MAINTENANCE

To achieve the best results, clean your oven regularly and thoroughly. If small faults occur, have them attended to promptly. Don't wait until they cause a complete breakdown.

**⚠ WARNING**

Do not use flammable solvents and cleaning aids on or in close proximity to, the oven when the oven is still hot.

**NOTICE**

- This oven is not water proof. Do not use water jet spray or steam cleaner to clean interior or exterior of the oven.
- Carefully read and follow the safety instructions on the label of the cleaning product to be used.
- Do not use cleaning products with an acidic base or those containing chlorine.
- Do not use saline or sulphuric acid preparations to descale the oven.
- Do not use sharp scrapers or harsh abrasive scourers as they could damage the oven.
- Immediately clean alkaline spills (such as salty liquids) or acidic spills (such as lemon juice or vinegar) from cooking surfaces or enamel.
- Ensure that any detergent or cleaning material has been completely removed after each cleaning.

**⚠ CAUTION**

Always turn off the electrical power at the mains supply before cleaning the oven.

## Maintenance schedule

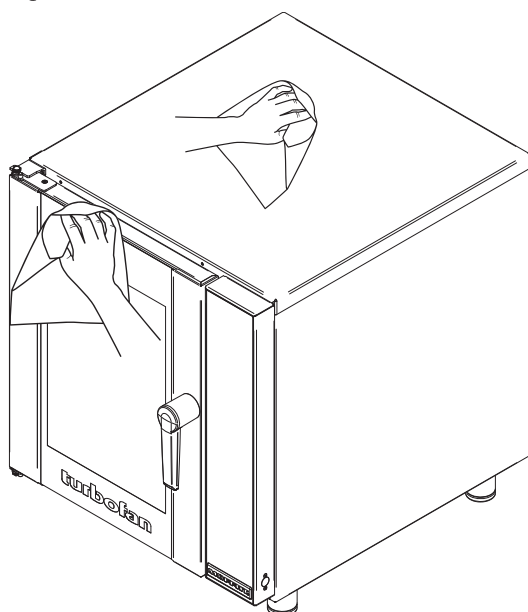
	Daily	Weekly	Periodic
Clean the interior including the door.	✓ <sup>*</sup>	-	-
Clean the stainless steel surfaces.	-	✓	-
Clean the outer body, door seal, and inside of door.	✓ <sup>†</sup>	-	
Check and adjust controls and mechanical parts. ☑ To be conducted by an authorized service technician only.	-	-	Every 6 months
Full product service. ☑ To be conducted by an authorized service technician only.	-	-	Every 6 months

<sup>\*</sup> For a heavy cooking schedule, perform this task after each shift.  
<sup>†</sup> For a heavy cooking schedule, perform this task daily.

## Maintenance tasks

### Cleaning the outer body

Clean the exterior stainless steel surfaces with a soft-bristle brush or a damp cloth moistened with a mild detergent solution.



### Cleaning the chamber

Before cleaning the interior of the oven, remove the side racks and other removable parts.

Allow the oven interior to cool to approx 50 °C (120 °F) before commencing cleaning.

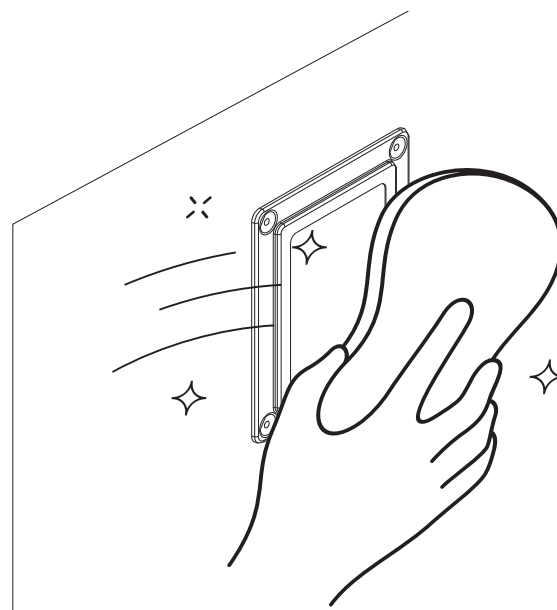
1. Clean any build up of grease from the oven interior, using a soft bristled brush with a solution of hot water and a mild anti bacterial detergent.
2. Clean the oven lamp. See [Cleaning the lamp below](#)
3. Dry the oven thoroughly with a soft dry cloth.

💡 Clean the oven regularly with a good quality oven cleaner.

Once the oven interior is clean and dry, fit the oven racks back into the chamber.

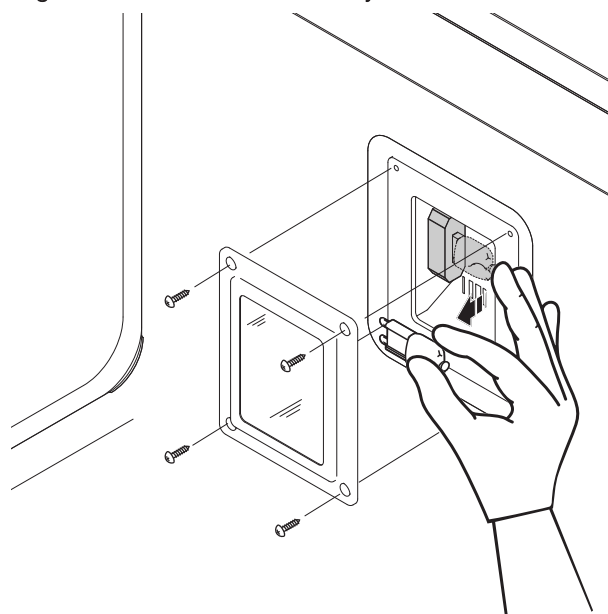
### Cleaning the lamp

1. Wash the glass lens with a soft sponge using warm water and a detergent solution.
2. Rinse with clean, warm water.
3. Dry the glass lens thoroughly with a dry cloth.



### Changing the lamp light

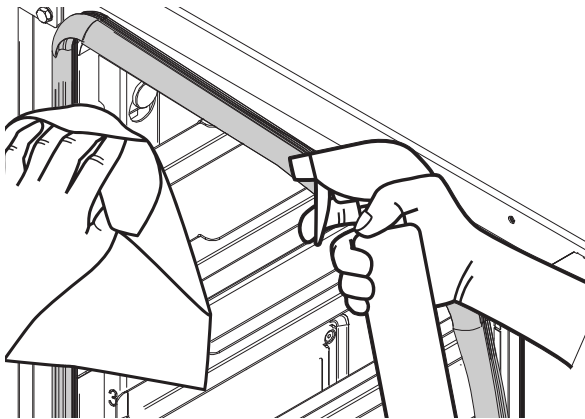
⚠ Oils from your skin may cause the halogen bulb to heat unevenly and reduce its lifespan. Always wear gloves or use a tissue when you handle the bulb.



1. Remove the four screws that secure the lamp plate to the frame.
2. Carefully remove the lamp plate along with the glass lens.
3. Carefully grasp the bulb and pull it straight out of the socket.
4. Insert a new bulb and refit the lamp plate along with the glass lens.

## Cleaning the door seal

1. Clean along and around the door seal using a mild detergent spray.

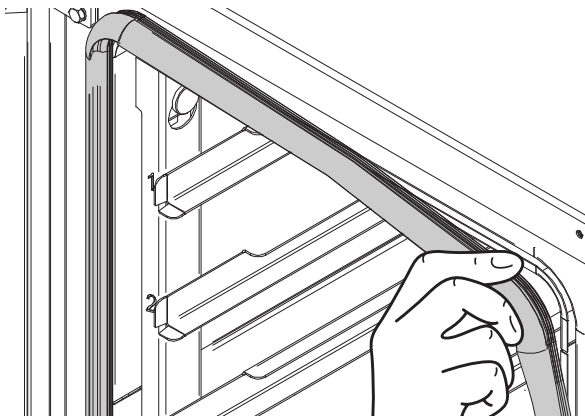


2. Wipe the door seal clean with a damp cloth.

## Replacing the door seal

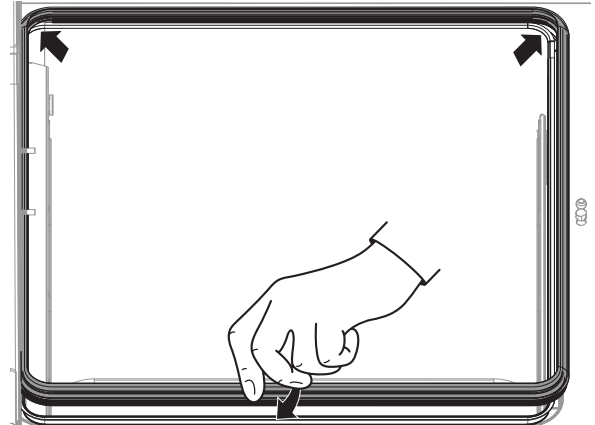
1. To remove the door seal, pull the one-piece seal forward to free the inner lip from the locating groove around the oven.

ⓘ Note the way the seal is fitted to the oven, with the lip facing inwards.



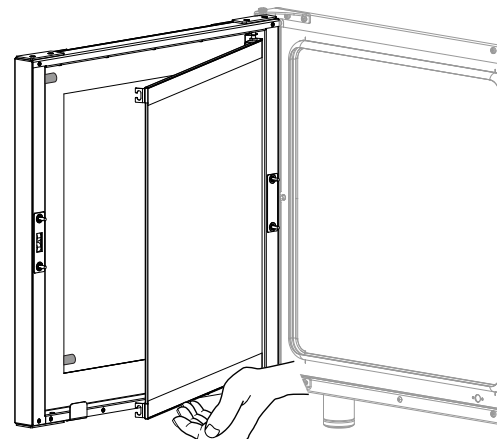
2. Check the door seal for wear and damage and replace it, if required.
3. Fit the door seal with the inner lip facing the oven chamber.

4. Press the door seal into the locating groove in the front face of the oven until the seal is properly located all around the oven.

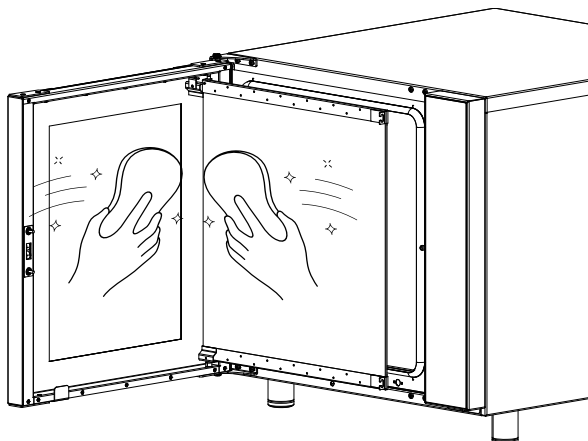


## Cleaning the door

1. Ensure that the oven door is cool before cleaning the oven door glass.
2. Open the oven door.
3. Lift up the bottom of the inner glass at the centre of the door to unlock it from the inner glass retaining catches and swing the glass away from the door.



4. Clean both sides of the inner glass and the inner side of the outer door glass with a conventional glass cleaner.



5. Dry the oven door thoroughly with a soft dry cloth.
6. Swing the inner glass back towards the outer door.
7. While holding the outer door, lift the inner glass back onto the locking catches until the inner glass is securely latched.

## Maintenance (periodic)

### ⚠ WARNING

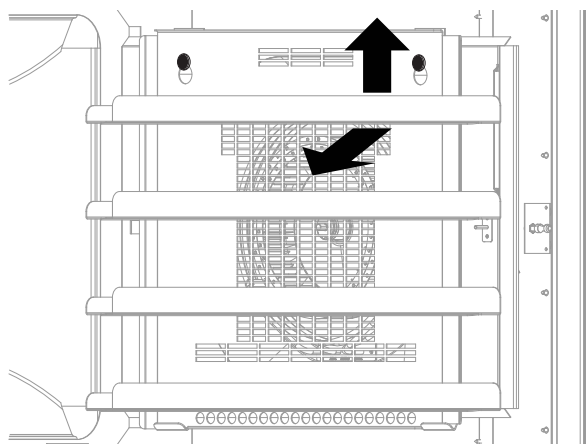
Periodic maintenance of the components of this oven must only be carried out by a service agent or other suitably qualified person.

## Cleaning the fan

Allow the oven interior to cool to approx 50 °C (120 °F) before commencing cleaning.

Remove the fan baffle.

1. Lift up and unhook the right-hand side rack from the locating pegs at the front and rear of the oven.



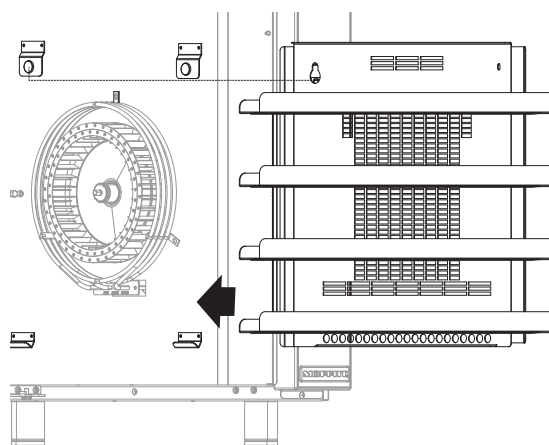
2. Tilt the top of the rack inwards and lift the rack off the lower mounting brackets.

Clean the baffle and fan.

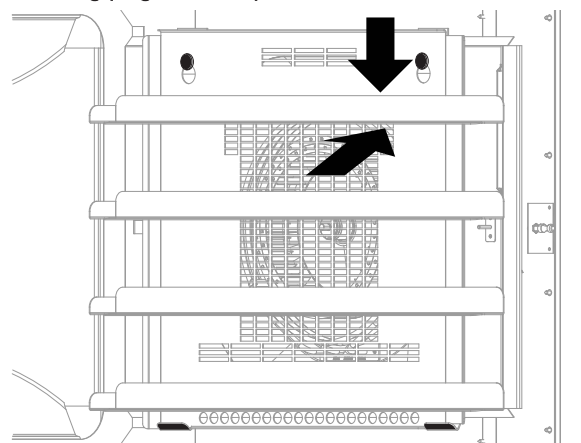
1. Clean the fan baffle with mild anti bacterial detergent and hot water solution using a soft bristled brush.
2. Clean any build up of grease from the oven fan, using a soft bristled brush with a solution of hot water and a mild anti bacterial detergent.
3. Dry the fan baffle and fan thoroughly with a soft dry cloth.

Once the oven interior is clean and dry, fit the oven racks back into the chamber.

1. Align the bottom of the right-hand rack to the two brackets at the bottom of the chamber.



2. Lift the rack upwards and hook it through the locating peg at the top of the chamber.



## TROUBLESHOOTING

This section provides a reference to the more common problems that may occur during the operation of your oven. This fault finding guide is intended to help you correct and accurately diagnose problems with your oven.

💡 When fault finding a problem, always use a process of elimination starting with the simplest solution and working through to the most complex. Never overlook the obvious.

### Fault finding

Fault	Possible causes	Remedy
The oven does not operate.	The mains isolating switch, circuit breaker, or fuses are off at the power board.	Turn on the main isolating switch.
		Check the fuses at the power board.
	Over-temperature thermostat has tripped (no lights and no power to screen).	Call for service.
	Over-temperature thermostat is faulty.	Call for service.
	Heating element is faulty.	Call for service.
Controller operates but oven does not heat.	Controller is faulty.	Call for service.
	Heating contactor is faulty.	Call for service.
	Door is not fully closed.	Close the door. See <i>Door does not close fully</i> below.
The oven heats up but fan does not operate.	Fan motor is faulty.	See <a href="#">Error codes on page 33</a> .
	Fan or fan motor is obstructed.	Call for service.
	Controller is faulty.	Call for service.
	Fan contactor is faulty.	Call for service.
	Fan capacitor is faulty.	Call for service.
The oven does not steam.	Steam mode not selected.	Check the steam mode setting.
	Injector is nozzle blocked.	Clean the injector nozzle.
	Water solenoid faulty.	Call for service.
	Controller is faulty.	Call for service.
Door does not close fully.	The tray is blocking the door.	Correctly position the tray in the rack.
	Door is misaligned.	Re-align the door. See the Installation manual.
	Door seal obstruction.	Correctly install the door seal. See <a href="#">Maintenance tasks on page 28</a> .
The oven lamp does not illuminate.	Blown bulb (one bulb not working).	Replace the bulb. See <a href="#">Maintenance tasks on page 28</a> .
	Blown fuse (both bulbs not working).	Call for service.
Uneven cooking.	Too high a temperature selected.	Select a lower temperature.
	The oven or racks are not level.	Level the oven and the racks.
	Insufficient air space around trays or baking tins.	Ensure oven racks are spaced to allow air flow around baking on all shelves.
	The oven is overloaded with product.	Re-load the oven.
	The oven door is opened unnecessarily.	Ensure oven door remains closed during the baking process.
	The oven door seal is damaged or faulty.	Check the seal and replace it if damaged. See <a href="#">Maintenance tasks on page 28</a> .

Fault	Possible causes	Remedy
	The vent is restricted.	Ensure that the oven vent is not blocked or shrouded.
Control panel display does not show $\text{E}^P$ when the core temperature probe is connected.	Core temperature probe is faulty.	Replace the core temperature probe.



## Error codes

The following error codes appear on the display when there is a corresponding fault.

Error	Description	Possible cause	Remedy
dor	Door fault	The door is open.	Close the oven door.
		The door micro-switch requires adjustment	Call for service.
		The door micro-switch is faulty.	Call for service.
		The connections on the oven control board are loose or faulty.	Call for service.
		The oven control board is faulty.	Call for service.
Err 001	Oven temperature probe error.	The temperature probe is faulty.	Call for service.
		The connections on the oven control board are loose or faulty.	Call for service.
		The oven control board is faulty.	Call for service.
Err 002	PT2 core temperature probe input error	The core temperature probe socket connection is poor.	Ensure that the core temperature probe socket is clean and free from contamination. Ensure that the terminals and connectors on the probe and socket are in good condition.
		The core temperature probe is faulty.	Replace the core temperature probe.
		The oven control board is faulty.	Call for service.
Err 003	Motor overload	The heating fan is obstructed.	Remove any obstruction from around the fan and ensure that the fan spins freely. <div><b>▲CAUTION</b> Ensure that the oven is powered-off before you inspect and service the fan.</div>
		The capacitor is faulty.	Call for service.
		The oven control board is faulty.	Call for service.
		The motor is faulty.	Call for service.
EP	EP flashes on lower display and alarm sounds	The program requires the core temperature probe in order to continue cooking.	Plug in the core temperature probe to resolve the fault.
Err Hod	VH hood fault	The VH hood is not plugged in or not switched on.	Ensure that the hood is correctly connected and switched on.
		The connection between the oven and hood is faulty.	Check all the connections between the oven and hood. Call for service.
		The oven controller is programmed incorrectly.	Call for service.
		The VH hood is faulty.	Call for service.
		The oven control board is faulty.	Call for service.





# TURBOFAN CUSTOMER CARE

## **New Zealand**

Moffat Limited  
www.moffat.co.nz  
Tel: +64 (3) 983 6600  
Fax: +64 (3) 983 6660  
Email: sales@moffat.co.nz

## **Canada**

Serve Canada  
www.servecanada.com  
Sales: 800 551 8795  
Service: 800 263 1455  
Email: info@servecanada.com

## **International**

Moffat Limited  
www.moffat.com  
Tel: +64 (3) 983 6600  
Fax: +64 (3) 983 6660  
Email: export@moffat.co.nz

## **Australia**

Moffat Pty Ltd  
www.moffat.com.au  
Tel: +61 (03) 9518 3888  
Service: 1300 264 217  
Fax: +61 (03) 9518 3833  
Email: vsales@moffat.com.au

## **United Kingdom**

Blue Seal Limited  
www.blue-seal.co.uk  
Tel: 0121 327 5575  
Service: 0121 332 6647  
Fax: 0121 327 9711  
Email: sales@blue-seal.co.uk

## **United States**

Moffat Inc  
www.moffat.com  
Tel: 1 800 551 8795  
Fax: 336 661 9546  
Email: sales@moffat.com

an Ali Group Company



the spirit of excellence