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eikon[®] e1s

GB User Manual CE
Section 1: Safety Guide



Read instructions before use

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Document information

Version control

Date	Issue number	Description	Issued by
1 st June 2019	07	Safety instructions and procedures for eikon e1s	Merrychef

Document purpose

This safety guide is intended for all people who work with the Merrychef eikon e1s microwave combination ovens, and provides them with the necessary information to operate and maintain them safely.

This document must be read and understood without fail by those that will come in to contact with the appliance. Each section begins by identifying all those to whom it applies. If the information is not followed, there is risk of fatality, injury and property damage.

Related documents

This document forms one part of the overall Merrychef eikon e1s user manual. The complete manual is separated into three sections:



- Section 1: Safety Guide
- Section 2: Operations and Installation Guide
- Section 3: Service and Repair Guide

How to use this guide

This guide should be read prior to installing and using the appliance. It should also be used in conjunction with the Operations and Installation Guide (Section 2) and the Service and Repair Guide (Section 3).

Symbols and their meanings

Important information has been highlighted throughout this section using symbols and warning notices.

Symbol	Meaning
	Warnings of potential injuries. Heed all the warning notices that appear after this symbol to avoid potential injuries or death.
	See Operations Guide or section specified.

Warning notices

Hazard level	Consequences	Likelihood
 DANGER	Death / serious injury (irreversible)	Immediate risk
 WARNING	Death / serious injury (irreversible)	Potential risk
 CAUTION	Minor injury (reversible)	Potential risk
 DAMAGE	Damage to property	Potential risk



1A. EC Declaration of Conformity

Manufacturer

Authorised Representative (Brand Headquarters)

Welbilt UK Limited
Ashbourne House, The Guildway,
Old Portsmouth Road
Guildford GU3 1LR
United Kingdom

Factory

Welbilt (Foshan) Foodservice Co., Ltd.
Chuang Ye Road, Song Gang Song Xia Industrial Park,
Nanhai District, Foshan Guangdong,
China 528234

Validity of Conformity

This declaration of conformity applies to the following electrical appliance models:

Commercial microwave combination oven; eikon e1s.

Compliance of Electrical Appliances with Directives

The manufacturer declares that the commercial microwave combination oven specified above complies with the following European Directives:

- 2006/42/EC (Machinery Directive),
- 2014/30/EU (EMC Directive),
- 2011/65/EU (RoHS Directive)

The safety objectives of European Directive 2014/35/EU (Low Voltage Directive) have been met in accordance with Annex I, Section 1.5.1 of the Machinery Directive.

Compliance of Electrical Appliances with Standards

The electrical appliances comply with the requirements in the following European standards

- EN 60335-1: 2012+ A11:2014
- EN 60335-2-90: 2006 + A1: 2010 (excl. Annex EE Ship board requirements)
- EN 55011: 2016 A1: 2017
- EN 55014-2:1997+Corri+A1:2001+A2:2008 in accordance with Category IV requirements
- EN 61000-3-2: 2014
- EN 61000-3-11: 2013
- EN 61000-6-2: 2005
- EN 62233: 2008
- EN50581: 2012
- EN1672-2: 2005+A1: 2009

Authorised Representative

Authorised to compile the technical documentation is in accordance with Annex II A Section 2 of Directive 2006/42/EC Welbilt UK Limited, Ashbourne House, The Guildway, Old Portsmouth Road, Guildford GU3 1LR, United Kingdom.

Place and Date of issue: Guildford, 14th March 2018.



Mr Philip Radford

Vice President Products: Merrychef (on behalf of the Authorised Representative)

1B. Environmental protection

Welbilt UK employs a quality management system in accordance with EN ISO 9001:2008 and a certified environmental management system in accordance with EN ISO 14001.

Statement of principles

Our customers' expectations, the legal regulations and standards and our company's own reputation set the quality and service for all our products.

We have an environmental management policy that not only ensures compliance with all environmental regulations and laws, but also commits us to continuous improvement of our green credentials.

We have developed a quality and environmental management system to guarantee the continued manufacture of high-quality products and to be sure of meeting our environmental targets.

This system satisfies the requirements of ISO 9001:2008 and ISO 14001:2004.

Environmental protection procedures

We observe the following procedures:

- Use of RoHS2-compliant products
- REACH chemical law
- Recycling of electronic waste
- Environmentally friendly disposal of old appliances via the manufacturer

Correct disposal of this product (waste electrical & electronic equipment)



Applicable in the European Union and other European countries with separate collection systems. This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Noise emission

The weighted emission sound pressure is <70 dBA.



1C. Summary of design, operational hazards and safety devices

The information in this section should be read and understood by Facility Managers, Chefs, Users and Service Technicians.

The microwave combination oven is designed to protect the user from all hazards that can reasonably be avoided by design measures. The actual purpose of the microwave combination oven, however, means that there are still residual risks; you must therefore take precautions to avoid them. A safety device can provide you with a certain degree of protection against some of these hazards. You must ensure, however, that these safety devices are in place and in working order.

Warning and safety signs

The following warning signs/notices must be attached to the microwave combination oven and optional accessories in the area indicated so as to be easily visible at all times.



Area	Symbol	Descriptions
1		Microwaves warning There is a risk of external and internal burns of body parts following exposure to microwave energy.
2		Electric shock warning There is a risk of electric shock if the appliance is serviced without disconnecting the electrical supply.
3		Fire / electric shock warning There is a risk of fire / electric shock if the appliance is operated without respecting the minimum clearances.
4		Hot surface warning There is a risk of burns from high temperatures inside the cavity and on the inside of the appliance door.
5		Electric shock warning There is a risk of electric shock if the electrical power is not connected to a properly grounded outlet.
6		Equipotential bonding

Table 1.1: Meaning of signs

Figure 1.1: Warning and safety signs on appliance

Parts and safety devices

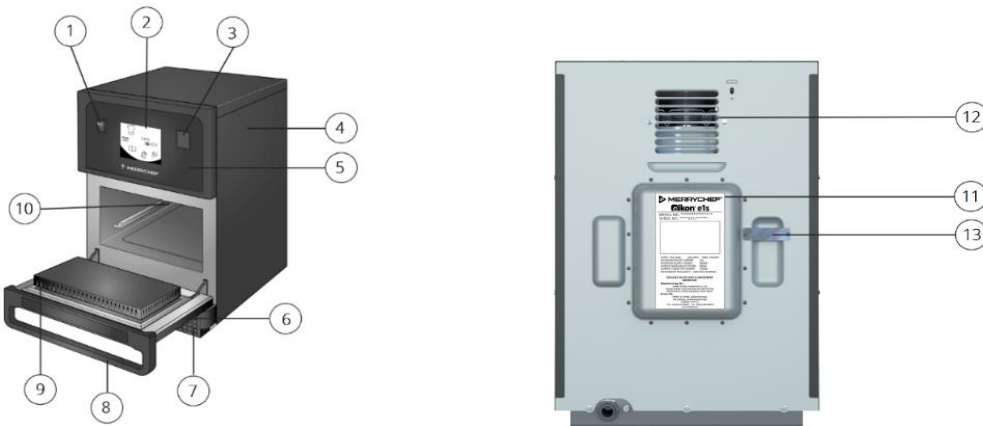


Figure 1.2: e1s front and rear views – parts and safety devices

Item	Part / safety device	Function and precautions
1	ON/OFF appliance switch	Used to turn the microwave combination oven on and off. However, turning this switch off does not isolate the appliance from the electricity supply.
2	easyToUCH® screen control panel	The easyToUCH® screen illuminates to alert the user that the appliance is switched on.
3	USB port	A USB socket located under the cover allows updates to programmes stored on the appliance.
4	Protective cover	The cover can only be removed with specific tools. It prevents live parts from being touched accidentally and prevents access to the moving fan. Always ensure the cover is securely in place.
5	Operating panel	Can only be removed using specific tools and prevents live parts from being touched accidentally. Always ensure the panel is in place.
6	Appliance door	Protects the user and outside environment from hot steam and microwave energy. Check the door regularly for damage and replace it if required.
7	Air filter	The air filter is part of the ventilation system and should be free of obstruction and cleaned daily.
8	Door handle	The door handle is a rigid bar which is pulled downwards and away from the appliance to open it.
9	Door seals	The tight seals around the door ensure protection from microwave energy leaking from the cavity. Check the door seals regularly for signs of damage and replace it if required.
10	Cavity	The cavity (cooking chamber) is constructed from stainless steel and used for cooking products. Keep it clean by following the appliance's cleaning procedures.
11	Nameplate	A label that is attached at the rear of the oven and states the serial number, model type and electrical specifications.
12	Air outlets	To allow air used to cool internal components and steam from the cavity to escape. The air outlets must be kept free from obstruction and they will not allow microwave energy to escape into the environment.
13	Steam pipe and cover	A covered pipe from the cavity to the back of the oven to vent steam during cooking and prevent pressure build up.

Table 1.2: Parts – functions and precautions



Other safety devices

Safety device	Functions	Checks / Actions
Door interlocks - Electric door sensor for appliance door	<ul style="list-style-type: none"> Ensures that the microwave generation system cannot be powered when the door is open 	<p>Check door switch:</p> <ul style="list-style-type: none"> Action: Open the appliance door fully and press Start Result: Door open warning message
Disconnection device	<ul style="list-style-type: none"> Installed by the customer close to the appliance; easily visible and accessible, 1- or 3-pole action, minimum contact separation 3mm Used to disconnect the appliance from the power supply during cleaning, repair and servicing work and in case of danger 	<p>Action:</p> <ul style="list-style-type: none"> Trip the disconnection device Unplug appliance such that from any access point the operator can check the plug remains removed Use of disconnection with a locking system in the isolated position
Internal fuses	<ul style="list-style-type: none"> Prevent faulty components from drawing too much current and causing potential fire hazard 	<ul style="list-style-type: none"> Ensure that the internal fuses are correctly rated

Table 1.3: Safety devices - actions and checks

Hazard points

Heat generation (1)

The microwave combination oven becomes hot inside the cavity and on the inside of the appliance door. This poses a risk of burns on hot surfaces inside the microwave combination oven, and also on hot appliance parts, food containers and other accessories used for cooking.

Hot steam / vapour (2)

When cooking food, the microwave combination oven may generate hot steam and vapour which escapes when the appliance door is opened and which is removed through the air vents on the rear of the microwave combination oven when the appliance door is closed. This poses a risk of scalding from hot steam when the appliance door is opened. Take particular care when opening the appliance door if the top door edge is below your field of vision.

Live components (3)

The microwave combination oven contains live parts. This means a risk from live parts if the cover is not in place.

Parts moving against each other (4)

For various actions, such as opening/shutting the appliance door or cleaning the appliance door, there is the risk that you will crush or cut your hand.

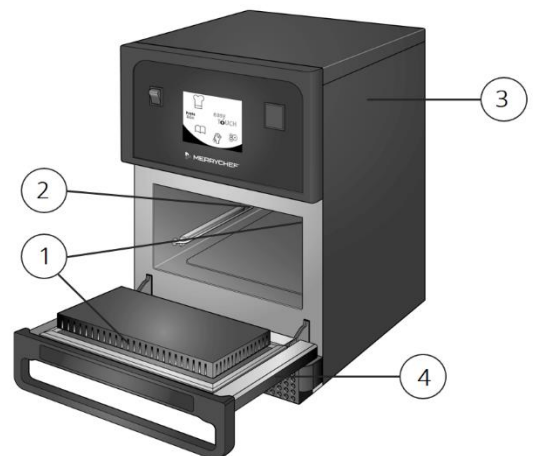


Figure 1.3: Hazard points

1D. General safety

The information in this section should be read and understood by Facility Managers, Chefs, Users and Service Technicians.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions should be followed as detailed in this section.

General cautions

To reduce the risk of burns, electric shock, fire, injury to persons, or exposure to excessive microwave energy:

- The microwave combination oven should only ever be used for the specified purposes.
- Read all instructions before using the appliance.
- Installation of the microwave combination oven must comply with all national and regional laws and regulations as well as the local regulations of the relevant utility companies and local authorities along with any other related requirements.
- Children shall not use or play with the appliance.
- Changes should not be made to the microwave combination oven, e.g. removing parts or fitting unapproved parts. In particular, the safety devices should never be disabled.
- Always keep at hand *Section 2: Operations and Installation Guide* for reference and pass it to the new user if the oven changes ownership.

Restrictions on use

- Do not use corrosive chemicals or vapours in this appliance. This type of oven is specifically designed to heat, cook or toast food. It is not designed for industrial or laboratory use.
- No highly flammable objects with a flash point below 270°C / 518°F, such as highly flammable oils, fats or cloths (kitchen cloths).
- Never use the appliance to heat alcohol, e.g. brandy, rum, etc. Food containing alcohol can more easily catch fire if overheated. Observe caution and do not leave the appliance unattended.
- Never attempt to deep fry in the oven.
- Do not heat dry powder or granulated material.



- Eggs in their shell and hard-boiled eggs should not be heated in microwave ovens since they may explode even after microwave heating has ended.
- Do not operate the appliance using microwave only or combination function without food or liquid inside the cooking chamber, as this may result in overheating and cause damage.
- Do not use the appliance to dry linen.
- Do not attempt to operate the appliance with:
 - An object caught in the door
 - A door that does not close properly
 - A damaged door, hinge, latch or sealing surface
 - Without food in the oven

⚠ WARNING

- Liquids or other foods must not be heated in sealed containers or jars since they are liable to explode.

Precautions when using the appliance

⚠ WARNING

- Microwave heating of beverages can result in delayed eruptive boiling. Therefore, care must be taken when handling the container.
- When handling hot liquids, foods and containers, care should be taken to avoid scalds and burns.
- As with any cooking appliance, care should be taken to avoid combustion of the items within the appliance.

Instructions for safe use of the appliance

- Only use utensils that are suitable for use in microwave combination ovens.
- Foods must not be heated in completely sealed containers as the build-up of steam may cause them to explode
- Extra precautions must be taken when heating and handling liquid:

⚠ CAUTION

- When heating liquids using microwave only or combination function, the contents should be stirred prior to heating to help prevent eruptive boiling.
- Only use containers of appropriate size.
- Insert the food containers correctly.



- Always place containers holding liquids or holding food that will liquefy during cooking on shelves that allow a proper view into the container for all users.
- Always take out horizontally any containers holding liquids or holding food that will liquefy during cooking.
- **⚠️ WARNING** The contents of feeding bottles and baby food jars must be stirred or shaken and the temperature checked before consumption to avoid burns.
- Items should be unwrapped when using convection and combination functions.
- Excess fat should be removed during 'roasting' and before lifting heavy containers from the oven.
- Food with a skin, e.g. potatoes, apples and sausages should be pierced before heating.
- When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
- Food in combustible plastic or paper containers should be transferred to a microwave-proof/ovenproof container.
- In the event of glass breaking or shattering within the oven, ensure that food is totally free of glass particles. If in doubt, dispose of any food that was in the oven at the time of the breakage.
- Switch off the appliance at the end of all the cooking sessions for that day.

Requirements to be met by operating personnel

⚠️ WARNING

- 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 in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children.
- It is hazardous for anyone other than a competent person to carry out any service or repair operation that involves the removal of any cover which gives protection against exposure to microwave energy. See *1E: Requirements to be met by operating personnel*.

Operating condition requirements

- As with all electrical appliances, it is recommended to have the electrical connections inspected at least once a year.



- This appliance must be grounded. Connect only to a properly grounded outlet. See *Operations and Installation Guide – Section 2B*.
- **⚠DANGER** If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- **⚠DANGER** The appliance must be disconnected from its power supply during maintenance and when replacing parts.
 - Unplug appliance such that from any access point the operator can check the plug remains removed.
 - Use of disconnection with a locking system in the isolated position is recommended in order to avoid a hazard.
- Never remove the external covers of the appliance.
- Never remove any fixed internal parts of the appliance.
- Never tamper with the control panel, door, seals, or any other part of the appliance.
- Never hang dish towels or cloths on any part of the appliance.
- The appliance must not be operated without the air filter in place.
- **⚠WARNING** If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person. See *Section 1E. Requirements to be met by operating personnel*.

Operating environment requirements

- This appliance is not intended for mobile use, such as in marine or vehicle applications.
- The appliance must not be installed or operated outdoors.
- Ensure dry floor. The floor adjacent to the appliance may be slippery. Clean up spillages immediately.

⚠DAMAGE

- The minimum height of free space necessary above the top surface of the appliance is 50mm (2”).
- The minimum depth requirement is as follows:
 - Width of appliance = 406.4mm (16”)
 - Total depth with door open = 806.9mm (31.8”)
 - Counter depth = 499.0mm (19.6”)
- Safety clearance requirement on the left and right of the oven is 0mm.



Cleaning safely requirements

- Personnel charged with cleaning must be trained regularly by the person responsible for the microwave combination oven.
- The oven should be cleaned regularly and any food deposits removed.
- The oven must already be cool or cooled down following the correct procedures specified in the *Operations and Installation Guide – Section 2G*.
- Use only cleaning chemicals that have been approved by the manufacturer.
- High-pressure cleaners or water jets must not be used for cleaning.
- The appliance must not be treated with alkali or acid solutions or exposed to acid fumes.
- The cooking chamber of the appliance and the door seals should be cleaned frequently. Failure to maintain the appliance in a clean condition could lead to deterioration of the surface, which could adversely affect the life of the appliance and possibly result in a hazardous situation. Details for cleaning door seals, cavities and adjacent parts are provided in the *Operations and Installation Guide – Section 2H*.
- Ensure that the cavity has been cleaned thoroughly of any cleaning agents with warm water, then wipe with a soft cloth or paper towel.
- The air filter (Figure 1.2, item 7) is part of the ventilation system and should be cleaned daily.
- Do not heat up the appliance if there are cleaning chemicals inside.



Full cleaning procedures are detailed in the Operations and Installation Guide – Section 2H.

Emergency instructions

⚠ DANGER

- If smoke is observed, switch off the appliance. Unplug or isolate it from the electrical supply and keep the door closed in order to stifle any flames.

SAVE THESE INSTRUCTIONS



1E. Requirements to be met by operating personnel working positions

The information in this section should be read and understood by Facility Managers, Chefs, Users and Service Technicians.

Personnel	Qualifications	Tasks
Facility Manager	<ul style="list-style-type: none"> • Has relevant professional training • Trained in how to operate the microwave combination oven 	<p>Responsible for staff safety. To guarantee safety:</p> <ul style="list-style-type: none"> • Only personnel who demonstrably understand the hazards detailed in this section and strictly follow the precautions and proper usage of instructions provided should be permitted to use the microwave combination oven • Ensure ALL personnel coming in to contact with the microwave combination oven use the Personal Protective Equipment for each task as detailed at the start of each section of this safety guide
Chef	<ul style="list-style-type: none"> • Has relevant professional training • Knows relevant national food legislation and regulations, plus hygiene legislation and regulations • Must keep records in accordance with Hazard Analysis and Critical Control Points (HACCP) • Trained in how to operate the microwave combination oven 	<p>Essentially performs organisational tasks such as:</p> <ul style="list-style-type: none"> • Entering the cooking profile data • Editing existing cooking profiles in the cookbook • Developing new cooking profiles • Adjusting appliance settings • They may also perform all user tasks if applicable
User	<ul style="list-style-type: none"> • Semi-skilled • Trained in how to operate the microwave combination oven • Works under supervision • Knows the regulations associated with handling heavy loads 	<p>Essentially performs specific operating tasks such as:</p> <ul style="list-style-type: none"> • Loading the microwave combination oven • Starting a cooking profile • Removing food • Cleaning the microwave combination oven. • Fitting accessories in the microwave combination oven • Minor servicing tasks
Equipment mover	<ul style="list-style-type: none"> • Trained in the use of a pallet truck and forklift truck • Knows the regulations associated with handling heavy loads 	<ul style="list-style-type: none"> • Conveying within the establishment
Service technician	<ul style="list-style-type: none"> • Is an authorised service agent • Has relevant technical training • Is trained in the particular appliance • Knows the regulations associated with handling heavy loads 	<ul style="list-style-type: none"> • Setting up the appliance • Preparing the appliance for first-time use and taking the appliance out of service • Instructing the user

Table 1.4: Personnel – qualifications and tasks



1F. Hazards and safety precautions during installation and setting up

The information in this section should be read and understood by Facility Managers, Equipment Movers and Service Technicians.

Personal protective equipment requirement


When installing or moving the appliance, ensure the following personal protective equipment is used:

- Protective gloves
- Safety boots
- Hard hat (e.g. when heavy loads are being lifted and working overhead)

To ensure local and national standards and regulations relating to workplaces in catering kitchens and the installation location are observed, only Service Technicians are permitted to set up the appliance.

Safety precautions relating to the installation location

To prevent hazards that arise from the installation site and environment of the appliances, the following rules must be observed:

- The floor adjacent to the appliance may be slippery. Clean up spillages immediately.
- The location for installation must comply with operating conditions requirements:
 - The ambient temperature lies between +4°C /40°F and +35°C/95°F
 - Not a toxic or potentially explosive atmosphere
 - Dry kitchen floor to reduce the risk of accidents
-  **DAMAGE** Minimum space requirement must be complied with:
 - The minimum height of free space necessary above the top surface of the appliance is 50mm (2").
 - The minimum depth requirement is as follows:
 - Width of appliance = 406.4mm (16")
 - Total depth with door open = 806.9mm (31.8")
 - Counter depth = 499.0mm (19.6")
 - Safety clearance on left-/right-hand side / at rear: 0mm
- The appliance must not be installed directly under a fire alarm or sprinkler system. Fire alarm installations and sprinkler systems must be set up to handle the level of steam and vapour expected to escape from the appliance when the door is opened.
- There is a risk of fire from the heat emitted from hot surfaces. Therefore, flammable materials, gases or liquids must not be located near, on or below the appliance.
- It must be possible to set up the microwave combination oven in the installation position so that it cannot tip over or slide about. The supporting surface must comply with these requirements.
- Vibrations must generally be avoided when using wheeled oven stands or wheeled stacking kits.
- Heat sources in the vicinity must lie at a minimum distance of 500mm (20").
- The appliance must be installed so that there is absolutely no possibility that liquid from the appliance or liquid coming from cooking processes can reach deep-fat fryers or appliances that use hot, uncovered fat. Deep-fat fryers or appliances that use hot, uncovered fat, and which are located in the vicinity must lie at a minimum distance of 500mm / 20in.



- Requirements for supporting surface is met.
 - The supporting surface must be flat and level.
 - The supporting surface must have a non-slip surface.
 - The supporting surface must be able to bear the in-use weight of the appliance, plus the weight of the structure supporting the appliance as follows: 50Hz = 46kg /101lbs and 60Hz = 45kg / 99lbs.

Potential risks during installation and setting up

Risk of injury from lifting heavy weights incorrectly

⚠ WARNING

When lifting the appliance, the weight of the appliance may lead to injuries, especially in the torso area. To avoid this:

- Use a fork-lift truck/pallet truck to move the appliance.
- Use suitable lifting gear.
- When lifting the appliance, use enough people for the weight of the appliance (value depending on age and gender). Observe the local occupational safety regulations for lifting and carrying.

Risk of body parts being crushed when moving and setting the appliance down

⚠ WARNING

To avoid crushing body parts, ensure these instructions are followed:

- Use suitable handling gear
- Move the appliance slowly and carefully, and secure it against tipping over
- Make sure centre of gravity is balanced and avoid jolts
- Ensure the supporting surface meets the requirements specified above

Risk of cuts from sharp edges

⚠ CAUTION

To avoid cuts, ensure personal protective equipment is used and exercise caution when handling sheet-metal parts.

Risk of trapping fingers or body in mechanical parts of the appliance

⚠ WARNING

To avoid this risk, when opening or closing the door, ensure that the handle is used and keep clear of the door hinges.

Risk of electric shock from live electrical parts

⚠ DANGER

Live electrical parts are to be found under covers, under the operating panel, along the mains power lead and on metal parts adjacent to the appliance. As such, work on the electrical system must only be performed by qualified electricians (as per EN50110-1 in EU or equivalent) from an authorised service company. To avoid risk:

- The appliance must not be installed or operated outdoors.
- The electrical supply must be connected in accordance with applicable local and national regulations and regulations of the professional associations and of the relevant power supply company.
- Ensure that all electrical connections are in perfect condition and fixed securely.
- Make sure that the appliance is connected to an equipotential bonding system (EU).



- If two microwave combination ovens are installed in a stacking kit, both cases of the appliances and the stacking kit itself must be grounded in a suitable manner and connected to an equipotential bonding system.
- For microwave combination ovens on a wheeled platform, the length of the mains power lead must accommodate the degree of movement allowed to the appliance by the retaining device on the wheeled platform. When moving the assembly (platform plus appliance), never place the mains power lead under tension.
- All electrical connections must be checked when the appliance is prepared for first-time use to ensure cables are laid correctly and connections are made properly.

1G. Hazards and safety precautions when preparing appliance for use

The information in this section should be read and understood by Facility Managers, Chefs, Users and Service Technicians.

Personal protective equipment requirement

Ensure work wear as specified in country-specific standards and directives for kitchen work is used, in particular:

- Protective clothing
- Heat protective gloves (compliant with EN 407 in European Union or equivalent)
- Safety boots

Safety precautions for preparation for first use

- Ensure cardboard packaging and transport securing devices etc. have been removed completely from the appliance.
- Ensure that any work on the electrical system is performed solely by a qualified electrician from an authorised service company.
- Ensure that the appliance, including all metallic accessories, is connected to an equipotential bonding system.
- Ensure all warning signs are in their designated position (Figure 1.1).
- Ensure all safety devices and protective equipment are fitted, are working correctly and are secured properly in place.
- Do not operate the microwave combination oven unless it has been properly transported, set up, installed and placed into operation as indicated in this manual and the person responsible for placing it into operation has confirmed this.
- Do not operate the oven if it is damaged. It is particularly important that the oven door closes properly and that there is no damage to the door, door hinges, door seals and sealing surfaces.
- If the appliance has wheels fitted to the supporting structure, the parking brakes on the front wheels must be engaged when operating the appliance.
- Ensure the air filter situated at the lower front of the appliance (Figure 1.2), is free of obstruction.
- Ensure the air outlets (Figure 1.2) are free from obstruction.



For details of ongoing safety precautions for everyday use, see *Section 1H: Hazards and safety precautions during operation*.



1H. Hazards and safety precautions during operation

The information in this section should be read and understood by Facility Managers, Chefs, Users and Service Technicians.

Personal protective equipment requirement

Ensure work wear as specified in country-specific standards and directives for kitchen work is used, in particular:

- Protective clothing
- Heat protective gloves (compliant with EN 407 in European Union or equivalent)
- Safety boots

General rules

- The appliance must not be operated outdoors.
- The appliance must not be shifted or moved during use.
- The appliance must not be operated without the air filter in place.
- The air filter must always be kept free of obstruction.
- The air outlets must be kept free from obstruction.
- Never hang dish towels or cloths on any part of the appliance.
- Never remove the external covers of the appliance.
- Never remove any fixed internal parts of the appliance.
- Never tamper with the control panel, door, seals, or any other part of the appliance.
- If the door or door seal is damaged, the appliance must not be operated until it has been repaired by a Service Technician.
- The door is a precision-made energy barrier with three microwave safety interlocks. Do not use it to support heavy objects.
- If the supply cord is damaged, it must be replaced by the manufacturer, a Service Technician or similarly qualified person to avoid a hazard.



If smoke is observed at any point, switch off the appliance. Unplug or isolate it from the electrical supply and keep the door closed in order to stifle any flames.

Restrictions on use



The restrictions listed in *Section 1D: General safety* must always be complied with.

Instructions for safe use of the appliance



Section 1D: General safety lists instructions for safe use of the appliance.



Potential risks during operation

Hot surfaces



There is a risk of burn if any of the interior parts of the cavity (Figure 1.2, item 11), the inside of the appliance door or any parts that are or have been inside the oven during cooking are touched. Ensure the personal protective equipment detailed at the beginning of this section is used.

Hot steam / vapour



Escaping hot steam and vapour can cause scalding to face and hands. When opening the door and when cooling the cavity using the 'Cool Down' function, step back from the appliance to avoid the hot steam and vapour escaping through the open door.

Excessive microwave energy



Precautions to avoid burns from excessive microwave energy:

- Do not attempt to operate the appliance oven with the door open, since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- Do not place any object between the oven front face and the appliance door or allow soil or cleaner residue to accumulate on sealing surfaces.
- Do not operate the appliance if it is damaged. It is particularly important that the oven door closes properly and that there is no damage to the door, door hinges, door seals and sealing surfaces.
- The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

Break in the cold chain



To minimise risk of microbiological contamination of foods:

- Never use the appliance for temporary storage of food.
- Never intentionally interrupt the cooking process.
- Once the appliance is running again after a power failure, consider how the length of time taken to resume operation will affect the food condition. If in doubt, discard the food.



11. Hazards and safety precautions during cleaning

The information in this section should be read and understood by Facility Managers, Chefs, Users and any other personnel charged with cleaning the appliance.

Personal protective equipment requirement

When cleaning the appliance cavity by hand, and using spray cleaning products, the following personal protective equipment should be used:

- Breathing mask
- Safety goggles
- Protective gloves
- Protective clothing/apron

The specification for these items is provided on the data sheet that should accompany the cleaning products themselves or, where necessary, from the manufacturer directly.

Other cleaning tasks should be carried out in accordance with the instructions given on cleaning and with the personal protective equipment specified by the manufacturer of the cleaning products.

General cleaning safety rules and requirements



See *Section 1D: General safety*. Full cleaning procedures are also detailed in *Section 2: Operations and Installation Guide* and *Section 3: Service and Repair Guide*.

Potential risks during cleaning

Risk of electric shock from live parts



Water on the exterior of the appliance can cause a short-circuit, which may result in electric shock on touching the appliance. Therefore:

- Do not spray the interior and exterior of the appliance with water.
- Always keep the USB cover closed during cleaning.

Risk of burns from high temperatures on interior parts of the appliance



There is a risk of burns should any of the following be touched:

- Any of the interior parts of the cavity.
- The inside of the appliance door.
- Any parts that are or have been inside the oven during cooking including racks, shelf grills and baking trays.

To minimise the risk of burns:

- Before starting cleaning tasks, wait until the cavity has cooled to below 50°C / 122°F or use the 'Cool Down' function to cool the cavity as described in Section 2G: *Cool down procedures* section in the *Operations Guide*.



Risk of scalding from hot steam

⚠️ WARNING

If water or cleaning agent is sprayed into the hot cavity, steam will be produced and this may scald. To minimise this risk:

- Before starting cleaning tasks, wait until the cavity has cooled to below 50°C / 122°F or use the 'Cool Down' function to cool the cavity as described in *Section 2G: Cool down procedures* in the *Operations Guide*.
- Step back from the appliance to avoid the hot steam and vapour escaping through the open appliance door.

Risk of irritation to skin, eyes and respiratory system from cleaning products

⚠️ WARNING

Direct contact with the cleaning or protective chemicals will irritate the skin, eyes and respiratory system. To minimise this risk:

- Do not inhale the vapours or spray mist from the cleaning and protective chemicals.
- Do not let the cleaning or protective chemicals come into contact with skin, eyes or mucous membranes.
- Do not spray cleaning or protective chemicals into a cavity.
- Wear personal protective equipment as detailed at the beginning of this section.



Wearing personal protective clothing is vital throughout the cleaning process and can minimise risks of burns and scalds.

1J. Hazards and safety precautions during servicing and repair

The information in this section should be read and understood by Service Technicians.

Personal Protective Equipment

When repairing or servicing the appliance, ensure work wear and personal protective equipment is used as specified in applicable national regulations. The following personal protective equipment should be used:

- Protective gloves
- Safety boots
- Hard hat (e.g. when heavy loads are being lifted and working overhead)

Potential risks to move appliance

The potential risks associated with service and repair is the same as the possible risks you can be faced with during installation, as both processes may involve lifting and moving the appliance.

The risks are summarised below:

- Electric shock from live electrical parts
- Injury from lifting incorrectly
- Trapping fingers or body in mechanical parts of the appliance
- Cuts from sharp edges
- Crushing if the appliance tips over or falls off



Further information on the above risks and the procedures to avoid them are detailed in *Section 1F. Hazards and safety precautions during installation and setting up.*



Rules for moving and setting up the wheeled trolley safely

The appliance may need to be moved for service and repair. To avoid hazards, the following rules must be observed when moving the wheeled trolley (optional accessory) that carries the appliances:

- Watch out for all connecting cables when moving appliances. Never wheel over the connecting cables. Never pull off or even stretch the connecting cables.
- The appliances must be disconnected from the electrical supply before moving the stacking kit (optional accessory).
- The appliances must be left to cool down on the trolley before being moved.
- There must not be any food left in the appliances.
- The appliance door must be closed.
- Protective clothing must be worn if the appliance is mounted on a trolley.
- It is important to ensure that the unit is level once it is back in place.
- Once the unit is back in place, the parking brakes must be engaged again.
- Whatever the position, care must be taken to ensure that the trolley carrying the appliance does not tip over.

Risk of burns

WARNING

Before starting servicing and repair work, wait until the cooking chamber has cooled to below 50°C / 122°F or use the 'Cool-Down' function (*Section 2H: Cleaning Procedures*) to cool the cooking chamber.

Wear personal protective equipment suitable for handling hot surfaces before touching any of the interior parts of the cooking chamber, the inside of the appliance door or any parts that were inside the oven during cooking.

Risk of burns from microwave emissions

- Do not become exposed to emissions from the microwave generator or parts conducting microwave energy.
- Never operate an appliance that has failed the 'Microwave Leakage test'.

Risk of smoke or fire

If one of the electrical components is defective, for example due to a short-circuit, or if the internal wiring is refitted incorrectly when servicing/repairing the oven, there is a risk of smoke or fire. To avoid this risk:

- Never use electrical spare components which failed a dedicated test or look damaged.
- Carefully refit electrical connections using the wiring diagrams provided in *Section 3: Service and Repair Guide*.



1K. Hazards and safety precautions when taking the appliance out of service

The information in this section should be read and understood by Facility Managers and Service Technicians or other suitably qualified service engineer.

Personal protective equipment

When disconnecting the appliance, ensure work wear and personal protective equipment is used as specified in applicable national regulations.

When moving the appliance, ensure the following personal protective equipment is used:

- Protective gloves
- Safety boots
- Hard hat (e.g. when heavy loads are being lifted working overhead)

General precautions

- The kitchen floor must always be kept dry to reduce the risk of accidents
- The appliance door of the microwave combination oven must be closed before disposing of the appliance
- Do not leave food in the cavity

Potential risks

Risk of electric shock from live parts and loose cables



When the safety cover is open, there is a risk of electric shock from touching live parts. Make sure that any work on the electrical system is performed solely by a qualified electrician from an authorised service company.

Risk of injury from lifting incorrectly



Risks associated with lifting incorrectly and how to avoid injuries are detailed in *Section 1F: Hazard and Safety Precautions during installation and setting up*.

Risk of crushing if the appliance tips over or falls off



See *Section 1F: Hazard and safety precautions during installation and setting up* for details on minimising risks associated with the appliance tipping over.



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Microwave Combination Oven



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