

turbofan[®]

Turbofan Convection Oven

30 Series

Installation Manual

E35T6

Electric Convection Oven

Touchscreen Control



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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.

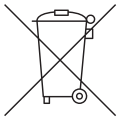
Intended use and restrictions

! 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.

Warranty

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

Visit www.moffat.com for warranty terms and conditions or contact our Customer Care team.

SPECIFICATIONS

Dimensions

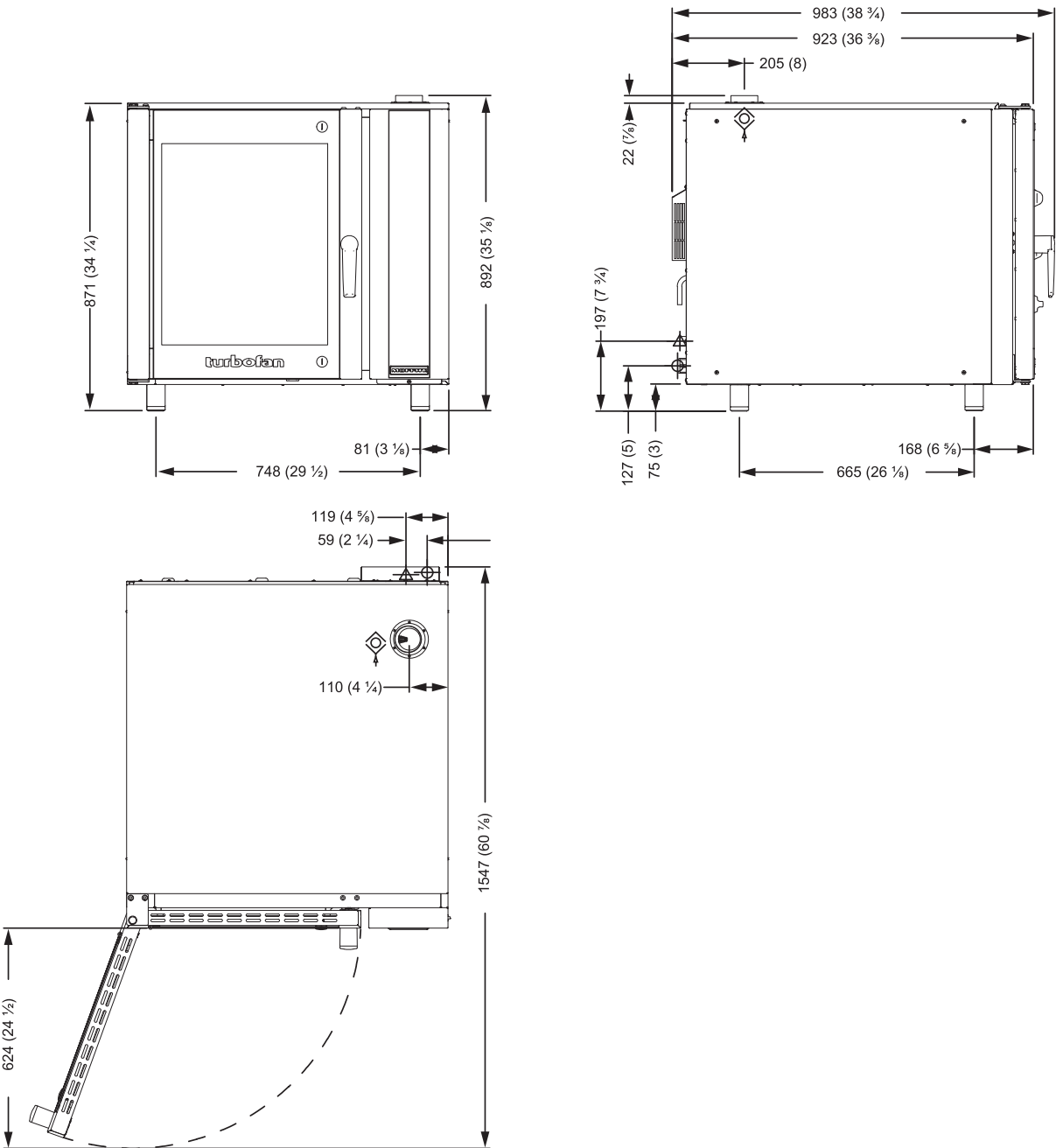
☑ All dimensions are in mm (inches).

⬮ Air vent

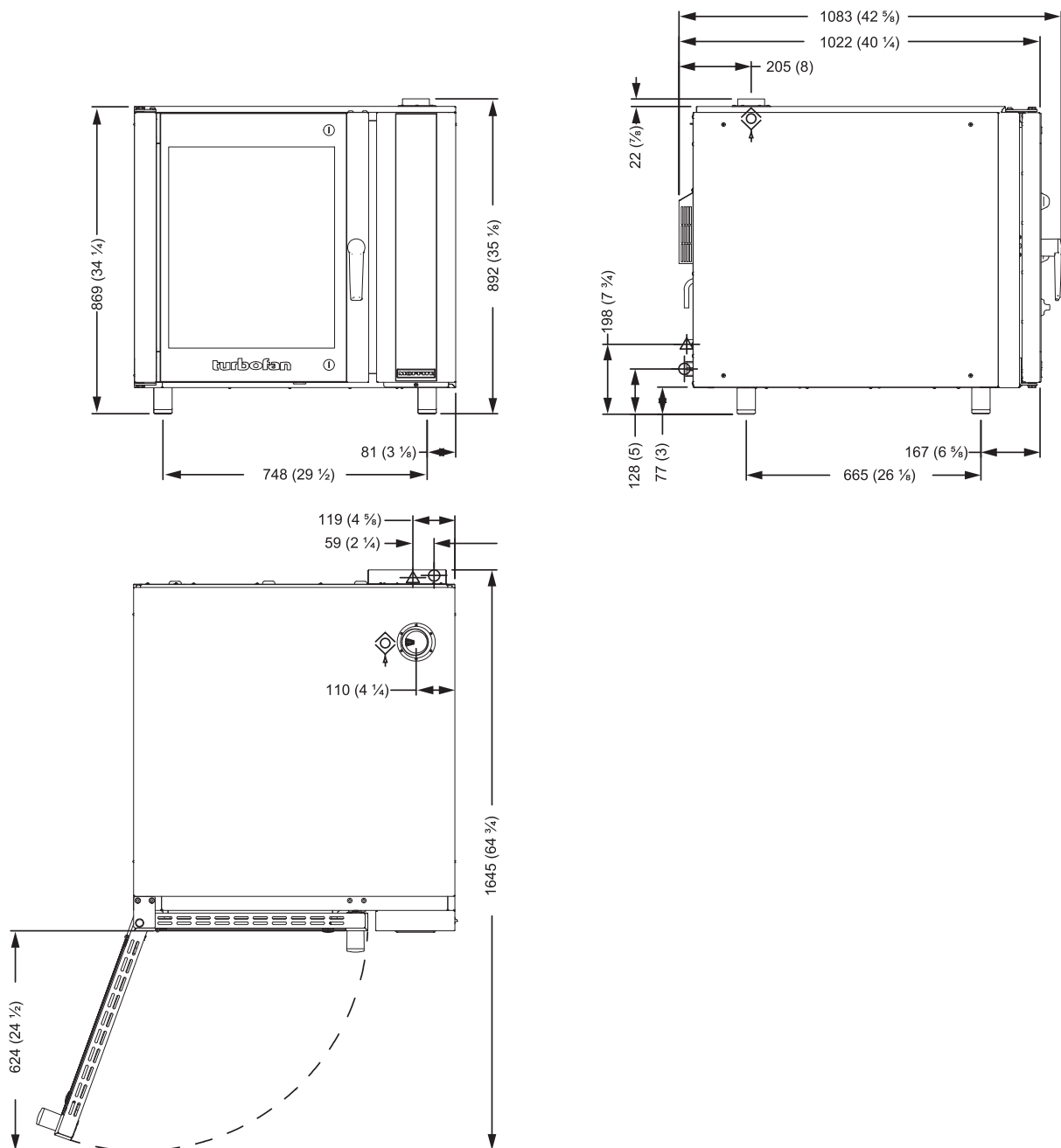
⚡ Electrical supply entry point

⊕ Water supply entry point

E35-26



E35-30



Product information

	E35-26	E35-30
Capacity	6 shelves	6 shelves
Tray capacity	460 x 660 mm (18 x 26 inches) full-size sheet pan capacity	460 x 762 mm (18 x 30 inches) full size sheet pan capacity
Tray spacing	105 mm (4 1/8 inches)	105 mm (4 1/8 inches)
Net Weight	139 kg	158 kg

Supply requirements

Electrical supply

Australia/New Zealand/UK

Model	Voltage (V)	Frequency (Hz)	Phase	Amps (A)	Electrical rating
E35T-**-453	400-415	50	3P+N+E	17.4	12.5kW @ 415V
E358T6-**-453	400-415	50	3P+N+E	11.1	8.0kW @ 415V
E35T6H-**-453	400-415	50	3P+N+E	18.3 / 17.4 / 17.4	12.7kW @ 415V
E35T6-**-251	230-240	50	1P+N+E	52.0	12.5 kW @ 240V
E35T6H-**-251	230-240	50	1P+N+E	52.9	12.7 kW @ 240V

International

Model	Voltage (V)	Frequency (Hz)	Phase	Amps (A)	Electrical rating
E35T6-**-353	380	50	3P+N+E	18.9	12.5kW @ 380V
E35T6-**-363	380	60	3P+N+E	18.9	12.5kW @ 380V
E35T6-**-P363	208-220	60	3P+E	32.8	12.5kW @ 220V
E35T6-**-T263	230-240	60	3P+E	30.1	12.5kW @ 240V
E35T6-**-P253	208-220	50	3P+E	32.8	12.5kW @ 220V
E53T6-**-T253	230-240	50	3P+E	32.8	12.5kW @ 240V
E35T6-**-453	400-415	50	3P+E	17.4	12.5kW @ 415V

Electrical connection requirements

- An isolation switch must be mounted adjacent to, but not behind the oven and must be readily accessible to the operator. This switch must be clearly marked and readily accessible in case of fire.
- The branch supply line shall be individually overload protected to the correct current rating and the supply cord shall be protected against any mechanical or thermal damage.
- All wiring connections must be tight.
- The size of the cable supply to the oven shall be appropriate for the current drawn on the line. Refer to the appropriate wiring standards for the cable size required.
- A RCD (Residual Current Device) / GFCI (Ground-Fault Circuit Interrupter) is recommended for protection of the power supply to this oven.

Water supply

Maximum Water inlet Pressure	80 psi (550 kPa)
Connection size	3/4 inch BSP male (with 3/4 inch GHT adaptor included)
Water quality	
Hardness	60-90 ppm
PH	Greater than 7.5
Chlorides	Less than 30 mm

Clearances

Position the oven with the following minimum clearances:

Top	200 mm (8 inches)
Left	50 mm (2 inches)*
Right	75 mm (3 inches)* †
Rear	50 mm (2 inches)
Front (recommended)	600 mm (23 inches)*

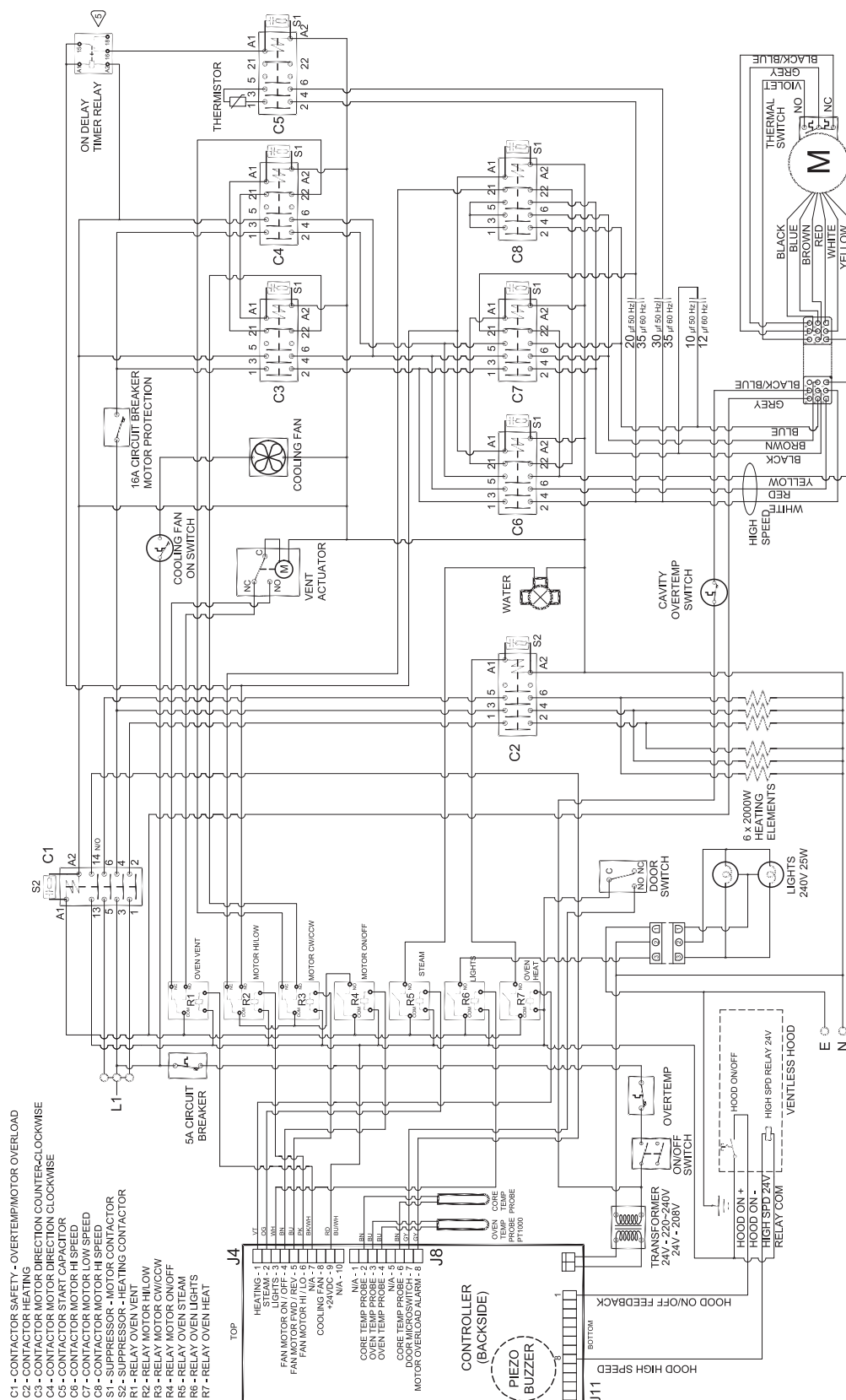
* Door-side clearance. If the oven is fitted with a right-hand side door (RMD), swap the left- and right-hand side clearances.

† Fixed installations require at least 500 mm (20 inches) clearance on right-hand side of the oven for service access.

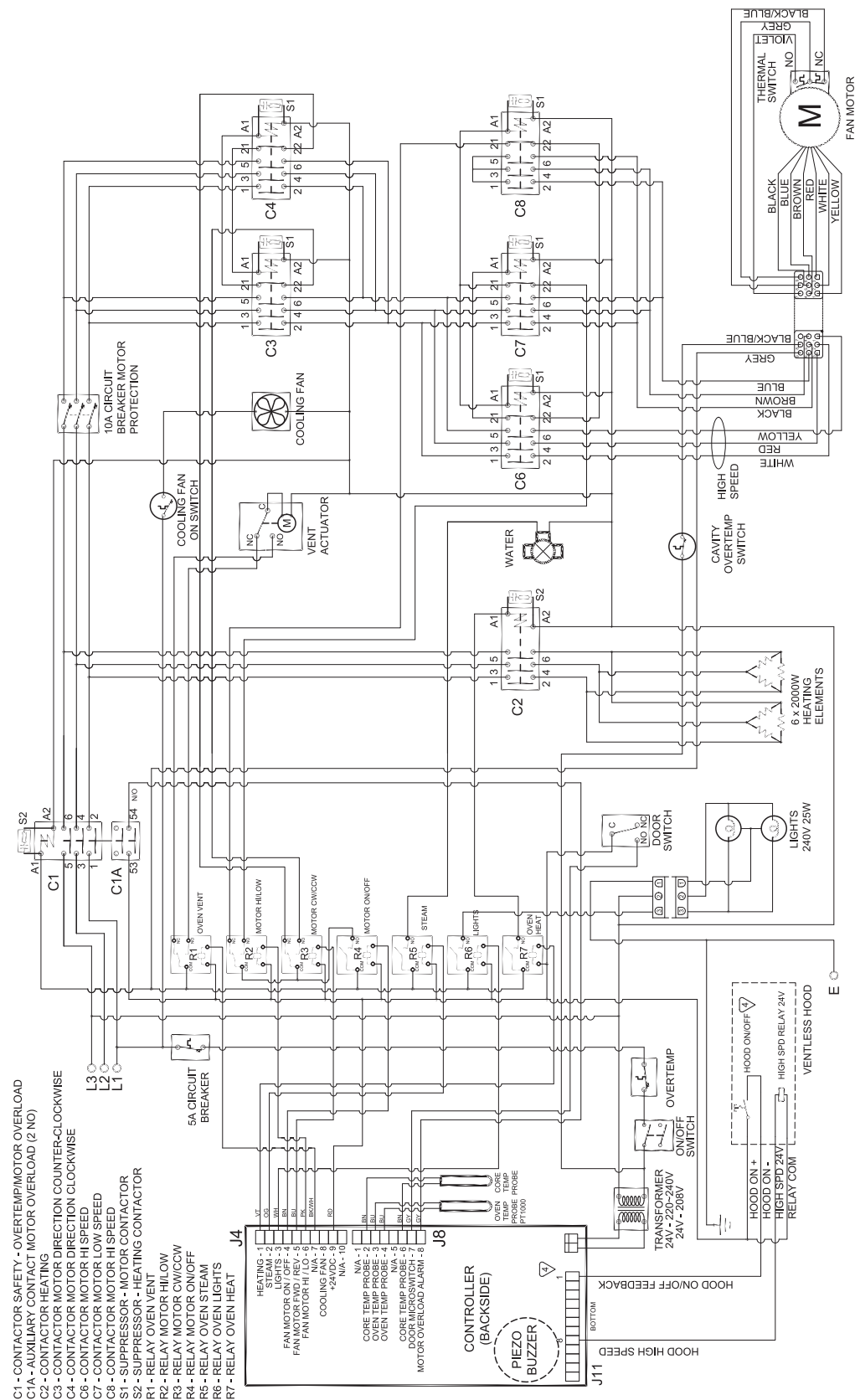
Do not place the oven close to a heat source. A minimum distance of 300 mm (12 inches) from the appliance sides and the heat source is required.

Electrical schematic

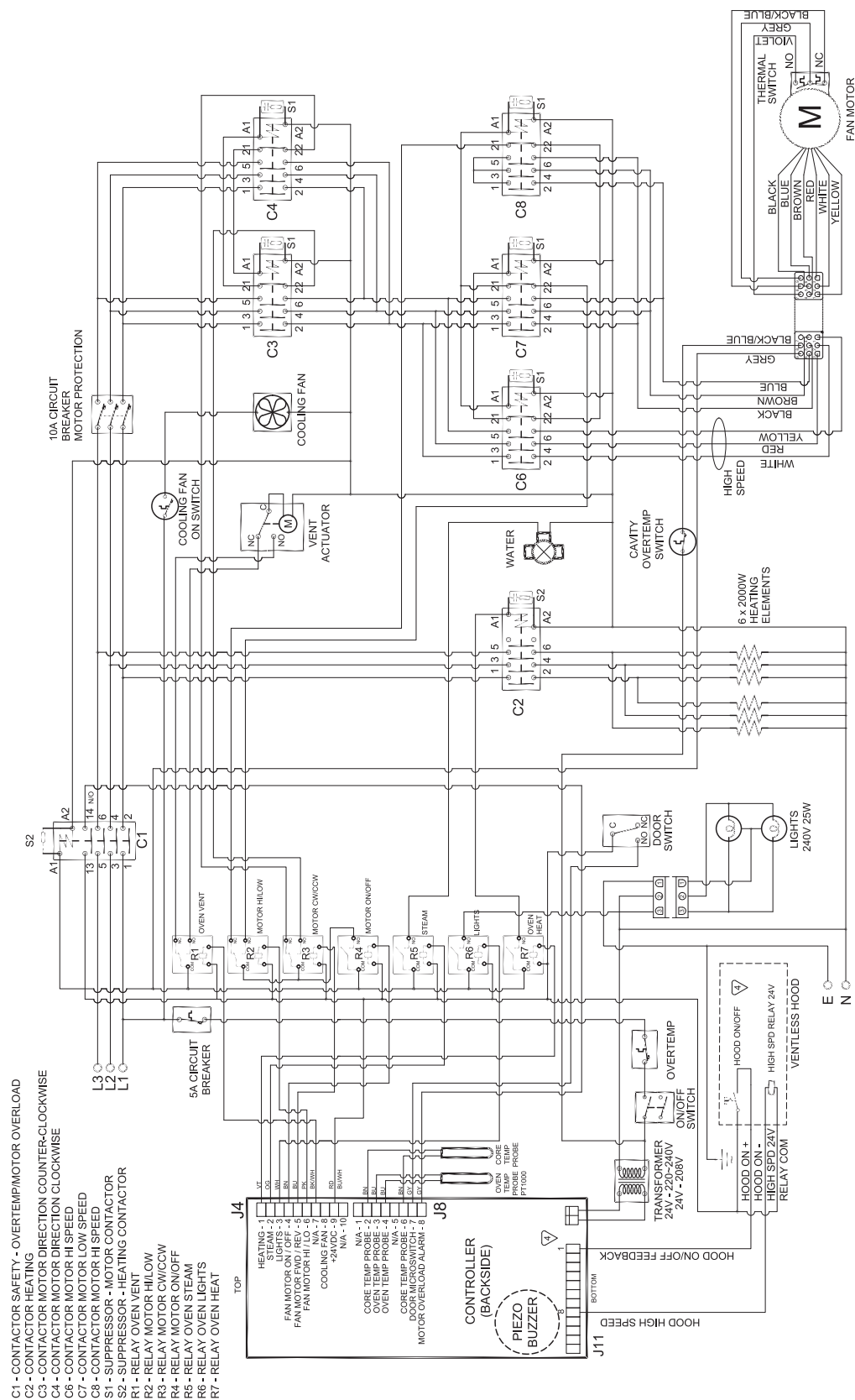
1-Phase (1P+N+E) 208-240 V



3-Phase (3P+GND) 208-240 V



3-Phase (3P+N+E) 390-415 V



INSTALLATION AND SETUP

Your oven is designed to provide years of satisfactory service, and correct installation is essential for the best performance, efficiency, and trouble-free operation. It is of utmost importance that this oven is installed correctly and that operation is correct before use.

⚠ WARNING

Installations must be carried out by qualified service persons only. Failure to install equipment to the relevant codes and the manufacturer's specifications in this manual will void the warranty.

⚠ WARNING

Components that are paint-sealed during manufacture shall only be adjusted by an authorised service technician. They shall not be adjusted by the installer.

⚠ WARNING

The oven installation must conform to national installation codes and local and national codes for fire safety.

Australia and New Zealand
AS/NZS 3000 Wiring Rules

United Kingdom
BS 6173 Installation of Catering Appliances.
BS 5440 1 & 2 Installation Flueing & Ventilation.

BS 7671 Requirements for Electrical Installation.

US and Canada
ANSI / NFPA70 National Electrical Code.
CSA C22.2 Canadian Electrical Code.

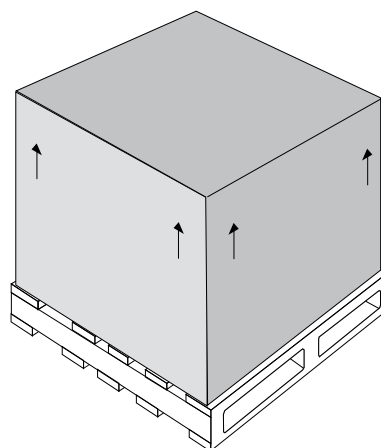
NOTICE

The oven installation must conform to national installation codes and local and national codes for plumbing and drainage.

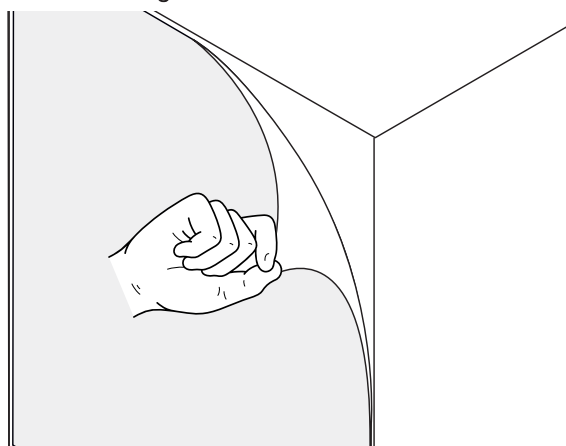
Australia and New Zealand
AS/NZS 3500 Plumbing & Drainage.

Europe
EN 1717 Protections of water installations.

Unpacking the oven



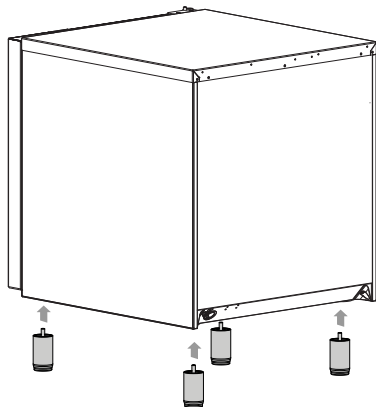
- Carefully remove all packaging and transit protection from the oven including all protective plastic coating from the exterior stainless steel panels.
 - ☑ Do not discard the carton and other packaging material until you have inspected the appliance for transit damage and have tested it for proper operation.
- Remove the protective film from the stainless steel panels, taking care not to scratch the surface if using a blade or shim.



- Check equipment and parts for damage. Report any damage immediately to carrier and distributor.
- Check that the supply specifications on the rating plate are correct for your location and installation requirements.
- Check that all parts are supplied with the product. See [Parts on page 18](#).

Assembling the oven

Fit the legs



Positioning the oven

NOTICE

This oven is intended to be installed on an elevated work surface, such as a bench top or onto the SK35 stand.

CAUTION

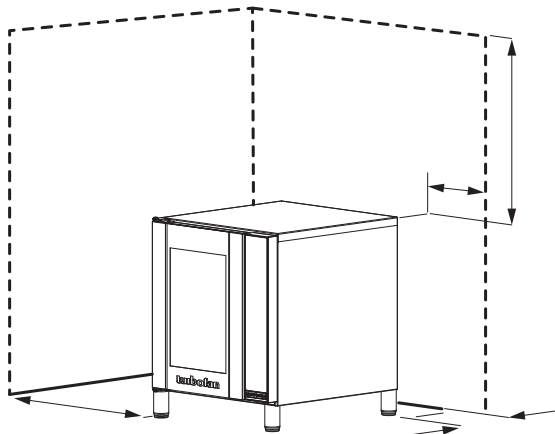
Position the oven so that the control panel and oven cooking area is easily reachable for loading and unloading.

NOTICE

Do not place the oven close to a heat source. A minimum distance of 300 mm (12 inches) from the appliance sides and the heat source is required.

WARNING

Do not block or obstruct the vent at the top of the oven.



Clearances

Position the oven with the following minimum clearances:

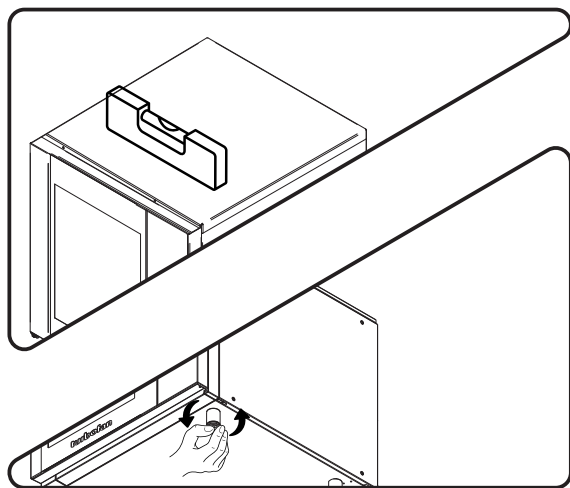
Top	200 mm (8 inches)
Left	50 mm (2 inches)*
Right	75 mm (3 inches)*†
Rear	50 mm (2 inches)
Front (recommended)	600 mm (23 inches)*

* Door-side clearance. If the oven is fitted with a right-hand side door (RMD), swap the left- and right-hand side clearances.

† Fixed installations require at least 500 mm (20 inches) clearance on right-hand side of the oven for service access. Do not place the oven close to a heat source. A minimum distance of 300 mm (12 inches) from the appliance sides and the heat source is required.

Levelling the oven

Correctly locate the oven into its final operating position and, using a spirit level, adjust the oven feet so that the oven is level and at the correct height.



Connecting the water supply (if required)

To activate steam-assisted cooking or baking for this oven it must be permanently connected to the mains water supply.

NOTICE

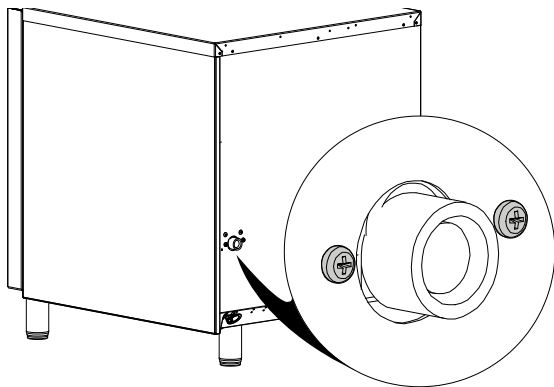
Water connection shall be installed in accordance with local water regulations in force and the applicable standard or code (for example, PCA in Australia, EN 1717 in UK / IE, and so on).

NOTICE

The water supply shall meet the requirements for use in Convection Oven systems. See [Supply requirements on page 7](#).

1. Tighten the two screws securing the water connection at the rear of oven.

- ☑ The securing screws are unfastened during manufacture to prevent damage to the water connection during transit.



2. Connect a cold water supply (R ¾ inch connector) to the water connection on the oven.
3. Turn on the water supply and check for leaks.

Connecting the electrical supply

Ensure that you meet the electrical connection requirements. See [Electrical connection requirements on page 7](#)

⚠ WARNING

All electrical connections must only be carried out by a suitably qualified person.

⚠ WARNING

The oven must be earthed (grounded).

⚠ WARNING

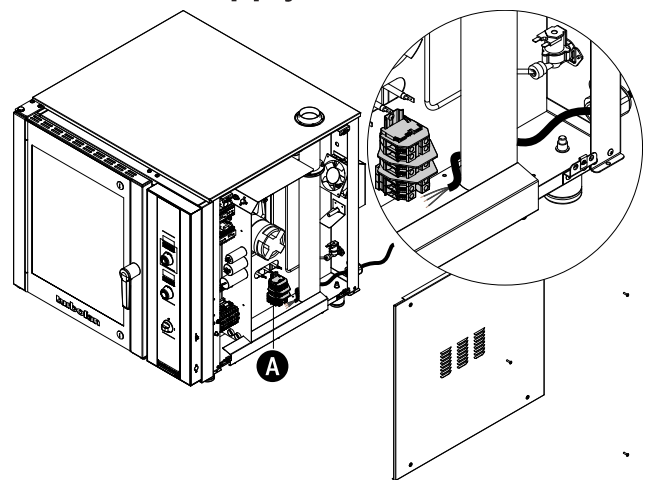
If the power supply cord is damaged, it must be replaced by a suitably qualified person in order to avoid a hazard.

NOTICE

Each oven should be connected to an adequately protected power supply with an appropriate power cord.

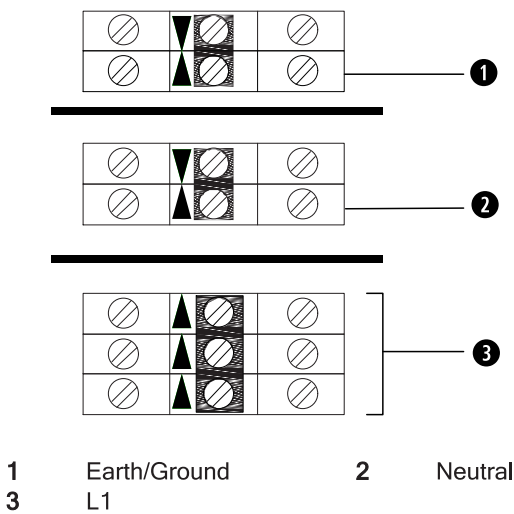
- ☑ Check that the electricity supply is correct as shown on the oven's rating plate.
- ☑ Ensure that a grommet is fitted around the wiring entry hole into the oven.

Electrical supply connection

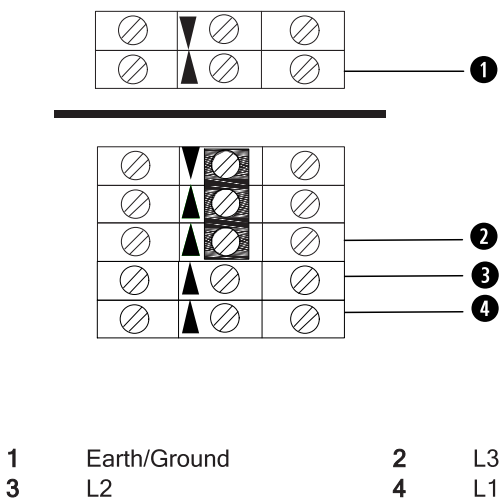


1. Remove oven right hand side panel.
2. Bring the supply cable through the compression gland at the back of oven.
3. Connect the mains supply to the appropriately marked terminals on the terminal block (A).
4. Connect supply plug to mains outlet.
5. Turn on the mains supply and ensure that the controller is powered-up.

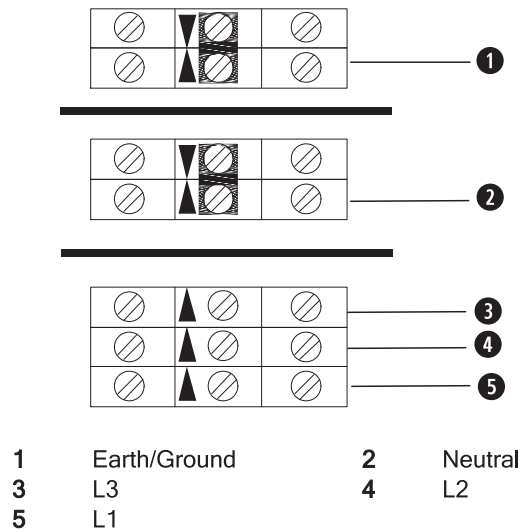
Terminal block wiring connection
1 Phase (1P+N+E) 208-240 V models



3 Phase (3P+E) 208-240 V models



3 Phase (3P+N+E) 380-415 V models



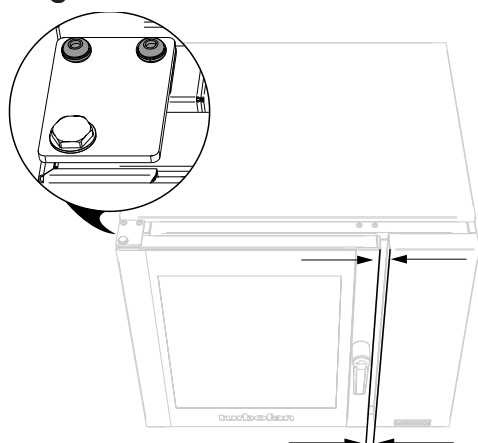
Adjustment and calibration

⚠ WARNING

Always turn off the electrical power at the mains supply before you access the oven's internal components.

Adjusting the door

Align the door with the chassis



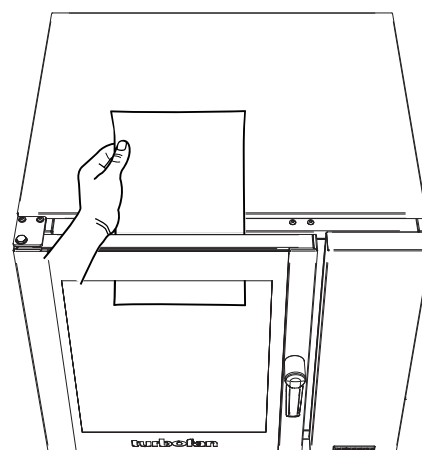
1. Open the door.
2. Loosen the two cap screws securing the top door hinge plate to the oven.
3. Adjust the position of the door horizontally and vertically until the door is correctly aligned.
4. Fasten the cap screws at the hinge plate and ensure that the door closes correctly.

Adjust the door seal

To check that the door seals correctly when it is closed:

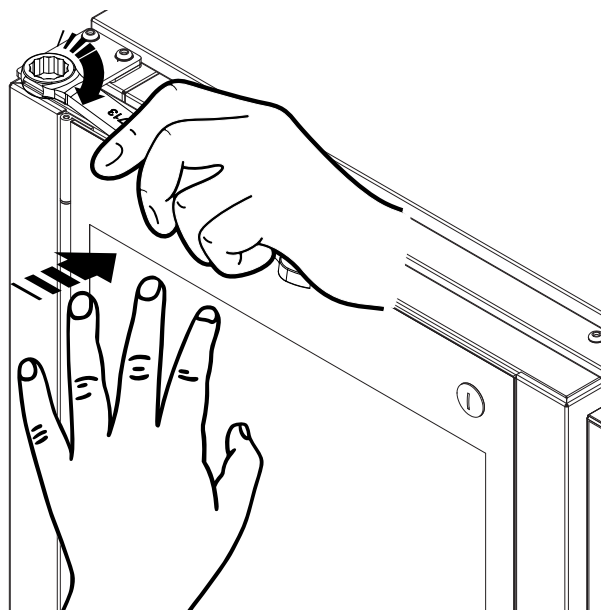
1. Place a sheet of paper between the door and the seal.
2. Close the door on the paper and attempt to withdraw the paper by firmly tugging on the paper.

The paper should just pull out with some resistance but without tearing.



Adjust the seal pressure

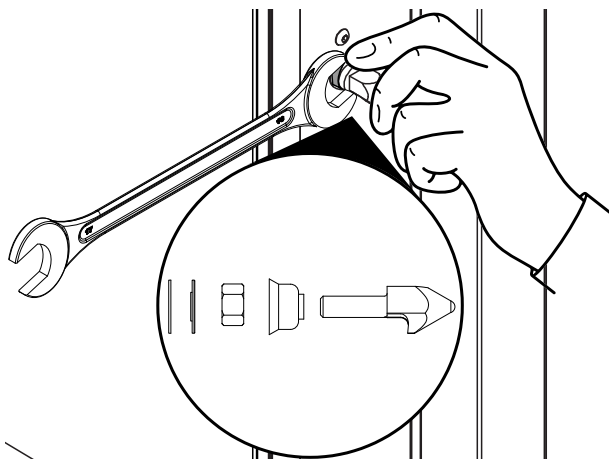
1. Close and latch the oven door.
2. Loosen the upper hinge pin.
3. Gently push against the top of the door near the hinge and tighten the hinge pin.
4. Repeat this procedure for the lower hinge.



Adjust the door catch

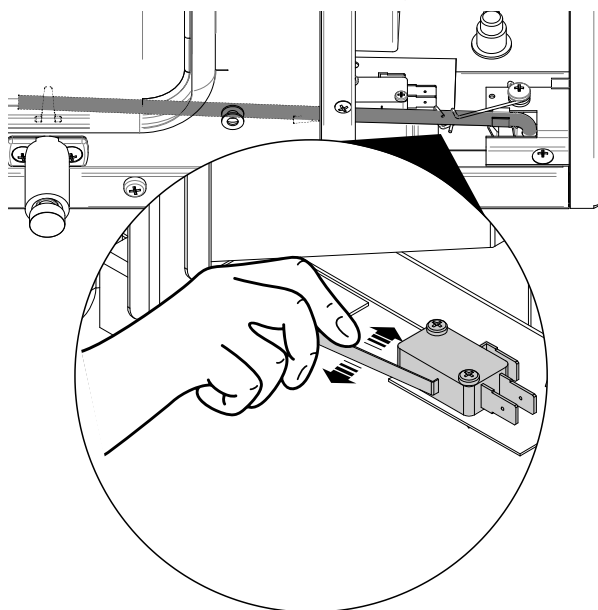
1. Open the oven door.
2. Pull back the neoprene to reveal the lock nut.
3. Slacken the lock nut.
4. Adjust the door catch to the required position.
5. Slam the door shut and ensure that the door is not a loose fit when it is closed and that pressure is maintained against the door seal.
6. Continue to adjust the door catch until the door shuts correctly.

7. Tighten the lock nut and reposition the neoprene seal over the lock nut.



Adjusting the door micro-switch

1. Remove the control panel.
2. Bend the micro-switch arm to adjust the micro-switch operation.
3. Open and close the ovendoor and check that the micro-switch operates correctly.

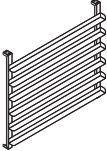
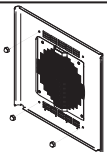
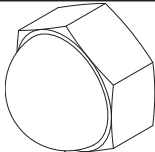


PARTS

Main parts

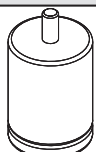
Supplied parts (fitted)

These accessories are supplied fitted with your oven, depending on your oven model and region.

	Part No.	Description	Quantity
	025916	Side Rack LH WA 4 Tray (26 inches)	1
	025917	Side Rack RH WA 4 Tray (26 inches)	1
	026127	Side Rack LH WA 5 Tray (26 inches)	1
	026128	Side Rack RH WA 5 Tray (26 inches)	1
	020809	Side Rack LH WA 6 Tray (26 inches)	1
	020810	Side Rack RH WA 6 Tray (26 inches)	1
	025089	Side Rack LH WA 8 Tray (26 inches)	1
	025090	Side Rack RH WA 8 Tray (26 inches)	1
	026590	Side Rack LH WA 4 Tray (30 inches)	1
	026591	Side Rack RH WA 4 Tray (30 inches)	1
	026786	Side Rack LH WA 5 Tray (30 inches)	1
	026787	Side Rack RH WA 5 Tray (30 inches)	1
	020811	Side Rack LH WA 6 Tray (30 inches)	1
	020812	Side Rack RH WA 6 Tray (30 inches)	1
	023018	Side Rack LH WA 8 Tray (30 inches)	1
	023019	Side Rack RH WA 8 Tray (30 inches)	1
	020993	Fan Baffle Assembly (30 inches)	1
	026654	Fan Baffle Assembly(26 inches)	1
	047735	Dome Nut M8 (for baffle)	4


Supplied parts (unfitted)

These accessories are supplied unfitted with your oven. See [Assembling the oven on page 13](#).

	Part No.	Description	Quantity
	232379	Adjustable Leg 3 inches (76 mm)	4

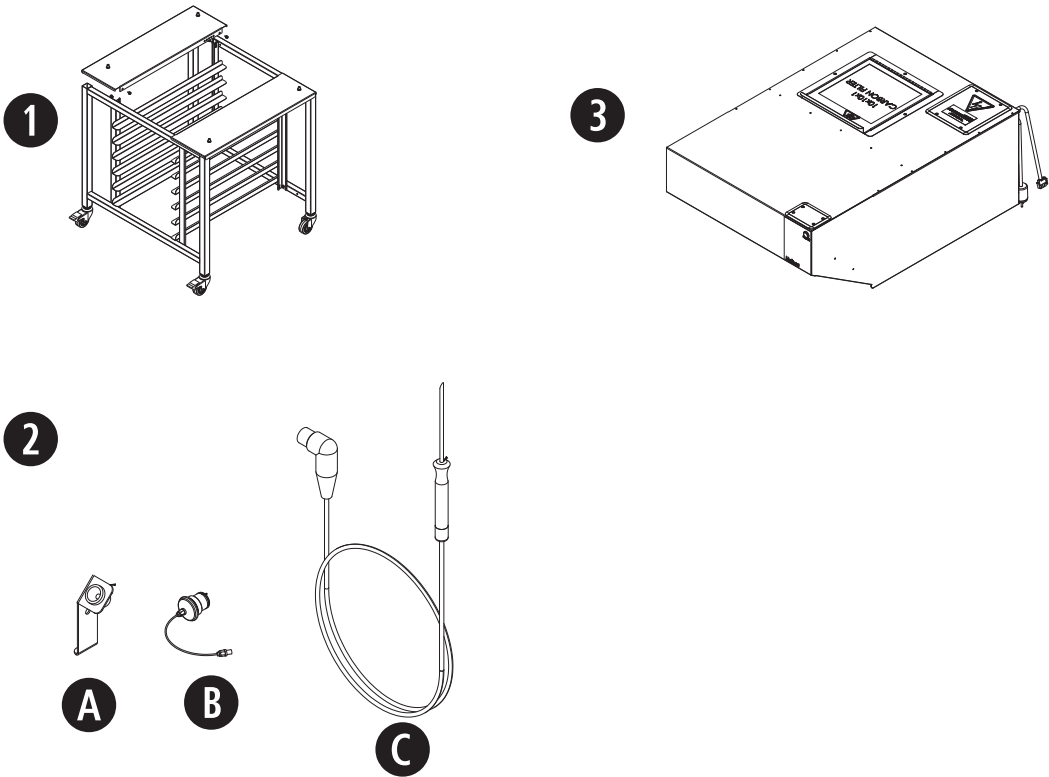
Supplied parts (optional)

These accessories may be optionally supplied, unfitted, with your oven.

	Part No.	Description	Quantity
	020993	Rack E35 - 30	6
	015168	-or- Rack E35 - 26	

Accessories

Accessories (add-on)



	Part No.	Description
1	—	SK35 Stand for E35T6-26 / E35T6-30
2	236060	Core Temperature Probe Kit
3	—	Ventless Hood <div><p>❗ IMPORTANT</p><p>The ventless hood cannot be installed on double-stacked units.</p></div>
Not shown	—	DSKE35-26C / DSKE35-30C Double Stacking kit - with adjustable castors
Not shown	—	DSKE35-26 / DSKE35-30 Double Stacking kit - with adjustable feet

COMMISSIONING

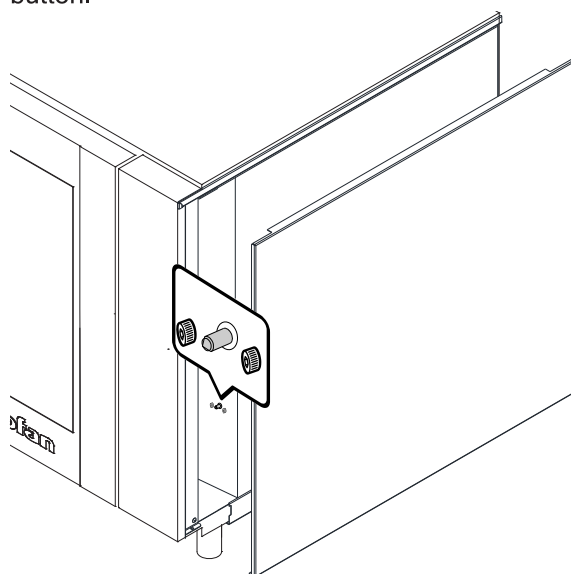
First use

⚠ CAUTION

Ensure that all packaging material has been removed from inside the Convection Ovenoven before using it for the first time.

Before using your new oven, operate the oven for about one hour at 200 °C (400 °F) to remove any fumes or odours which may be present.

- ☑ If the oven does not start on initial start-up, check that the over-temperature thermostat has not tripped during transit. Remove the side panel on the controller-side of the oven and press the over-temperature thermostat reset button.



Commissioning checklist

Before leaving the new installation, check that the oven functions in accordance with the operating instructions specified in the Use and Care manual. Complete the following checklist.

☑ If the oven does not operate correctly, turn off the oven, disconnect the power supply at the mains and contact the supplier of this oven.

Date _____

Installer _____

Pre-installation

- ☐ Delivered intact with all parts and accessories.
- ☐ No noticeable damage to the interior or exterior of the oven.

Installation

- Positioning and fitting
 - ☐ Adequate separation and/or isolation from other appliances and/or heat sources.
 - ☐ Adequate ventilation in installation area.
 - ☐ Correct door alignment including seals and hinges.
 - ☐ The oven is level with respect to the floor.
- Electrical connection
 - ☐ Adequate supply voltage.
 - ☐ Correctly grounded outlet.
 - ☐ Correct current draw and loading.
- Water connection
 - ☐ Adequate water supply pressure.
 - ☐ Water supply quality meets requirements.
 - ☐ Correctly sized water connector.

Operation

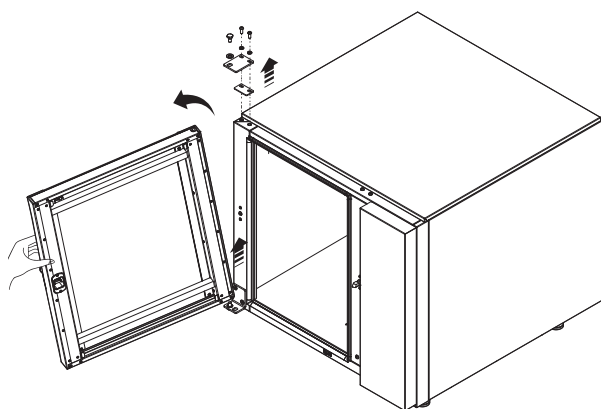
- Functionality
 - ☐ The oven lights work.
 - ☐ Thermostat functions correctly.
 - ☐ Check that the oven stops heating when it reaches the set temperature.
 - ☐ The oven controller operates correctly.
 - ☐ The oven is programmed with the correct date and time.
 - ☐ The door sensors function correctly.
 - ☐ Open the oven door and ensure that the controller displays the DOOR OPEN notification; close the door and ensure that the controller shows the main menu.
 - ☐ With the oven operating at a set temperature, open the door and check that the oven stops heating and the heating fan is off.
 - ☐ The oven heats to the set temperature.
 - ☐ Check that the oven set temperature matches the actual temperature.
 - ☐ The heating fan operates correctly.
 - ☐ The oven door seals correctly.
 - ☐ The oven door is correctly aligned.
- Operator training
 - ☐ The operator has been instructed in correct operation and safe shutdown of the oven.

REVERSING THE DOOR

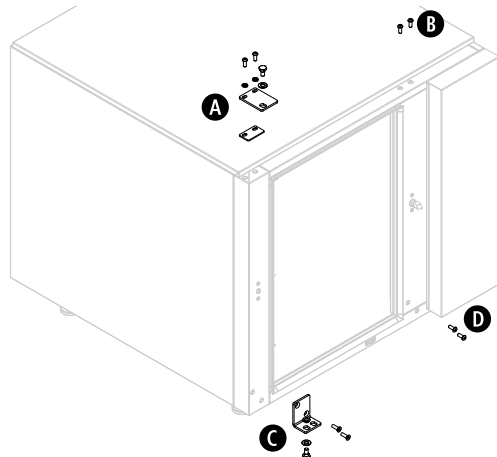
You can reverse the door orientation so that it opens from the right-hand side instead of the left-hand side of the oven.

Remove the door.

1. Close the oven door.
2. While supporting the door, remove the upper pivot pin and washer.
3. Carefully open the door and lift the door off the bottom locating pin.

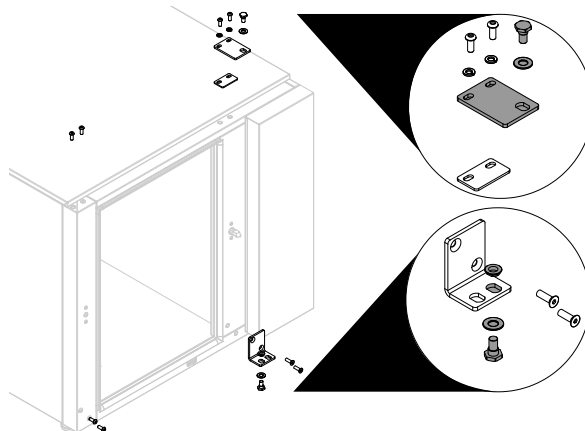


Remove the door hinges.



1. Remove the two cap screws that secure the top hinge mounting plate (A) to the oven.
2. Remove the top hinge mounting plate and spacer.
3. Remove the two hex screws securing the bottom bracket (C) and remove the bracket complete with nut and washer.
4. Remove the top blanking screws (B, D) from the opposite side of the door opening.

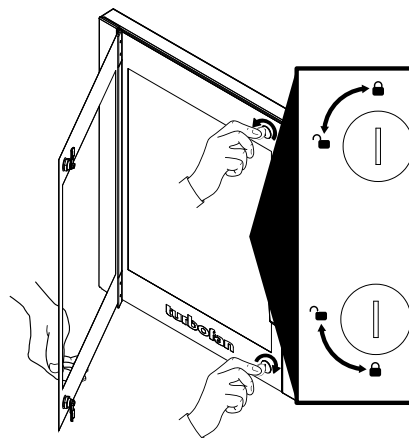
Fit the door hinges to the opposite side.



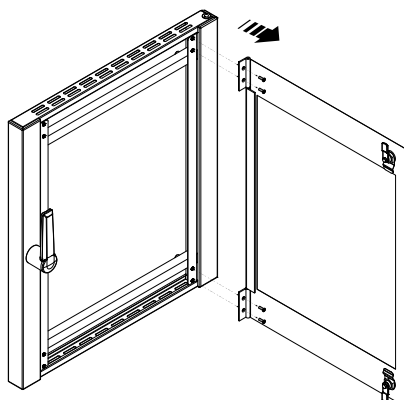
1. Fit the blanking screws from the opposite side of the door opening to where the hinge and bracket were removed.
2. Turn the top hinge mounting plate over 180°.
3. Fit the top hinge mounting plate together with the spacer to the top right-hand side of the door opening and secure it with the two cap screws and washers.
4. Remove the pivot pin, washer, and threaded insert from the bottom bracket.
5. Fit the threaded insert, lower pivot pin, and washer to the right hand hole in the bottom bracket.
6. Fit the bottom bracket to the other side of the door opening and secure it with the hex screws.

Remove door outer glass.

1. Unlock and open the outer glass to allow access to the outer glass hinges.

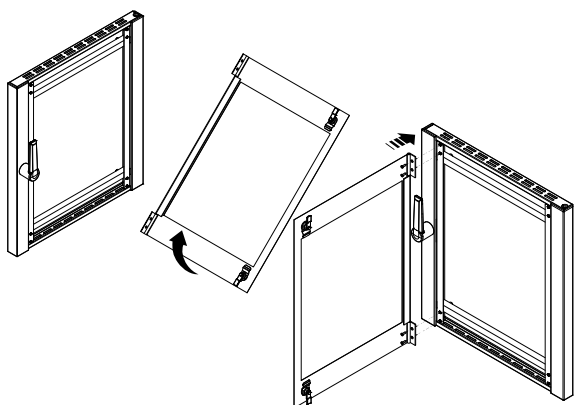


2. Remove the front glass from the oven door by removing the screws from the upper and lower hinges (two screws per hinge) and remove outer glass assembly.

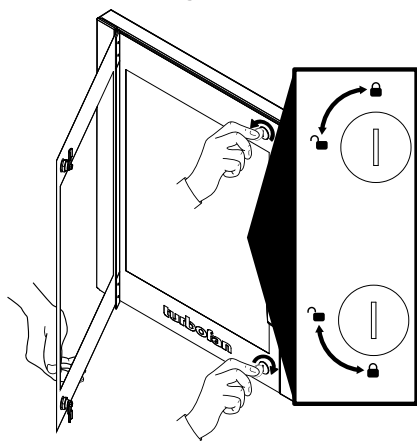


Reverse the door outer glass.

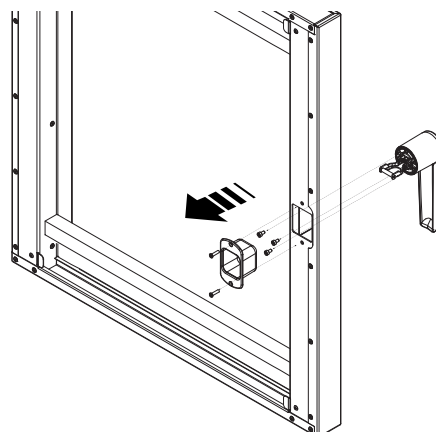
1. Rotate the outer glass 180° and fit it to the opposite side of the oven door. Ensure that the Turbofan logo is at the bottom of the door.



2. Secure the outer glass in the locked position.

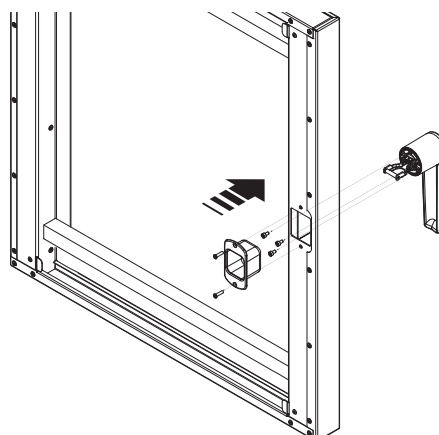


Remove the door handle.



1. Remove the 2 screws from the door catch cover and remove the cover.
2. Remove 3 capscrews inside the handle recess.
3. Remove the door handle.

Reverse the door handle.

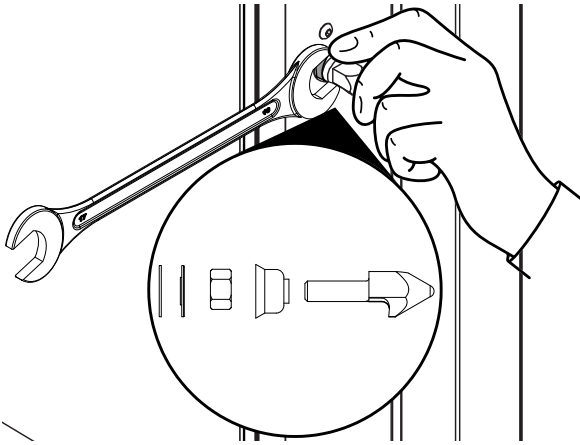


1. turn the handle around 180° and refit to the door.
2. Secure with the 3 capscrews.
3. Refit the door catch cover.

Remove the door catch

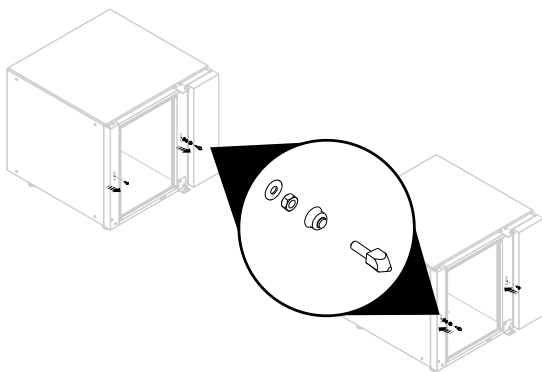
1. Pull back the neoprene seal to reveal the locking dog securing nut.

2. Slacken the locking nut unscrew the locking dog and remove locking dog, locking nut, and neoprene seal.



Relocate the door catch.

1. From the opposite side of the oven door frame, remove the centre cap screw and transfer to the old door catch position.
- ☑ Do not remove outer two capscrews.

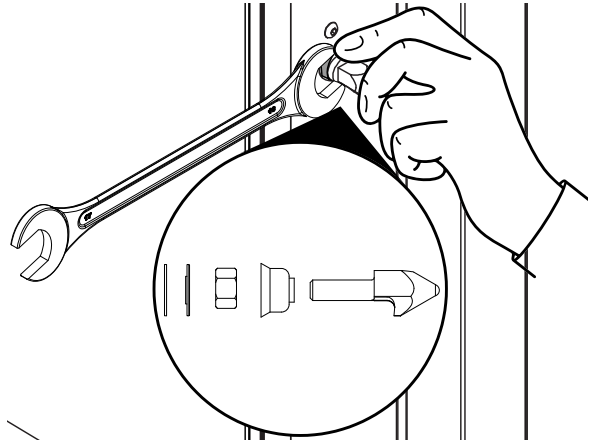


2. Fit the locking dog, nut, and neoprene seal to the opposite side of the door frame. See Fit the door catch below.

Fit the door catch

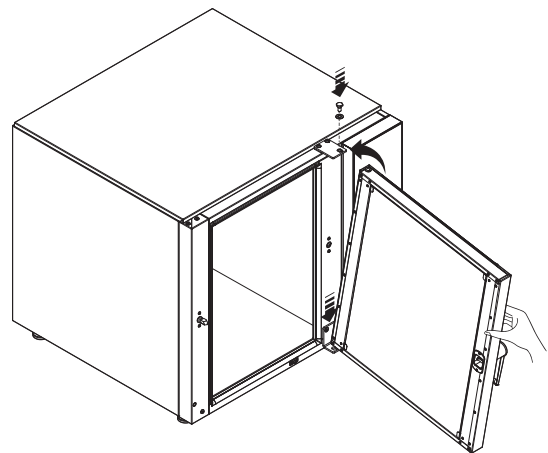
1. Fit the locking dog, nut, and neoprene seal to the door frame.
- ☑ Apply a suitable metal adhesive (for example, Permabond 1042) to the threads of the locking dog.
2. Screw the locking dog into the door frame and hand-tighten it as far as it will go.
- ☑ Ensure that the fibre washer is seated against the door frame and the stepped washer is seated over the fibre washer.

- ☑ Ensure that the locking dog is fitted with the hook facing downwards.



3. Slam the door shut and ensure that the door is not loosely sealed around the door frame. Adjust the locking dog if required. See [Adjusting the door on page 16](#).
4. Tighten the lock nut and reposition the neoprene seal over the lock nut.
5. Ensure that the door micro-switch operates correctly. See [Adjusting the door on page 16](#).

Fit the reversed door to the oven.



1. Fit the door onto the lower pivot pin.
2. Align the top of the door with the top hinge mounting plate and secure with the upper pivot pin and washer.
3. Adjust the door placement, micro-switch, and door locking dog. See [Adjusting the door on page 16](#)

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