

ECO Connect Plus Static Rack Oven

EN Installation and Operation



Product Version

- FG165 (Electric)
- ECO Connect+ touchscreen
- Variable fan speed
- Standard racks only
- UK specifications



Product Serial Number

Manual Revisions

Revision	Publication Date	Author	Description
A25	31-Jan-2025	CD	Added JAN-2025 cable statement to the electrical section.
			Corrected default passcodes.
B25	24-Apr-2025	CD	Updated electrical drawings.
C25	01-Jun-2025	CD	Added missing 'no drainage requirements' to specifications.

i MONO Rev. C25 (June 2025)

Thank you

Thank you for purchasing MONO's ECO Connect Plus Static Rack Oven.

Before using your new oven for the very first time, please read and familiarise yourself with the contents of this User Manual and keep it handy for future reference.

If you have any queries regarding your oven, please contact MONO Equipment directly:

- +44 (0)1792 561234
- sales@monoequip.com
- spares@monoequip.com
- techsupport@monoequip.com

We wish you the very best of success with your new professional ECO Connect Plus Static Rack Oven. Happy baking!

The MONO Team



Safety Symbols

The following safety symbols are used throughout this user manual (available electronically at **MonoEquip.com**). Before using your new equipment, read the user manual carefully and pay special attention to information marked with the following symbols.



DANGER

Indicates an immediate hazard with a high risk which, if not avoided, will result in death or serious physical injury.



WARNING

Indicates a potential hazard with a medium risk which, if not avoided, could result in death or serious physical injury.



CAUTION

Indicates a hazard with a low risk which, if not avoided, could result in minor or moderate physical injury.

Electrical Safety Notice

Advice regarding supplementary electrical protection

Commercial kitchens and food service areas are environments where electrical appliances may be located close to liquids, operate in and around damp conditions or where restricted movement for installation and service is evident.

The appliance installation and periodic inspection should only be undertaken by a qualified, skilled, and competent electrician and connected to the correct power supply suitable for the load as stipulated by the appliance data label.

The electrical installation and connections should meet the mandatory requirements of the local electrical wiring regulations and any safety guidelines.

We recommend:

- Supplementary electrical protection with the use of a residual current device (RCD)
- Fixed wiring appliances incorporate a locally situated switch disconnecter to connect to, which is easily accessible for switching off and safe isolation purposes. The switch disconnecter must meet the specification requirements of IEC 60947.

Your attention is drawn to the following: BS 7671:2018 – Guidance Note 8 – 8.13: Other locations of increased risk

It is recognised that there may be locations of increased risk of electrical shock other than those specifically addressed in Part 7 of BS 7671. Examples of such locations could include laundries where there are washing and drying machines in close proximity, and water is present, and commercial kitchens with stainless steel units, where once again, water is present. Where, because of the perception of additional risks being likely, the installation designer decides that an installation or location warrants further protective measures, the options available include:

- Automatic Disconnection of Supply (ADS) by means of a residual current device having a residual operating current not exceeding 30 mA;
- Supplementary protective equipotential bonding; and
- Reduction of maximum fault clearance time.

The provision of RCDs and supplementary bonding must be specified by the host organisation's appointed installation designer or electrical contractor and installed by a suitably qualified and competent electrician so as to comply with Regulations 419.2 and 544.2.



WARNING

- The supply to this machine must be protected by a 30mA-rated Type 'B' Residual Current Device (RCD).
- Always fit a wall-mountable isolator switch to isolate the oven from the electrical supply completely. The isolator must be visible, labeled as an emergency shutdown device, and easily accessible.

Water Leak Safety Notice



WARNING

Take action immediately to get a water leak fixed and prevent death or serious injury from electrocution.

It is essential to regularly check for any signs of a water leak from an oven installation. If there is evidence of a water leak, do not ignore it. Immediately report it to a manager or as applicable to your organisation.

Furthermore:

- Disconnect or completely isolate the oven from the electrical supply.
- Place an out-of-service notice on the oven.
- Contact your oven supplier or MONO Equipment for technical assistance.

Ovens must be maintained and serviced at appropriate intervals to ensure the oven operates at optimum levels.

Declaration of Conformity Certificate



Declaration of Conformity



We the manufacturer:

MONO EQUIPMENT

Queensway, Swansea West Industrial Park, Swansea SA5 4EB UK Machine:

FG Code:

Serial No:

Hereby declare that this machine conforms with and complies with the following directives:

- → The Machine Directive 2006/42/EC
- → The Low Voltage Directive 2014/35/EC
- → The Electromagnetic Compatibility Directive 2014/30/EU Incorporating Standards EN 55014-1:2017/A11:2022 & EN 55014-2:1997+A1:2001+A2:2008
- → The General Safety of Machinery and Food Processing Standards
- → Materials and Articles Intended to Come into Contact with Food Regulation (EC) No. 1935/2004
- → Good Manufacturing Practices (GMP) for Materials Intended to Come into Contact with Food
 - Regulation (EC) No. 2023/2006

A technical construction file for this machine is retained at MONO Equipment

MONO Equipment is a business name of AFE Group Ltd Registered in England No. 3872673

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QD 001 Dated 01/11/2022

General Notices

LEFT-HAND (LH) and RIGHT-HAND (RH) ovens

- Depending on the model code, static racks come in two orientations:
 - Right-Hand (RH) ovens have the main door hinged on the right-side and the touchscreen control panel is located on the left-side.
 - Left-Hand (LH) ovens have the main door is hinged on the left-side and the touchscreen control panel is on the right-side.
- See Dimensional Drawings for further information.

Contents

	Manua	l Revisionsi			
	Thank	youii			
	Safety Symbolsiii				
	Electrical Safety Noticeiv				
	Water Leak Safety Noticev				
	Declar	ation of Conformity Certificatevi			
	Genera	al Noticesvii			
Chapter: 1	Introd	luction			
	1.1	The MONO ECO Connect Plus Static Rack Oven1			
	1.2	More about the ECO Connect Plus Static Rack Oven 3			
Chapter: 2	Safety	/			
	2.1	Oven safety4			
Chapter: 3	Installation				
	3.1	Positioning the oven6			
	3.2	Water supply6			
	3.3	Ventilation7			
Chapter: 4	Touch	nscreen Operations			
	4.1	Basic operation8			
	4.2	Starting and operating using ready-made programs 9			
	4.3	Manual bake (no program mode)13			
	4.4	Creating a new program15			
	4.5	Multi Bake operation19			
	4.6	7-Day Timer operation21			
	4.7	Putting the oven into Standby mode23			
	4.8	Putting the oven into Sleep mode23			

	4.9	Setting the time and date	24		
	4.10	User settings (oven setup)	26		
	4.11	Factory settings (oven setup)	28		
	4.12	Changing the passwords	30		
	4.13	Diagnostics	32		
Chapter: 5	Isolation				
	5.1	Isolating the oven from the electrical supply	36		
Chapter: 6	Cleaning				
	6.1	Safety messages	37		
	6.2	Daily cleaning	37		
	6.3	Weekly cleaning	38		
Chapter: 7	Maintenance				
	7.1	Safety messages	39		
	7.2	General maintenance	39		
Chapter: 8	Servi	Ce Common			
	8.1	Contact information for customer services	40		
	8.2	Further information	40		
	8.3	Environmental disposal	40		
Appendix: A	Dimensional Drawings41				
Appendix: B	Specifications42				
Appendix: C	Passcodes45				
Annendix: D	Flectr	rical Drawings	46		

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1. Introduction

1.1. The MONO ECO Connect Plus Static Rack Oven

MONO Equipment's space-saving Static Rack oven is the perfect solution when a traditional 10-tray convection oven doesn't have the required baking capacity to meet production demands. By eliminating the need for the rotary function, valuable space has been saved, meaning up to 18 trays of products can still be baked to perfection but in a much smaller footprint. The Static rack oven uses a similar amount of floor space as many 10-tray convection ovens on the market.

The Static Rack oven is ideal for baking large volumes of part-baked and lighter scratch products. Combining the specially designed heating elements and triple fans ensures an even heat distribution throughout the baking chamber, resulting in a consistent bake every time. Also, the integrated steam generating system produces copious amounts of high-quality steam to create that perfect shiny crust on bread and rolls.

The oven features MONO's ECO Connect+ control panel, which delivers full-colour, highly intuitive touchscreen operations. The controller offers many energy-saving benefits like Auto Shutdown, 7-Day timer, Sleep Mode and Variable Fan Speed. In total, the controller can store up to 240 individual bake programs, each of which can be split in to 6 bake phases for complete control of the baking process.

This compact Static Rack oven is a highly versatile and valuable addition to any bakery.

Key features

- Variable Fan Speed for more delicate products
- Compact size for smaller bakeries
- Intuitive, touch-screen ECO Connect controller
- Integrated steam system
- 6-Phase baking options
- Automatic damper facility
- LED door-mounted lighting
- Available in right-hand or left-hand configuration
- Front access ramp

Key benefits

- Provides fantastic baking capacity in a footprint not much bigger than a 10-tray convection oven
- Accommodates any 30-in. x 18-in. or 60cm x 40cm heat proof rack
- Rapid heat recovery rate for continuous baking
- Includes many energy-saving features like Auto Shutdown and Sleep Mode
- Full-Load or Half-Load options
- No drainage is required
- Stores up to 240 programmes for instant recall



NOTE

Visit the ECO Connect Plus Static Rack Oven web page for the latest information about the ECO Connect Plus Static Rack Oven. Here you will find PDF downloads of the latest product literature and up-to-date product information.

Figure 1.1: ECO Connect Plus Static Rack Oven Features



- A. Glass-fronted door in left-hand configuration (see General Notices on page vii)
- B. Access ramp
- C. Touchscreen control panel (see Chapter 4)
- D. Main isolator switch (see Chapter 2)

1.2. More about the ECO Connect Plus Static Rack Oven

The ECO Connect Plus Static Rack Oven is an electrically heated oven that accomodates a single standard rack. A user-friendly eco touchscreen allows quick-and-easy selection of automated baking programs, either by touching a product image or a numbered program. Creating new automated baking programs, using the manual bake program or 7-day timer, and adjusting settings is equally simple. When not being used, the touchscreen can show your company logo.

Constructed from high-grade stainless steel and glass, the oven's interior and exterior surfaces are easily cleaned and afford a bright appearance. The large glass panel provides and excellent view of the baking progress. Furthermore, to optimise a bakery layout, the main oven door can be hinged on either side even if the oven is relocated after initial installation.

The high-speed fan, heating, and steam systems give efficient air circulation to produce a professional bake across a range of products via a diagonal cross-flow system with efficient air circulation. The steam system is connected to a standard water supply. (Pumps are available for very low-pressure areas).

Steam is generated within the oven chamber by means of a multi-point, water injection cascade. The amount of steam to be generated is controlled by means of a programmable time period on the control panel. No drain is required for the baking and steaming process of this oven.

Programmed damper control is provided as part of the programming controls.

2. Safety

2.1. Oven safety

Only fully trained and authorised persons are permitted to do any work on the oven. Qualified electricians must carry out all electrical repairs and maintenance. Always disconnect or completely isolate the power supply before starting any maintenance or cleaning work on the oven.

A responsible Bakery Manager or Supervisor must carry out daily safety checks. Bakery staff must not, under any circumstances, remove covers or panels to access any internal parts of the oven.



WARNING

- Before using the oven:
 - Check that all covers, panels, and cabling are secure.
 - Visually examine the oven for obvious damage/signs of tampering.
- If the oven is damaged, malfunctioning, or missing parts:
 - Stop using it.
 - Do not attempt any repairs to the oven.
 - Contact MONO Equipment for technical assistance.
- Never operate the oven with any covers or panels removed.
- All utility connections to the oven must comply with the statuary requirements of the country.
- Ensure this User Manual is read thoroughly before operating the oven.
 Operate and maintain the oven only as described in this user manual.



WARNING

- An electrical socket must be protected by a 30mA-rated Type 'B' Residual Current Device (RCD) before installation and commissioning of the oven.
- There should always be a local disconnection switch for any person to isolate the electrical power in an emergency. The disconnection switch must be visible, labeled as an emergency shutdown device, and easily accessible.
- Check the electrical requirements on the oven's information plate before plugging in the power cable and turning the power on for the first time.
 Contact MONO Equipment if the electrical ratings are incorrect for your site.
- Before installation, it is recommended that a qualified and competent electrician first tests the electrical outlet (power socket) for electrical safety.
- Always ensure your hands are dry before touching any electrical components, including cables, switches, and plugs.



CAUTION

- Be aware of hot surfaces:
 - Do not touch the oven door with bare skin.
 - Always use oven gloves when loading or unloading the oven.
 - Allow time for the oven to cool completely before cleaning it.
 - While baking (and for some time after use), touching the oven door or the surrounding panels is not advisable because of conducted heat.
- When removing products from the oven, ensure the following:
 - Tins are knocked out and stored directly onto a tin storage trolley or rack. Do not leave hot tins on the floor or tables.
 - Trays are put into a rack and then wheeled to a safe cooling area.
- Fully train operatives before they use the machine. Anyone undergoing training must be under direct supervision of someone experienced.
- Ensure there are no trip hazards around the oven, e.g. trailing cables.
- Check that the floor around the oven is not slippery, e.g. no liquid spills.
- Do not store items on top of or behind the oven.
- Never climb onto the roof of the oven.
- Only use the oven for baking bread, pastries, and cakes. Contact MONO
 Equipment for other product-baking machines.
- No unauthorised modifications to the oven are permitted.

3. Installation

3.1. Positioning the oven

- The ECO Connect Plus Static Rack Oven is designed to operate as a freestanding unit and must not be bolted down or fixed to the floor in any way.
- The floor beneath the oven must be:
 - hard, smooth, and level (ideally, concrete)
 - clear of any obstructions, and
 - a minimum thickness of 150 mm (6 inches)
- Allow room for servicing and general maintenance such as cleaning.
- The foundation must be flush with the overall bakery floor because racks are wheeled up a ramp into the baking chamber. The ramp is supplied with the oven.
- A minimum headroom clearance of 3 metres (180 inches) between the floor and the bakery ceiling is required at all times.
- If not selected when ordering the oven, an extraction hood should be placed above the oven to disperse excess steam and heat that could adversely affect the bakery ceiling and ambient temperature.

3.2. Water supply

- Connect the ECO Connect Plus Static Rack Oven to a suitable water supply after checking pipes are flushed out to remove all foreign bodies, i.e. flux or solder. Each oven is supplied with a 1 metre, flexible hose with ¾-inch BSP connections at both ends.
- It is the responsibility of the customer to install and maintain:
 - an adequate supply to the oven which complies with local and national water regulations.
 - an efficient water-softening device to protect the supply to the oven in a hard-water area.
 - protection against back-flow in the supply.
- No drain is required unless fitting a condenser.
- A water conditioning unit is recommended.
- See Appendix B for minimum water supply requirements.



NOTE

 Customers are responsible for installing and maintaining an adequate water supply to the oven, which should comply with local water regulations. Check with your local water authority.

3.3. Ventilation

It is the customers' sole responsibility to arrange for adequate ventilation. Ventilation should be sufficient to ensure water does not condense on or around the oven.

- Allow a 50 mm (2-inch) gap at the sides and rear of this oven for air flow.
- Chimneys and evacuation ducts fitted above MONO ovens should be insulated.

It is recommended that evacuation of the oven baking chamber products is achieved with a hood covering the entire oven top and projecting beyond the front of the oven by 600 mm (23½ inches). The extraction rate from the hood should be approximately 1700 m³/h. The customer is responsible for providing adequate levels of make-up air if an extraction hood is fitted.

4. Touchscreen Operations

4.1. Basic operation

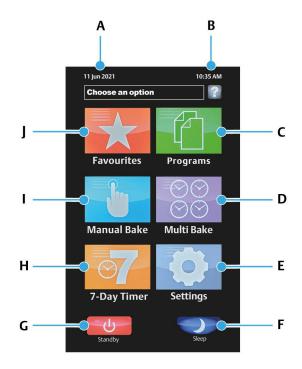
Operations are performed by touching an area of the screen to bring up another window or activate a function.



NOTICE

Do not use excessive force to operate the touchscreen panel.

Figure 4.1: Main ECO Connect Plus screen



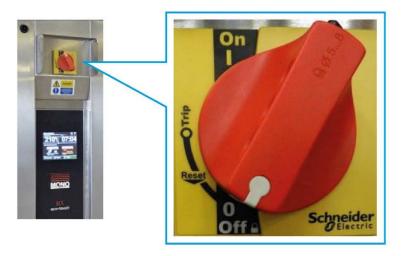
- A. Date
- B. Time
- C. Programs

- D. Multi Bake (Section 4.5)
- E. Settings (Sections 4.9 to 4.11)
- F. Sleep mode

- G. Standby mode
- H.7-Day timer (Section 4.6)
- I. Manual bake (Section 4.3)

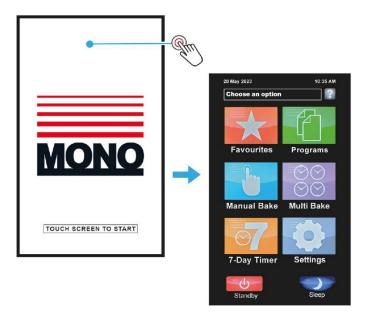
4.2. Starting and operating using ready-made programs

- 1. Ensure the power and water supplies are safely connected to the oven.
- 2. If the display is off, turn the main isolator switch on the oven to the "1" (ON) position.
 - Wait while the oven goes through the start-up sequence.

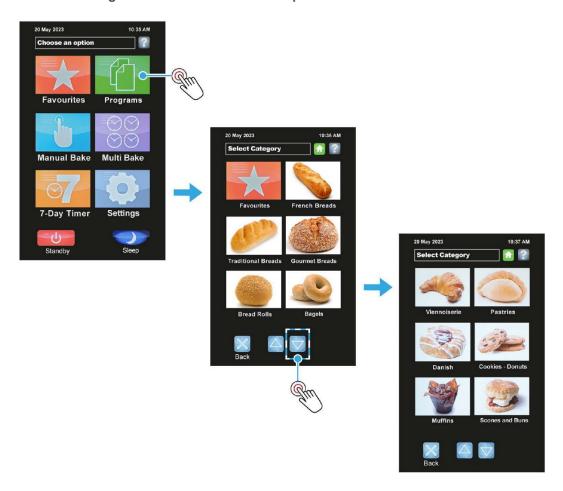


NOTE

- The images are for illustration purposes and may differ from your oven.
- 3. When the start-screen (wallpaper) appears, touch the screen anywhere to start operating the oven.



4. Touch the **Programs** tile on the **Choose an option** screen.

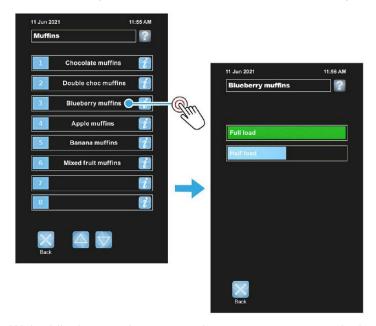


- **5.** Select a product category.
 - **a.** Touch the scroll up and down buttons to change category pages.
 - The Back button returns the display to show the Choose an option screen.
 - **b.** Touch the tile of a product type you require (e.g., muffins).
 - A list of recipes then displays for that product type.

NOTE

■ Tiles show a product group image or a program number group, depending on how the oven was factory configured.

- 6. Select a baking recipe.
 - a. Touch the baking recipe required (e.g., blueberry muffins).
 - **b.** If prompted, select **Full Load** or **Half Load** depending on the oven loading.
 - The half-load program reduces energy usage when the oven is not fully loaded with product.
 Some experimentation is needed to establish the optimal settings for a half-load program.

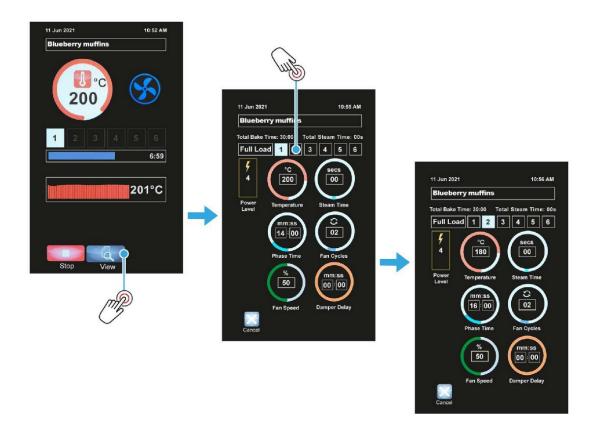


- 7. Wait while the oven heats-up to the temperature pre-set in the recipe program.
 - A HEATING message flashes on the screen.



- 8. Load the oven with products when **READY** flashes on the screen.
- 9. Touch **Start** to begin baking.

- **10.** During a bake, two actions can be performed:
 - a. Touch the **View** button to view settings during a bake.
 - Touch the numbered square (e.g., 2) to view the settings for different baking phases. The Cancel button displays the baking screen again for the present baking phase.
 - **b.** Touch the **Stop** button to stop a bake at any time.





NOTE

- The actual oven temperature fluctuates. It may briefly drop below, or rise above, the required temperature by a few degrees during baking. This is normal and not a malfunction of the oven.
- To minimise heat loss from the oven, do not leave the oven door open for longer than needed. The oven will automatically recover from the heat lost when the door is closed.

4.3. Manual bake (no program mode)

- 1. Touch the Manual Bake tile.
- **2.** Set the baking temperature:
 - a. Touch the **Temperature** circle.
 - **b.** Key in the baking temperature, and then touch the **OK** button.



- **3.** Set the baking time (if required):
 - a. Touch the **Timer** circle.
 - **b.** Key in the baking time required, and then touch the **OK** button.



- 4. Load the oven with products and touch **Start**.
- 5. During the bake, use the **Steam** and **Damper** functions if needed (see **Table 4.1**).
- **6.** When the timer is counting down and reaches **00:00**, a sounder is heard and a **BAKE OVER** message flashes on the screen. Touch **Stop** to silence the sounder.
- 7. Manual baking can be stopped at any time by touching **Stop**.

Table 4.1: Steam and Damper button functions

Button	Function	Purpose of the function
	Steam	After touching Start , touch the Steam button for the number of seconds wanted and release.
N	Damper	Touch the Damper button to open the damper, and touch again to close. (The button changes colour when the damper is open).

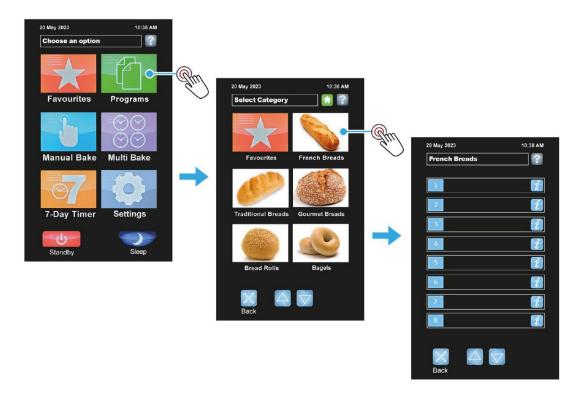
NOTE

If no baking time is set and the **Start** button is touched, the timer counts upwards until the bake is stopped by pressing the **Stop** button. (While the screen shows a **HEATING** message, wait until the oven reaches temperature before touching **Start**).

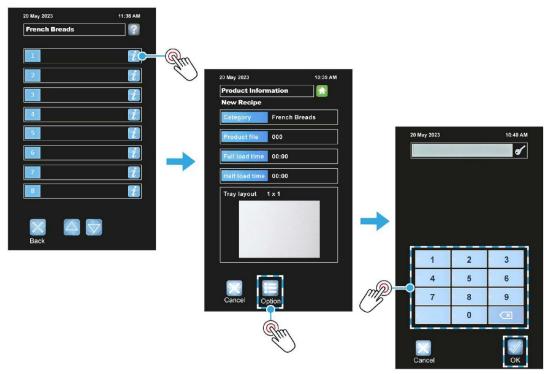


4.4. Creating a new program

- 1. Touch the **Programs** tile.
- **2.** Choose a category or number group.

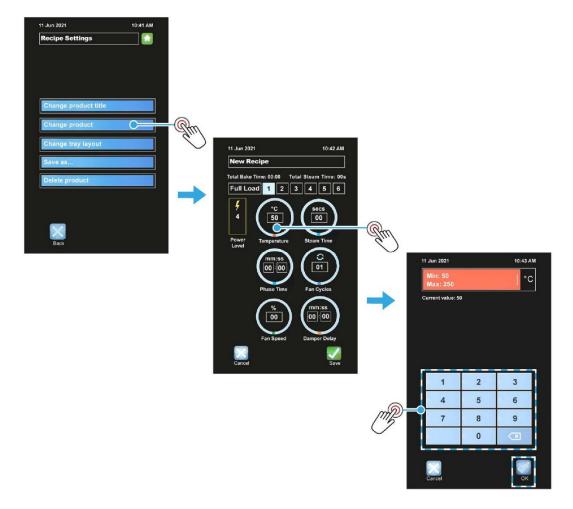


- 3. Touch the Info (i) button of the next free recipe slot.
- **4.** Touch the **Options** button.

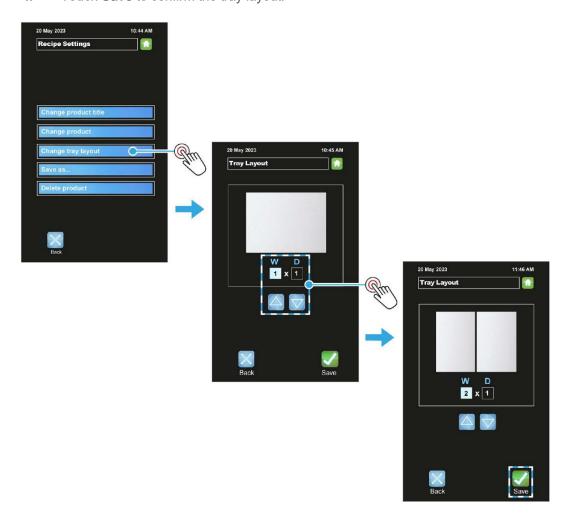


5. Enter the **Operator** password and touch **OK**.

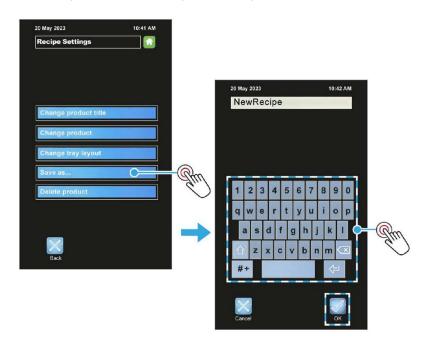
- **6.** Edit a product recipe:
 - a. Choose the Change product menu option.
 - **b.** Choose the **Full-load** or **Half-load** option.
 - **c.** Select a baking phase number e.g. **1**).
 - **d.** Touch an item:
 - Temperature, Steam time, Phase time, Fan cycles, Fan speed, Damper delay, or Power level.
 - **e.** Adjust the setting by typing the amount or, if they appear, using the up and down keys.
 - **f.** Touch **OK** to confirm the setting value.
 - **g.** Repeat steps (d) to (f) for each item needed in that baking phase.
 - **h.** If required, select the next baking phase (i.e. touch **2**) and adjust the items in the same way.
 - i. Touch **Save** to confirm the completed recipe settings.



- **7.** Edit a tray layout for the new product recipe:
 - a. Touch the Change tray layout box.
 - **b.** Touch the **W** (width) box to highlight it.
 - **c.** Use the up or down arrow key to change quantity across the tray.
 - d. Touch the **D** (depth) box to highlight it.
 - **e.** Use the up or down arrow key to change quantity down the tray.
 - **f.** Touch **Save** to confirm the tray layout.



- 8. Add the new product recipe to the list.
 - a. Touch the Save as... box.
 - **b.** Input a name for the product recipe, and then touch **OK**.



9. Touch the **Home** button to finish.

NOTE

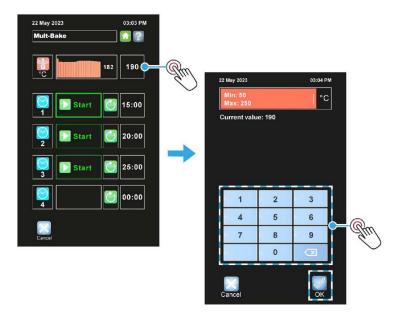
Default passwords for the various access levels are in **Appendix C**. However, for security reasons, the passwords section may have been removed.

4.5. Multi Bake operation

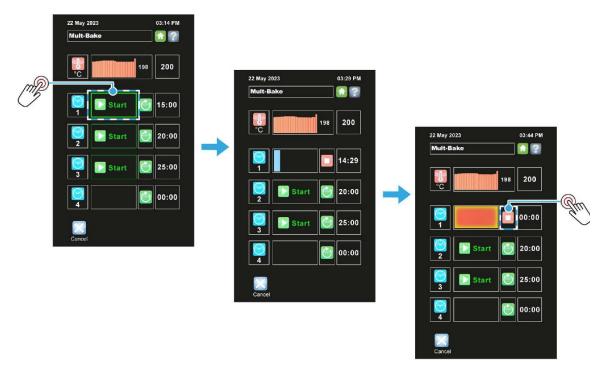
- 1. Touch the Multi Bake tile.
- 2. Set a timer:
 - a. Touch a time-setting box.
 - **b.** Adjust the bake time required using up and down keys, and then touch the **OK** button.
 - **c.** Repeat steps (a) and (b) to set up to four different bake time sequences, if required.



- **3.** Set the temperature for the bakes:
 - **a.** Touch the heat-setting box, and then type in the temperature required.
 - **b.** Touch **OK** to confirm the temperature.

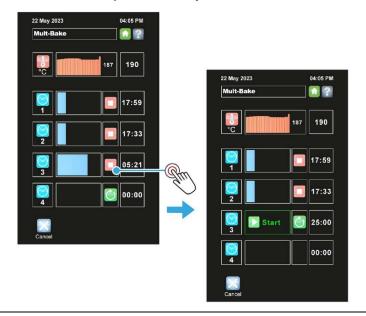


- **4.** Load the oven and then when ready to start a bake:
 - a. Touch the **Start** button (next to the bake time required).
 - **b.** Wait for the bake to finish.
 - c. Touch the **Stop** button next to the **00:00** time.
 - **d.** The same multi-bake settings can now be used again by pressing the same **Start** button.



NOTE

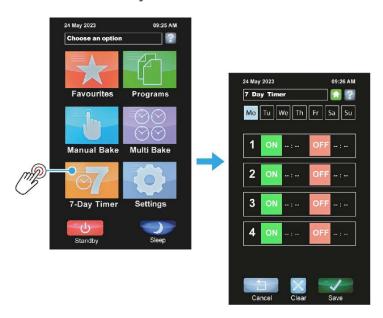
Touch the **Stop** button at any time to end a bake. The same multi-bake settings can be used again.



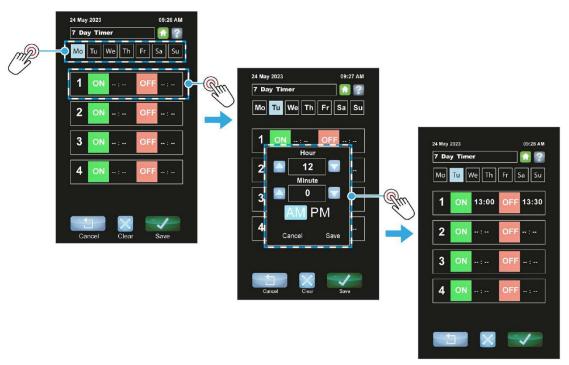
4.6. 7-Day Timer operation

While the oven is in **standby** mode, the baking chamber can be heated-up to a pre-set temperature at any time on any day. Up to four on/off heating times for each day of the week can be entered into the 7-day timer.

1. Touch the 7 Day Timer tile.



2. Touch a day of the week, e.g. "Tu" (Tuesday).



- 3. Set an **ON** time for that day:
 - a. Touch the **ON** tile of a time panel.
 - **b.** Set the time using the keys in the pop-up box that appears, and then touch **Save**.

- **4.** Set an **OFF** time for that day:
 - a. Touch the OFF tile of the same time panel.
 - **b.** Set the time using the keys in the pop-up box that appears, and then touch **Save** (A).
- **5.** If required, set up to three more on/off times for that day.
- **6.** Repeat steps (2) and (5) to set up on/off times for other days.
- 7. When finished, touch **Save** to confirm all the 7-day settings.

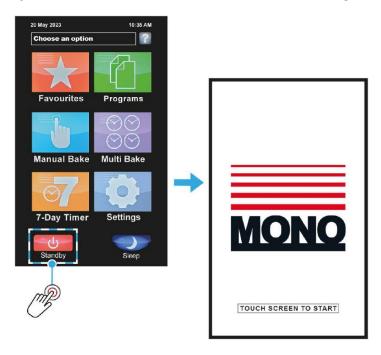


NOTE

Remember to leave the oven in **Standby** mode for this 7-day timer function to operate.

4.7. Putting the oven into Standby mode

The **Standby** button turns the oven off until the screen is touched again.



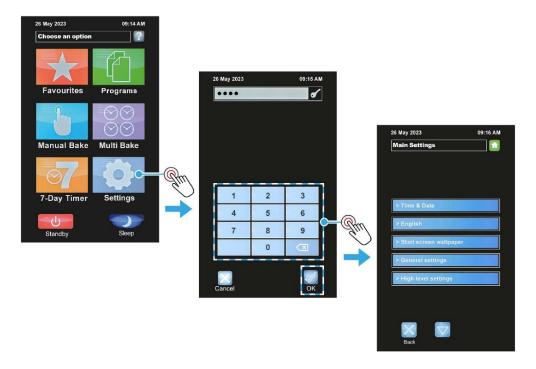
4.8. Putting the oven into Sleep mode

If enabled in the oven settings, the **Sleep** button instructs the oven to maintain temperature to a pre-set value.



4.9. Setting the time and date

- 1. Touch the **Settings** tile.
- 2. Enter the **Oven Settings** password, and then touch the **OK** button.

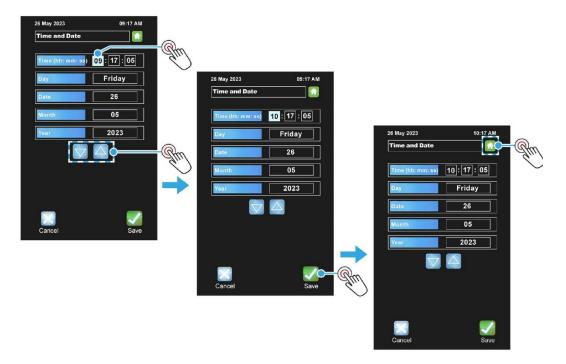


NOTE

- Default passwords for the various access levels are in **Appendix C**. However, for security reasons, the passwords section may have been removed.
- 3. Touch the **Time and Date** box.



- **4.** Touch the item that needs adjusting, and then use the up or down arrows as required.
 - The time, date, month, and year can be adjusted.
 - The day is not adjustable it automatically updates using the date, month, and year.



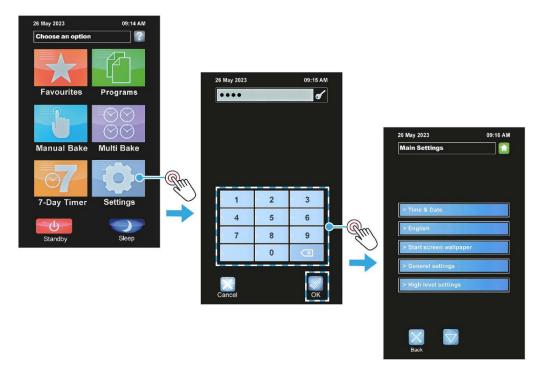
- **5.** Touch **Save** to confirm new settings.
- **6.** Touch the **Home** button to return to the main screen.

NOTE

See **Section 4.10** for more information about the user settings for the oven.

4.10. User settings (oven setup)

- 1. Touch the **Settings** tile.
- 2. Enter the Oven Settings password, and then touch OK.
- 3. Touch the **General settings** box.



- 4. Touch the **Left Arrow** and **Right Arrow** buttons to access the pages of oven settings.
- **5.** To make an adjustment, touch the item and change the setting.







Page 1 Page 2 Page 3

6. Touch the **Save** button when all the oven settings are set as required.

NOTE

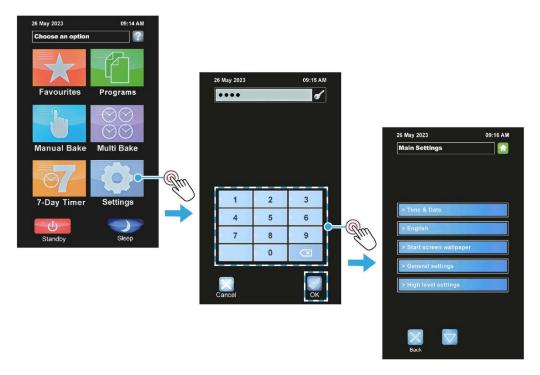
■ Default passwords for the various access levels are in **Appendix C**. However, for security reasons, the passwords section may have been removed.

Table 4.2: Oven settings explained (general level)

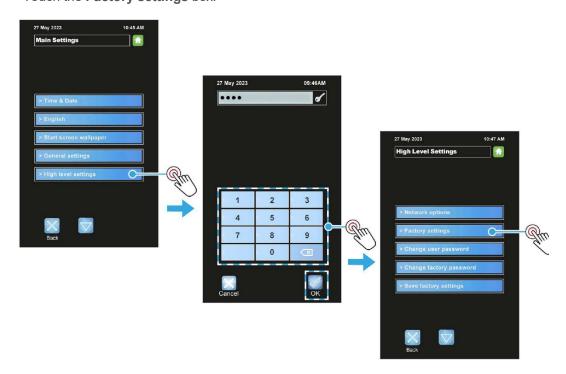
Oven setting	Description
Temperature Units	Centigrade (Celsius) or Fahrenheit.
Sleep Mode Delay	Oven will go into sleep mode after the set minutes, providing it is up to temperature and has been through at least one bake cycle.
8 Hour Switch Off Timer	After 8 hours the oven gives a warning and then turns off. Press any button for an extra hour if required.
Sleep Mode Enabled	Enable or disables the sleep mode button.
Start Baking With Door	This will start the set bake program as soon as the door closes.
Fan Direction	Fan operating modes.
Pre Bake Enabled	Enable or disables heating-up the oven to a preset temperature.
Pre Bake Set Temperature	Preset temperature setting for the pre-bake function.
Sleep Mode Fall Back Temp.	Preset temperature for the oven to maintain whilst in Sleep Mode.
Lights On With Door Open	Option to switch on the oven light whenever the door is opened.
Extra Time Minutes	Adjusts the extra time at the end of a bake for each "extra time" button press. Maximum setting is 10 minutes.
Dark Theme	Colour scheme selection.
Time Format	Preferred format for displaying the time of day.
Date Format	Preferred format for displaying the date, month, and year.
Displayed Temperature	Options to display different temperatures.
Power Level 1 to 4	Set these as required for each level to be used.
Chart Interval	Time interval in seconds that the bars show on the heat and bake time progress charts.
Screen Brightness	Adjusts the brightness of the viewing screen for user comfort.

4.11. Factory settings (oven setup)

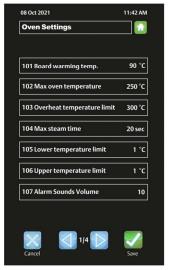
- 1. Touch the **Settings** tile.
- 2. Enter the **Oven Settings** password, and then touch **OK**.
- 3. Touch the **High level settings** box.



- 4. Enter the **High level settings** password, and then touch **OK**.
- 5. Touch the **Factory settings** box.



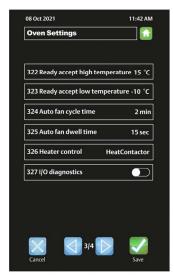
6. Touch the **Left Arrow** and **Right Arrow** buttons to access the pages of oven settings.



Page 1



Page 2



Page 3



Page 4

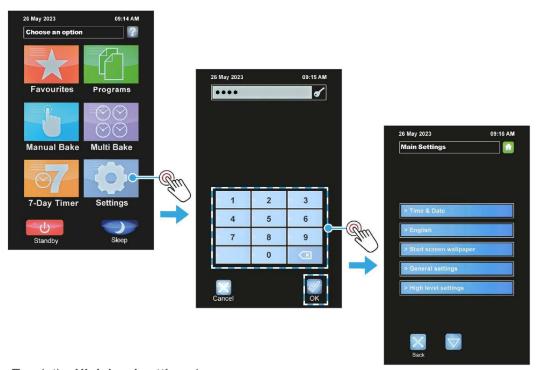
- 7. To make an adjustment, touch the item and change the setting.
- 8. Touch the **Save** button when all the oven settings are as required.

NOTE

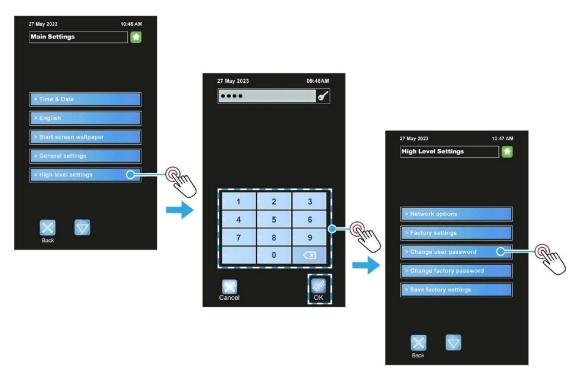
Default passwords for the various access levels are in Appendix C. However, for security reasons, the passwords section may have been removed.

4.12. Changing the passwords

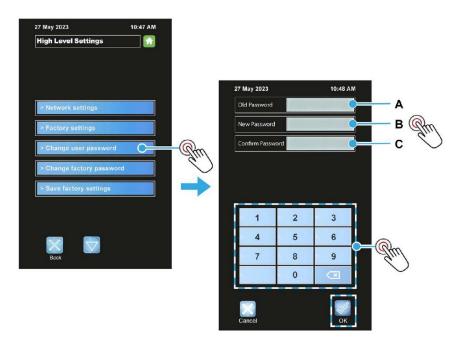
- 1. Touch the **Settings** tile.
- 2. Enter the **Oven Settings** password, and then touch **OK**.



- 3. Touch the **High level settings** box.
- 4. Enter the **High level settings** password, and then touch **OK**.



- **5.** To change the user settings password:
 - a. Touch Change user password.
 - **b.** Touch the **Old Password** box (**A**) and enter the current password.
 - **c.** Touch the first **New Password** box (**B**) and enter the new password.
 - d. Touch the second New Password box (C) and enter the new password again.
 - e. Touch the **OK** button.



- **6.** To change the factory settings (high level) password:
 - a. Touch Change factory password.
 - **b.** Touch the **Old Password** box (**A**) and enter the current password.
 - **c.** Touch the first **New Password** box (**B**) and enter the new password.
 - d. Touch the second New Password box (C) and enter the new password again.
 - e. Touch the **OK** button.

NOTE

■ Default passwords for the various access levels are in **Appendix C**. However, for security reasons, the passwords section may have been removed.

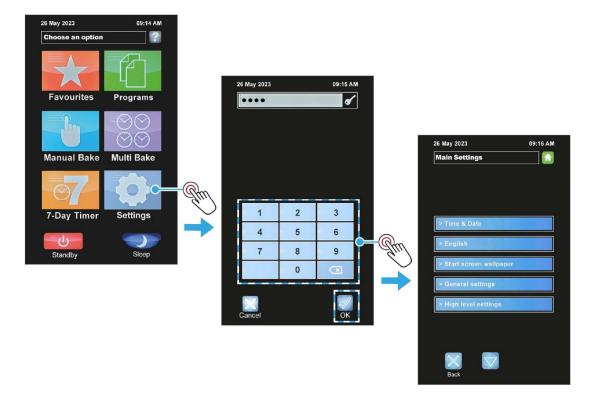
4.13. Diagnostics

The operation of the following items can be checked from the diagnostics screen:

•	Door switch operation	•	Fan forward	•	Lights on/off
	Fan overload	•	Fan reverse		Canopy
•	Overheat	•	Steam solenoid		Audio test
	Heater	•	Damper solenoid		Inverter (fan speed)

Diagnostics procedure

- 1. Touch the **Settings** button.
- 2. Enter the **Oven Settings** password, and then touch **OK**.



- 3. Open the Diagnostic screen:
 - a. Touch the Settings/Service panel.
 - b. Touch the **Down Arrow** button until the **Diagnostic** box appears.
 - c. Touch the **Diagnostics** box.
 - d. Touch **OK** to clear the **Attention** window.

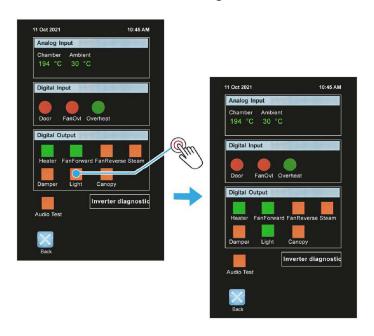


NOTE

Default passwords for the various access levels are in Appendix C. However, for security reasons, the passwords section may have been removed.

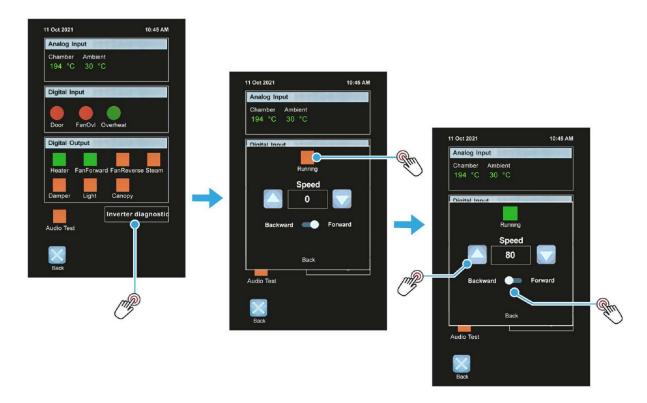
Using the diagnostics screen

- 1. Touch the item to be tested (e.g., **Light**).
 - The red square changes to a green square to indicate the testing is active.
- **2.** Touch the same item again to end the test.
 - The green square changes back to a red square to indicate the test is not active.
- 3. Touch the **Back** button to exit diagnostics mode.



Using the Inverter Diagnostic screen

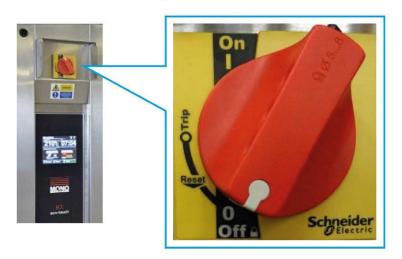
- 1. Touch the Inverter Diagnostic box.
- 2. Touch the red square (labelled as "running") to start the testing.
 - The red square changes to a green square
- 3. Use the arrows to increase and decrease the fan speed.
- **4.** Slide the direction option to the opposite position.
- **5.** Touch the green square (labelled as "running") to stop the testing.
 - The green square changes back to a red square
- 6. Touch Back to exit the screen.



5. Isolation

5.1. Isolating the oven from the electrical supply

To stop the oven in an emergency, switch off the electricity at the mains electrical isolator switch.





WARNING

Always disconnect the oven from the consumer power supply if working on the electrical box and panel. Some components stay electrically energised even after the main isolator is in the 0 (OFF) position.

6. Cleaning

6.1. Safety messages



WARNING

- Always disconnect or isolate the electrical supply and allow the oven to cool before cleaning.
- Be aware that the surfaces of the oven can remain hot for several hours.
 Wear protective gloves and appropriate clothing when cleaning.
- Do not remove any covers, panels, or pipe fittings for cleaning.
- Do not clean the oven while it is powered or operating.



CAUTION

- Clean the oven by following the daily and weekly tasks in this user manual.
- Use only a mild, chloride-free cleaning product on outside surfaces.
- Never use aggressive chemicals, i.e. solvents, thinners, etc.
- Take care that liquid does not enter the control panel or any of the other access covers/panels.
- Never spray the oven with water (or any kind of liquid) using a hose or pressure washer. Never use compressed-air jets on the oven.
- Care must be taken to not damage parts inside the oven.

6.2. Daily cleaning

Before undertaking this task, ensure the oven is disconnected or isolated from the electrical supply and that the oven and heating elements are completely cold.

Daily cleaning tasks

- 1. Sweep any debris out of the oven after it has been allowed to cool.
 - Cooling down could take several hours.
 - Use a vacuum cleaner if necessary, but only when the oven is completely cold.
- 2. Wipe the oven front, back and sides with a damp cloth.
- 3. Spot clean outside with a damp cloth, soaked in a solution of mild detergent and hot water.
 - Pay particular attention to ensure excess water is not applied near electrical panels.

6.3. Weekly cleaning

Before undertaking this task, ensure the oven is disconnected or isolated from the electrical supply and that the oven and heating elements are completely cold.

Weekly cleaning tasks

- 1. Complete the daily cleaning procedure.
- 2. Clean any burnt-on debris by scrubbing it with a stiff brush and, if necessary, a damp cloth.
- **3.** Use a nylon brush to scrub the cabinet wheels (if fitted) with a mild detergent and hot water.
 - Using too much water eventually rusts the metalwork.

7. Maintenance

7.1. Safety messages



WARNING

- Always disconnect or isolate the electrical supply before starting any maintenance work on the oven.
- Some components stay electrically energised even after the main isolator is in the 0 (OFF) position.



WARNING

- The ECO Connect Plus Static Rack Oven must be maintained at regular intervals. The frequency of maintenance will depend upon your specific use and location. The maximum service interval should be 12 months.
- Service and maintenance should only be undertaken by suitably qualified and experienced persons (SQEP).
- You must immediately report any damage or defect arising with the appliance.
- Unsafe equipment is dangerous. Do not use the appliance. Isolate the electrical supply and contact MONO Equipment or your appointed service agent.

7.2. General maintenance

The following general maintenance is recommended:

- Check for any visible damage or signs of tampering.
 - Do not use the machine if it is clearly damaged, i.e. frayed or bare wires are visible.
 - Report the damage but do not attempt to make any repairs yourself.
- Follow the cleaning instructions in Chapter 6.

8. Service

If a fault arises, please do not hesitate to contact MONO Equipment's Service and Spares department. Be prepared to provide the Serial Number from the machine's information plate or the front page of this User Manual in all communications.

8.1. Contact information for customer services

MONO Equipment Limited

Queensway Swansea West Industrial Park Swansea SA5 4EB United Kingdom www.monoequip.com

Contacts

spares@monoequip.com +44 (0)1792 564039

techsupport@monoequip.com +44 (0)1792 564041

service@monoequip.com +44 (0)1792 564048

Switchboard +44 (0)1792 564039

8.2. Further information

Visit **MonoEquip.com** the for the latest versions of this user manual. Also find up-to-date information about all MONO's products.

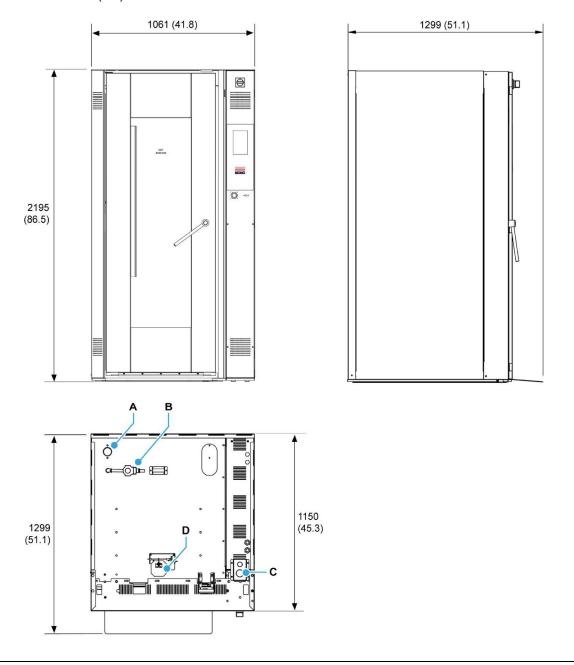
8.3. Environmental disposal

Dispose of the machinery with care when it comes to the end of its working life. Use the most environmentally-friendly manner possible by recycling or other means of disposal which complies with local regulations. Only dispose of the machine safely and legally. The Environmental Protection Act 1990 applies in the United Kingdom.

A. Dimensional Drawings

A.1 ECO Connect Plus Static Rack Oven dimensions

Figure A.1: Left-Hand (LH) ECO Connect Plus Static Rack Oven dimensions



Dimensions are in mm (inches) unless otherwise stated. All references to "LH" ovens mean that the main door is hinged on the left and the touchscreen control panel is on the right. Conversely, for "RH" ovens, the main door is hinged on the right and the touchscreen is on the left.

C. Water inlet

D. Oven damper

B. Oven pressure vent

A. Electrical inlet

41 MONO Rev. C25 (June 2025)

B. Specifications

B.1 Electrical specifications



WARNING

- Check that the electrical data on the oven's information plate. Contact MONO Equipment if there is a mismatch between the nameplate information and the mains supply at the site.
- An electrical socket must be protected by a 30mA-rated Type 'B' Residual Current Device (RCD) before installation and commissioning of the oven.
- The RCD is a safety device, which automatically switches off the supply if an earth fault develops. Test the RCD upon completion of the installation and quarterly for the lifetime of the oven.
- An experienced and qualified electrician must carry out all electrical work in accordance with national and local regulations.

Power supply

See Table B.1 for supply options.



The supply to this machine must be protected by a 30mA-rated Type 'B' Residual Current Device (RCD) prior to installation and commissioning.

Power cable

A power cable is not supplied with the oven. The customer is to supply the power cable in accordance with the appropriate regulations (see **Appendix A**. for the electrical inlet location).

Electrical panel

Membrane-operated touchscreen

Table B.1: Single supply specifications

Oven version	Voltage	Phase	Current	Total Power
Standard	415 Vac (50 Hz)	Three-phase +N +E	39 Amps per phase	28 kW ⁽¹⁾

⁽¹⁾ Heating output is 27 kW

B.2 Environmental specifications

Noise level Less than 85 dB

Ambient temperature Up to 40 °C (115 °F)

B.3 Mechanical specifications

Heights⁽¹⁾ 2195 mm (86½ inches) – outside

1900 mm (75 inches) - inside

Widths⁽¹⁾ 1061 mm (42 inches)

Depth⁽¹⁾ 1150 mm (45½ inches) - not including handle or access ramp

1299 mm (511/4 inches) - including handle or access ramp

1800 mm (71 inches) - when the door is open

Footprint 1.15 m^2

Weight To be advised

Tray size 600mm x 400mm, 30 inches x 18 inches, and 26 inches x 18 inches

Steam system Solenoid operated, high-mass water injection supply

Damper system Solenoid operated (automatic), trapdoor type

Max trolley size 560mm x 760mm (22 inches x 30 inches) footprint including bar

(1) See Appendix A for dimensions drawing.

B.4 Water specifications

The following water specifications are recommended for correct operation of the steam system:

Pressure range 2 to 5.5 bar (29 to 80 psi) - typical for domestic water supplies

Hardness range 0 to 4 grains per gallon

PH range 7.0 to 8.5

Chloride 0 to 30 ppm

Calcium 0 to 4 ppm

Magnesium 0 to 4 ppm

Alkalinity 0 to 20 ppm



NOTE

Customers are responsible for installing and maintaining an adequate water supply to the oven, which should comply with local water regulations. Check with your local water authority.

Drain No drainage is required

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C. Passcodes

C.1 Default passcodes

Table C.1: Default passcodes

Security access	Default passcode
Operator access (for naming and saving programs)	1111
Oven Settings access (time, date, etc.)	2222
High Level Settings access	3412

Suggestion

To stop unauthorised changes to the oven setup, it is suggested that this page is redacted or removed from this manual and kept in a safe place for future reference.

If tampering could be a problem, it is also a good idea to change the passcodes at regular intervals.

D. Electrical Drawings

D.1 Static Rack Oven electrical drawings

165E25-00010 Inverter and LED Lights Production Wiring	page 47
165E25-00011 Fan Motor Connections and Heating Element Wiring (1)	page 48
165E25-00015 Printed Circuit Board (PCB) Outputs	page 49
165E25-00016 24V Inputs and LED Light Wiring	page 50
165E25-00017 CJB Touch Controller Layout	page 51
165E25-00018 Fan Motor Connections and Heating Element Wiring (2)	page 52
165E25-00019 Heating Power Circuit Diagram	page 53

ECN NO. . <u>8</u> ECO CONNECT PLUS WITH INVERS 8 LED LIGHTS PRODUCTION WIR ING PRODUCTION WIR ING DRAWING NO. 165E25-00010 50HZ **3PHASE** 380/4157 MONO 813 .Sma²) 2.5mm² 200mm LG 666 666 **PT18C** 80TT0H MDT0R PT18B MIDDLE MOTOR TBJOLY ATOLET TOP MOTOR VIOLET PERMISS VIOLET 13.014 PTEMP (1.5ma GREEN/YELLOW RED BROWN YELLOW WRITTEN # PTEMP 11. PT21 **PT22** TBS PRIOR + - 0 m 2 Z + GREEN/YELLOW TB3- [4.0mm²] GREEN/YELLOW-TB1 (2.5mm²) SREEN/YELLOW-TB1 (2.5mm²) GREEN/YELLOW TB1- (4.0mm²) BLUE TB3-N (2.5mm²) RED PT98-L1 (2.5mm²) RED PT98-L2 (2.5mm²) RED PT98-L3 (2.5mm²) DIYULGED WITHOUT RED PT98-L1 (2.5nm²) RED PT98-L2 (2.5nm²) BLUE TB1-N (2.5ma²) BLACK PTSA-T1 BLACK PTSA-T2 BLACK PTSA-T3 BLUE PT10-L2 (1.5mm² BLUE 12.5nm²) TB1-N-N (2.5mm² RED PT98-L3 (2.5nn²) BLUE-TB1 (2.5nn²) RED PT98-L3 (2.5mm BLACK PT6A-T1 BLACK PT6A-T2 BLACK PT6A-T3 2200mm 32 MHITE PT22-31 WHITE PT22-21 BLUE TB2-N-N-N 12.5mm²
BLUE TB5-N (2.5mm²) WHITE TB2 +
WHITE PT7-RIC
WHITE J2-4 PCB PT21-12 PT21-22 PT21-32 31 RED PT98-L1 (RED PT98-L2 (BLACK PT4A-T1 BLACK PT4A-T2 32 WHITE PT9-A1
WHITE PT9-A2
WHITE PT15-A1 BLACK PT4A-T3 GREEN/YELLOW BLACK PT15-L3 (10.0nm²) BLUE TB4-N (2.5mm²) BLACK PTSA-1.2 (1.5mm²)
BLACK PT7-V (1.5mm²)
BLACK PT5A-1.2 (1.5mm²)
BLACK PT7-V (1.5mm²) L2 BLACK PT15-L2 (10.0nm²)
L2 BLACK PT3-A (2.5nm²) CONTENTS BLACK PTAA-L2 (1.5m²)
BLACK PTAA-L2 (1.5m²)
BLACK PTAA-L3 11.5m²)
BLACK PTAA-L3 11.5m²)
WHITE PTAB-44 L1 BLACK PT15-L1 (10.0nm²)
L1 BLACK PT2-A (2.5mm²) BLACK PTSA-L1 (1.5mm²) BLACK PTSA-L2 (1.5mm² BLACK PTSA-L3 (1.5mm² 13 RED PT98-L3 110.0mm²) T2 BLACK PT9A-L2 (10.0nm²) T3 BLACK PT9A-L3 (10.0nm²) A2 GREEN/YELLON 186 & GREEN/YELLON 196 & GREEN/YELO 71 BLACK PT9A-L1 (10.0nm² T1 RED PT98-L1 110.0mm² (4.0mm²) PANEL RED PT30A (2.5m²)
RED PT30B (2.5m²) WHITE PT48-34 WHITE PTS8-44 → GREEN/YELLOW TB2- (4.0mm²) WHITE PTSB-34 WHITE PT22-22 # GREEN/YELLOW - FRONT EARTH STUD - 11.5mm GREEN/YELLOW TB4-WHITE PT12. + WHITE J3-2 PCB WHITE PT15-A2 WHITE PT10-A1 -E BLUE PT14-N BLUE TB6-12 # FE £, E 2 2 5 PT58 PT9A PT15 PT48 PT6A P16A PT68 **PT8B** _ \mathbb{C} 1 2 1 33 77 GREEN/YELLOW T91- 14.0mm²) BLACK TB3-2 (1.0mm²) (1.0mm²) 3LACK TB4-2 (1.0mm²) BLACK TB4-1 (1.0mm²) 3LACK TB4-3 (1.0mm²) BLACK TBS-1 (1.0nm²) BLACK TBS-2 (1.0nm²) BLACK PT15-T2 (10.0mm² BLACK PT15-T1 (10.0mm² 3LACK TB5-3 (1.0mm² PT9A-T1 (10.0mm²) M.ACK TB1-L3 (10.0mm² LACK TB1-L2 (10.0mm² LACK TB1-L1 (10.0nm TB1-N (2.5mm²) REEN/YELLOW TB6 H WHITE PT68-43 WHITE PT68-33 WHITE PT59-43 WHITE PT58-33 WHITE J2-3 PCB WHITE J1-2 PCB WHITE PT48-33 WHITE J1-4 WHITE PT22-32 WHITE PT7-R1A MITE PT22-12 BLACK TB3-3 MITE PT10-A2 WHITE PT8-6 TB6-10 NOT HITE PT9-A1 WHITE PT8-8 #ITE TB6-7 N-ZBI BUJB AUX MUST RED PT37A TB2 AND BLACK TB1-L1 (2.5mm²) BLACK PT4A-L3 (1.5mm² GREEN/YELLOW-TB1-⊥ BLUE PT7-L2 (1.5mm (1.5MM) PT7-L1 (1.5mm² N-S8T BULB TB1-L2 (2.5mm²) BLACK PT4A-L2 (1.5nm²) FAN 딘. 85E19 039 TB2 MHITE J3-6 PC8 cs WHITE TB2 + PT4A-L1 (1.5nn²) PT2-8 PT37-/ PT35-A WHITE STEAM EQUIPMENT A RED F WHITE TB2-2 BLACK . 띪 1800g CREEN/YELLOW TB2 PT3 A -PT7 INVERTER A2 14 14 17 17 11 22 1.5 KW ALTIVAR 12 7-81d 311HM PT2 4 FUSE-AUX < MONO E-BTG 3TIHW B PT36 L2 PT10 E F PREEN/YELLOW TB2 DDDR SWITCH WHITE J2-3 PCB -. . PROPERTY OF 7 A1 13 13 13 12 12 12 13 21 21 21 MHITE JZ-1 PCB R1A SREEN/YELLOW TB2 BLUE-PT10-T2 (1.5MM² RED-PT10-T1 (1.5MM² TB1-N- (1.5mm² 1.5mm² PT3-B (1.5mm²) MHITE J3-7 PCB PT68-44 WHI TE-PT21-21 IS THE REO PT14-L REO PT35A WHITE PT8-5 RED TB6-11 TB2 RED TB6-9 186 된 THIS DESIGN/DRAWING WHITE J3-8 PCB ELLOW (1.5mm²) WHITE TB2 + WHITE TB2 -BLUE TB2 N-N-N GREEN/YELLOW TB2 WHITE TB2 -MAIN PCB LEAD RED PT2-8 + DC 24v P. - L N 🗇 IF IN ANY DOUBT - ASKI -, 1998 WHITE TB6-4 WHITE PT68-34 WHITE PT21-31 WHITE TB6-8 WHITE TB6-2 WHITE PTB-7 WHITE TB2+ PT-14 COPYR I GHT

Figure D.1: 165E25-00010 Inverter and LED Lights Production Wiring

Figure D.2: 165E25-00011 Fan Motor Connections and Heating Element Wiring (1)

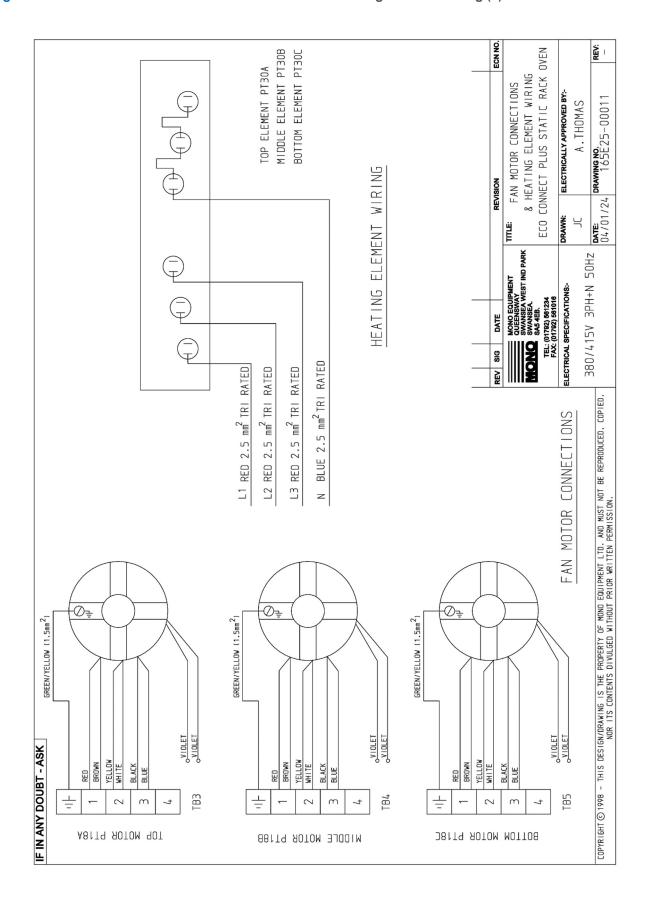


Figure D.3: 165E25-00015 Printed Circuit Board (PCB) Outputs

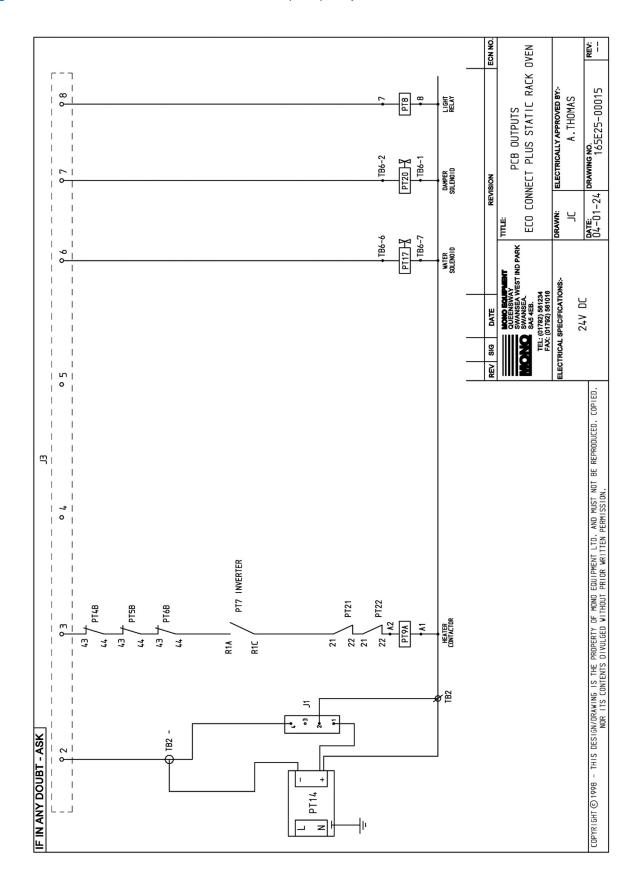


Figure D.4: 165E25-00016 24V Inputs and LED Light Wiring Diagram

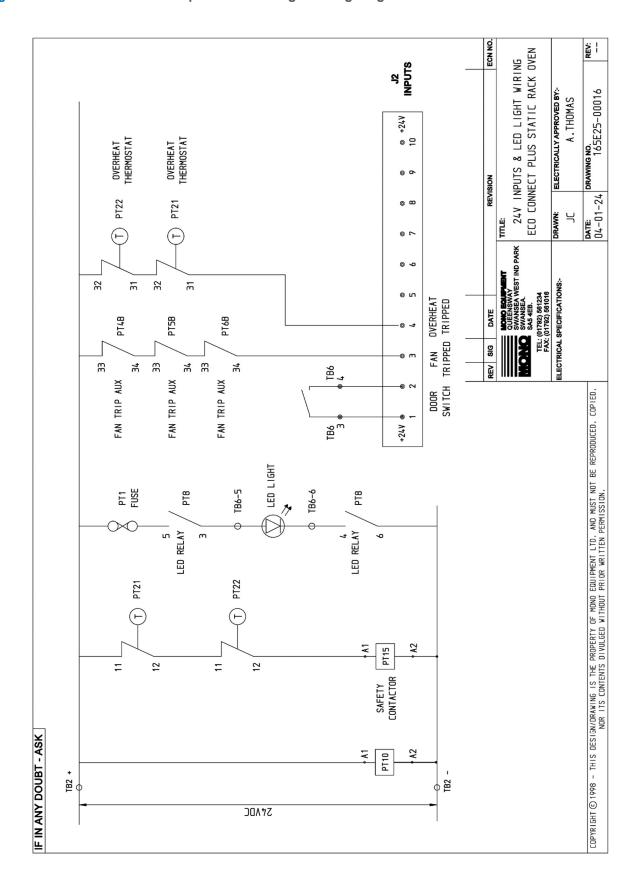


Figure D.5: 165E25-00017 CJB Touch Controller Layout

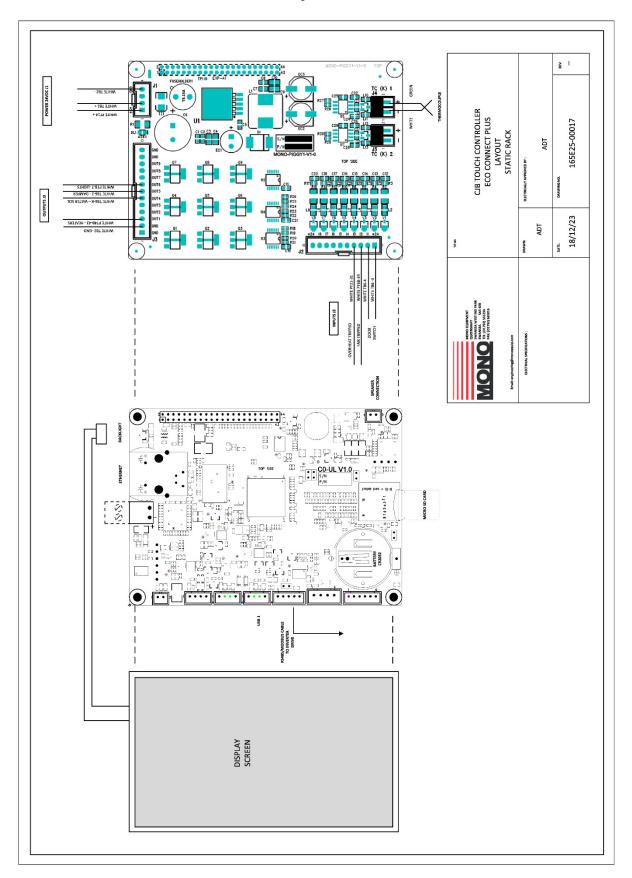


Figure D.6: 165E25-00018 Fan Motor Connections and Heat Element Wiring (2)

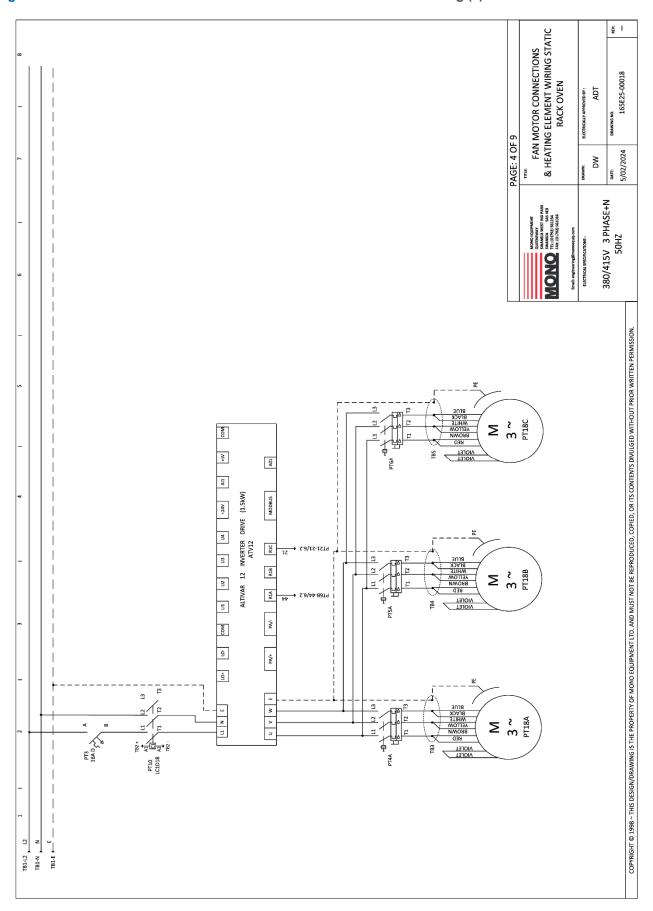
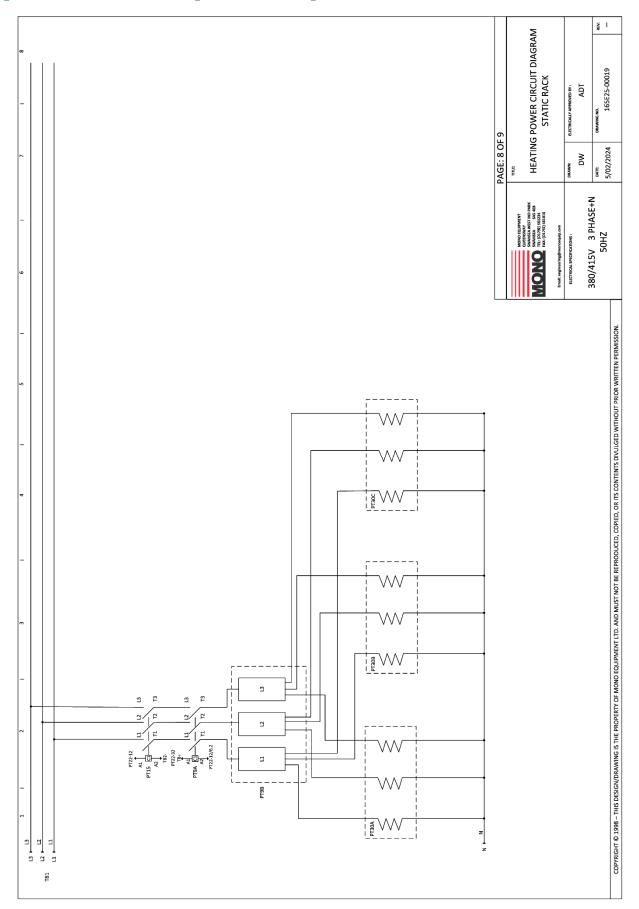


Figure D.7: 165E25-00019 Heating Power Circuit Diagram



D.2 ECO Connect Plus Static Rack Oven Parts List

Table D.1: Parts list (Sheet 1 of 2)

Description	Part number	Part ref. ⁽¹⁾
Interior LED light fuse	B842-85-030	Pt 1
Control circuit MCB	B872-22-062	Pt 2
Fan motor overload - (TOP)	B801-03-020	Pt 4a
Fan motor overload auxiliary (TOP)	B801-14-012	Pt 4b
Fan motor overload - (MIDDLE)	B801-03-020	Pt 5a
Fan motor overload auxiliary (MIDDLE)	B801-14-012	Pt 5b
Fan motor overload - (BOTTOM)	B801-03-020	Pt 6a
Fan motor overload auxiliary (BOTTOM)	B801-14-012	Pt 6b
Interior light relay	B723-37-004	Pt 8a
Interior light relay base	B723-36-001	Pt 8b
Heater contactor	B801-08-020	Pt 9a
Heater wiring distribution block assembly	B859-50-001 (3 off)	Pt 9b
Fan motor contactor forward (TOP MOTOR)	B801-08-031	Pt 10a
Fan motor contactor reverse (TOP MOTOR)	B801-08-031	Pt 10b
Fan motor contactor forward (MIDDLE MOTOR)	B801-08-031	Pt 11a
Fan motor contactor reverse (MIDDLE MOTOR)	B801-08-031	Pt 11b
Fan motor contactor forward (BOTTOM MOTOR)	B801-08-031	Pt 12a
Fan motor contactor reverse (BOTTOM MOTOR)	B801-08-031	Pt 12b
24V Power supply	B801-93-043	Pt 14
Heater safety contactor	B801-08-020	Pt 15
Damper solenoid	B749-83-004	Pt 17
Fan motor – (TOP)	B720-74-005	Pt 18a
Fan motor – (MIDDLE)	B720-74-005	Pt 18b
Fan motor – (BOTTOM)	B720-74-005	Pt 18c
Water solenoid	B965-83-007	Pt 20
Overheat thermostat - (TOP)	B888-30-014	Pt 21
Overheat thermostat - (BOTTOM)	B888-30-014	Pt 22
Oven thermocouple	B873-95-006	Pt 23
PCB Assembly	B790-97-001	Pt 24

Table D.1: Parts list (Continued) (Sheet 2 of 2)

Description	Part number	Part ref. ⁽¹⁾
Main isolator 80 A	B801-07-002	Pt 26
Door switch	B801-11-001	Pt 27
Interior LED light unit	166-13-00063	Pt 28
Heating element, 9Kw – (TOP)	B847-04-081	Pt 30a
Heating element, 9Kw – (MIDDLE)	B847-04-081	Pt 30b
Heating element, 9Kw – (BOTTOM)	B847-04-081	Pt 30c
Cooling fan (OPTIONAL)	B869-75-018	Pt 34
Cooling fan fuse (OPTION)	B842-85-025	Pt 35
Aux power outlet (OPTIONAL)	B970-06-001	Pt 36
Aux power outlet fuse (OPTION)	B842-85-039	Pt 37

⁽¹⁾ See electrical drawings in previous section.

MONO Equipment is the leading designer and manufacturer of bakery equipment in the United Kingdom. This proud heritage of British craftmanship, combined with a reputation for creating high-quality, innovative products, can be traced back to its origins in 1947.

All our bakery equipment is manufactured to the most stringent NQA ISO9001:2015 & NQA ISO14001:2015 standards and is crafted using the very latest, cutting-edge technology combined with the time-honoured skills of the master craftsman.

MONO Equipment truly excels in providing tailor-made solutions to a diverse range of clients, from the small independent artisan baker to the large retail chains found on every high street and in every out-of-town shopping centre. We can supply everything from a simple Food-2-Go cafe oven to the entire list of bakery equipment needed to set up a full scratch bakery.



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