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Enter **Serial Nos.** here

DECK 1

DECK 2

DECK 3

DECK 4

DECK 5

FAN (IF FITTED)

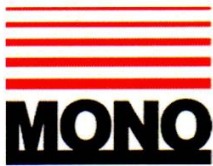
In the event of an enquiry please quote these serial numbers.



## OPERATION AND MAINTENANCE MANUAL

# MODULAR DECK OVEN


Colour control version



## DECLARATION OF CONFORMITY

We hereby declare that this machine complies with the essential health and safety requirements of :-

- The Machinery Directive 2006 / 42 / EC
- The Low voltage Directive 2014 / 35/ EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC  
Incorporating standards  
EN55014-1:2006+A1:2009+A2:2011  
EN55014-2:1997+A1:2001+A2:2008
- The General Safety of Machinery and food processing Standards applicable
- Materials and Articles intended to come into contact with food Regulation (EC) No. 1935 / 2004

|                                       |  |
|---------------------------------------|--|
| <b>Signed</b>                         |  |
| <b>G.A.Williams – Quality Manager</b> |  |

|             |  |
|-------------|--|
| <b>Date</b> |  |
|-------------|--|

|                             |  |                               |  |
|-----------------------------|--|-------------------------------|--|
| <b>Machine<br/>FG Code.</b> |  | <b>Machine<br/>Serial No.</b> |  |
|-----------------------------|--|-------------------------------|--|

A technical construction file for this machine is retained at the following address:

**MONO EQUIPMENT**  
Queensway,  
Swansea West Industrial Park,  
Swansea  
SA5 4EB  
UK

**MONO EQUIPMENT** is a business name of **AFF GROUP Ltd**  
Registered in England No.3872673 VAT registration No.923428136

Registered office: Unit 9, Bryggen Road,  
North Lynn Industrial Estate,  
Kings Lynn,  
Norfolk,  
PE30 2HZ

## SAFETY SYMBOLS

The following safety symbols are used throughout this product documentation. Before using your new equipment, read the instruction manual carefully and pay special attention to information marked with the following symbols.



### **WARNING**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



### **WARNING**

Indicates a hazardous situation which, if not avoided, will result in electric shock.



### **CAUTION**

Indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

## ELECTRICAL SAFETY AND ADVICE REGARDING SUPPLEMENTARY ELECTRICAL PROTECTION:

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

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

The electrical installation and connections should meet the necessary requirements of the local electrical wiring regulations and any electrical 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.



The supply to this machine must be protected by a **30mA RCD**



TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK  
DO NOT REMOVE COVERS (OR BACK)  
NO USER SERVICEABLE PARTS INSIDE



REPAIR SHOULD BE DONE BY AUTHORISED PERSONNEL ONLY

**Failure to adhere to the cleaning and maintenance instructions detailed in this booklet could affect the warranty of this machine.**

The oven should only be used for baking bread, pastries and cakes  
(for other products please contact your oven supplier)

# CONTENTS

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|                       |   |
|-----------------------|---|
| Section - 1.0         | Introduction                                |
| Section - 2.0         | Overall Dimensions                          |
| Section - 3.0         | Specifications                              |
| Section - 4.0         | Safety                                      |
| Section - 5.0         | Installation                                |
| Section - 6.0         | Isolation                                   |
| Section - 7.0         | Cleaning                                    |
| Section - 8.0         | Operating Conditions                        |
| Section - 9.0         | Principles Of Operation (and baking advice) |
| <b>Section - 10.0</b> | <b>Operating Instructions</b>               |

**THIS SECTION IS FOR ENGINEERS ONLY AND THE CUSTOMER SHOULD NOT ATTEMPT TO MAKE ALTERATIONS.**

|                |                             |
|----------------|-----------------------------|
| Section - 11.0 | Set up and Diagnostics menu |
|----------------|-----------------------------|

|                |                 |
|----------------|-----------------|
| Section - 12.0 | Troubleshooting |
|----------------|-----------------|

|                |  |
|----------------|--|
| Section - 13.0 | Service Information<br>Replacing light bulbs |
|----------------|--|

|                |                    |
|----------------|--------------------|
| Section - 14.0 | Spares Information |
|----------------|--------------------|

**THIS SECTION IS FOR ENGINEERS ONLY AND THE CUSTOMER SHOULD NOT ATTEMPT TO MAKE ALTERATIONS.**

|                |                        |
|----------------|------------------------|
| Section - 15.0 | Electrical Information |
|----------------|------------------------|

|                |                                |
|----------------|--------------------------------|
| Section - 16.0 | WARNING and INFORMATION LABELS |
|----------------|--------------------------------|

# 1.0 INTRODUCTION

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The electric modular Deck Oven is an easy to use practical, good-looking oven, giving an excellent heat recovery rate and an even bake across a wide range of bread and confectionery products.

- **Good looking and totally reliable**

Conceived with the no nonsense requirements of both the independent and in-store baker in mind, and designed to visually please as well as give reliable service for many years. This oven will more than satisfy the most discerning customer.

- **Top quality specification**

The external and internal contact surfaces are stainless steel.

Each modular deck is fitted with durable reinforced one-piece tiles, and an increase in high-grade insulation and high temperature ceramic sealant, makes the oven more efficient.

The oven comes with a patented integral steaming system, which reduces energy consumption and the overall size of the oven (no drain required). The system produces real steam with the advantages of spray steam. Pre-steam is also available to reduce the affects of long loading times.

No drainage is required.

Supplied with an LCD screen. All programmable parameters have separate indicators for easy programming and extra bake time, if required.

An energy saving 7-day timer is also standard.

The simplified electrical circuits aid reliability with overheat protection (on controllers and oven) to ensure long life of controllers, all housed in splash-proof electrical enclosures.

The lights are low voltage, sealed from the chamber and easily accessed from outside the oven.

Fitted with a choice of hinged easy to clean glazed doors (using low energy-loss reflective glass for high visibility) or metal doors, means low energy consumption and the high kW rating gives good recovery.

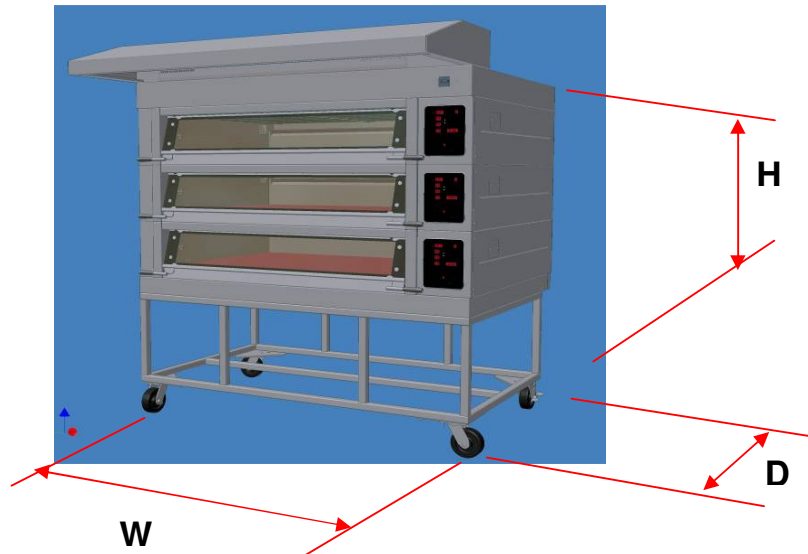
(0-100% heating available both top and bottom)

As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice.

## 2.0 OVERALL DIMENSIONS

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ALL DIMENSIONS ARE APPROXIMATE



5 DECK oven ..... **H** = 2135mm

4 DECK oven ..... **H** = 2020mm

3 DECK oven ..... **H** = 2020mm

Ovens available with 1,2,3, 4, and 5 modules

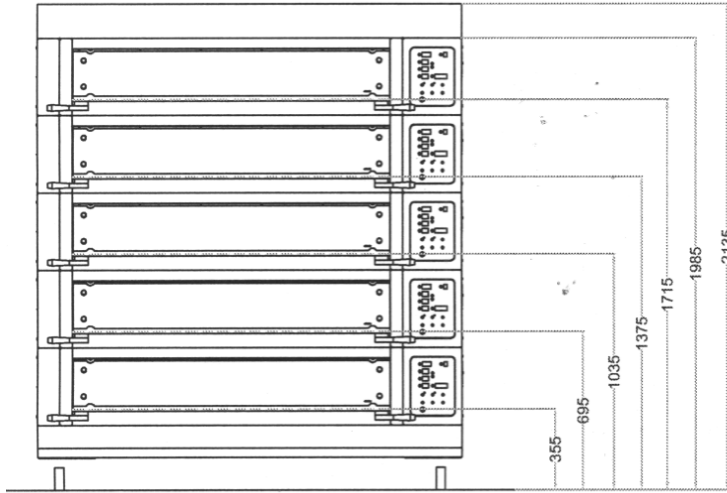
812mm deep modules ..... **D** = 1300mm

3 Tray wide oven ..... **W** = 1890mm

2 Tray wide oven ..... **W** = 1416mm

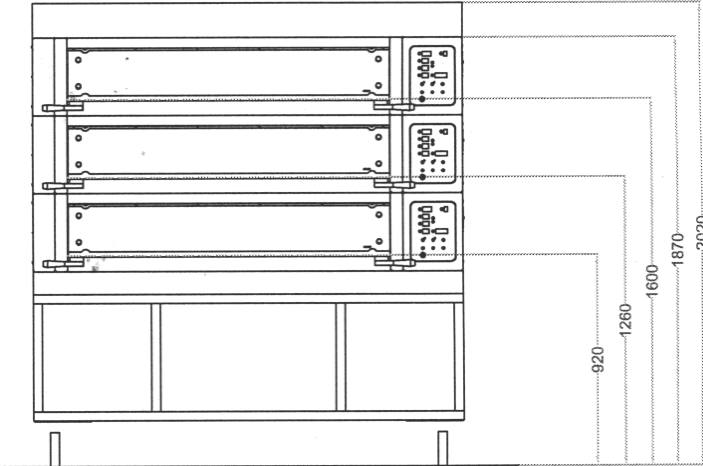
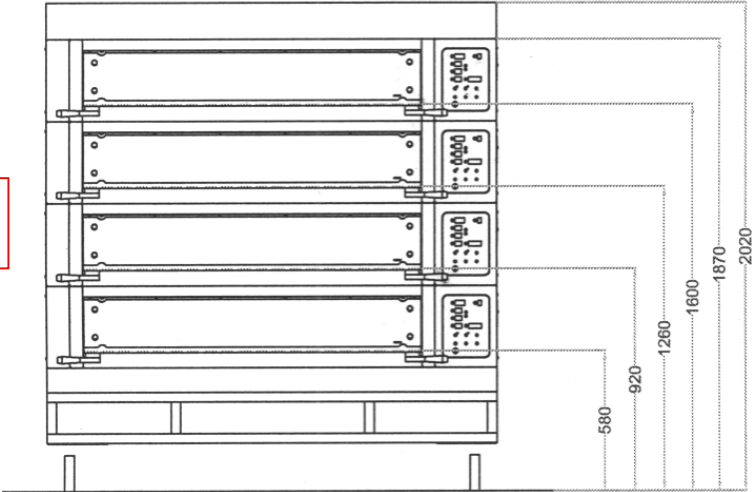
1 Tray wide oven ..... **W** = 940mm

# 3.0 SPECIFICATIONS



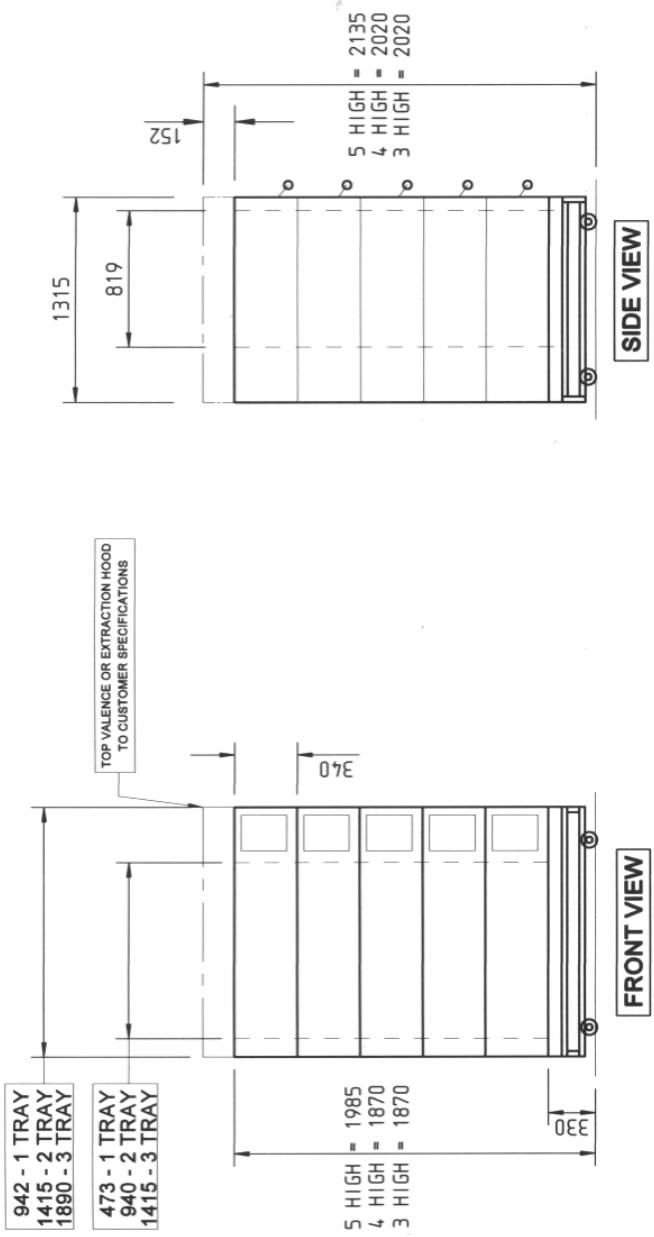
**5 DECK OVEN  
DECK PLATE HEIGHTS**

**4 DECK OVEN  
DECK PLATE HEIGHTS**



**3 DECK OVEN  
DECK PLATE HEIGHTS**





DIMENSIONS IN MILLIMETRES  
FOR WEIGHTS SEE SPECIFICATION NOTES

| NOMINAL TRAY WIDTH | EXTERNAL AREA        | INTERNAL SURFACE AREA | No. OF TRAYS (per deck)                          |
|--------------------|----------------------|-----------------------|--|
| 3 tray             | 2.48Mtr <sup>2</sup> | 1.16Mtr <sup>2</sup>  | 609 x 813<br>609 x 406<br>457 x 762<br>457 x 660 |
| 2 tray             | 1.85Mtr <sup>2</sup> | 0.77Mtr <sup>2</sup>  | 1 2 2 2  |
| 1 tray             | 1.24Mtr <sup>2</sup> | 0.39Mtr <sup>2</sup>  | 1 1 1 1  |

**MONO MODULAR DECK OVEN**

## ELECTRICAL LOADINGS:

- SUPPLY REQUIRED PER MODULAR DECK:

|                               | <u>3 TRAY WIDE</u> | <u>2 TRAY WIDE</u> | <u>1 TRAY WIDE</u> |
|-------------------------------|--------------------|--------------------|--------------------|
| 3 Phase N + Earth, 400V. 50Hz | 9.0kW, 13Amp       | 6.0kW, 9Amp        | 3.0kW, 5Amp        |



The supply to this machine must be protected by a **30mA RCD**

**NOISE LEVEL:**    Less than 80 Db

## 4.0 SAFETY

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**All maintenance must be made with the oven disconnected from the power supply and then only by fully trained authorized persons.**

- Check all cover panels, and any pipefittings are securely positioned.
- Check oven door handles are not damaged.



- **Do not operate a deck's steaming system with oven door open.**
- Always use oven gloves when loading or unloading the oven.
- When products are removed from the oven, ensure:
  - (a) Tins are knocked out and stored directly onto a tin storage trolley or rack (Do not leave hot tins on the floor or on tables).
  - (b) Trays are put into a rack and the rack is wheeled to a safe cooling area.

- Do not store items on top of the oven.
- Do not store items behind the oven.



- Beware of hot surfaces. Do not touch oven front or door with bare skin.
- All operatives must be fully trained
- People undergoing training must be under direct supervision
- The oven should only be used for baking bread, pastries and cakes (for other products please contact your oven supplier)
- No unauthorized modifications should be made to the oven.



- **Do not walk on the roof of the oven**

- **DISPOSAL**

Care should be taken when the oven comes to the end of its working life. All parts should be disposed of in the appropriate place, either recycling or other means as the law permits at the time.

**NOTE: BAKERY STAFF MUST NOT UNDER ANY CIRCUMSTANCES REMOVE PANELS TO ACCESS ANY PART OF THE DECK OVEN.**



**Panels should only be removed by a Mono maintenance engineer (or other fully trained maintenance contractor) for repairs or maintenance, after isolating oven from power supply.**

**The Bakery Manager or the Bakery Supervisor must carry out the above daily safety checks**

## 5.0 INSTALLATION

### GENERAL

- A hard smooth level floor is recommended on which to position the oven and access for maintenance should be considered.  
*The oven is not designed to be "built in" so sufficient clearance must be left in front of the access panels (right hand side) to allow for servicing.*
- If not chosen as an oven option, it is recommended that an extraction hood be placed above the oven to disperse excess steam and heat, which could have an adverse effect on the bakery ceiling and ambient temperature.

• A wall isolator **must** be available in order to completely isolate the oven.  
**THIS ISOLATOR MUST BE CLEARLY ACCESSIBLE TO THE OVEN OPERATOR**

- A chain retainer should be fitted, that is shorter than the power cables, to protect them from strain if the oven is moved. (Fit to the wall or floor and the base, using hole provided in castor fixing corner plates).
- Installation must be made by a trained authorized engineer and all utilities must conform to all local regulations.
- **The oven must be "run in" as stated in the initial start up instructions.**

### ELECTRICAL CONNECTIONS

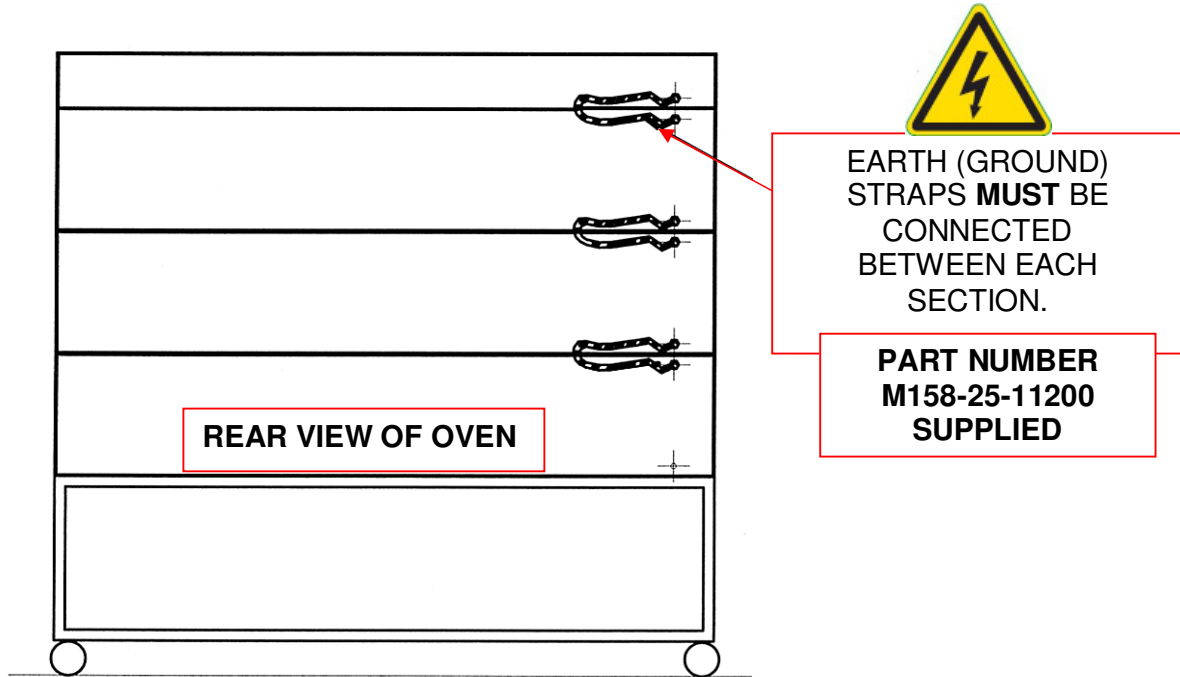
- **SUPPLY REQUIRED PER MODULAR DECK:**  
(One main connection point for all deck supplies at top of oven)

|                               | <u>3 TRAY WIDE</u> | <u>2 TRAY WIDE</u> | <u>1 TRAY WIDE</u> |
|-------------------------------|--------------------|--------------------|--------------------|
| 3 Phase N + Earth, 400V. 50Hz | 9.0kW, 13Amp       | 6.0kW, 9Amp        | 3.0kW, 5Amp        |



The supply to this machine must be protected by a **30mA RCD**

# IMPORTANT OPERATION



# **WATER SUPPLY REQUIREMENTS**

**The set up procedure on the next page must be followed to allow the steaming system to function correctly**

- All ovens with steam require a ¾" BSP hot or cold water supply at a pressure of 2 - 3 bar (29 – 44 psi).
- Only one water supply is required per oven. This should comply with local water regulations.
- A manifold supplies all decks from one connection point.
- For proper operation of the steam system it is recommended that the water supply follows the following specifications:

**Hardness**                                0-4 grains per gallon

**PH range**                                7.0 to 8.5

**Chloride concentration**        0 –20 ppm

**Consult Mono for proper water filtration system information.**

- No drain is required for this oven.
- **A non-return check-valve is supplied fitted to the water inlet manifold.**

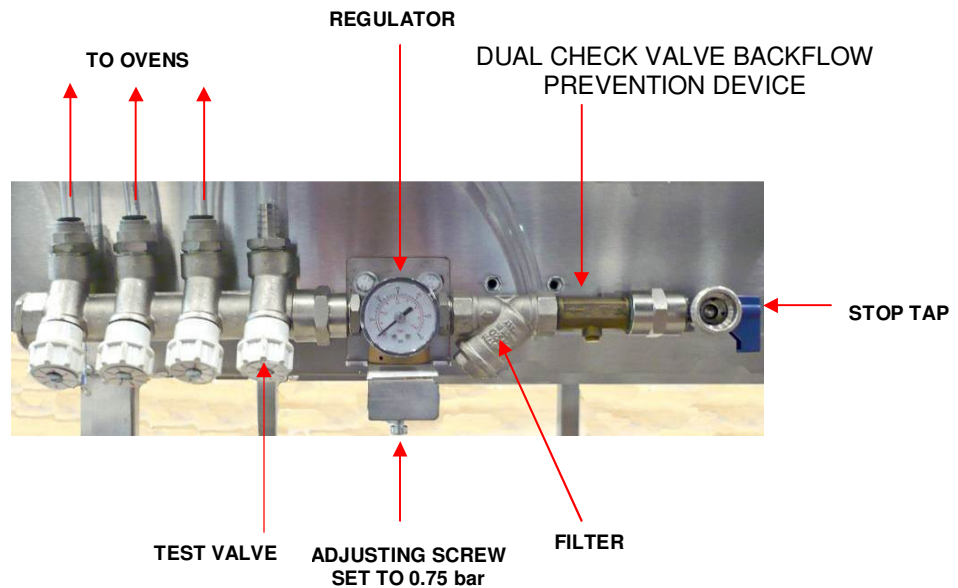
# WATER SYSTEM SETUP PROCEDURE

It is imperative that the water delivery to the deck oven is checked for the steam system to operate correctly

1. Flush out the main feed pipe to be used, until water runs clear and free from debris.
2. Connect main feed to oven.
3. Connect flexible hoses to each deck.
4. Place a container under the test valve.
5. Slowly open test valve fully and with the water flowing check the regulator is set to 0.75 bar. If not adjust using the screw above the valve.
  - **Never use the oven above this setting**
6. When the pressure has stabilised shut the test valve.

REPEAT 4,5 AND 6 AT THE END OF INSTALLATION.

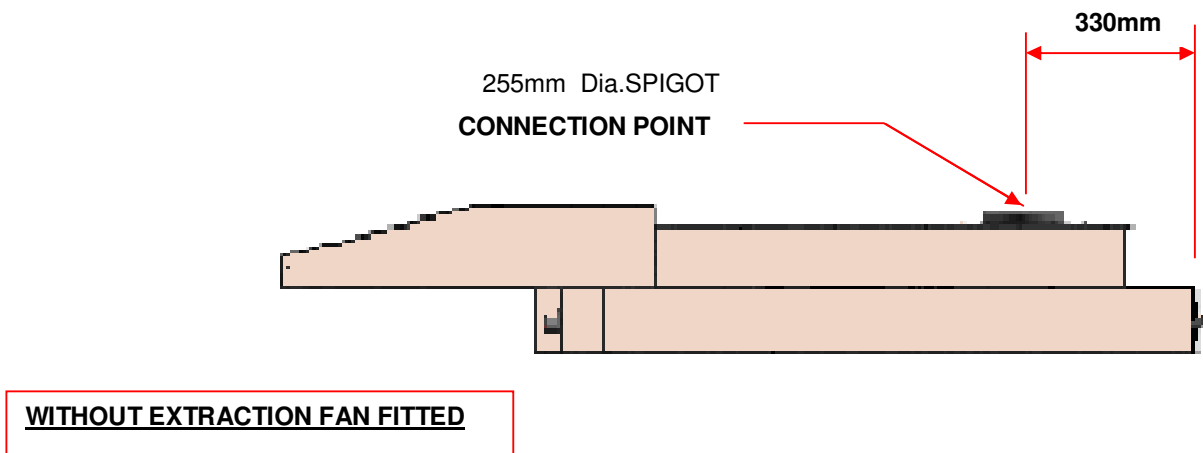
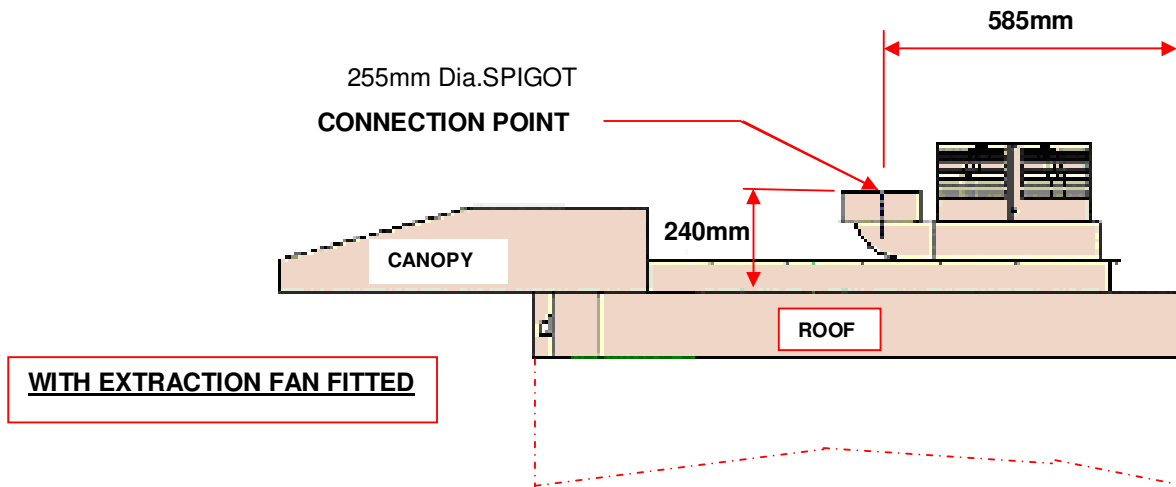
**NOTE.** DYNAMIC PRESSURE, NOT STATIC, IS BEING MEASURED.



**WATER REGULATOR SET UP**  
LOCATED ON REAR OF OVEN

## Exhaust Connections (IF CANOPY FITTED)

- Ideally an exhaust duct should rise 2 metres above the bakery roof protected from wind and birds by a duct protector.
- It should be of a suitable material to take the high temperatures and humidity expected.
- It should be flexible and easily removable at the oven connection point. *This allows the oven to be moved for cleaning when required.*





# INITIAL START UP

**THIS PROCEDURE MUST BE ADHERED TO FOR THE OVEN WARRANTY TO BE VALID.**

In order for the oven to give good reliable service the deck tiles must be initially brought up to temperature as stated below.

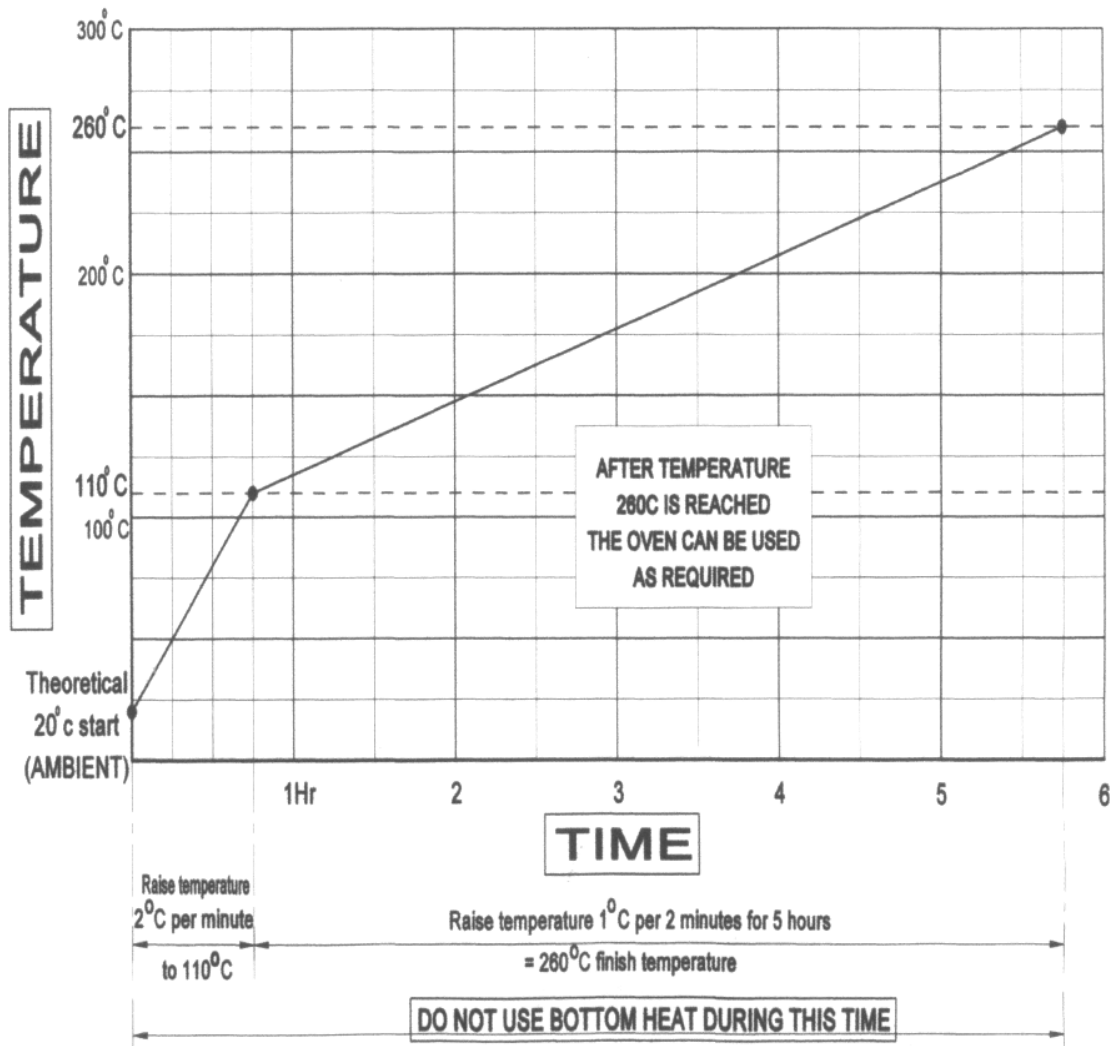
After this running in period the oven can be used as required.

## Running in procedure

1. Turn the oven on and note the temperature shown.  
(This will be the temperature inside the cooking chamber)
2. The temperature needs to rise to 110deg C, at no more than 2deg a minute.  
**DO NOT USE BOTTOM HEAT AT ANY TIME.**
3. Take the temperature up to 260deg C, at no more than 1deg in 2 minutes.  
**THIS WILL TAKE 5 HOURS.**

## BAKING TILES -- INSTRUCTIONS FOR FIRST TIME USE

THIS PROCEDURE MUST BE USED FOR THE OVEN WARRANTY TO BE VALID



## 6.0 ISOLATION

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### **WARNING**

**THE “POWER OFF” BUTTON ON THE FRONT OF THE OVEN DOES NOT ISOLATE THE POWER SUPPLY.**



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**A WALL ISOLATOR MUST BE AVAILABLE IN ORDER TO COMPLETELY ISOLATE THE OVEN.**

**THIS ISOLATOR MUST BE CLEARLY ACCESSIBLE AND KNOWN TO THE OVEN OPERATOR**

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**TO STOP THE OVEN IN AN EMERGENCY SWITCH OFF AT THE MAIN WALL ISOLATOR**

## 7.0 CLEANING

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### DAILY CLEANING INSTRUCTIONS



**ISOLATE OVEN FROM MAINS SUPPLY BEFORE CLEANING.**

- After the oven has been allowed to cool, (this could take several hours), sweep any debris out.  
Use a vacuum cleaner with metal attachments (able to take heat) if available.
- Brush down and wipe oven front, back and sides with a damp cloth.
- Spot clean with a damp cloth, which has been soaked in a solution of mild detergent, and hot water, paying particular attention to ensure excess water is not applied around the area of the electrical panels.

**NOTE: TAKE CARE WATER DOES NOT ENTER CONTROL PANEL MOUNTING OR ROOF MOUNTED FAN.**

### WEEKLY CLEANING INSTRUCTIONS



**ISOLATE OVEN FROM MAINS SUPPLY BEFORE CLEANING.**

- Complete daily cleaning as above.
- Scrub oven wheels with a mild detergent and hot water using nylon cleaning brush (excess water will rust metal).



- Ensure the oven roof area is clear of debris and dust build up.  
**(DO NOT STAND ON THE OVEN ROOF)**

## 8.0 OPERATING CONDITIONS ---

- It is recommended that a space of at least 6 feet be left in front of the oven for ease of operation and safety.
- Bakery utensils must not be used to operate the control panel buttons.

## 9.0 PRINCIPLE OF OPERATION ---

**NOTE:** REFER TO YOUR OWN COMPANY'S RECIPE MANUAL FOR OVEN TEMPERATURE SETTINGS.

PLEASE ALSO REFER TO THE BAKING ADVICE ON THE NEXT PAGE

Products are baked in an insulated heated chamber.

The **temperature** is regulated by a thermocouple having an LCD read-out on the front control panel.

Baking heat is radiant with top and bottom heat being adjusted by means of separate controls. This enables heat to be “balanced” according to product requirement.

**STEAM** is provided from an integral steam unit, and is introduced into the chamber on demand. This is automatically controlled by the programmed parameters.

**Once steamed the oven will not steam again until the steam unit has recovered heat, typically 3-8 minutes depending on the amount of steam selected.**

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All ovens are fitted with a **steam damper** that evacuates steam humidity into a vent at the side of the oven.

# Baking Advice

## For the best results from deck Ovens

### Loading

1. **Do not place the products too close together.** *If the loaves are close to each other after oven spring (expansion), the loaves sides will be soft and may collapse on cooling.*
2. **Place the product evenly within the oven.** *Product bunched together will be paler than those widely spaced.*
3. **Product should not be placed too close to the edge of the tile.** *As it expands towards the front one side of the loaf may enter the cooler air by the door.*
4. **Door opening should be kept to a minimum** *because cold air enters the oven cooling the sidewalls and roof causing the finished product to be lighter locally at the front and wasting heat. If loading times are consistently long you can alter the front top heat to put more heat at the front.*
5. **If the loading takes a long time product can form a skin,** *which causes an imbalance and a less attractive finish. By using the pre-steam function before loading this can be minimised. This function turns the elements off and injects steam to increase the humidity.*

### Bake settings

1. A good starting point for baking breads in Mono deck ovens is **225C** (437F)  
Top heat 60-65    bottom heat 40.
2. For cookies etc, the heat in the oven can be turned almost off, however it may still be necessary to place the trays with cookies etc onto upturned trays on the oven sole.
3. **Steam** should be kept to a minimum, for energy efficiency, depending on the product and finish. **Times between 9 and 12 seconds should be adequate.**
4. It is a good idea not to focus on the temperature recovery this can vary from oven to oven.

## **Is the product baked in the time and to the quality you require?**

*Below are some tips for modifying the bake so you get the product that you require.*

- **If your product is light on top.**

Either decrease the bottom heat and extend bake time or increase the top heat.

- **If the product sides are pale and the top dark.**

When the products are spaced well apart drop the top heat and extend the bake.

- **If the bake time is too long.**

First increase the top heat to speed recovery.

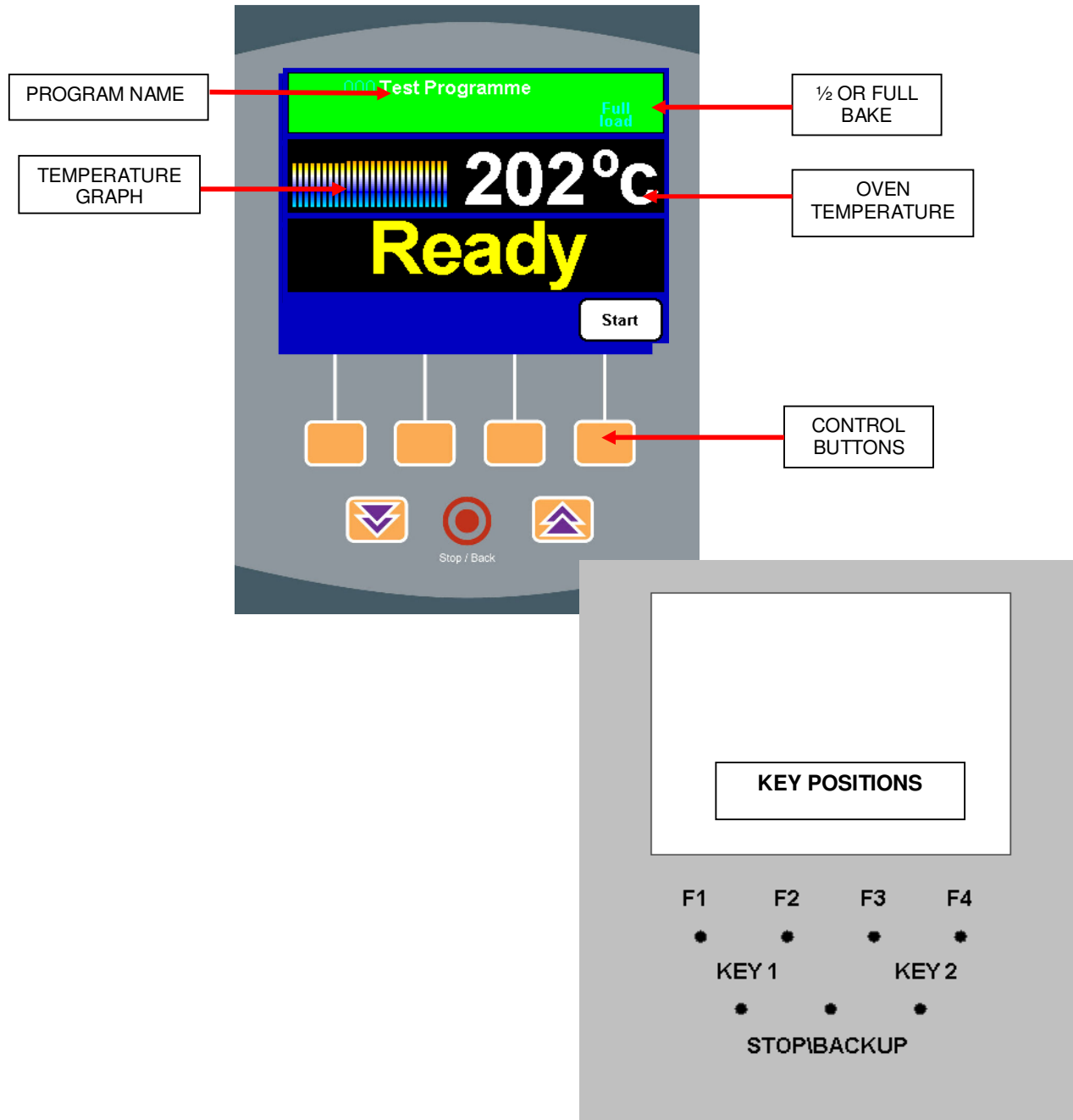
If this does not give sufficient savings increase the bake temperature.

- **To thicken the crust**

Set the damper to open longer. Different ovens will require different lengths of time.

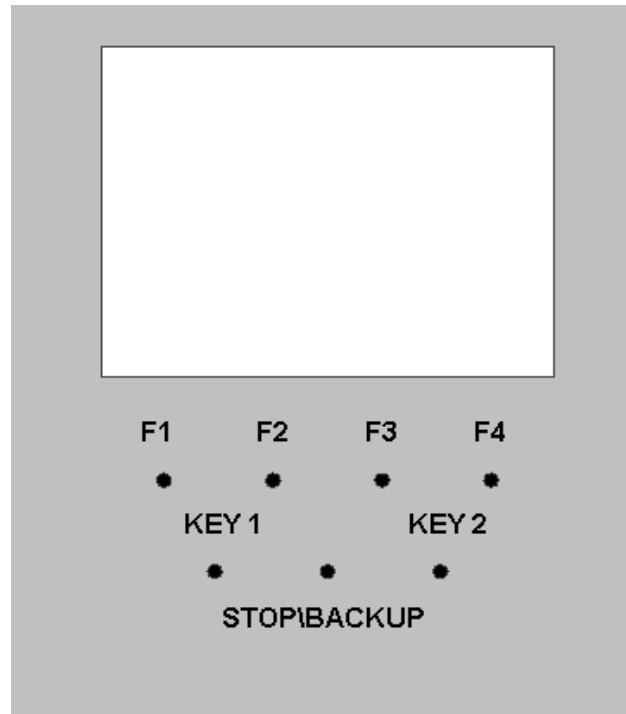
# 10.0 OPERATING INSTRUCTIONS

RECALLING SET PROGRAMS  
NEW PRODUCT PROGRAM ENTRY  
SEVEN-DAY TIMER



## Control Panel

(TO BE USED IN CONJUNCTION WITH THE FOLLOWING PAGES)



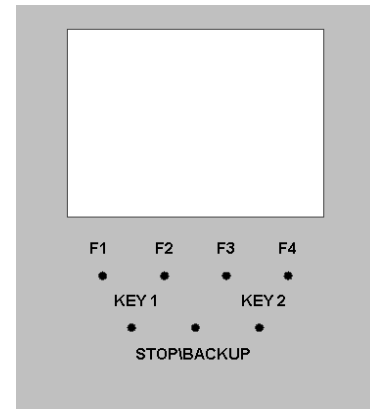
### GENERAL LAYOUT OF CONTROLLER BUTTONS

- Above shows the general layout of the controller keyboard.
- The top row of buttons labelled F1, F2, F3 & F4 can have a number of uses.
- The function of the buttons will depend on the screen the operator chooses, but not all of the function buttons are active in every screen.  
*If a button is active it will have a symbol displayed above it on screen. For ease of use, the symbols will indicate the operation they represent.*
- The buttons marked KEY1 & KEY2 are used to alter set values.
- The final button is the stop or backup button. It can be used, for example, to stop a bake if needed or go back through screens. All these operations will be explained further in the section.



## • RECALLING SET PROGRAMS

- Turn on power at main isolator.
- Initially the oven will be in the off state with “select product” above F4..
- To display the available programs press button **F4**.
- Use F2 or F3 to scroll up or down the list and position the cursor over the desired product program, then press either the half or full load buttons, (buttons F1 & F4 respectively)



**TIP:** To speed up the selection process use the quick scroll buttons key1 & key2., this moves the programs up or down 10 positions at a time.

- The screen will display the current oven temperature, the selected program number and the word “**HEATING**” displayed in large letters, along with notification of either half or full bake depending on previous choice.
- When the oven has reached the temperature specified in the product program the screen will display, in large letters, the word “**READY**”



- Place the product in the baking chamber, close door and press the start button (**F4**).
- At the end of bake time, the buzzer will sound. Press stop (o) and remove the product. **Shut the door to conserve heat.**

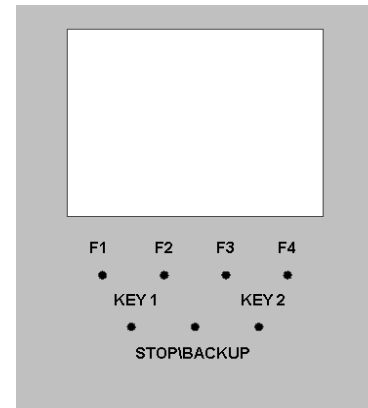
**OR**

press key F4 to increase bake by 2 minutes (press stop at any time to stop bake)

**TIP:** If you wish to cancel the bake, press the stop\backup button.

## NEW PRODUCT PROGRAM ENTRY

- Turn on power at main isolator.
- Press the edit program button **F2**.
- Enter the password (default 111111)
- Select an empty position by scrolling with the up\down arrows KEYS **F2 & F3**.
- Press the edit product button **F1** again



| 000 [empty]   |     |                    |                    |
|---|-----|--------------------|--------------------|
| °C  | 200 | Full               | 165                |
| Top %   | 050 |                    | 050                |
| Bottom %  | 050 |                    | 052                |
| Mins  | 012 |                    | 007                |
| Pre secs  | 02  |                    | 02                 |
| Main secs   | 08  | Max: 10            | 03                 |
|   |     |                    | Max: 05            |
| Mins  | 000 |                    | 000                |
| <div style="display: flex; justify-content: space-between;"> <span>←</span> <span>↓</span> <span>↑</span> <span>→</span> </div> |     |                    |                    |
|   |     | FULL BAKE SETTINGS | HALF BAKE SETTINGS |

- Use the **direction** arrow buttons KEYS F1 to F4 to select a field. Adjust the values in singular units up or down (buttons **Key 1 & Key 2** respectively)

**NOTE:** The left hand column contains values relating to a full bake, while the right hand column relates to half bake.

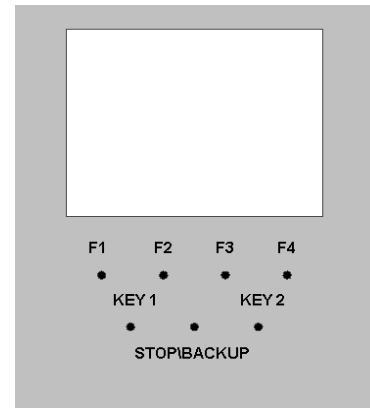
- Next a name needs to be entered for the program; Press F4 until the title area is highlighted. This will enable the title screen for editing. Use the up\down buttons K1 and K2 to select the required character. Once selected scroll across using button **F4** to the next empty character field. Repeat process for extra characters. *If amendments are required, scroll in the opposite direction-using button **F1** and correct by using the **up\down** arrows.*
- Once completed press the **stop\backup** button twice to return to the home screen

## SEVEN-DAY TIMER

The controller can be programmed to switch the oven deck on and off at preset times, automatically any day of the week.

### SETTING THE SEVEN DAY TIMER

- With the main supply on, press the button **F3**.
- To adjust the day pressing back (F1) until the day changes to the one required.  
Press next to highlight the “on” hour to be set and use the key1 or key2 to adjust .  
Press next and highlight the “on” minutes to be set and use key1 and key2 to adjust
- If necessary, a finish time can be entered by scrolling to the required day, again using up\down arrow buttons and adjusting the time as mentioned previously.
- Once the required times have been set press the stop\backup button. This will then return you to the home screen. This is the state the screen should be left in to allow the seven-day timer to operate. (*Oven power on, nothing selected*)



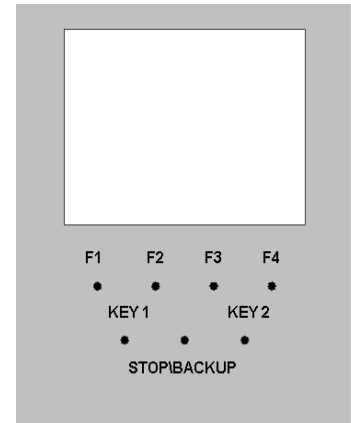
The timer can be disabled by entering 00:00 in the time field.

**NOTE:** The seven-day timer will not work properly unless the correct time and date have been entered previously. (Engineers set-up).

**ENGINEERS USE ONLY**  
**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU  
ARE FULLY AWARE OF THE RESULTS**

## **11.0 SET-UP & DIAGNOSTIC MENU**

# 11.0 SET-UP & DIAGNOSTIC MENU



- Turn on power at main isolator.  
Initially the oven will be in the off state with “select product” above F4
- Press the button **F1**.
- Enter the six digit engineers password (default **222222**)

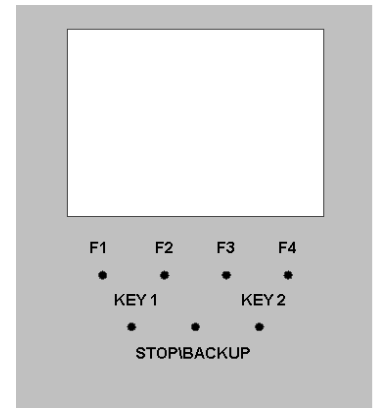


Push F3 to go down to the item that requires changing. (*F3 to go back up list*)

Use key1 or key2 to adjust the setting.

Press ok (F1) to go out of the setting screen or next (F4) to go to the next screen.

## GAINS MENU



- **These are factory set gains**, any values other than that shown below will seriously affect the performance of the oven.

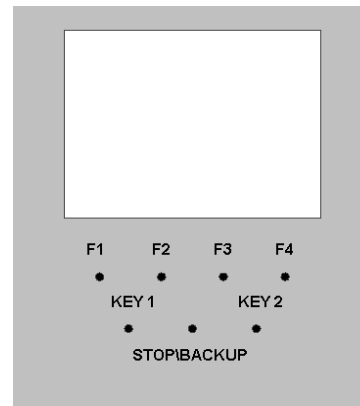
Top Gain-            50  
Low Gain-            50  
Mono Constant-    210



DO NOT CHANGE THESE SETTINGS UNLESS INSTRUCTED TO DO SO BY  
"MONO"

Press next (F4) or ok (F1) to exit.

# SETTING CURRENT TIME AND DATE



- Use the up/down arrow buttons **F2 & F3** to scroll through the fields.
- With the desired field highlighted use the buttons represented by the arrow symbols **KEY1 & KEY2** to alter the value.

When the time and date are correct, press ok (F1) or next (F4) to go to the next screen.

## PASSWORDS

EDITING DEFAULT 111111

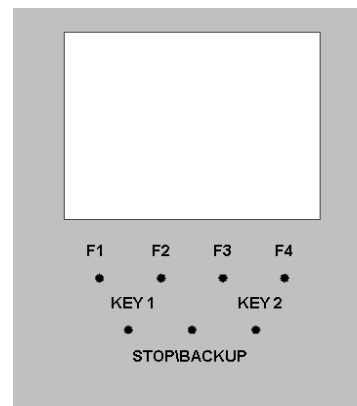
SET-UP DEFAULT 222222

The passwords can be changed by highlighting the digit to change and changing it with the arrow keys 1 & 2.

press DIAGS (F4) to go on to the next screen.

## DIAGNOSTICS

- Here items can be tested for correct operation.



Use F2 or F3 to highlight the item to be tested.

Use Key 1 or key2 to enter the length of test in seconds.

When ready to test, press start (F4) and test will commence.

Press Stop when tests are completed and oven will revert back to start screen.

## SERIAL COMMUNICATIONS

Although the oven is capable of upload and download of information, this has not yet been implemented



## 12.0 TROUBLESHOOTING

---

### ▪ **NONE OF THE DECKS SWITCHED ON.**

- Is main oven power on?
- Check if bakery main power supply time clock is working (if fitted).
- Is 7-day timer clock set correctly to bring oven on at required time?

### ▪ **ONE DECK HAS NOT SWITCHED ON.**

- Check if individual deck timer is set to bring it on at required time.

### ▪ **UNEVEN OR PATCHY BAKE**

- Door is being opened too often or too long whilst loading.  
(front pale, back burnt).
- Faulty element.
- All top or bottom deck elements not functioning.
- Uneven loading.
- No supply voltage across a phase.

### ▪ **TEMPERATURE GOING WELL OVER SET TEMPERATURE**

When empty the temperature of a deck oven can exceed the set baking temperature. This overheat is marginal when the deck is full of product. If the elements are continuing to work after the set temperature has been reached call Mono service. (Please allow up to 15deg.C difference before diagnosing a fault condition),

### ▪ **POOR RECOVERY OF SET TEMPERATURE WHEN LOADED**

- The doors may have been left open too long during loading, allowing heat to escape.
- The damper may have been left open during loading or baking allowing heat to escape.
- Top and/or bottom heat may not be working or set at a low value.
- No supply voltage across a phase.

### ▪ **STEAM SYSTEM NOT OPERATING CORRECTLY**

Check that the water supply is connected and the tap to each deck is in the on position. If there is still a problem, Contact Mono.

## 13.0 SERVICE

---

If a fault arises, please do not hesitate to contact the Customer Service Department, quoting the **machine serial number** on the silver information plate of the machine and on the front cover of this manual

**MONO**  
Queensway  
Swansea West Industrial Estate  
Swansea. SA5 4EB UK

**email:spares@monoequip.com**  
**Spares Tel. +44(0)1792 564039**

**Web site:www.monoequip.com**  
**Main Tel. +44(0)1792 561234**

**Fax. 01792 561016**

# LIGHT REPLACEMENT



**DISCONNECT FROM POWER SUPPLY BEFORE REPLACING LIGHT BULBS**

24v 20w LAMP PART NUMBER ... B855-94-008



1

HEX HEAD SOCKET SCREWS

UNSCREW PLATE NEXT TO LIGHT TO BE REPLACED



2

SLIDE FITTING OUT



3

REMOVE LIGHT FROM HOLDING SLOT AND UNCLIP FROM CABLE



4

REPLACE LIGHT AND REFIT ALL PARTS

RECONNECT POWER SUPPLY AND TEST



## 14.0 SPARES INFORMATION

## OVEN SPARES

|                        |               |
|------------------------|---------------|
| FROSTED GLASS          | M257-02-00027 |
| PLAIN GLASS            | M257-02-00028 |
| DOOR BUMPER STOP       | M257-03-00027 |
| BAKING TILE 3 ACROSS   | M257-02-00046 |
| 2 ACROSS               | M257-02-00047 |
| 1 ACROSS               | M257-02-00048 |
| HINGE PIN RHS          | M257-03-00005 |
| HINGE PIN LHS          | M257-03-00009 |
| BLACK DOOR HANDLE      | A900-27-192   |
| DOOR SPRING            | M257-03-00017 |
| WIRE ROPE              | M257-03-00024 |
| SPRING RETAINING PIN   | M257-03-00025 |
| PULLEY                 | M257-03-00015 |
| PULLEY SPINDLE         | M257-03-00013 |
| DAMPER DRIVE COUPLING  | M257-07-00007 |
| ELEMENT GASKET         | M245-02-01300 |
| 24 v 20w DICHROIC LAMP | B855-94-008   |

## ELEMENT SPARES

### 3 ACROSS

|                            |             |
|----------------------------|-------------|
| TOP HEAT ELEMENT 1.0kW     | B854-04-093 |
| TOP HEAT ELEMENT 0.6kW     | B854-04-091 |
| BOTTOM HEAT ELEMENT 0.75kW | B854-04-092 |

### 2 ACROSS

|                           |             |
|---------------------------|-------------|
| TOP HEAT ELEMENT 0.65kW   | B854-04-102 |
| TOP HEAT ELEMENT 0.4kW    | B854-04-100 |
| BOTTOM HEAT ELEMENT 0.5kW | B854-04-101 |

### 1 ACROSS

|                            |             |
|----------------------------|-------------|
| TOP HEAT ELEMENT 0.325kW   | B854-04-111 |
| TOP HEAT ELEMENT 0.2kW     | B854-04-109 |
| BOTTOM HEAT ELEMENT 0.25kW | B854-04-110 |



## 15.0 ELECTRICS

## **PARTS LIST FOR DRAWINGS FOLLOWING – 3 TRAY WIDE**

|     |                                |                                 |                   |
|-----|--------------------------------|---------------------------------|-------------------|
| F1  | HEATERS MCB                    | B872-22-007                     | Single phase only |
| F2  | HEATERS MCB                    | B872-22-007                     |                   |
| F3  | HEATERS MCB                    | B872-22-007                     |                   |
| F4  | CONTROL POWER SUPPLY MCB       | B872-22-062                     |                   |
| F5  | OVERHEAT THERMOSTAT            | B888-30-014                     |                   |
| T1  | CONTROL CIRCUIT POWER SUPPLY   | B801-93-005                     |                   |
| K1  | TOP HEAT CONTACTOR             | B801-08-021                     |                   |
| K2  | BOTTOM HEAT CONTACTOR          | B801-08-021                     |                   |
| Y1  | WATER SOLENOID (10mm pipe)     | A900-34-349(up to May 2007)     |                   |
|     | WATER SOLENOID (8mm pipe)      | A900-34-365 (after May 2007)    |                   |
| H1  | INTERIOR LIGHT                 | B855-94-008                     |                   |
| B1  | OVEN THERMOCOUPLE              | B873-95-003                     |                   |
| U1  | MAIN LED PRINTED CIRCUIT BOARD | M257-25-00040                   |                   |
| D1  | DAMPER SOLENOID                | B749-83-004                     |                   |
| R1  | TOP HEAT ELEMENT 1.0kW         | B854-04-093                     |                   |
| R2  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R3  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R4  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R5  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R6  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R7  | TOP HEAT ELEMENT 0.6kW         | B854-04-091                     |                   |
| R8  | BOTTOM HEAT ELEMENT 0.75kW     | B854-04-092                     |                   |
| R9  | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| R10 | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| R11 | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| R12 | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| R13 | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| R14 | BOTTOM HEAT ELEMENT 0.6kW      | B854-04-091                     |                   |
| S1  | SOUNDER                        | B723-92-002 (ONLY COLOUR OVENS) |                   |



## PARTS LIST FOR DRAWINGS FOLLOWING – 2 TRAY WIDE

|     |                                |                                 |                   |
|-----|--------------------------------|---------------------------------|-------------------|
| F1  | HEATERS MCB                    | B872-22-006                     | Single phase only |
| F2  | HEATERS MCB                    | B872-22-006                     |                   |
| F3  | HEATERS MCB                    | B872-22-006                     |                   |
| F4  | CONTROL POWER SUPPLY MCB       | B872-22-062                     |                   |
| F5  | OVERHEAT THERMOSTAT            | B888-30-014                     |                   |
| T1  | CONTROL CIRCUIT POWER SUPPLY   | B801-93-005                     |                   |
| K1  | TOP HEAT CONTACTOR             | B801-08-021                     |                   |
| K2  | BOTTOM HEAT CONTACTOR          | B801-08-021                     |                   |
| Y1  | WATER SOLENOID (10mm pipe)     | A900-34-349(up to May 2007)     |                   |
|     | WATER SOLENOID (8mm pipe)      | A900-34-365 (after May 2007)    |                   |
| H1  | INTERIOR LIGHT                 | B855-94-008                     |                   |
| B1  | OVEN THERMOCOUPLE              | B873-95-003                     |                   |
| U1  | MAIN LED PRINTED CIRCUIT BOARD | M257-25-00040                   |                   |
| D1  | DAMPER SOLENOID                | B749-83-004                     |                   |
| R1  | TOP HEAT ELEMENT 0.65kW        | B854-04-102                     |                   |
| R2  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R3  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R4  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R5  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R6  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R7  | TOP HEAT ELEMENT 0.4kW         | B854-04-100                     |                   |
| R8  | BOTTOM HEAT ELEMENT 0.5kW      | B854-04-101                     |                   |
| R9  | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| R10 | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| R11 | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| R12 | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| R13 | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| R14 | BOTTOM HEAT ELEMENT 0.4kW      | B854-04-100                     |                   |
| S1  | SOUNDER                        | B723-92-002 (ONLY COLOUR OVENS) |                   |

**PARTS LIST FOR DRAWINGS FOLLOWING – 1 TRAY WIDE**

|    |             |             |                   |
|----|-------------|-------------|-------------------|
| F1 | HEATERS MCB | B872-22-005 | Single phase only |
| F2 | HEATERS MCB | B872-22-005 |                   |
| F3 | HEATERS MCB | B872-22-005 |                   |

|    |                          |             |
|----|--------------------------|-------------|
| F4 | CONTROL POWER SUPPLY MCB | B872-22-062 |
| F5 | OVERHEAT THERMOSTAT      | B888-30-014 |

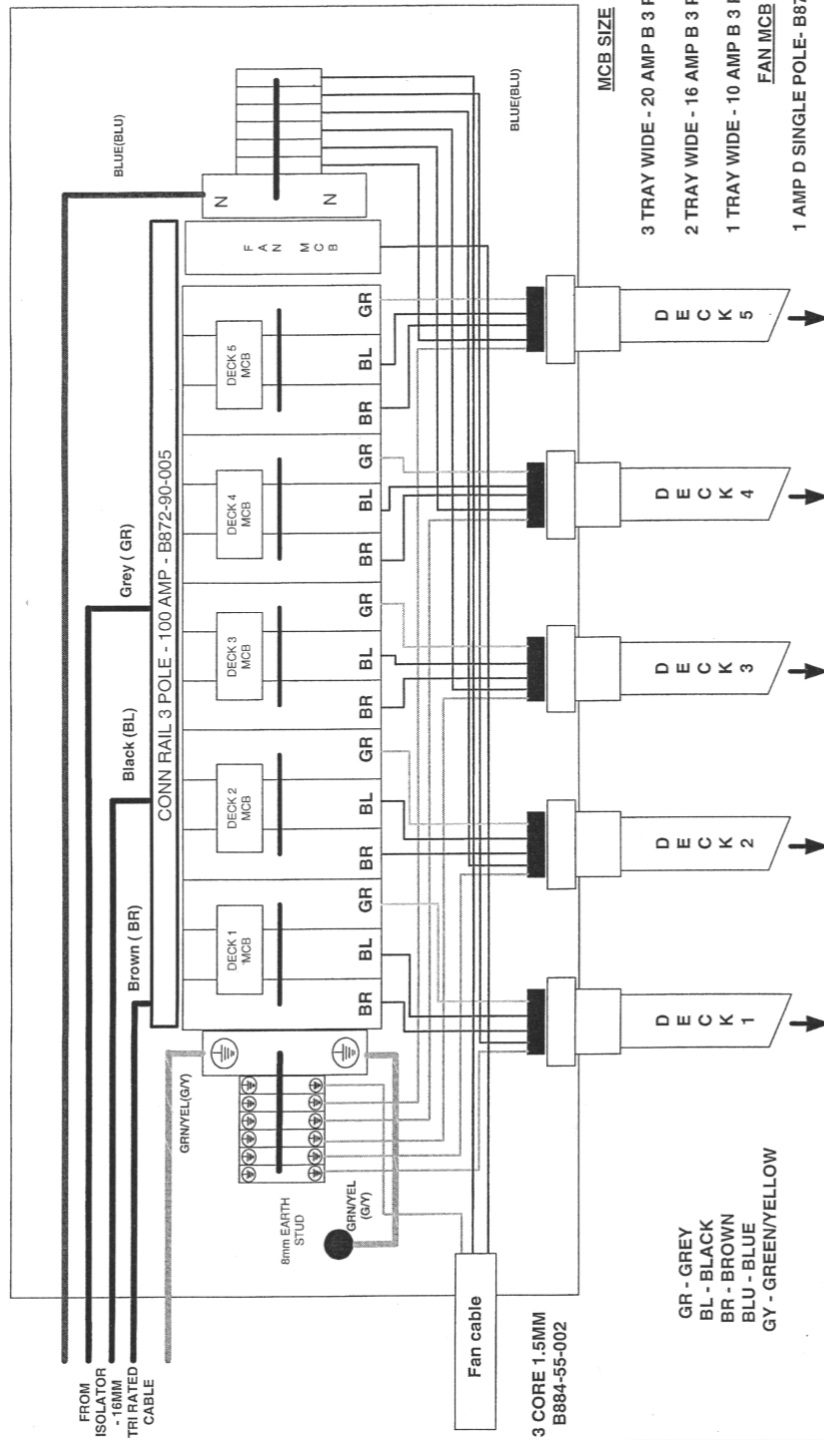
|    |                                |                              |
|----|--------------------------------|------------------------------|
| T1 | CONTROL CIRCUIT POWER SUPPLY   | B801-93-005                  |
| K1 | TOP HEAT CONTACTOR             | B801-08-021                  |
| K2 | BOTTOM HEAT CONTACTOR          | B801-08-021                  |
| Y1 | WATER SOLENOID (10mm pipe)     | A900-34-349(up to May 2007)  |
|    | WATER SOLENOID (8mm pipe)      | A900-34-365 (after May 2007) |
| H1 | INTERIOR LIGHT                 | B855-94-008                  |
| B1 | OVEN THERMOCOUPLE              | B873-95-003                  |
| U1 | MAIN LED PRINTED CIRCUIT BOARD | M257-25-00040                |
| D1 | DAMPER SOLENOID                | B749-83-004                  |

|    |                         |             |
|----|-------------------------|-------------|
| R1 | TOP HEAT ELEMENT 0.35kW | B854-04-111 |
| R2 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |
| R3 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |
| R4 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |
| R5 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |
| R6 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |
| R7 | TOP HEAT ELEMENT 0.2kW  | B854-04-109 |

|     |                            |             |
|-----|----------------------------|-------------|
| R8  | BOTTOM HEAT ELEMENT 0.25kW | B854-04-110 |
| R9  | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |
| R10 | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |
| R11 | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |
| R12 | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |
| R13 | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |
| R14 | BOTTOM HEAT ELEMENT 0.2kW  | B854-04-109 |

|    |         |                                 |
|----|---------|---------------------------------|
| S1 | SOUNDER | B723-92-002 (ONLY COLOUR OVENS) |
|----|---------|---------------------------------|

**TOP CANOPY MK 2 DECK OVEN MCB WIRING**



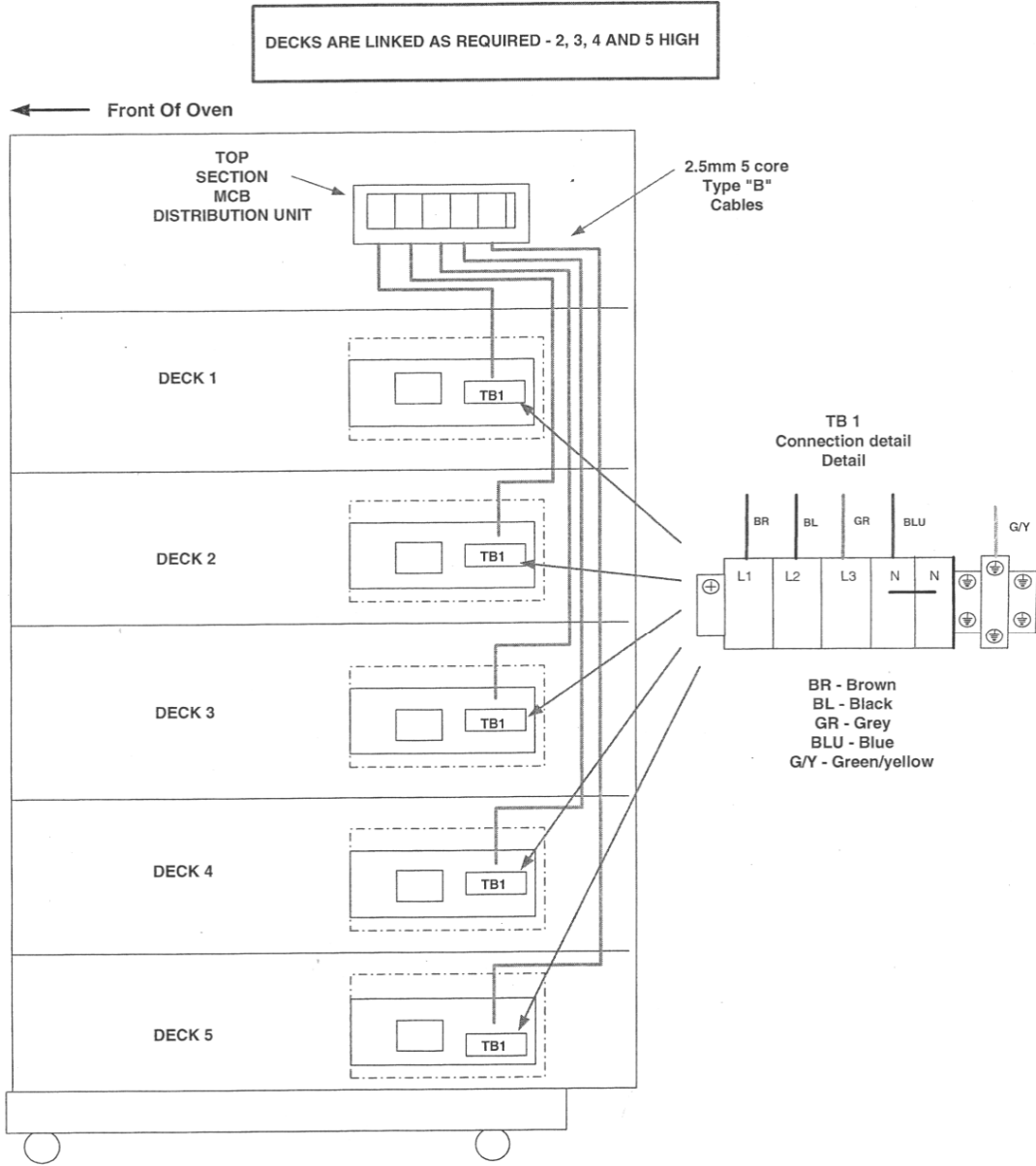
- MCB SIZE**
- 3 TRAY WIDE - 20 AMP B 3 POLE- B872-22-027
  - 2 TRAY WIDE - 16 AMP B 3 POLE- B872-22-026
  - 1 TRAY WIDE - 10 AMP B 3 POLE- B872-22-025
- FAN MCB**
- 1 AMP D SINGLE POLE- B872-22-060


|   |  |  |
|---|--|--|
| MONO EQUIPMENT<br>SWANSEA WEST AND PARK<br>SWANSEA<br>TEL: (01792) 84324<br>FAX: (01792) 84318<br>Email: <a href="mailto:engineering@monocable.com">engineering@monocable.com</a> | TITLE  | UK/EUROPE TOP SECTION MCB WIRING DISTRIBUTION UNIT           |
|   | ELECTRICAL SPECIFICATIONS:<br>400V 50/60 HZ<br>3 PHASE + N+E | DRAWN: ADT<br>DATE: 19-2-07<br>ELECTRICALLY APPROVED BY: ADT |
|   | REV:   | M257E25-52300  |

MAINS CABLE TO EACH DECK (TB1) 2.5MM 5 CORE TYPE B B843-57-003

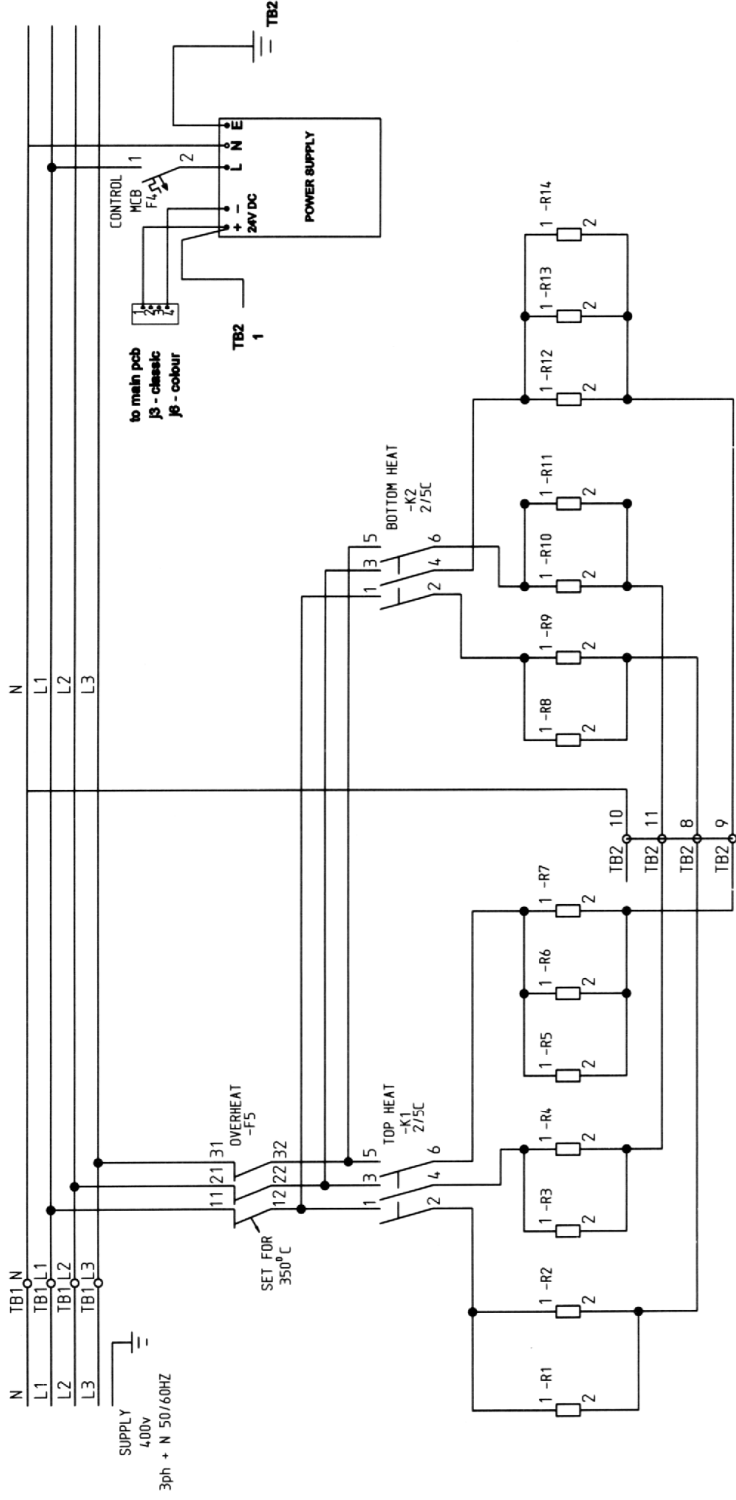
- GR - GREY
- BL - BLACK
- BR - BROWN
- BLU - BLUE
- GY - GREEN/YELLOW

# DX UK Modular MK2 Deck Oven Interlink Detail

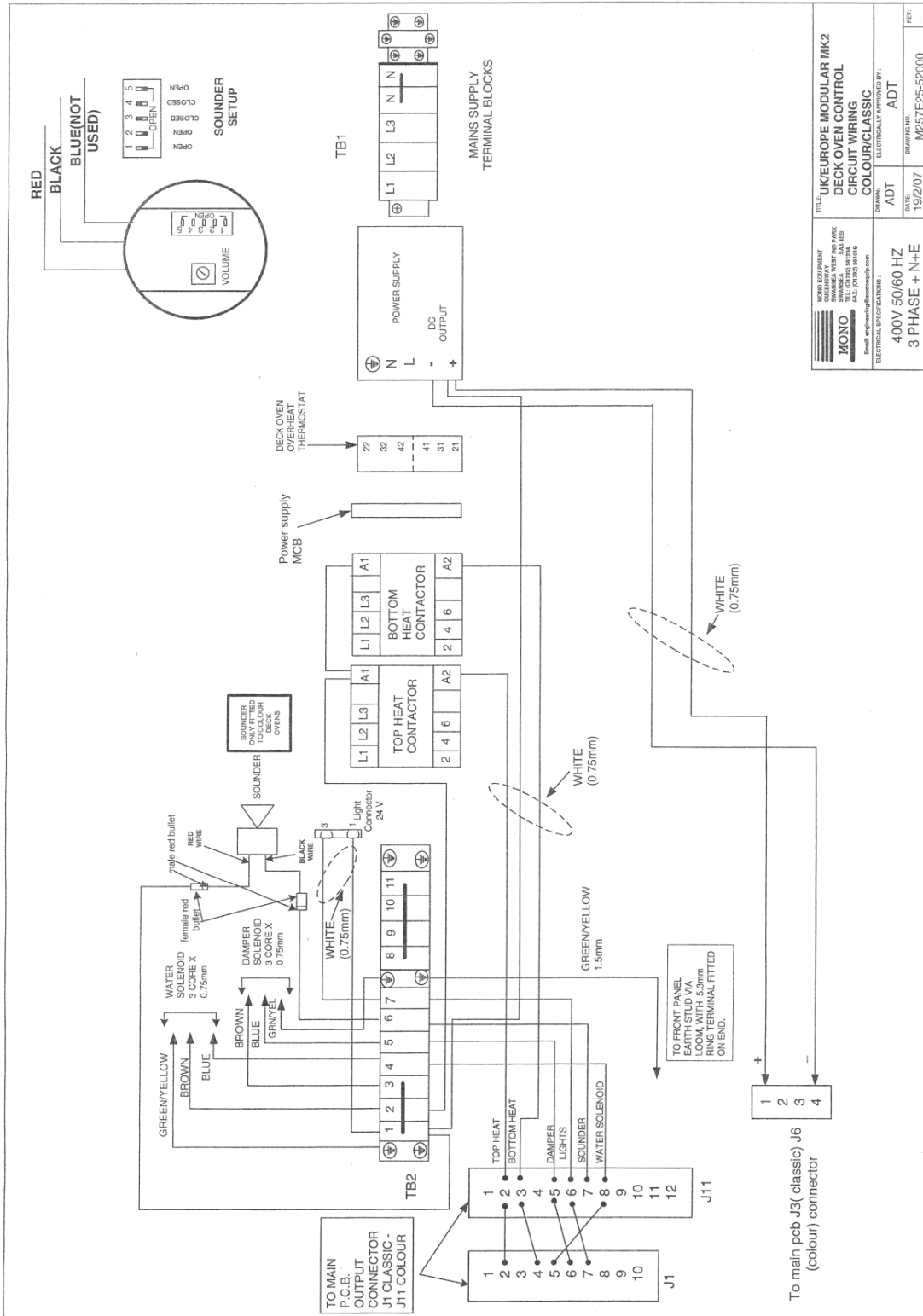


|   |   |                              |                                  |
|---|---|------------------------------|----------------------------------|
|  <p>MONO EQUIPMENT<br/>QUEENSWAY<br/>SWANSEA WEST IND PARK<br/>SWANSEA SA3 4EP<br/>TEL: (01792) 961204<br/>FAX: (01792) 961016<br/>Email: <a href="mailto:engineering@monoquip.com">engineering@monoquip.com</a></p> | TITLE:<br>UK/EUROPE MODULAR MK 2<br>DECK OVEN INTERLINK<br>DETAIL |                              |                                  |
|   | ELECTRICAL SPECIFICATIONS:<br>400V 50/60 HZ<br>3 PHASE + N+E      | DRAWN:<br>ADT                | ELECTRICALLY APPROVED BY:<br>ADT |
|   | DATE:<br>19-2-07  | DRAWING NO.<br>M257E25-52500 | REV:<br>-                        |

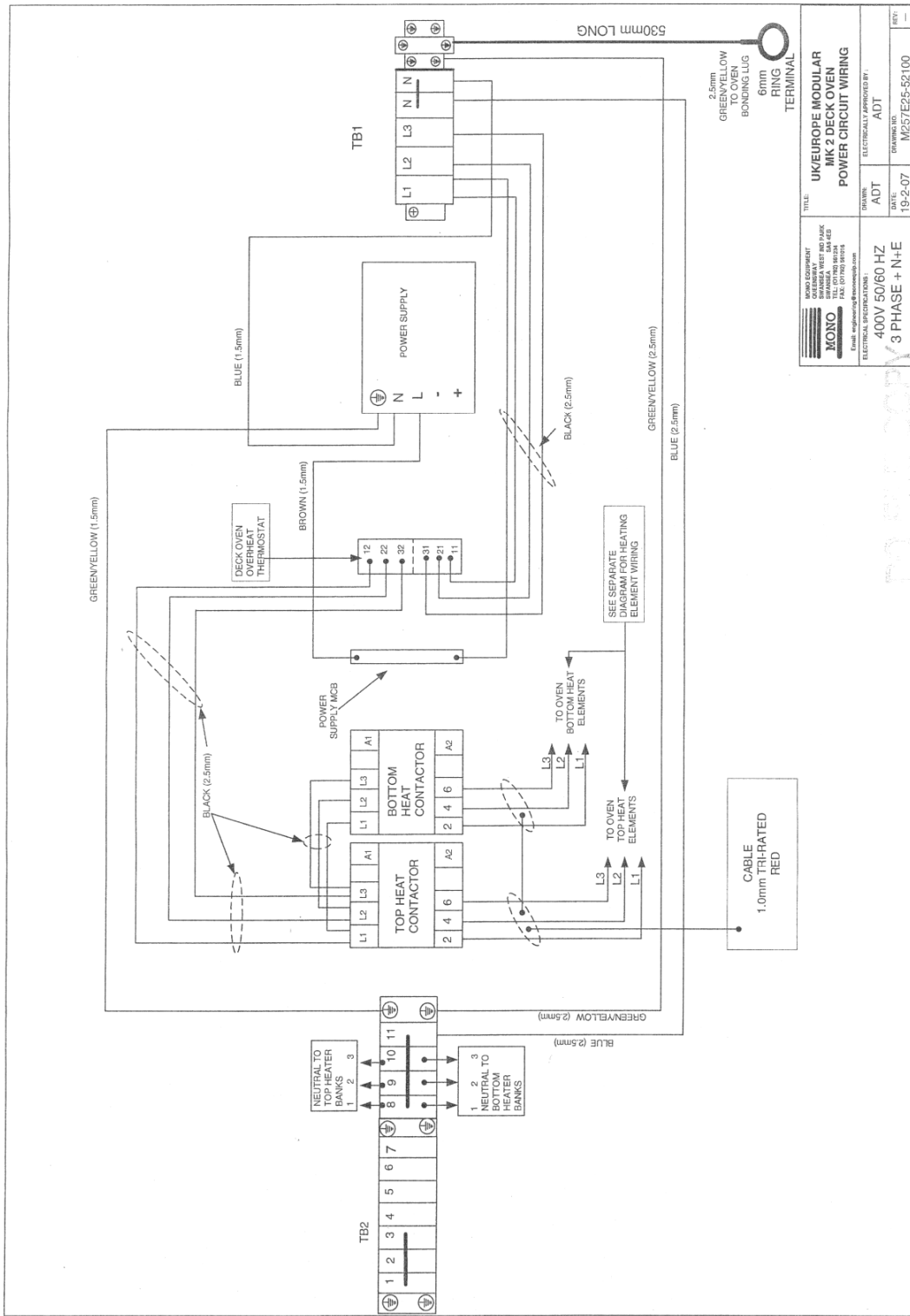
IF IN ANY DOUBT - ASK



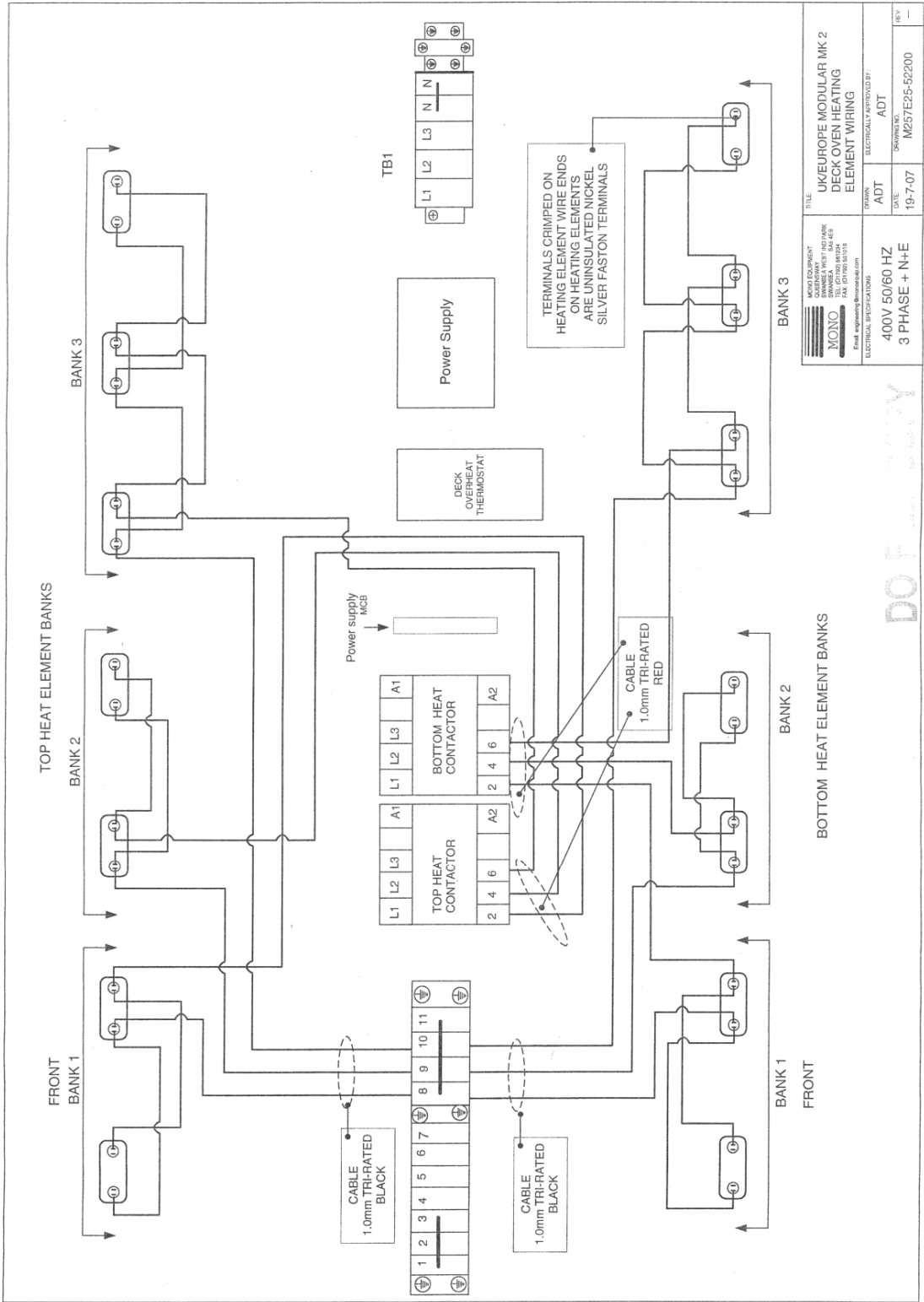
| REV   | SIG | DATE  | REVISION | ECN NO.   |
|---|-----|---|----------|---|
|   |     |   |          |   |
|   |     | <b>TITLE:</b> MODULAR DECK OVEN<br>POWER CIRCUIT<br>TOP-BOTTOM HEAT |          |   |
| <b>MONO EQUIPMENT</b><br>QUEENSWAY<br>SWANSEA WEST IND PARK<br>SWANSEA,<br>SA5 4EB.<br>TEL: (01792) 561234<br>FAX: (01792) 561016   |     | <b>UK</b>   |          |   |
| <b>ELECTRICAL SPECIFICATIONS:-</b><br>400V 3PH & N + E<br>50/60 HZ  |     | <b>DRAWN:</b> RAC<br><b>ELECTRICALLY APPROVED BY:-</b> AT           |          |   |
| COPYRIGHT © 1998 - THIS DESIGN/DRAWING IS THE PROPERTY OF MONO EQUIPMENT LTD. AND MUST NOT BE REPRODUCED, COPIED, NOR ITS CONTENTS DIVULGED WITHOUT PRIOR WRITTEN PERMISSION. |     |   |          | <b>DRAWING NO.:</b> M257E25-30000<br><b>DATE:</b> 7/3/07<br><b>REV:</b> — |



|   |   |  |
|---|---|--|
| <p>MONO EQUIPMENT<br/>         SWANSEA WEST IND PARK<br/>         SWANSEA SA1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100<br/>         TEL: 01792 911124<br/>         FAX: 01792 911118<br/>         Email: info@mono.co.uk</p> | <b>TITLE</b> UK/EUROPE MODULAR MK2<br>DECK OVEN CONTROL<br>CIRCUIT WIRING<br>COLOUR/CLASSIC   |  |
|   | <b>DATE</b> 19/2/07<br><b>DESIGNED BY</b> ADT<br><b>DRAWN</b> ADT<br><b>ELECTRICAL SPECIFICATION</b> 400V 50/60 HZ<br>3 PHASE + N+E | <b>UTTERED BY</b> ADT<br><b>REVISED BY</b> ADT<br><b>REV</b> 1 |



|  |  |                 |                               |
|--|--|-----------------|-------------------------------|
| <br>MONO EQUIPMENT<br>30 WINDMILL WHEEL RD DARK<br>BRIMLEY RD, WALSLEY, S64 0LN<br>TEL: 01924 789324<br>WWW.MONOEQUIPMENT.CO.UK<br>Email: engineering@mono.co.uk | TITLE<br><b>UK/EUROPE MODULAR<br/>         MK2 DECK OVEN<br/>         POWER CIRCUIT WIRING</b> | DRAWN<br>ADT    | ELECTRICAL APPROVED BY<br>ADT |
|  | 400V 50/60 HZ<br>3 PHASE + N+E   | DATE<br>19-2-07 | DRAWING NO.<br>M257EP5-52100  |



|   |   |
|---|---|
| <b>MONO EQUIPMENT</b><br><br>MONO<br>BOARD & WIRE MOUNTING<br>15010<br>10000<br>01783 843322<br>FAX 01783 515115<br>Email: info@mono.co.uk<br>www.mono.co.uk | <b>TITLE</b><br>UK/EUROPE MODULAR MK 2<br>DECK OVEN HEATING<br>ELEMENT WIRING |
| <b>DATE</b><br>19-7-07  | <b>ADT</b><br>ADT   |
| <b>3 PHASE + N+E</b><br>400V 50/60 HZ   | <b>REV</b><br>—   |

**FRONT BANK 1**  
**FRONT BANK 2**  
**FRONT BANK 3**

**TOP HEAT ELEMENT BANKS**  
**BACK HEAT ELEMENT BANKS**

DECK OVERHEAT THERMOSTAT

Power supply MCB

TOP HEAT CONTACTOR

BOTTOM HEAT CONTACTOR

Power Supply

TB1

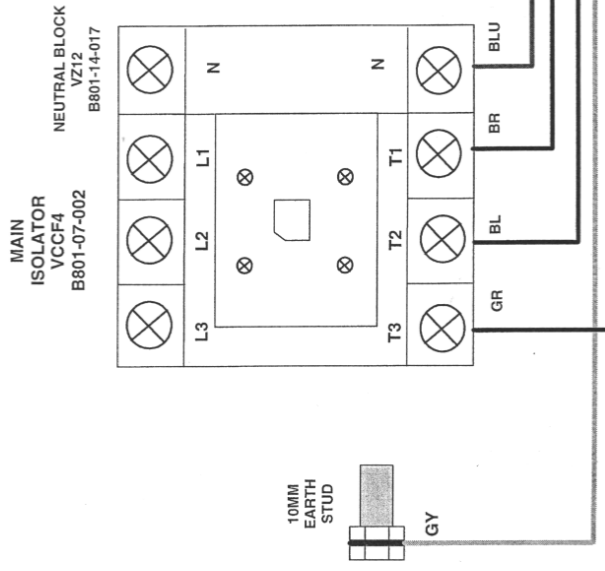
CABLE 1.0mm TRI-RATED BLACK

CABLE 1.0mm TRI-RATED RED

**DOF SECURITY**



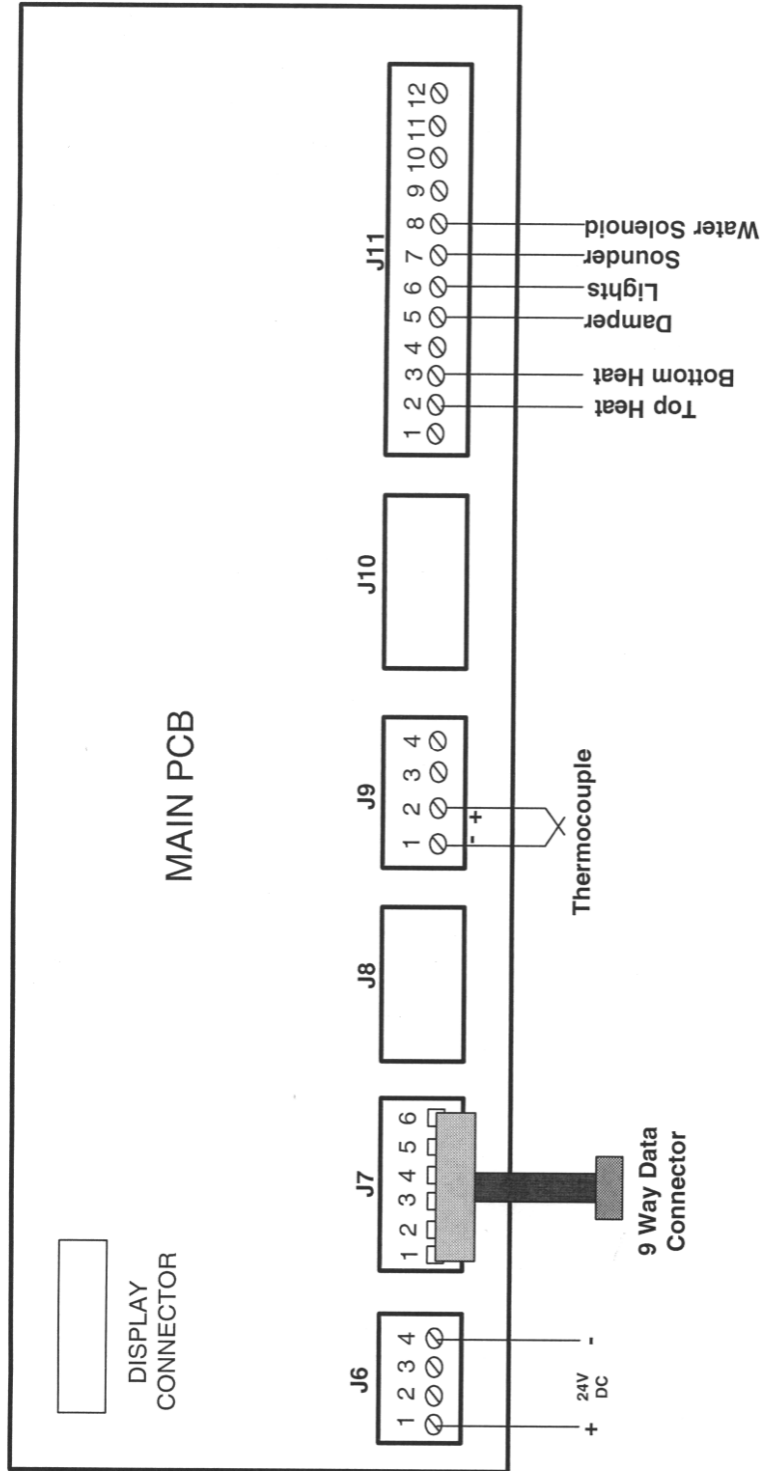
**MODULAR DECK MK 2 MAIN ISOLATOR WIRING**



GR - GREY  
BL - BLACK  
BR - BROWN  
BLU - BLUE  
GY - GREEN/YELLOW

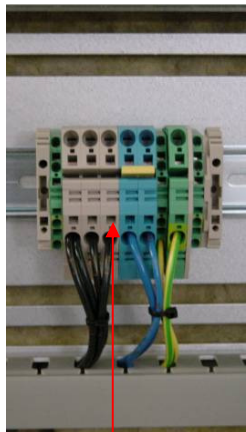
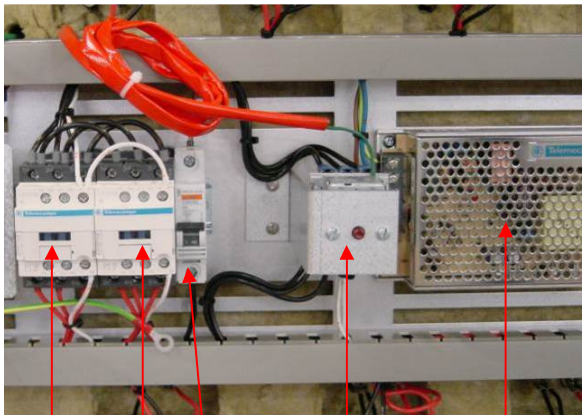
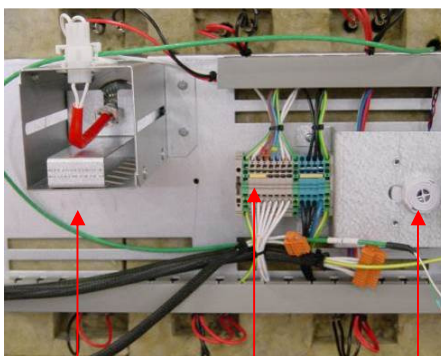
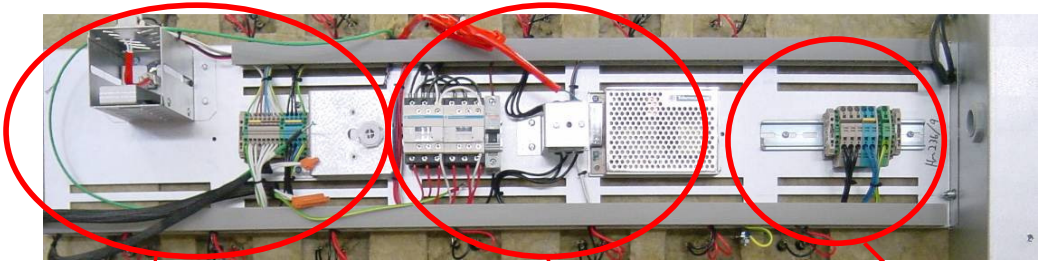
|   |  |   |
|---|--|---|
| <p>MONO EQUIPMENT<br/>DUNDEEVALE INDUSTRIAL PARK<br/>SPRANEA, DUNDEE<br/>TEL: (01793) 811114<br/>FAX: (01793) 811118<br/>Email: engineering@monoequip.com</p> | <p><b>TITLE</b><br/>UK/EUROPE MODULAR MK 2<br/>DECK OVEN ISOLATOR WIRING</p> |   |
|   | <p><b>DRAWN</b><br/>ADT</p>  | <p><b>ELECTRICALLY APPROVED BY:</b><br/>ADT</p> |
| <p><b>ELECTRICAL SPECIFICATIONS:</b><br/>400V 50/60 HZ<br/>3 PHASE + N+PE</p>   |  | <p><b>DATE</b><br/>19-2-07</p>                  |
|   |  | <p><b>DRAWING NO.</b><br/>M257E25-52400</p>     |
|   |  | <p><b>REV:</b><br/>---</p>                      |

DX UK/Europe Modular MK2 Colour Smart Controller Connections Layout



|  |   |                                     |
|--|---|-------------------------------------|
| MONO EQUIPMENT<br>15 WINDMILL LANE<br>SWANSEA WEST IND PARK<br>SWANSEA SA4 4EB<br>TEL: (01792) 861234<br>FAX: (01792) 861016<br>Email: engineering@monoequip.com | TITLE: UK/EUROPE MODULAR MK 2<br>DECK OVEN COLOUR<br>CONTROLLER CONNECTION LAYOUT |                                     |
|  | DRAWN: ADT  | ELECTRICALLY APPROVED BY: ADT       |
| ELECTRICAL SPECIFICATIONS:<br>400V 50/60 HZ<br>3 PHASE + N+E   | DATE: 19-2-07   | DRAWING NO: M257E25-52600<br>REV: — |

**ELECTRICAL PANEL MAIN COMPONENTS  
(UK Colour)**



TB2 S1

POWER SUPPLY

H1

K1 K2 F4 F5

TB1

## OVEN CANOPY LAYOUT PARTS LIST

|    |  |             |
|----|--|-------------|
| C1 | CANOPY FAN CAPACITOR                             | B869-23-005 |
| Q1 | CANOPY FAN ON/OFF SWITCH                         | B895-07-005 |
| M1 | CANOPY FAN MOTOR                                 | B869-75-026 |
|    | CAPACITOR – 4-6uf – 400VDB – METAL               | B869-23-005 |
|    | FAN TYPE R2E225-AG01-21<br>(230V, 0.88AMP, 200W) | B869-75-026 |





**MONO Equipment**

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**[www.monoequip.com](http://www.monoequip.com)**

As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice.

▪ **DISPOSAL**

Care should be taken when the machine comes to the end of its working life. All parts should be disposed of in the appropriate place, either recycling or other means as the law permits at the time.