

CONDENSER SERIAL No. \_\_\_\_\_(IF FITTED) In the event of an enquiry please quote these numbers.





**ECOTOUCH CONTROL** 

OPERATION AND MAINTENANCE OF OVEN AND CONDENSER UNIT (IF FITTED)



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 2006 / 95 / EC
- The requirements of the Electromagnetic Compatibility Directive 2004 / 108EC, 91 / 263 / EEC, 92 / 31 / EEC
- 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
- Good manufacturing practice for Materials intended to come into contact with food - Regulation (EC) No. 2023 / 2006

Signed	CHAD Whows.	
	G.A.Williams – Quality Manager	
Date		
Machine FG Code.	Machine Serial No.	

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

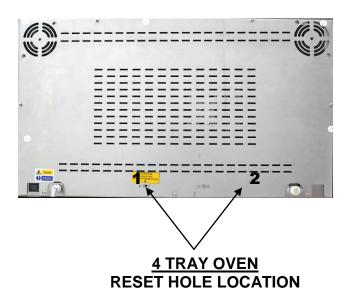
#### MONO EQUIPMENT Queensway, Swansea West Industrial Park, Swansea SA5 4EB UK

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

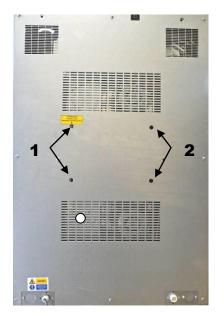
Registered office: Unit 35, Bryggen Road, North Lynn Industrial Estate, Kings Lynn Norfolk, PE30 2HZ



IF OVEN FAILS TO HEAT UP, WHEN FIRST CONNECTED TO A POWER SUPPLY OR DURING USE AT ANYTIME, PRESS RESET BUTTON(S) LOCATED THROUGH THE REAR BACK PANEL. (DO NOT REMOVE BACK PANEL)



HOLE CAN BE AT POSITION 1 OR POSITION 2 DEPENDING ON OVEN



<u>10 TRAY OVEN</u> RESET HOLE LOCATION HOLES CAN BE AT POSITION 1 OR POSITION 2 DEPENDING ON OVEN

#### **REAR VIEW OF OVENS**

IF THIS FAILS TO CORRECT THE SITUATION, PLEASE CONTACT YOUR SUPPLIER

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### **MONO** Contact Information

### **1.0 INTRODUCTION**

- A combination of clean industrial design and the latest technology, the **MONO BX oven range** is designed specifically to take the baking Industry's standard trays.
- The ovens in the range are of **stainless steel construction** and some have removable tray racks to aid cleaning.
- The smaller ovens are designed to be **stackable** without separate support, so your business can grow without taking up more ground space.
- The high-speed fans, elements and steam systems give **efficient air circulation** to produce a professional bake across a range of products.
- The doors are **double glazed** to increase the efficiency of the ovens well-insulated baking chamber
- Ovens are supplied with **LCD TOUCH** displays for the user-friendly control panels. A voice prompt facility is also available for the basic instructions like "Bake over".





10-TRAY Bx OVEN

• The 10-tray Bx is supplied with a 10-tray capacity stainless steel base with locking castors.



#### **OPTIONAL CONDENSER**



• The optional condenser unit can be fitted to any Bx oven or stacked Bx ovens as required. With thermostatic control it can be adjusted to operate in most ambiant temperatures.

### **2.0 SPECIFICATIONS**

	4/5 TRAY OVENS			10 TRAY OVENS	
	FG159	FG153	FG158	FG150	FG149
TRAY SIZE	18"x30"	40x60	60x40	18"x30"	40x60
HEIGHT	525mm	525mm	570mm	1170mm	1170mm
HEIGHT OF OVEN ON BASE				1870mm	1870mm
WIDTH	840mm	780mm	1000mm	840mm	780mm
DEPTH – DOOR CLOSED	1269mm	1103mm	890mm	1309mm	1109mm
DEPTH – DOOR OPEN	1828mm	1610mm	1610mm	1870mm	1609mm
WEIGHT (kg)	165	115	110	290	250

#### POWER (uk versions)

4/5 TRAY OVENS - 240v. 1 PHASE, 50HZ 415v. 3 PHASE, + NEUTRAL + EARTH, 50HZ

10 TRAY OVENS - 415v. 3 PHASE, + NEUTRAL + EARTH, 50HZ

#### <u>WATER</u>

Supplied with 1 Metre flexible hose  $-\frac{3}{4}$ " B.S.P. BOTH ENDS.

WATER PRESSURE 2bar – 4bar Domestic pressure is usually within this parameter.

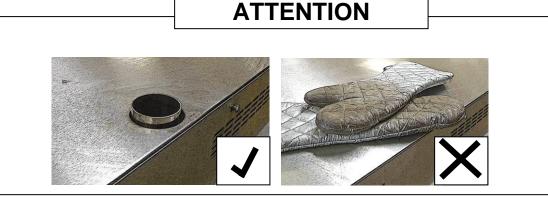
Water conditioning unit advised.

No drain required (unless condenser fitted).

### 3.0 SAFETY

In the interest of safety and efficient operation of the oven, it is essential that this manual should be made available to the operator before work is commenced. The following points should be observed and followed at all times.

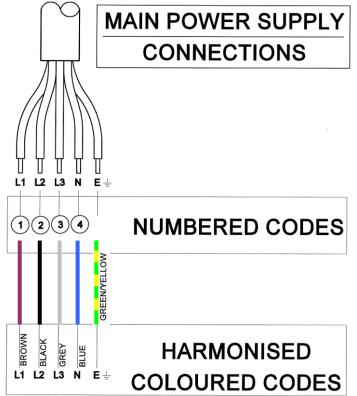
- 1. The oven is designed for baking of bread, confectionery and savoury products only. DO NOT use it for any other items without consulting with **MONO**.
- 2. The oven must be allowed to cool before any form of cleaning is started.
- 3. All repairs and maintenance of electrical units must be carried out by authorised electricians; even then, electrical access panels must not be opened unless the mains supply to the oven is isolated.
- 4. All connections to the oven must be made in accordance with the statuary requirements of the country of installation.
- 5. While the oven is in operation (and for some time after use), it is inadvisable to touch the oven window or the surrounds because of conducted heat.
- 6. The oven must be operated as described in this manual.
- 7. Only **MONO** spare parts should be used on this oven.
- 8. The construction of the oven must not be changed.
- 9. The owner of the oven is legally obliged to instruct staff of these safety points and of the safe operation of the oven. These instructions should not be removed from the working area.
- 10. To prevent door glass from shattering -DO NOT CLEAN OVEN GLASS WHEN HOT.
- 11. Customers operating a BX oven in a hard water area must ensure that an efficient water-softening device protects the water supply to the equipment.
- 12. Oven gloves should be worn when moving products in or out of the oven.



# DO NOT COVER THE DAMPER FLUE

### 4.0 INSTALLATION

1. The oven should be connected to a wall isolator.



- 2. It is the customers' sole responsibility to arrange adequate ventilation and it should be sufficient to ensure water does not condense on or around the oven. A 50mm gap is required at the sides and rear of this oven. Chimneys and evacuation ducts, fitted above mono ovens should be insulated.
- 3. If an oven with steam has been chosen, connect to a suitable water supply making sure that the pipes are flushed out to remove all foreign bodies i.e. flux or solder. Customers in hard water areas must ensure that an efficient water treatment device protects the supply to the oven. It is the customers' responsibility to install and maintain an adequate water supply to the oven, which should comply with local water regulations.
- 4. In the interests of hygiene, we strongly recommend that before using the oven for the first time you wipe the inside of the oven and all accessories thoroughly with a clean cloth soaked in warm soapy water. Although the utmost care is taken during assembly and predelivery inspection, there is always a possibility of residue contaminating the first bake if this is not done.
- 5. Ensure that the locking castors on the base unit (if supplied) are locked into position.

#### 6. AMBIENT WORKING TEMPERATURES.

Ambient working temperatures for electric/electronic components such as solenoid switches, circuit breakers, motors etc should be <u>no more than 40°C (115° f)</u> Manufacturers of these and other electrical components advise that any ambient temperature above 40°C affects the functionality of the components and any related guarantees become void. For example, above this temperature motors are not satisfactorily cooled, contactor efficiency is seriously impaired and electronic component malfunctioning during the guarantee period that is found to have been subject to excessive humidity or ambient working temperature above 40°C (115°F) will not be covered by the component manufacturers guarantee or MONO's product warranty.

### 5.0 ISOLATION

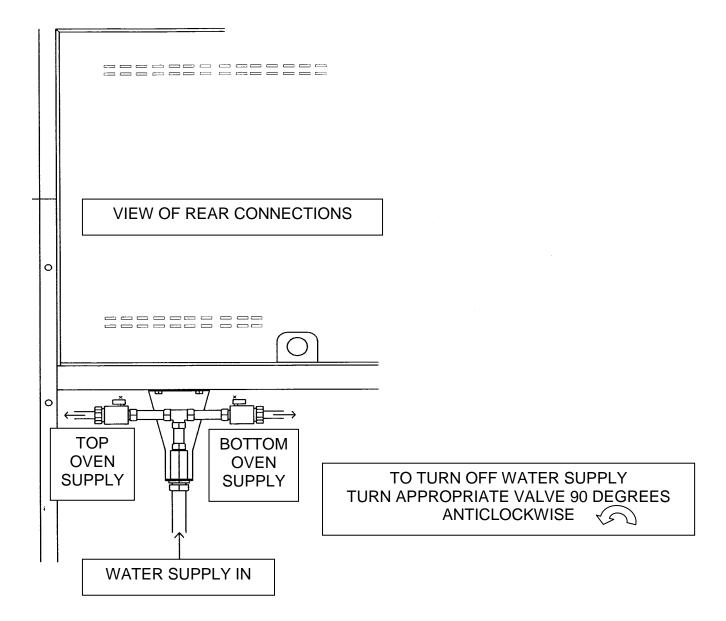
#### ELECTRICITY SUPPLY

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

#### WATER SUPPLY

For stacked ovens, the water supply can be shut off by closing the shut-off valves (See diagram)

For non-stacked ovens the water supply should be shut off at the nearest shut-off point



### 6.0 CLEANING INSTRUCTIONS

### DAILY

#### NOTE: BEFORE CLEANING, ISOLATE OVEN FROM MAINS SUPPLY AND ALLOW TO COOL.

- The equipment is to be cleaned daily using approved chloride-free cleaning fluid
- Sweep any debris (after it has been allowed to cool) onto oven removable trays and remove for cleaning.
- Brush down and wipe oven front, back and sides.
- Wipe clean with a damp cloth that has been soaked in a solution of mild detergent and hot water.

#### IMPORTANT: TAKE CARE WATER DOES NOT ENTER CONTROL PANEL OR REAR ACCESS PANEL.

#### DO NOT REMOVE THE REAR PANELLING INSIDE THE OVEN. THIS ALLOWS ACCESS TO THE FAN ASSEMBLY WHICH IS NOT SAFETY INTERLOCKED AND COULD CAUSE INJURY

### **WEEKLY**

#### NOTE: BEFORE CLEANING, ISOLATE OVEN FROM MAINS SUPPLY AND ALLOW TO COOL.

Complete daily check then

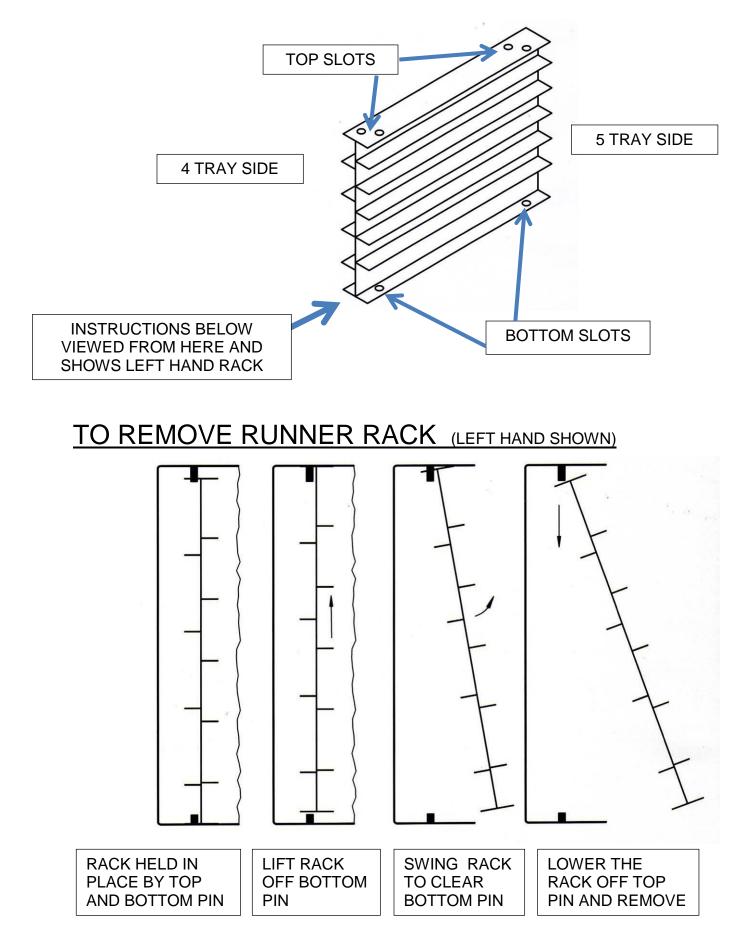
- Clean any burnt-on debris by careful use of a proprietary oven cleaner, carefully following the manufacturer's instructions. Do not allow the oven cleaner to get onto the control panel.
- Scrub cabinet wheels (if fitted), with a mild detergent and hot water using nylon cleaning brush.

#### Ovens using 60cm x 40cm trays (FG156 2 tray / FG158 4 tray)

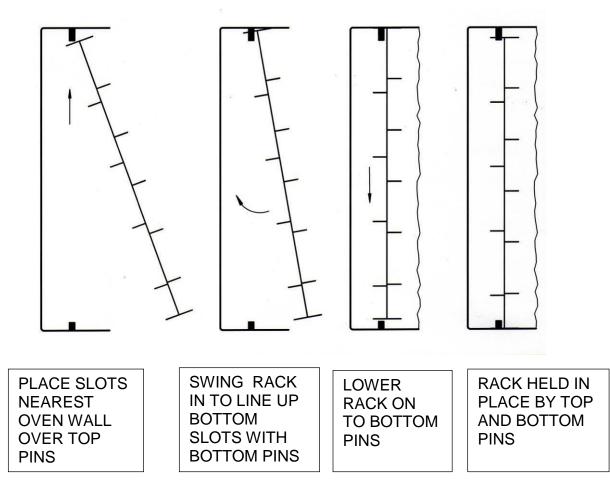
Open the oven door and remove internal runner racking from sides of oven. *(lift and unlatch racking. Further instructions on next pages).* This allows access to hidden areas in the oven, which can be wiped with a damp cloth.

Wipe down, and clean racking with a damp cloth and replace.

### **REMOVING AND INSTALLING RUNNER RACKS**

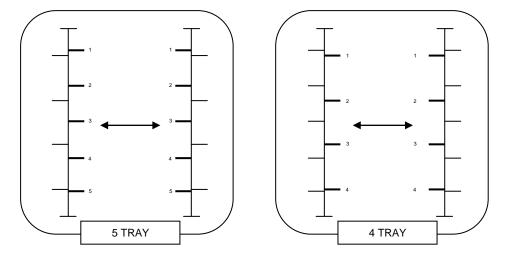


### TO INSTALL RUNNER RACK (LEFT HAND SHOWN)



#### <u>NOTE</u>

BEFORE ATTEMPTING TO FIT THE RACKS, ENSURE THAT BOTH RACKS HAVE THE CORRECT NUMBER OF RUNNERS FACING EACH OTHER.

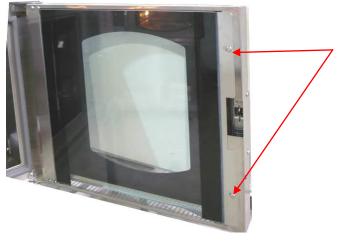


#### 4 tray ovens

The inner door glass is hinged to enable cleaning of internal surfaces.

To open, remove the two screws shown in the picture below.

The internal surfaces of the door glass can then be cleaned using a suitable glass cleaner.



Remove these screws to release inner glass for cleaning

### 7.0 IDEAL OPERATING CONDITIONS

- Room should be allowed for the door to open fully to allow easy loading and unloading of product without people coming in contact with hot surfaces.
- Racks should be available to allow cooked products to cool safely.
- Oven gloves should be available at all times.
- It is the customers' sole responsibility to arrange adequate ventilation and it should be sufficient to ensure water does not condense on or around the oven. A 50mm gap is required at the sides and rear of this oven.
- Chimneys and evacuation ducts, fitted above mono ovens should be insulated

#### AMBIENT WORKING TEMPERATURES.

Ambient working temperatures for electric/electronic components such as solenoid switches, circuit breakers, motors etc should be <u>no more than 40°C (115° f)</u>

Manufacturers of these and other electrical components advise that any ambient temperature above 40°C affects the functionality of the components and any related guarantees become void. For example, above this temperature motors are not satisfactorily cooled, contactor efficiency is seriously impaired and electronic components shut down. It is the customers' sole responsibility to arrange for adequate ventilation. Any component malfunctioning during the guarantee period that is found to have been subject to excessive humidity or ambient working temperature above 40°C (115°F) will not be covered by the component manufacturers guarantee or MONO's product warranty.



# **Section 8**

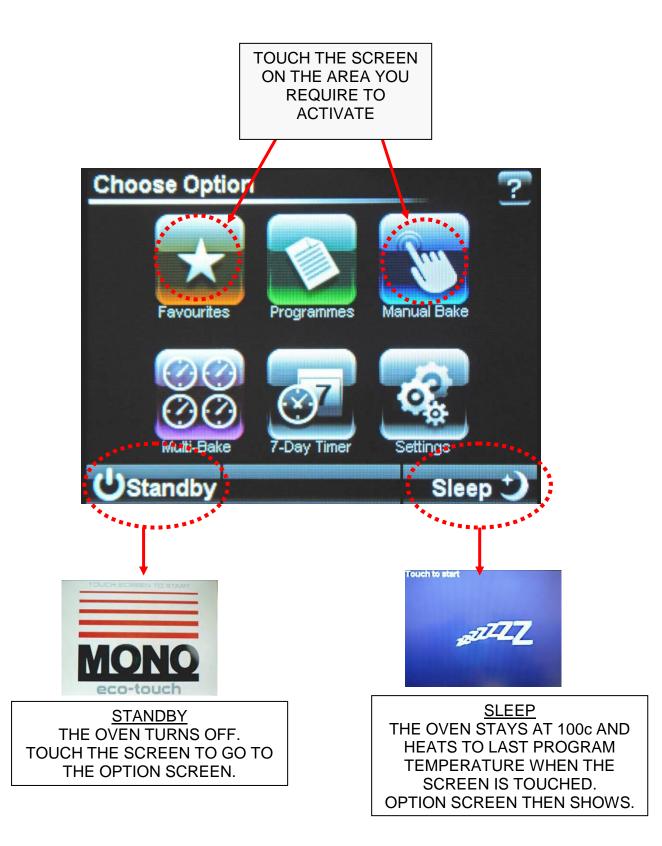
### TOUCH SCREEN OPERATING INSTRUCTIONS

# **BASIC OPERATION**

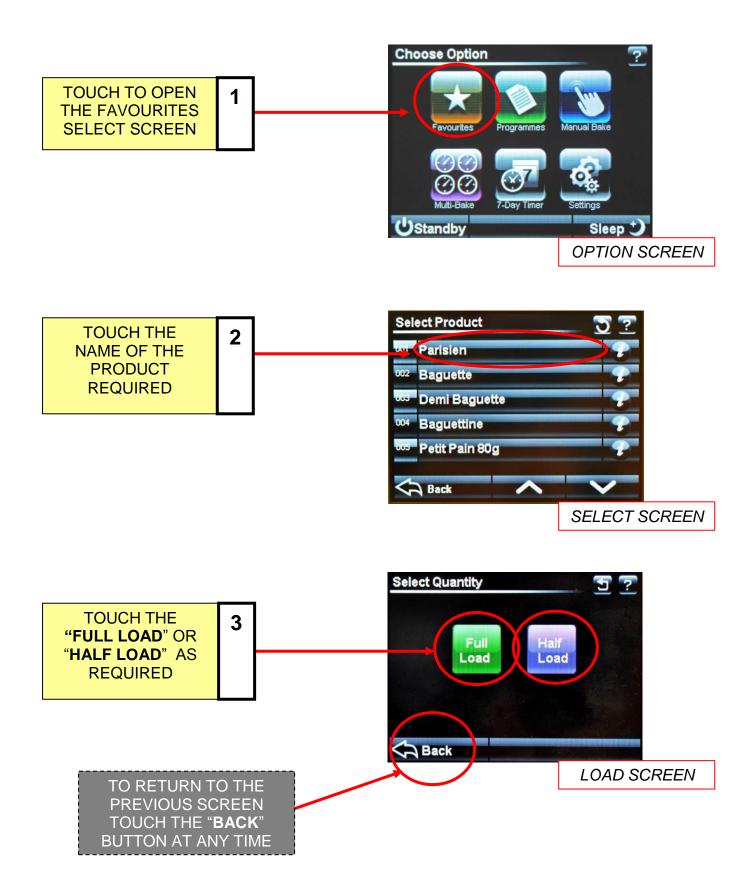
# ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN, WHICH WILL PASS YOU ON TO THE NEXT INFORMATION PANEL.

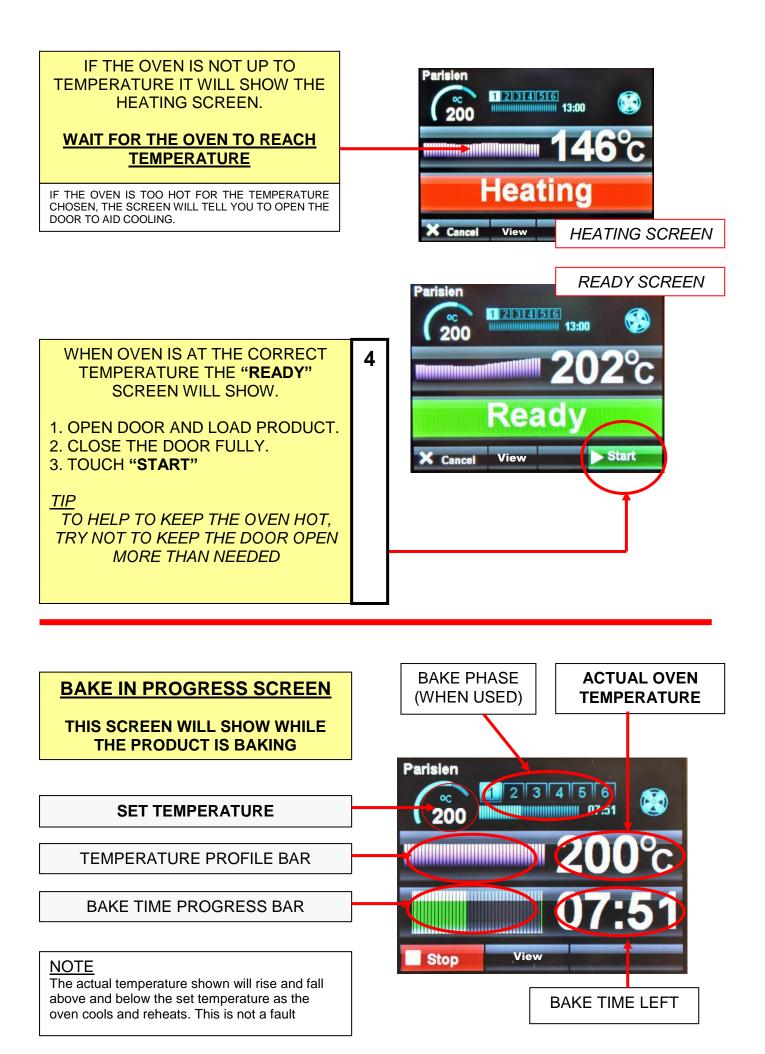
DO NOT USE EXCESSIVE FORCE.

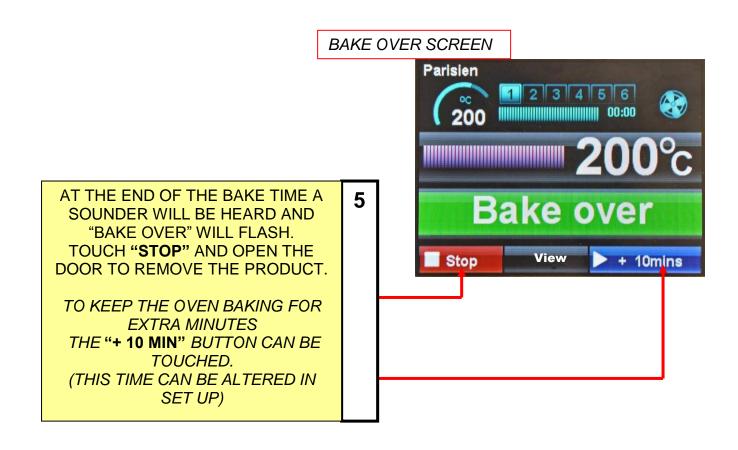
(THE PRESSURE REQUIRED TO OPERATE THE PANEL CAN BE ALTERED IN THE SETTINGS SECTION)



### 8-1.0 BAKING USING FAVOURITES MENU

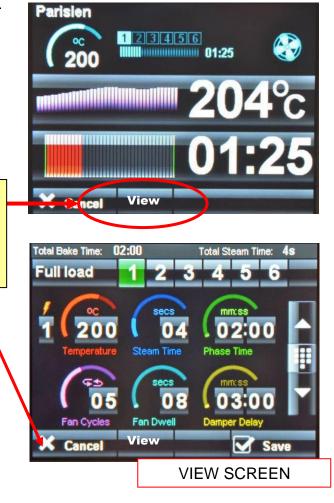






#### TOUCHING "VIEW" BUTTON DURING A BAKE

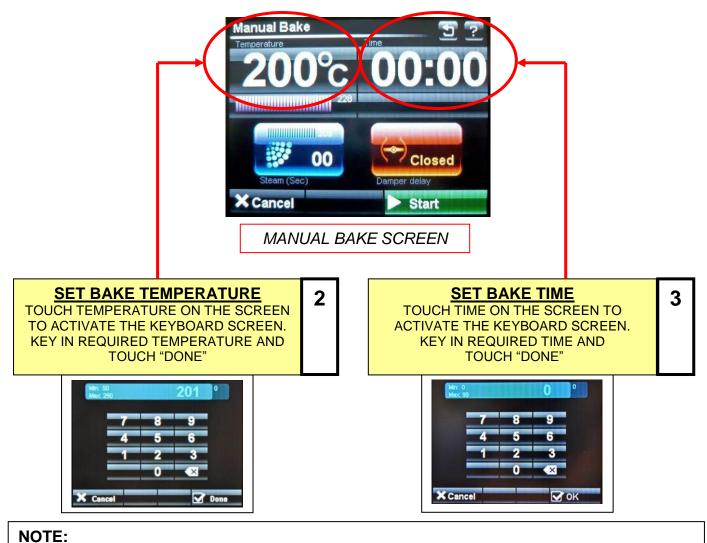
TOUCHING "**VIEW**" BUTTON DURING A BAKE WILL SHOW THE SETTINGS FOR THE BAKE IN PROGRESS. TOUCH "**CANCEL**" TO GO BACK TO THE PREVIOUS SCREEN.



### 8 - 2.0 BAKING USING MANUAL MENU

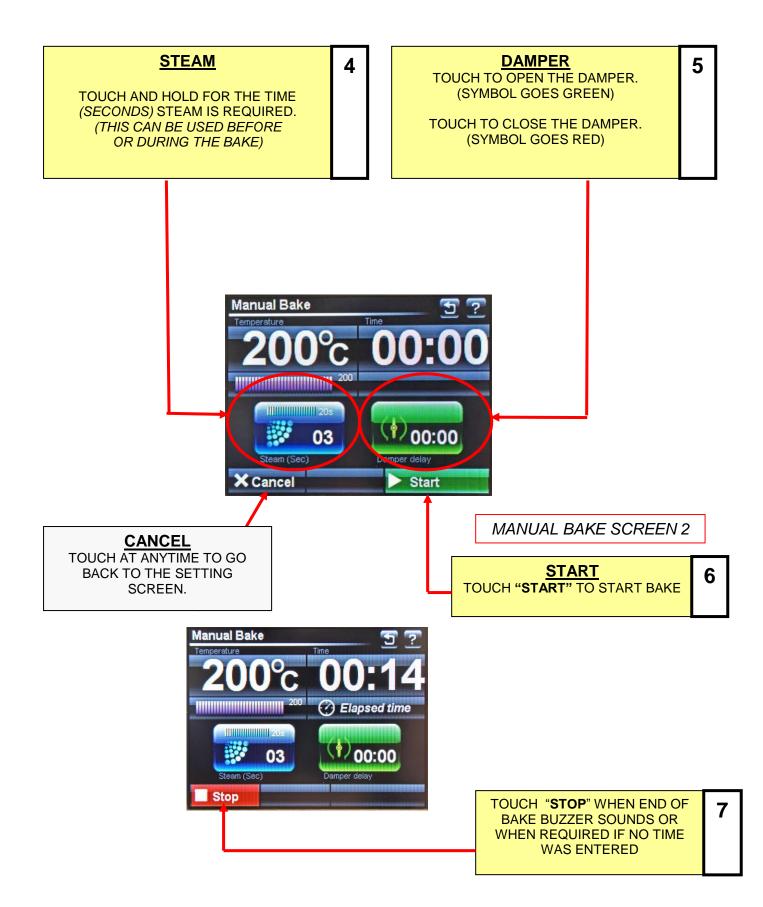


### SET BAKE TIME AND TEMPERATURE

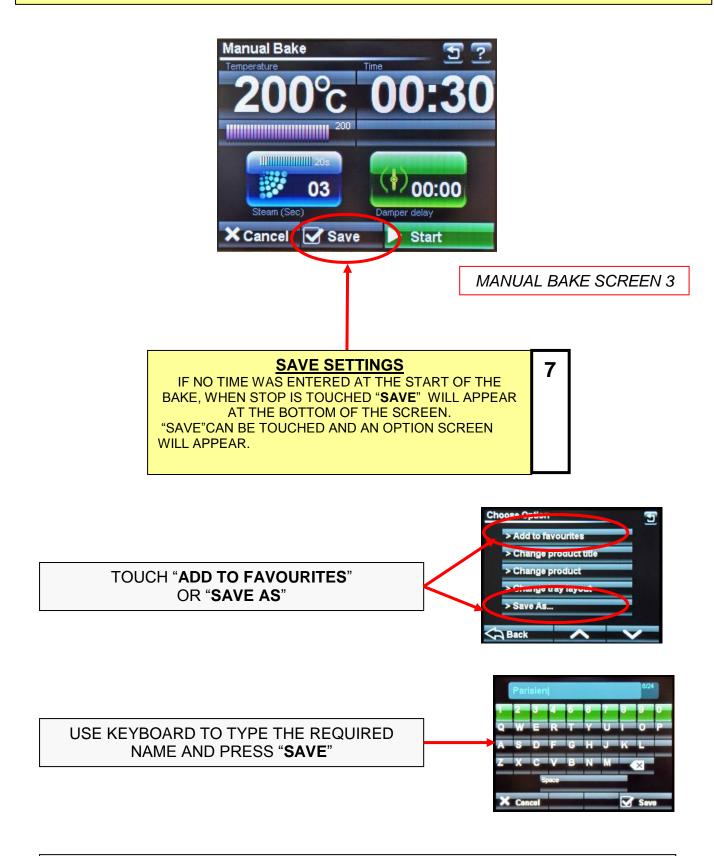


TIME DOES NOT HAVE TO BE SET IN MANUAL MODE. (ONLY TEMPERATURE) WHEN START IS TOUCHED, THE TIME WILL COUNT UP INSTEAD OF DOWN. TOUCH STOP TO FINISH BAKE.

### USE STEAM TIME AND DAMPER IF REQUIRED



### SAVE MANUAL PROGRAM, IF REQUIRED

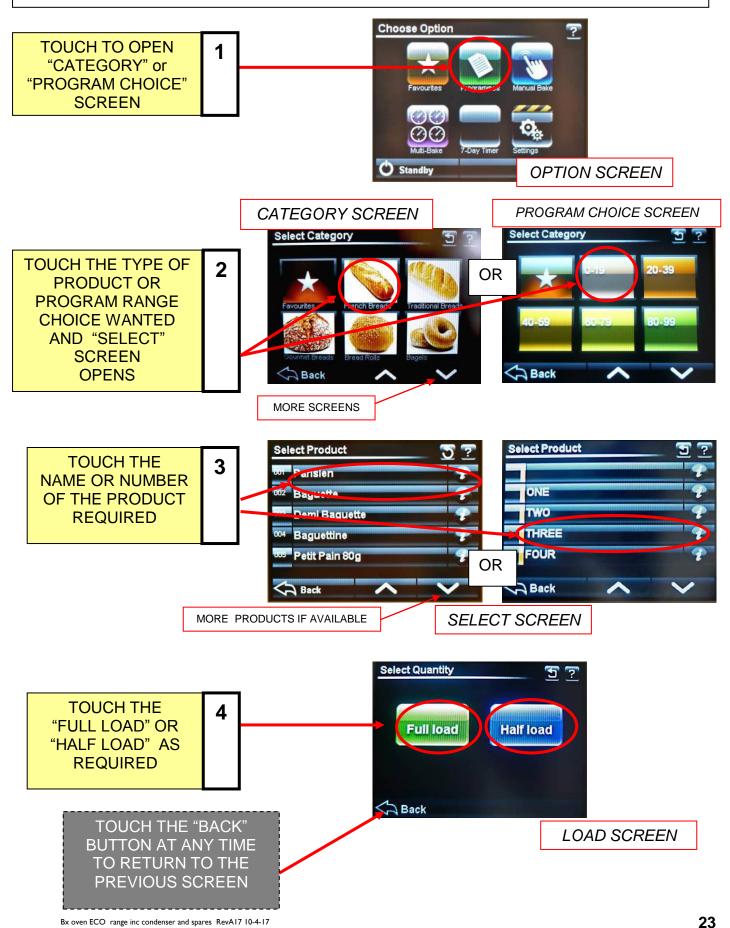


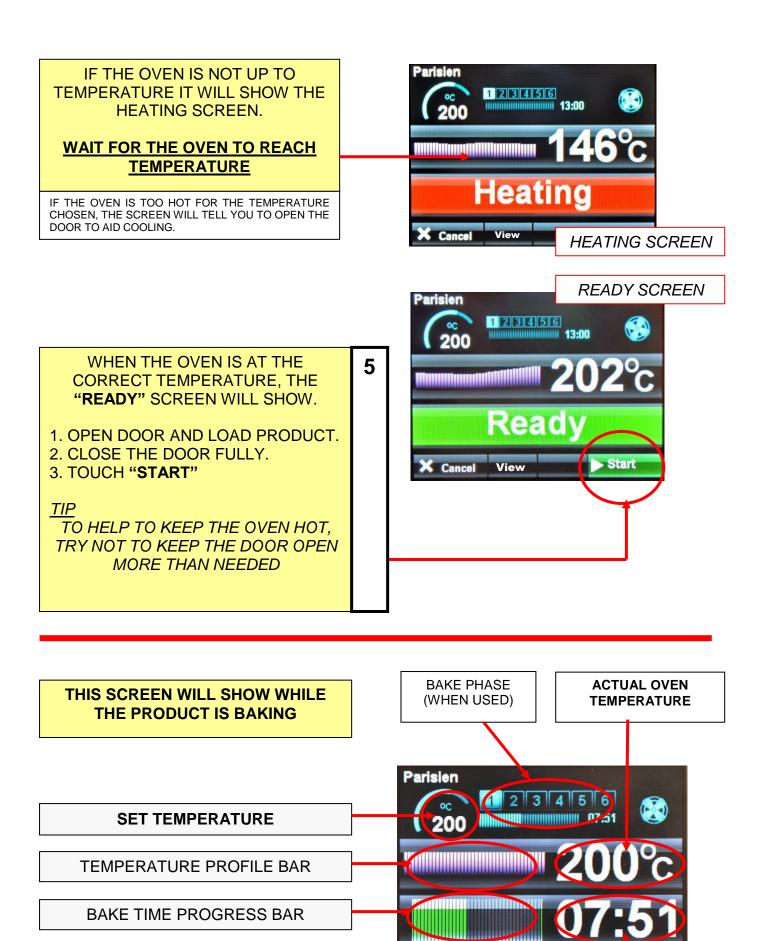
NOTE: In manual mode, only one operation of the steam or damper is saved.

### 8 - 3.0 BAKING USING PROGRAMMES MENU

NOTE : THIS COVERS TWO VERSIONS OF FIRMWARE. THE OVEN CAN BE SET TO SHOW EITHER 1. PICTORIAL CHOICES OF PRODUCT CATERGORIES

2. A NUMERICAL VERSION THAT SHOWS RANGES OF PROGRAM NUMBERS.





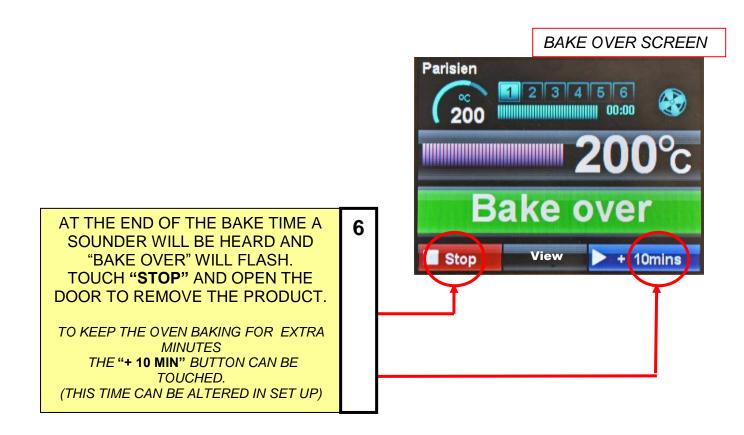
#### NOTE

The actual temperature shown will rise and fall above and below the set temperature as the oven cools and reheats. This is not a fault

BAKE TIME LEFT

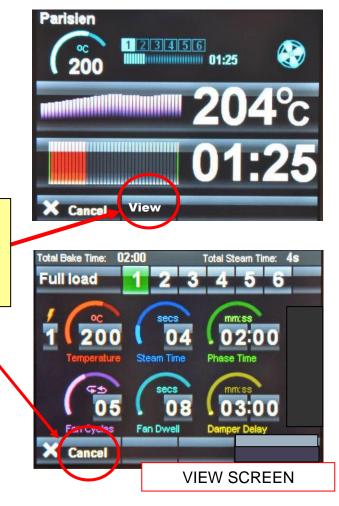
View

Stop



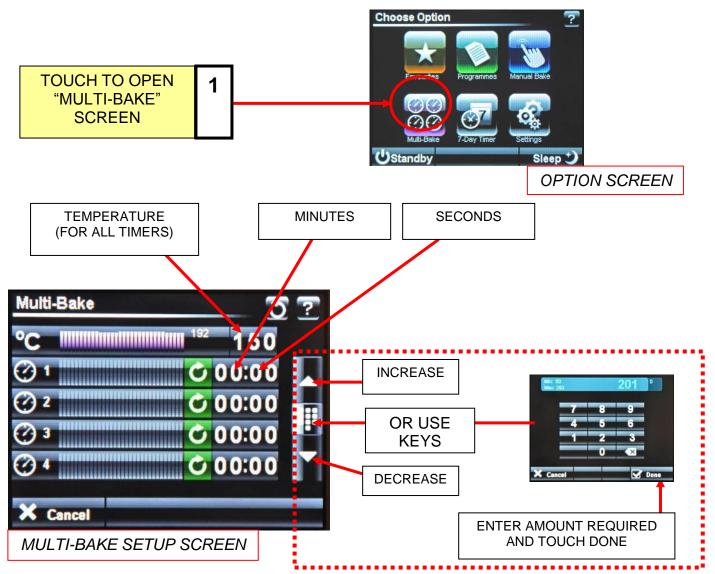
#### TOUCHING "VIEW" BUTTON DURING BAKE

TOUCHING **"VIEW**" BUTTON DURING BAKE WILL SHOW THE SETTINGS FOR THE BAKE IN PROGRESS. TOUCH **"CANCEL**" TO GO BACK TO THE PREVIOUS SCREEN.



### 8 - 4.0 BAKING USING MULTI-BAKE MENU

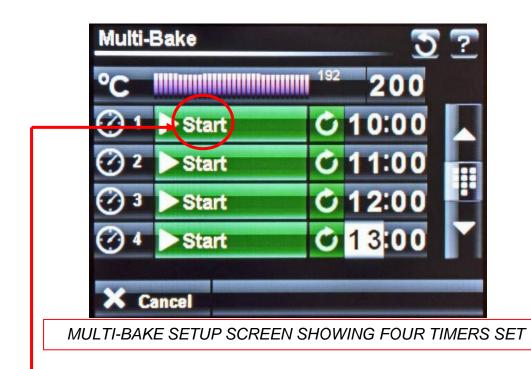
Multi-bake allows the setting of up to four bake timers so that up to four different products can be baked in the same load. (Products must all use the same temperature).



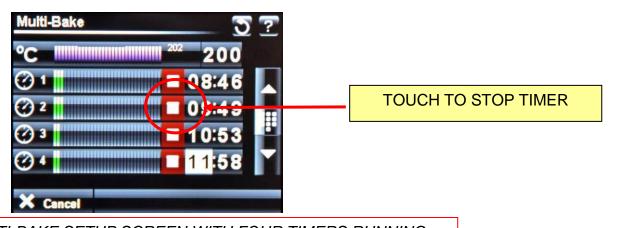
Touch temperature and set by using up and down keys (or press the number pad<br/>symbol and a keypad appears). Enter the value required and touch done.2Set each timer as required. (You do not have to set all four)

Touch minutes and set by using up and down keys (or touch the number pad symbol and a keypad appears). Enter the value required and touch done.

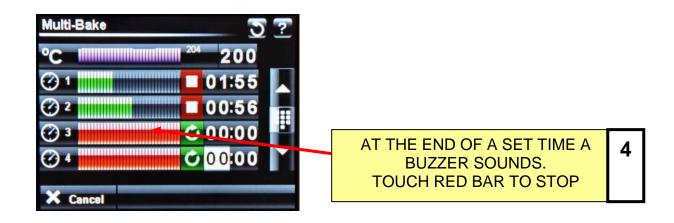
Touch seconds and set by using up and down keys (or press the number pad symbol and a keypad appears). Enter the value required and touch done.



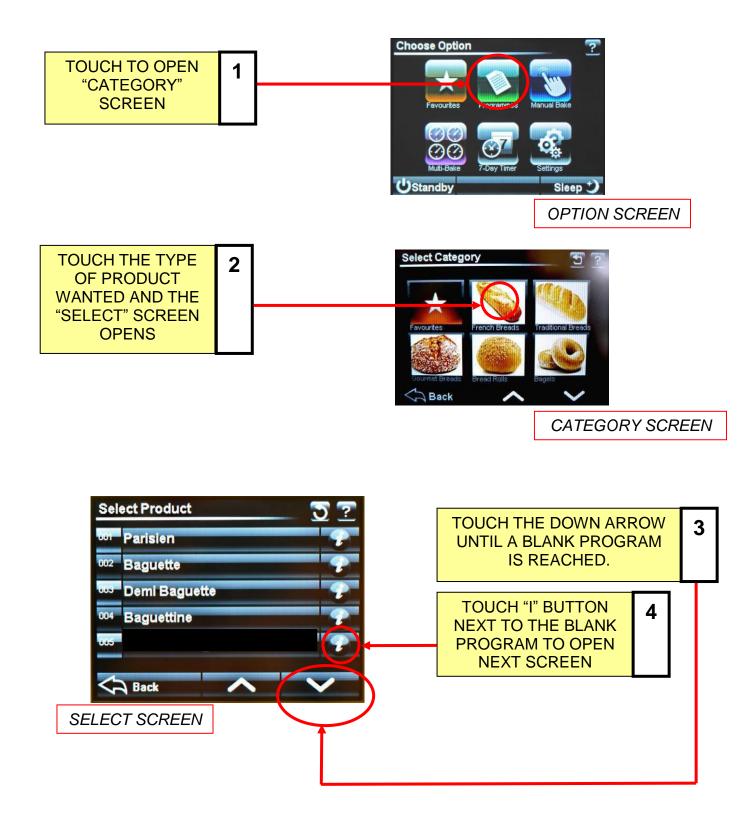
TOUCH THE START BUTTON WHEN REQUIRED AND THE TIMER WILL COUNT DOWN. 3

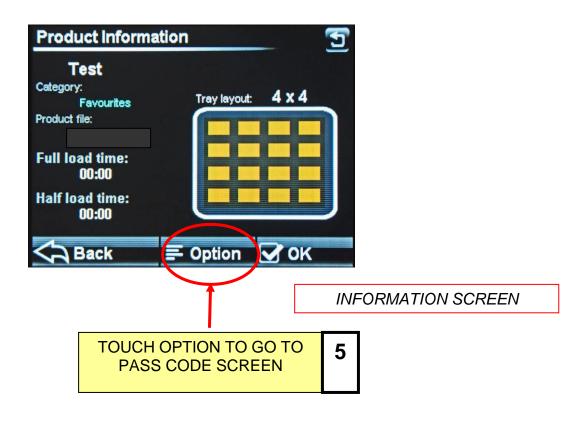


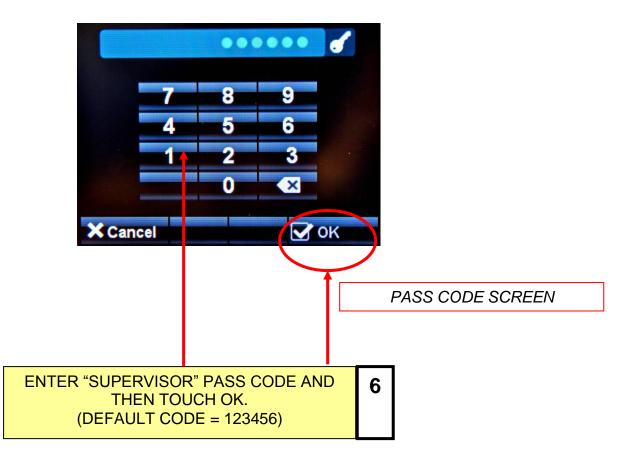
MULTI-BAKE SETUP SCREEN WITH FOUR TIMERS RUNNING

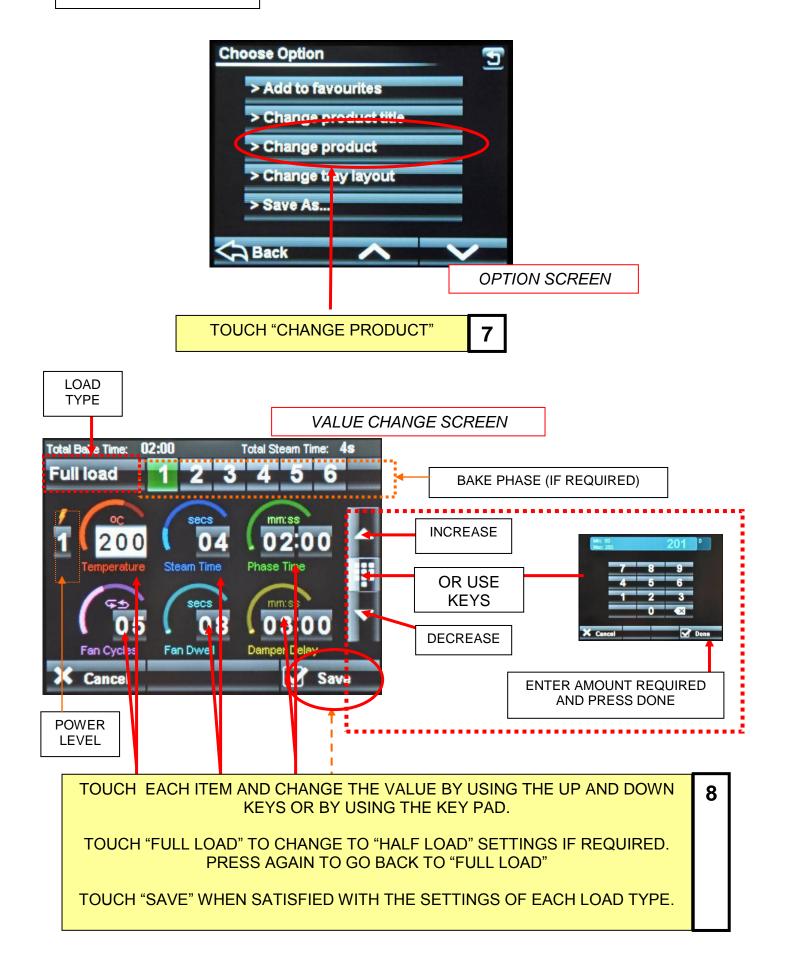


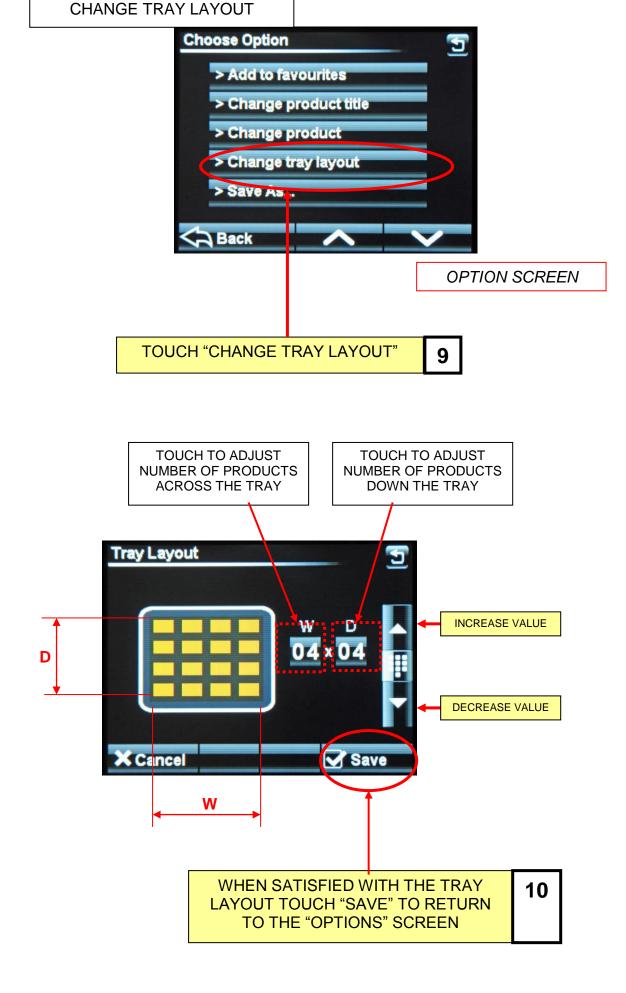
### 8-5.0 CREATING A PROGRAM

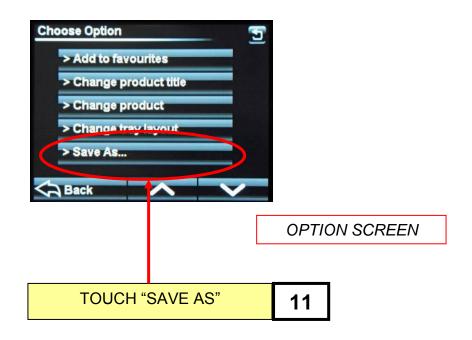




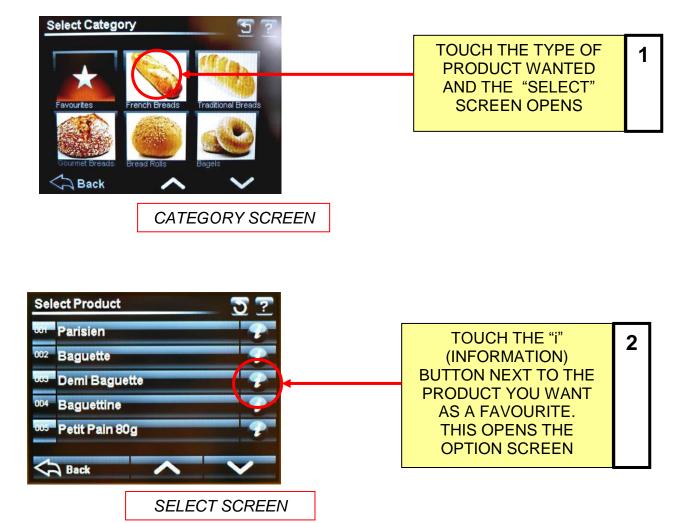


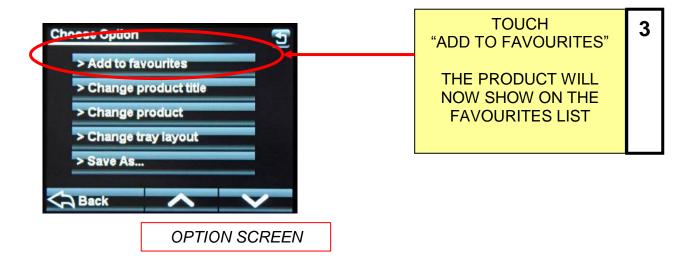




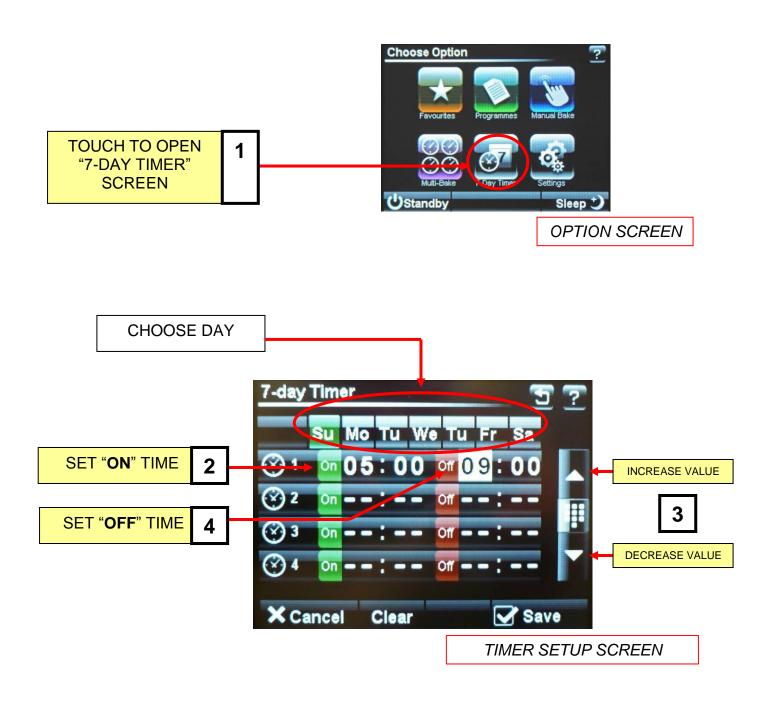








### 8 - 6.0 SETTING 7–DAY TIMER



#### <u>NOTE</u>

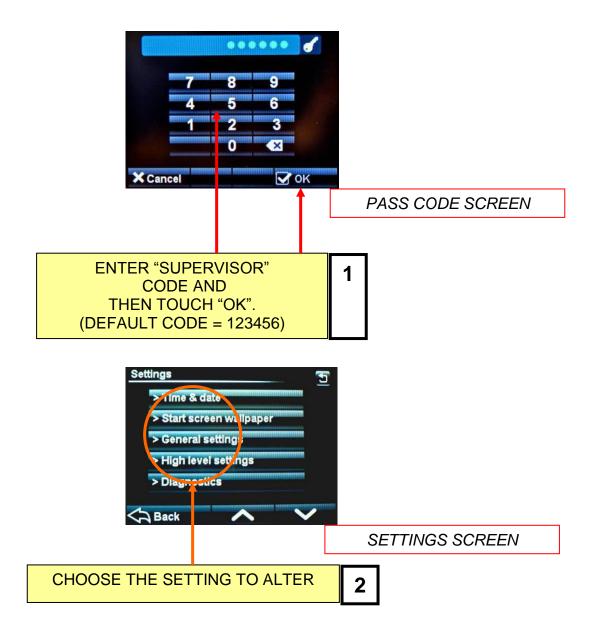
Up to four on/off times can be set for each day. Touch "clear" to clear the settings on the day shown. Touch "save" to activate the times set.

### 8 - 7.0 SETTINGS

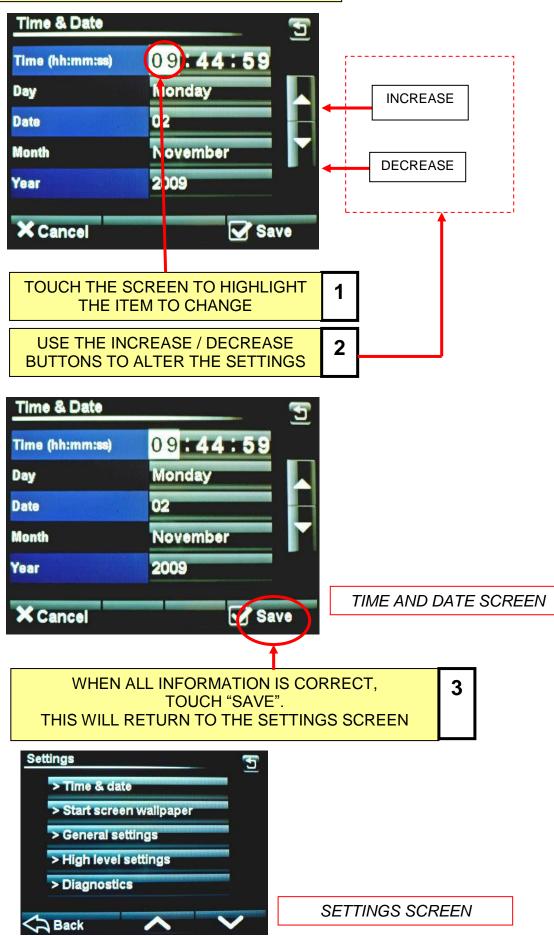


**OPTION SCREEN** 

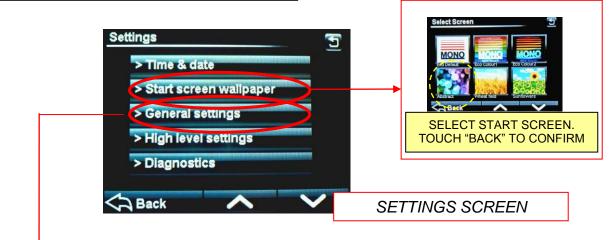
TOUCH TO OPEN THE "SETTINGS" SCREEN



### TIME AND DATE

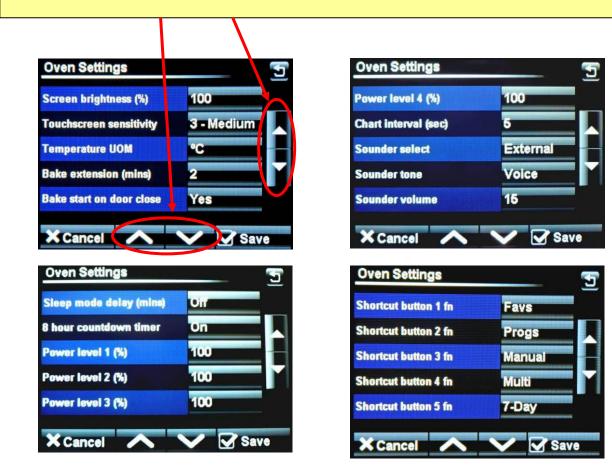


## **OVEN SETTINGS** (GENERAL)



TOUCH "GENERAL SETTINGS" AND THE FOLLOWING SCREEN WILL APPEAR.

SCROLL DOWN TO MOVE THROUGH ALL CHOICES AND ADJUST EACH ONE AS REQUIRED, USING THE ARROW KEYS.



## **OVEN SETTINGS EXPLAINED - GENERAL LEVEL**

## SCREEN BRIGHTNESS -

Adjusts the brightness of the viewing screen for user comfort.

## **TOUCHSCREEN SENSITIVITY -**

Adjusts the pressure required to operate the touch screen. (5 settings)

## **TEMPERATURE UNIT OF MEASURE –**

Centigrade (Celsius) or Fahrenheit

## BAKE EXTENSION (mins) -

Adjusts the extra time at the end of a bake for each "extra time" button press. (10mins max)

### **BAKE START ON DOOR CLOSE –**

This will start the set bake program as soon as the door closes.

## 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 COUNTDOWN TIMER –**

After 8 hours the oven gives a warning and then turns off. Press any button for an extra hour if required.

### POWER LEVEL (1-4) -

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.

## SOUNDER SELECT -

Set as external or onboard.

### SOUNDER TONE -

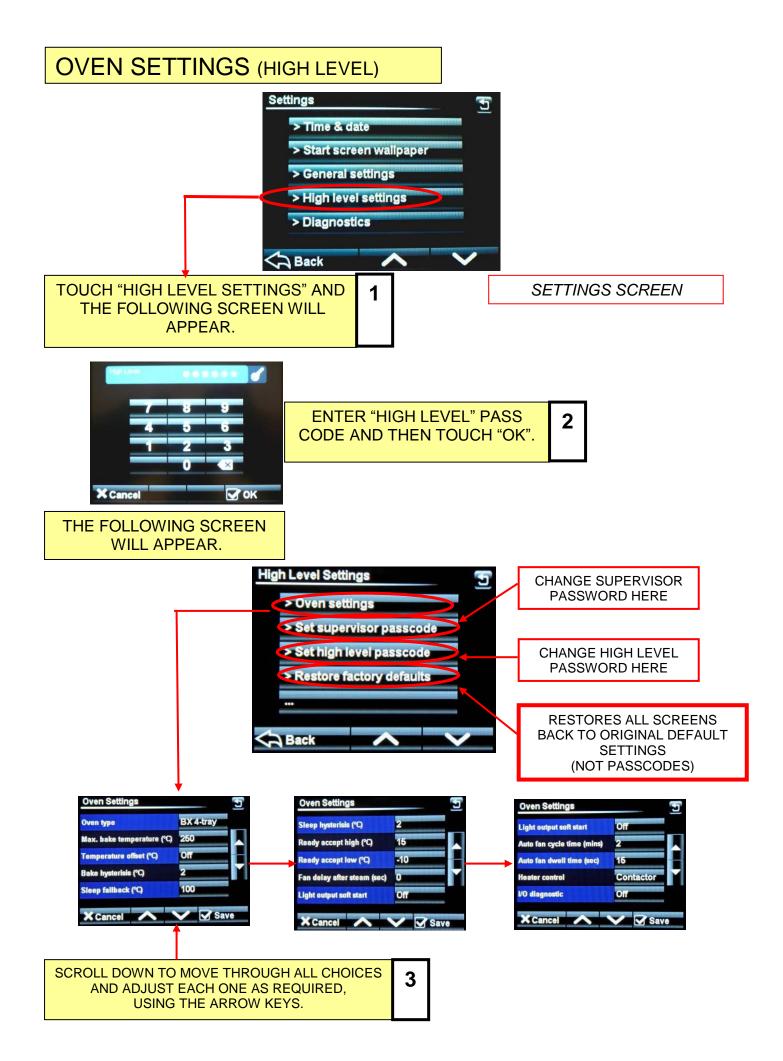
Select a tone - Voice or Off

### SOUNDER VOLUME -

Adjust to suit the volume required. (onboard sounder only)

### SHORTCUT BUTTONS -

1 fn	Gives the choice of what buttons are active and in which order they
2fn	
3fn	appear on the options screen.
-	Options available = Favourites, Programs, Manual bake, Multi bake,
4fn	7-day timer . (Settings at <b>6fn</b> can not be changed)
5fn	



## **OVEN SETTINGS EXPLAINED - HIGH LEVEL**

### OVEN TYPE -

Set this to the type of oven that the screen is installed on.

### MAX. BAKE TEMPERATURE -

Can be set up to 300C, (depending on the oven type)

### **TEMPERATURE OFFSET –**

Can be used to adjust the display to the actual temperature in the oven.

### **BAKE HYSTERISIS –**

Sets bake temperature cycling around a set point. (Above and below).

### SLEEP FALLBACK –

Temperature of the oven in "sleep mode" (100C is suggested).

### **SLEEP HYSTERISIS –**

Sets "sleep mode" temperature cycling around a set point. (Above and below).

### **READY ACCEPT HIGH –**

Highest temperature for the oven to display "READY"

### **READY ACCEPT LOW –**

Lowest temperature for the oven to display "READY"

## FAN DELAY AFTER STEAM -

Delay before fan starts after the oven has steamed. (60 seconds max)

### LIGHT OUTPUT SOFT START -

On/Off Some lights need this for cold start up to stop them blowing.

### AUTO FAN CYCLE TIME (MINS) -

Set time required. Only used in manual and multibake modes.

### AUTO FAN DWELL TIME -

Set time required. Only used in manual and multibake modes.

### **HEATER CONTROL –**

Contactor or solid state. Defaults to contactor. (solid state not used at the moment)

### I/O DIAGNOSTIC -

Displays outputs and inputs at the top of the screen to aid fault finding if needed.

## **DEFAULT PASSCODES**

## SUPERVISOR (LOW LEVEL) -- 123456

HIGH LEVEL -- 654321

MASTER -- 314159 (This is fixed)

# **SUGGESTION**

To stop unauthorised changes to the oven setup, it is suggested that this page is 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.

# 8 - 8.0 USING THE USB PORT



Ensure the Start screen is showing

1



Insert the USB memory stick into the socket on the side of the oven panel. (Rubber plug may have to be removed first).

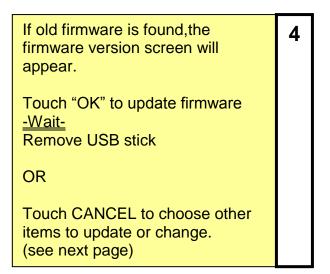
<u>NOTE</u> The USB stick will only fit in one way. Do not force into the socket.



Wait for the USB symbol to finish moving

3





Load Start Screens
Load Skin
Load Sounds

Choose action you would like to do.

5



Se	lect	the	file	required	
----	------	-----	------	----------	--

6

USB Drive File 'MALEVOX' loaded of	
Load Products	Load Start Screens
Save Products	Load Skin
Save Log	Load Sounds
× Cancel	

When confirmation of "file loaded ok" shows, remove usb stick

## **NOTES ON USING USB STICKS**

For a USB stick to function correctly it must have the following folder in the root folder .

## Mono

Then into that folder add the following:

Firmware Products Skins Sounds Startup

Place your recipe/product files in the "products" folder.

The oven will find the "**Mono**" folder automatically when the stick is plugged into the oven. Any stick can be used (does not have to be blank) but the Mono folder must be in the root folder.

The most used folders are explained below:

## <u>SKINS</u>

These control the way the screen looks in different modes.

**<u>Pictorial</u>** is when the screen displays catergories using pictures.



**<u>Numerical</u>** is when the screen displays program numbers.



### STARTUP SCREENS

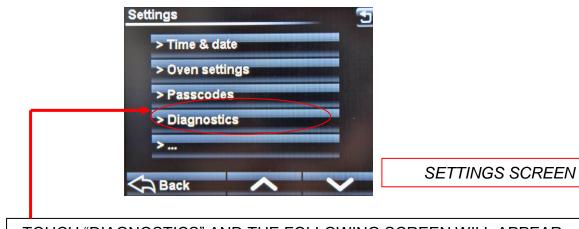
This is the picture/logo you see when the oven is started.



### PRODUCT FILES (PROGRAM FILES)

These are the files that contain the information for baking each product e.g. bread, buns, cakes etc.

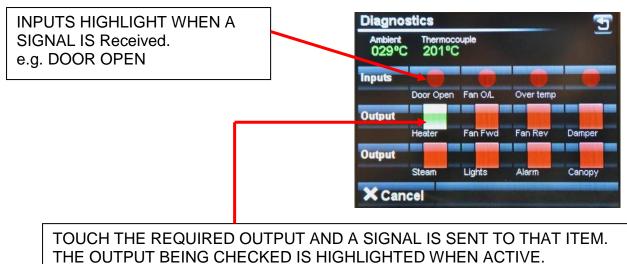
#### DIAGNOSTICS 8 - 9.0



TOUCH "DIAGNOSTICS" AND THE FOLLOWING SCREEN WILL APPEAR.

Ambient 029°C	C 201°C			
nputs	-	0		
	Door Open	Fan O/L	Over temp	ner unsernannen sterrennen
utput				
	Heater	Fan Fwd	Fan Rev	Damper
lutput				
	Steam	Lights	Alarm	Сапору

DIAGNOSTICS SCREEN



TO STOP THE OUTPUT, TOUCH AGAIN.

## 9.0 MAINTENANCE

- Check for frayed or bare cables.
   The machine must not be used if frayed or bare cables are visible.
- Follow cleaning instructions.

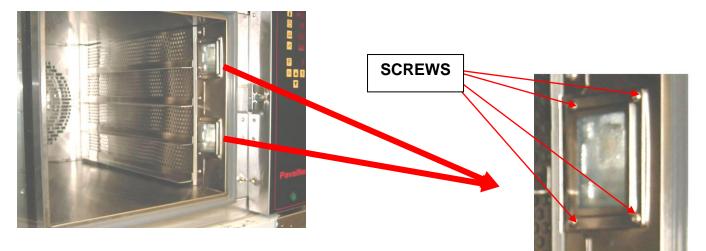
## **10.0 STEAM SYSTEM MAINTENANCE**

• If it is noticed that the steaming operation has deteriorated, perhaps due to hard water scaling, please contact your oven supplier

## 11.0 BULB REPLACEMENT

In the event of a bulb failure, Instructions on how to change a bulb are as follows: -

- Ensure oven is isolated from mains supply and allow to cool.
- Remove screws (4 per light) and take glass, frame and gasket off lamp unit.



Remove bulb by pulling in direction of arrow and replace with new bulb.



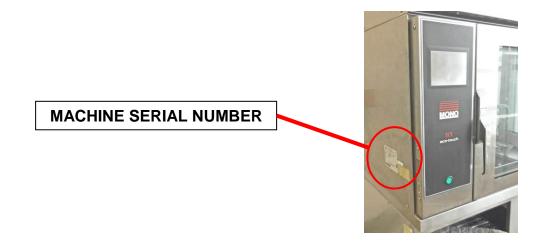


Refit glass front, taking care that gasket is in position around stainless steel frame.
 Re-connect oven and test.
 DO NOT TOUCH DUI DO NUT LEADE HANDS

DO NOT TOUCH BULBS WITH BARE HANDS. USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.

## 12.0 SPARES

When ordering spares please quote the **machine serial number** which can be found on the silver information plate of the machine and on the front cover of this manual.



## PART 1 FG150 10 TRAY OVEN SPARES SECTION

## PART 2 FG159 4/5 TRAY 18 X 30 OVEN SPARES SECTION

## PART 3

FG158 4/5 TRAY 60 X 40 OVEN SPARES SECTION

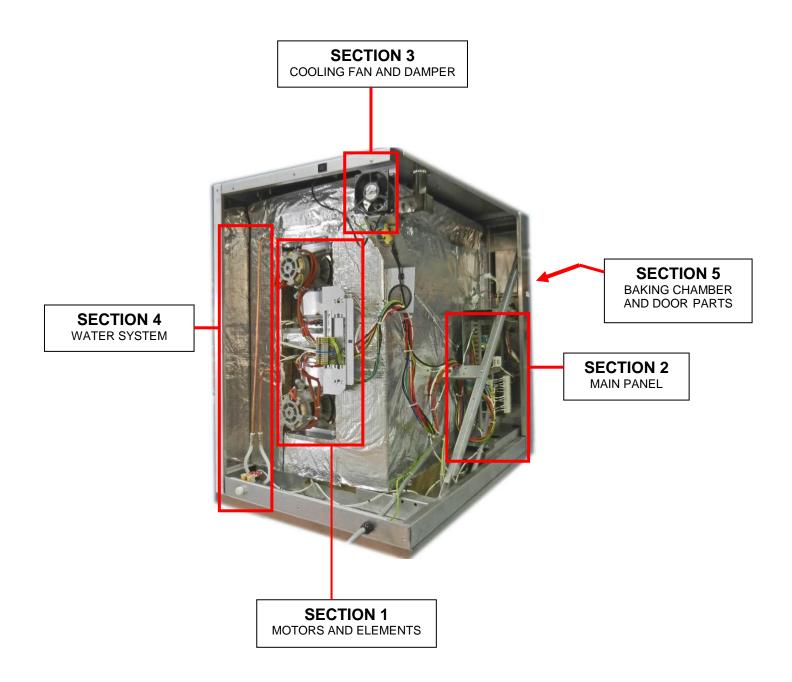
## PART 4 FG153 4/5 TRAY 40 X 60 OVEN SPARES SECTION

email:spares@monoequip.com

## Spares +44(0)1792 564039

# PART 1 10 TRAY OVEN SPARES SECTION

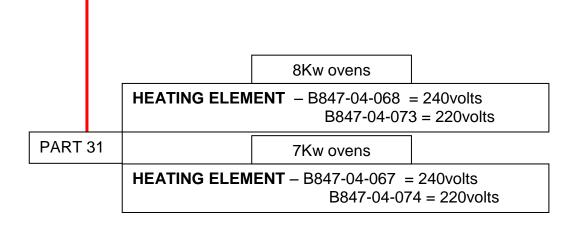
FG150

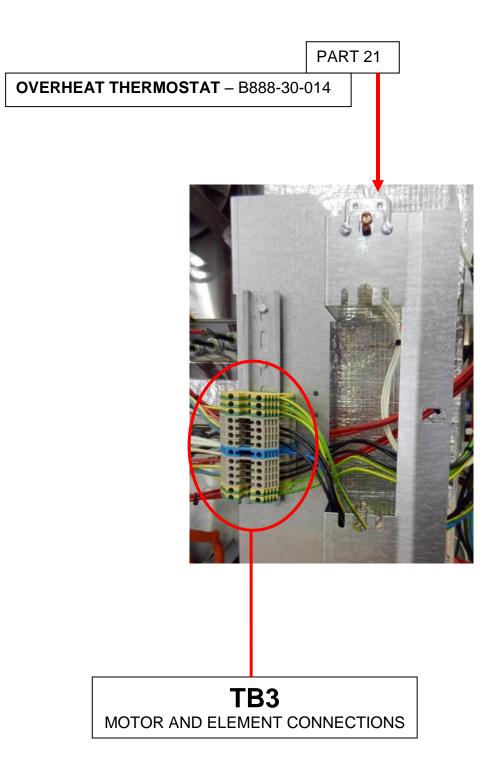


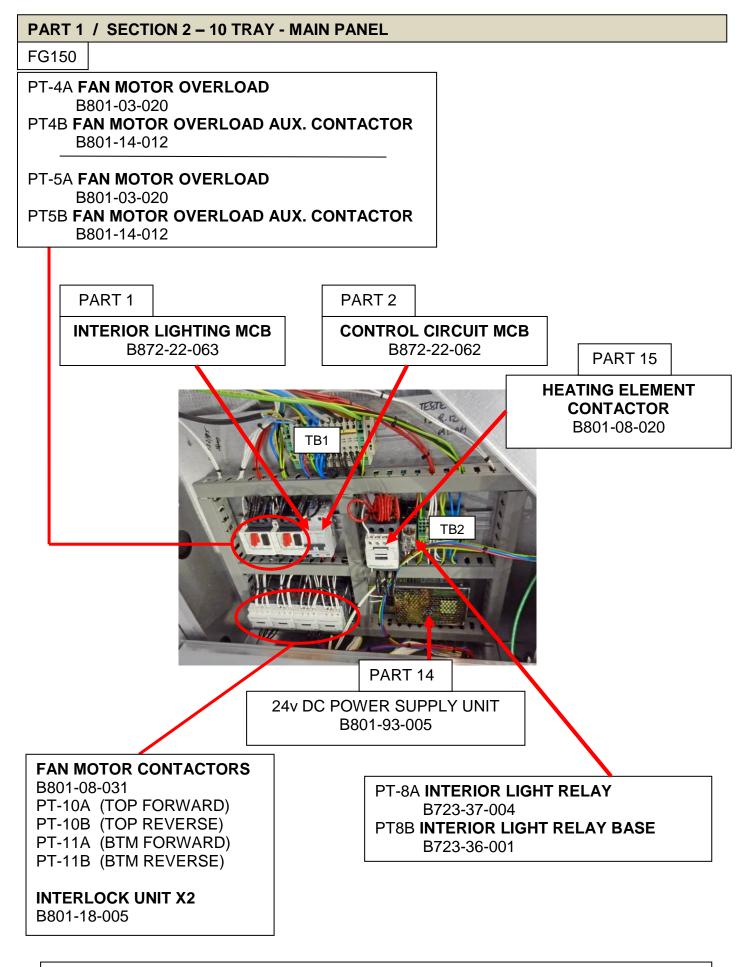
## **REAR VIEW WITH OUTER SHEETING REMOVED**

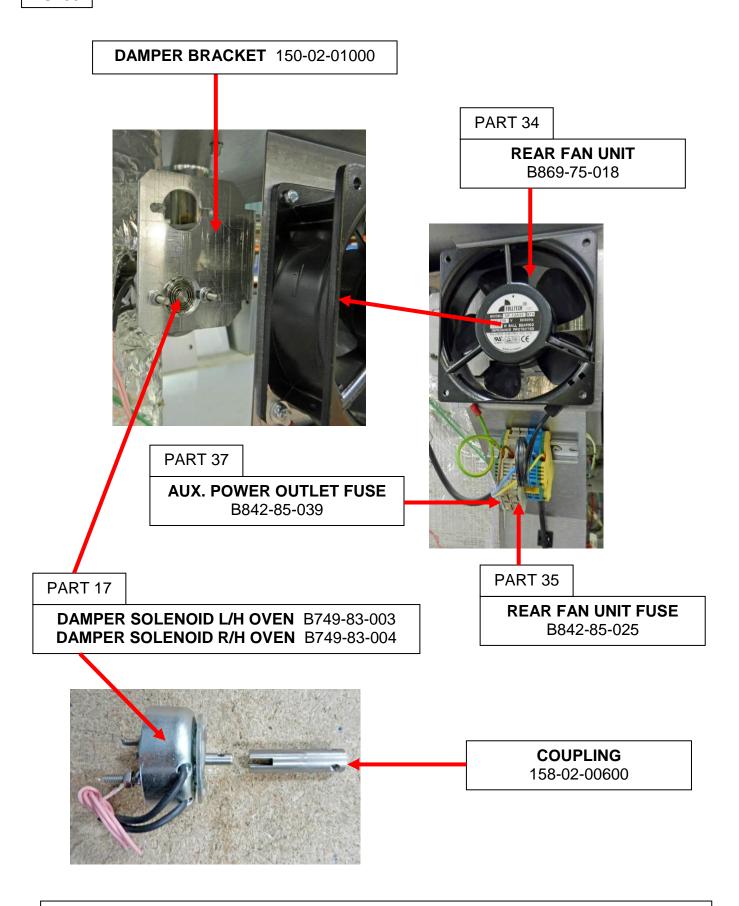
PART 1 / SECTION 1	– 10 TR	AY -	MOTORS AND EL	EMENTS	
FG150				8Kw ovens	
			HEATING ELEMENT – B847-04-068 = 240volts B847-04-073 = 220volts		
	PART 30			7Kw ovens	
			HEATING ELEM	ENT – B847-04-067 = B847-04-07	= 240volts 74 = 220volts



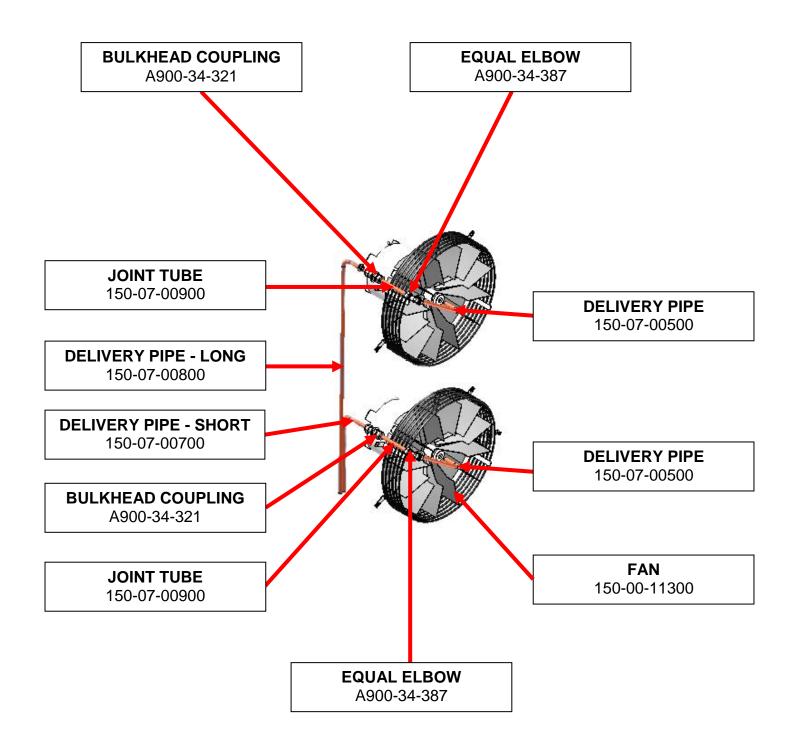






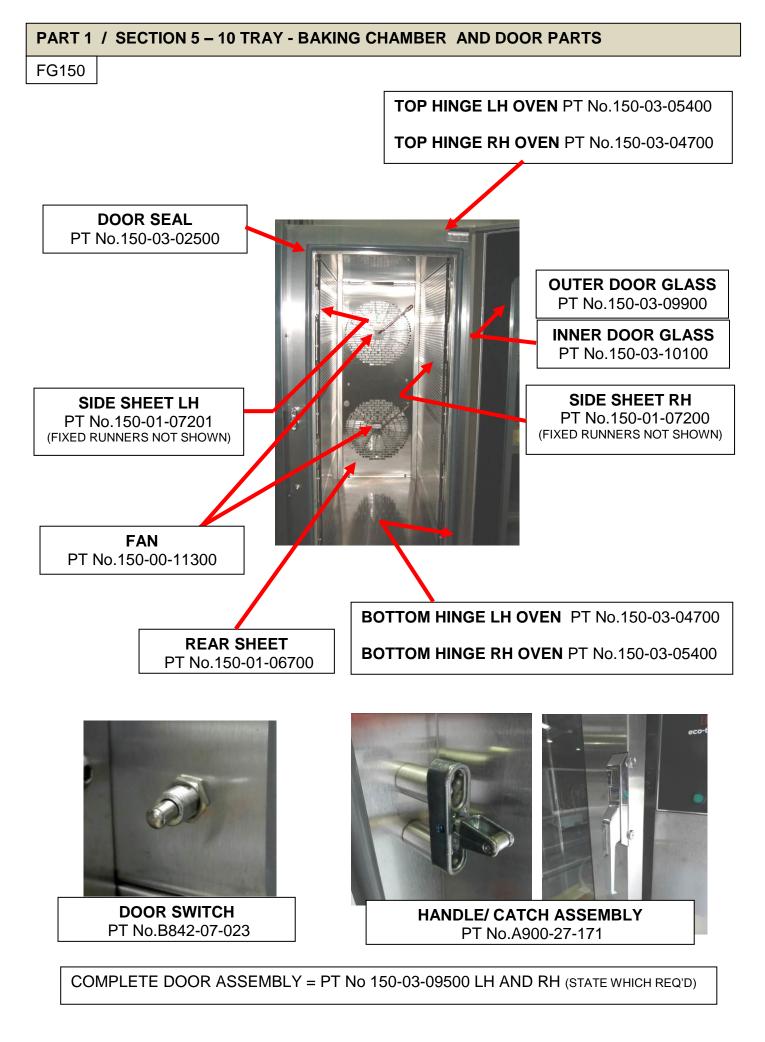


**DELIVERY PIPE - LONG** 150-07-00800 **DELIVERY PIPE - SHORT** 150-07-00700 16 PART 20 WATER SOLENOID (INC. HOSES) 150-07-00400 HOSE – BLUE (NOT SHOWN ATTACHED) A900-34-087



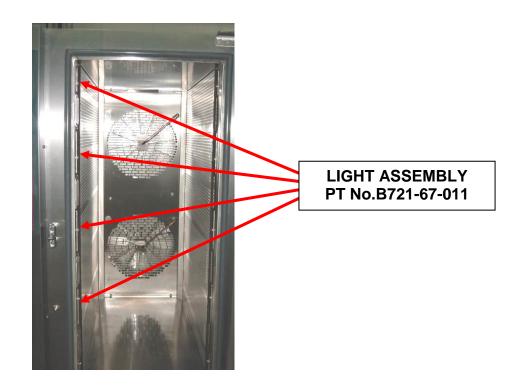
## COMPLETE STEAM ASSY KIT = PT No. 150-07-00003 INCLUDES 150-01-07700 PIPE GUIDE BRKT X 2

AND 150-07-00400 DOUBLE SOLENOID INLET VALVE.

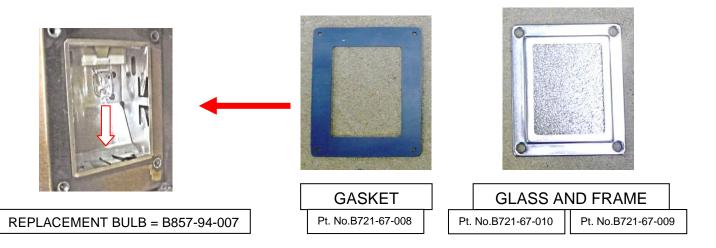


## PART 1 / SECTION 5 - 10 TRAY - BAKING CHAMBER AND DOOR PARTS

### FG150



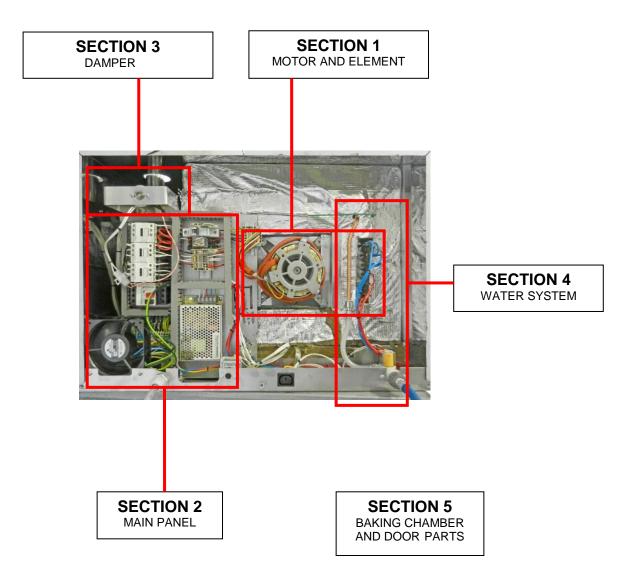
INDIVIDUAL LIGHT ASSEMBLY PARTS AVAILABLE AS BELOW

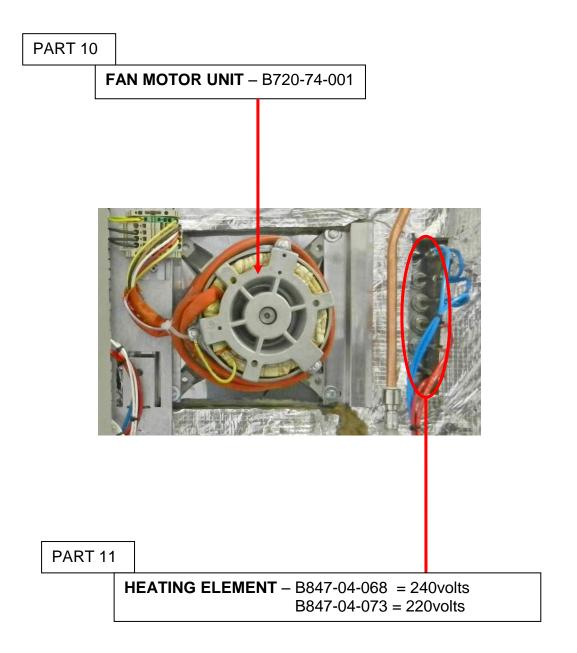


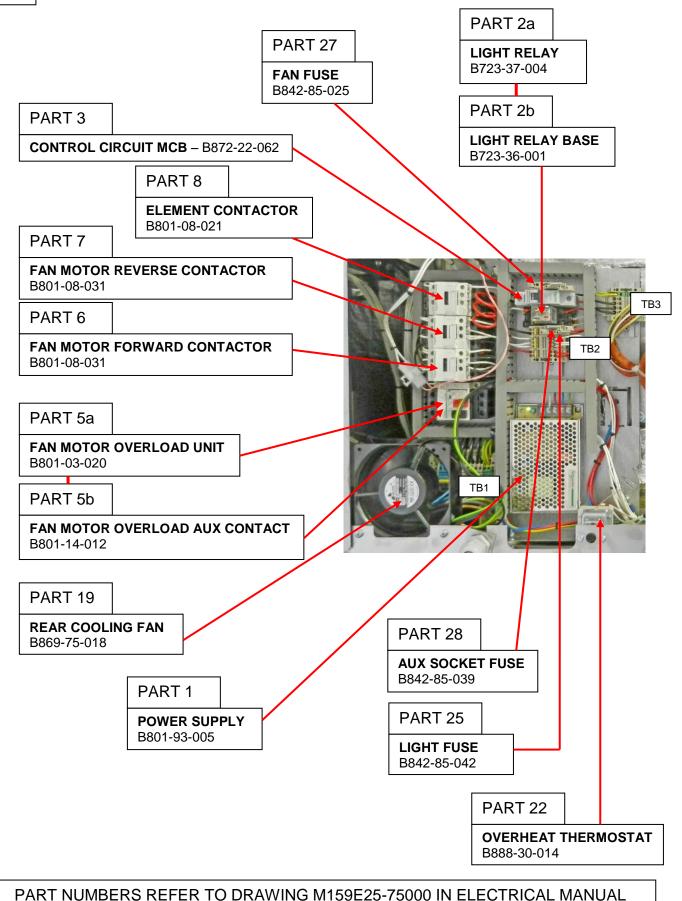
DO NOT TOUCH BULBS WITH BARE HANDS. USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.

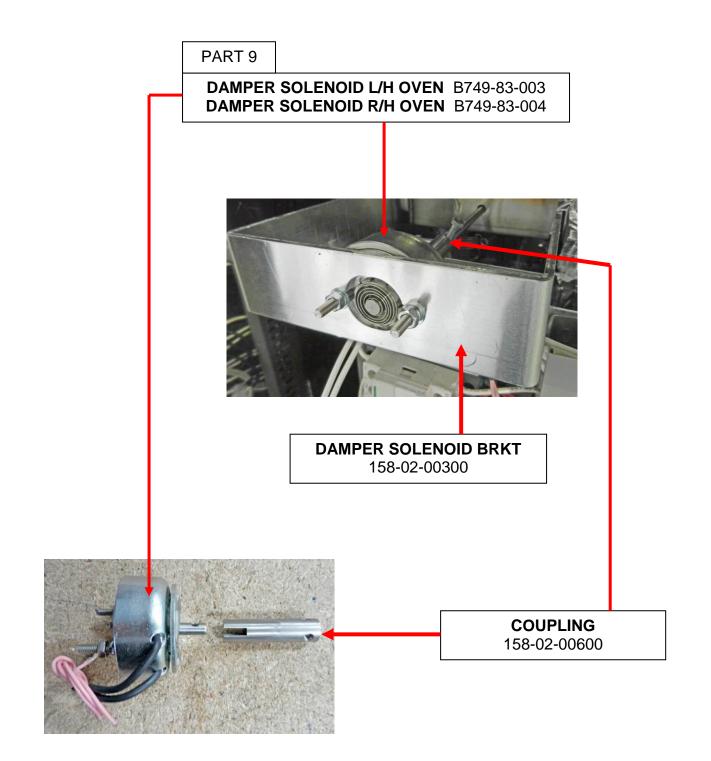
## PART 2 4/5 TRAY 18 X 30 OVEN SPARES SECTION

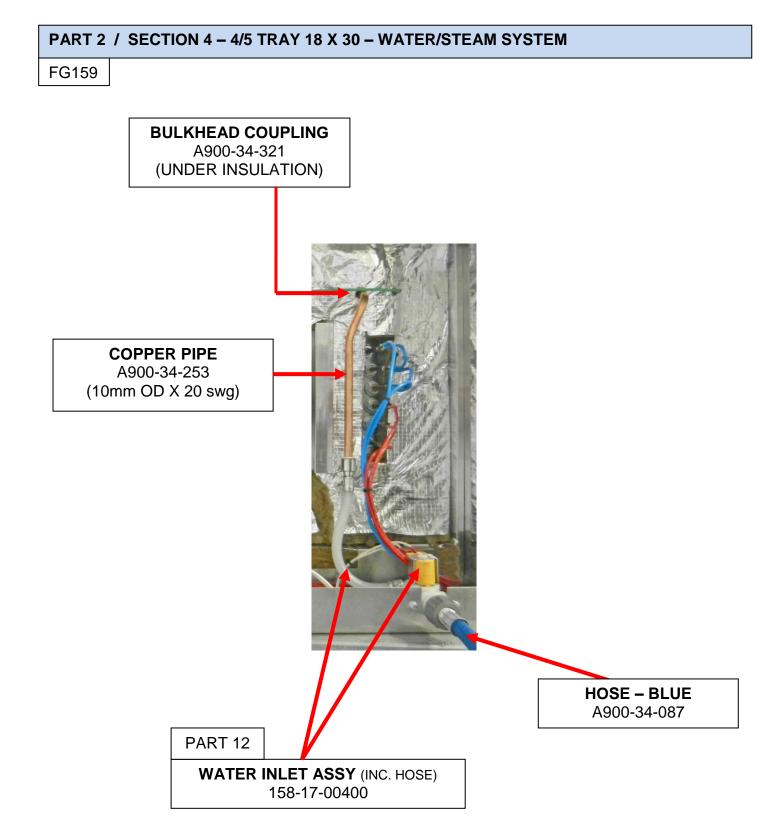
### FG159

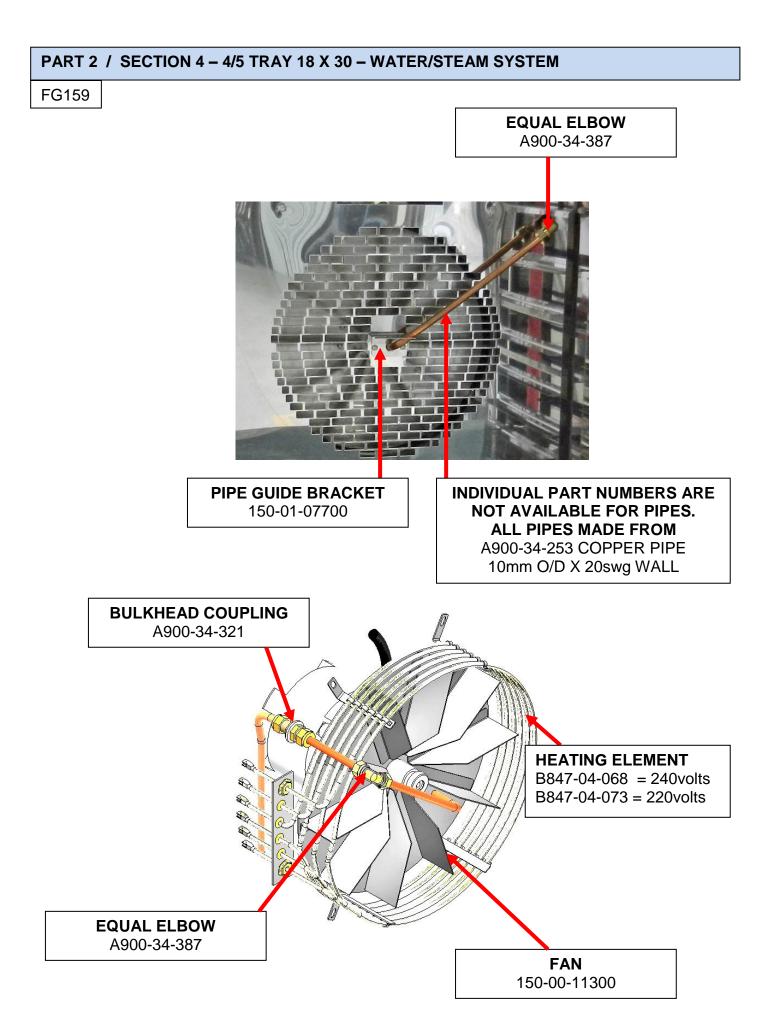


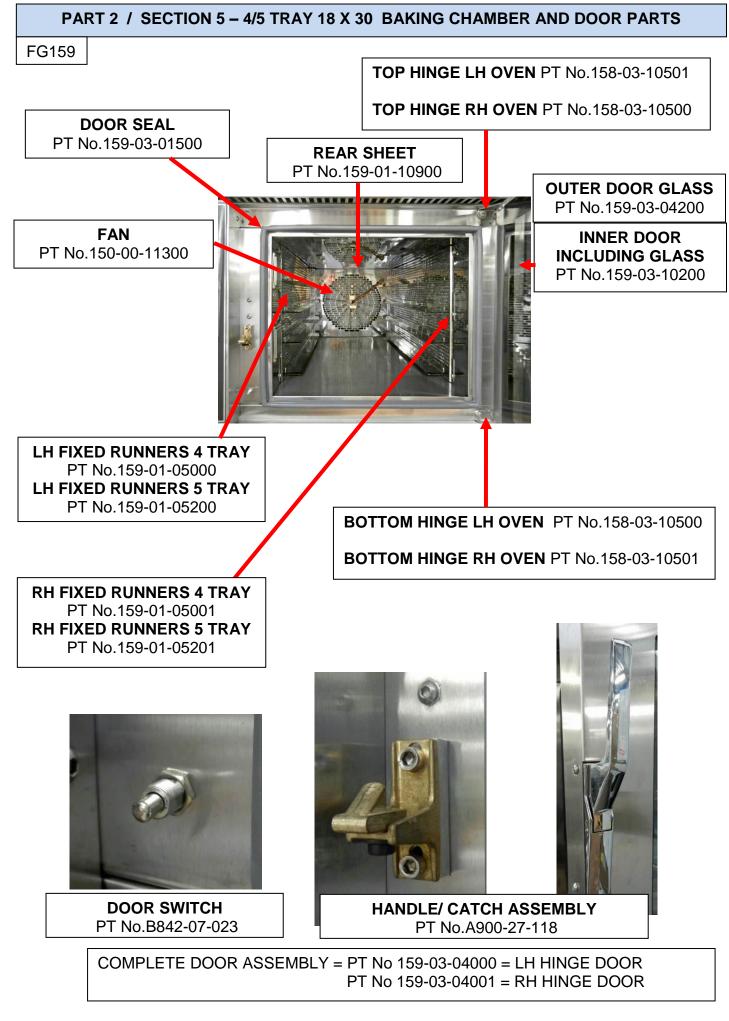






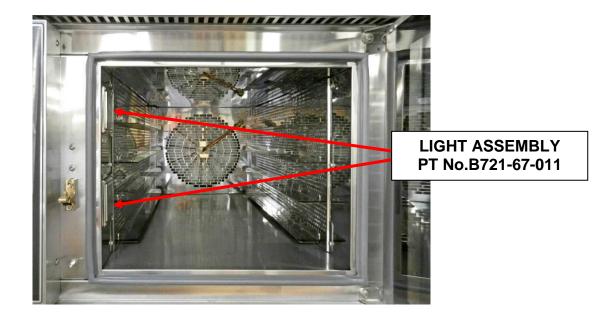




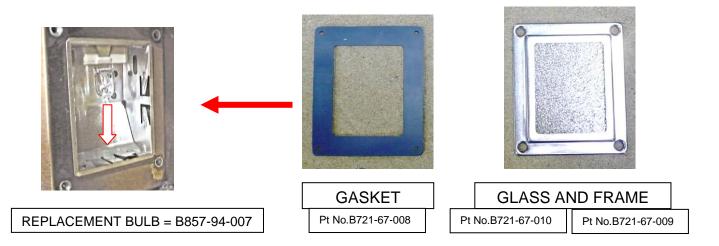


## PART 2 / SECTION 5 - 4/5 TRAY 18 X 30 BAKING CHAMBER AND DOOR PARTS

#### FG159



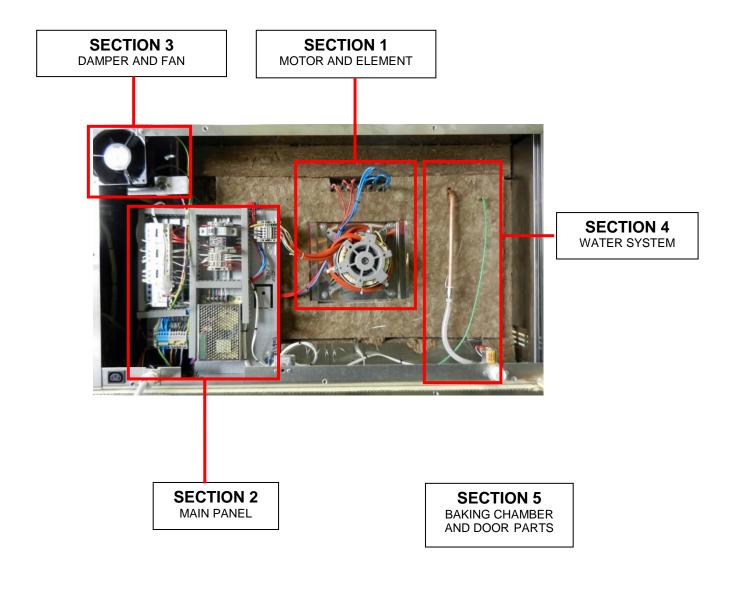
INDIVIDUAL LIGHT ASSEMBLY PARTS AVAILABLE AS BELOW

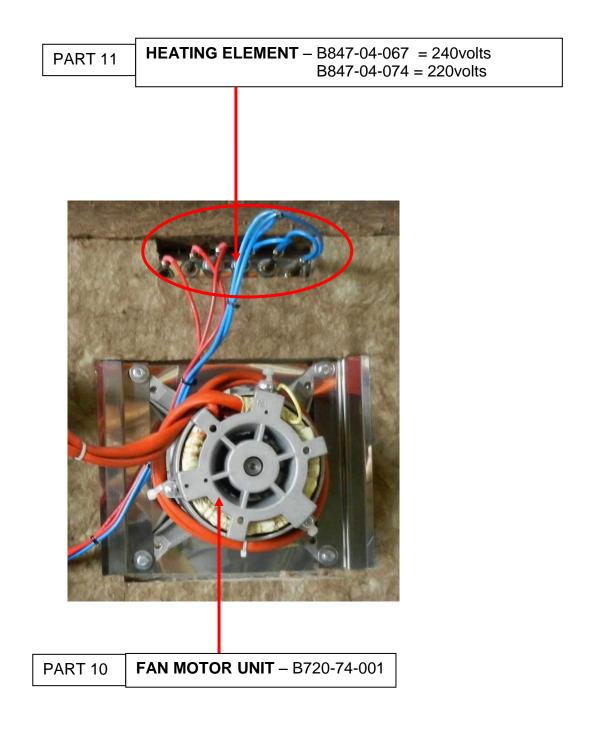


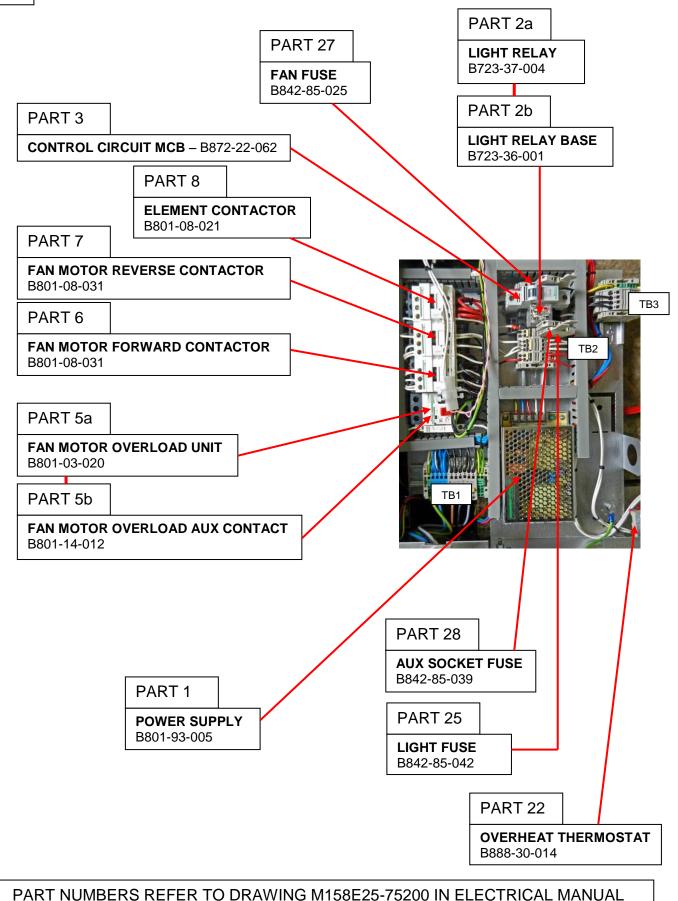
### DO NOT TOUCH BULBS WITH BARE HANDS. USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.

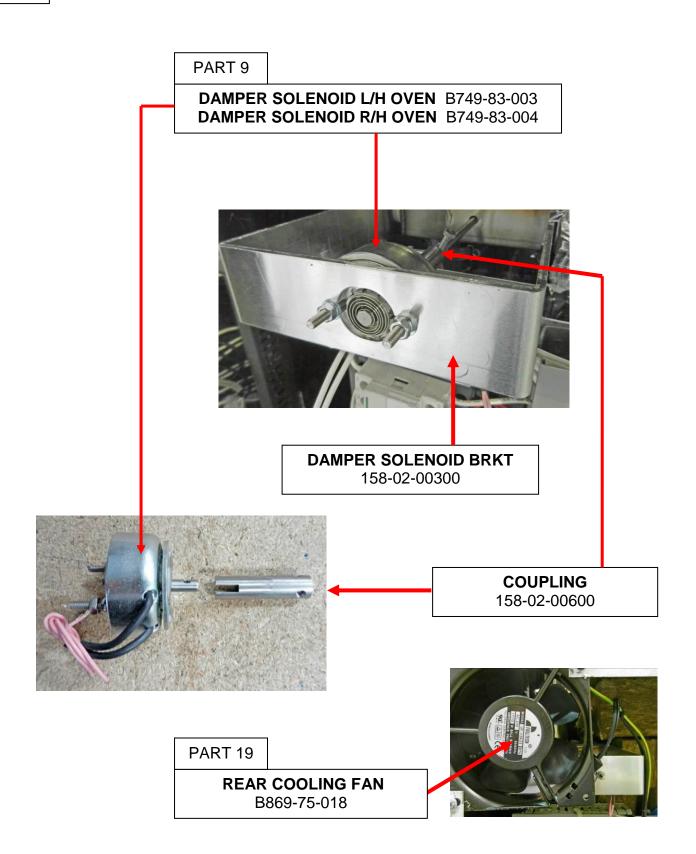
## PART 3 4/5 TRAY 60 X 40 OVEN SPARES SECTION

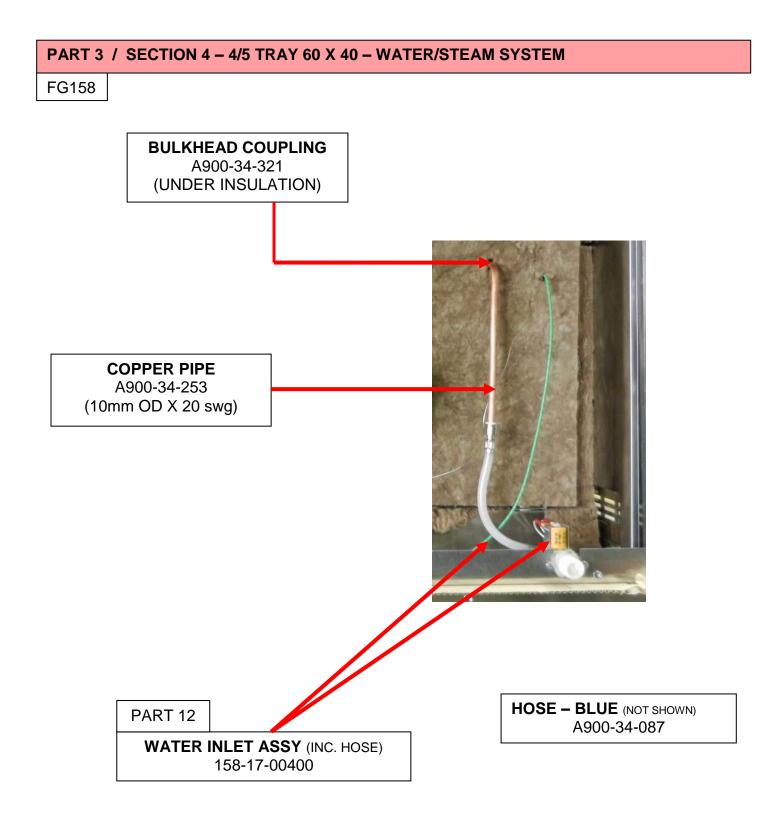
FG158

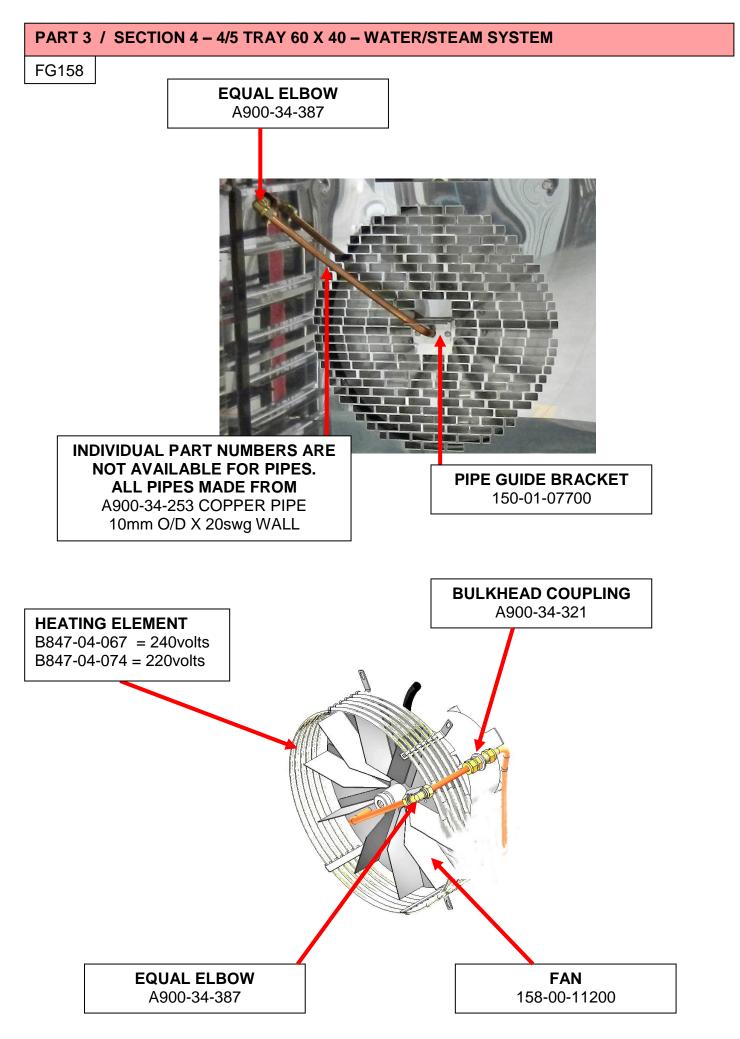


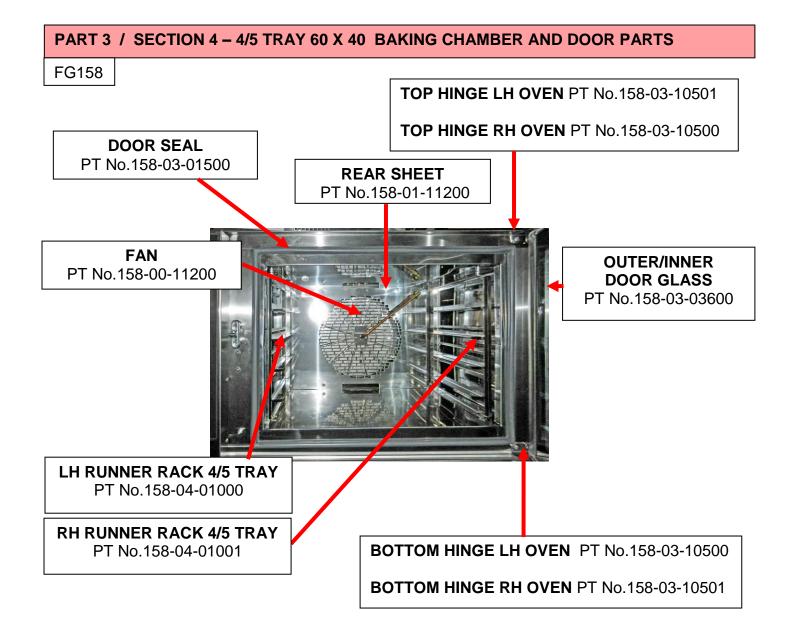








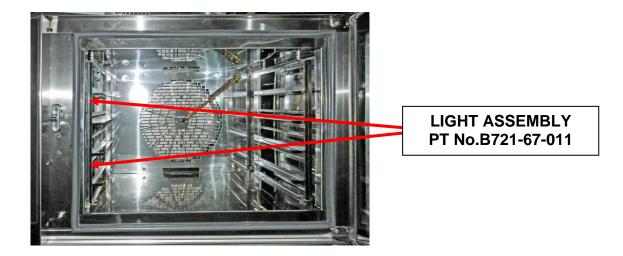




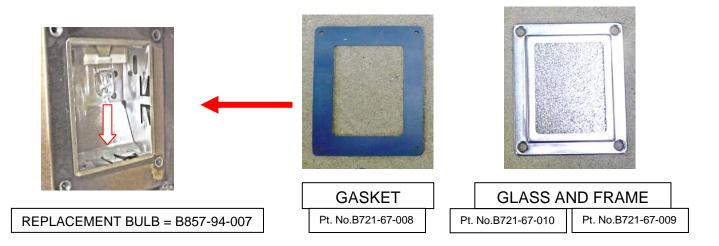


COMPLETE DOOR ASSEMBLY = PT No 158-03-03400 = LH HINGE DOOR PT No 158-03-03401 = RH HINGE DOOR





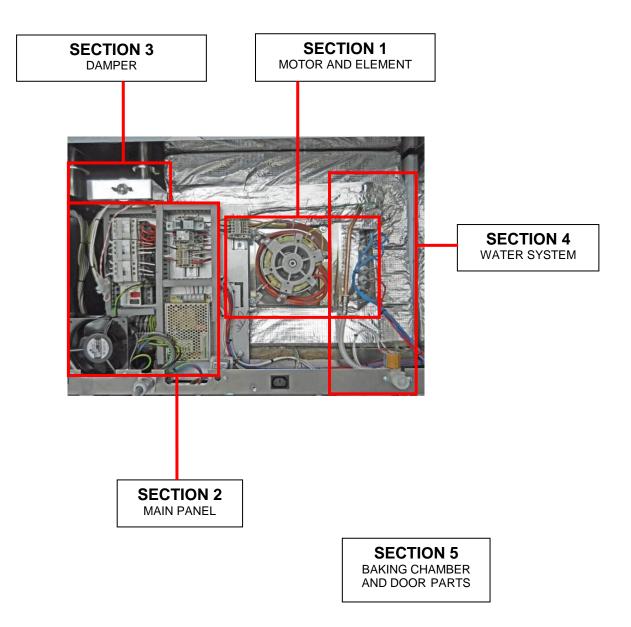
## INDIVIDUAL LIGHT ASSEMBLY PARTS AVAILABLE AS BELOW

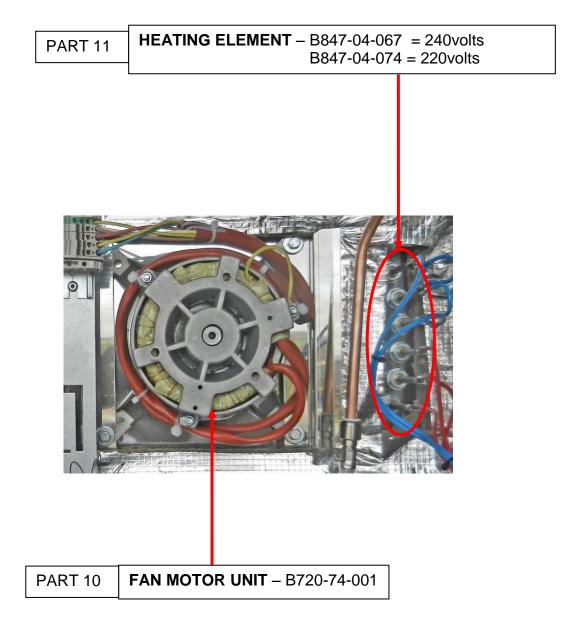


### DO NOT TOUCH BULBS WITH BARE HANDS. USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.

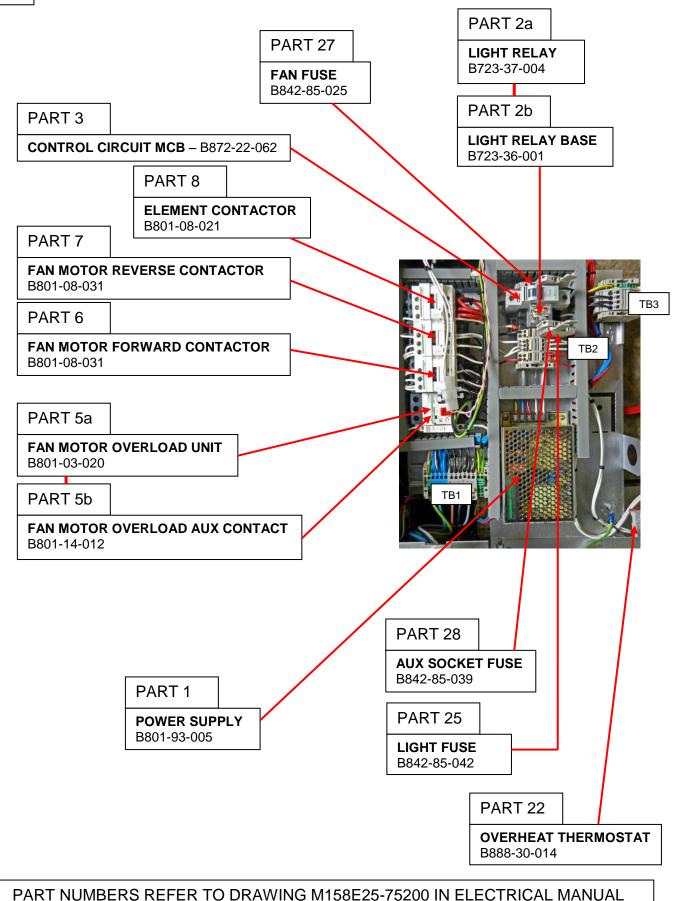
# PART 4 4/5 TRAY 40 X 60 OVEN SPARES SECTION

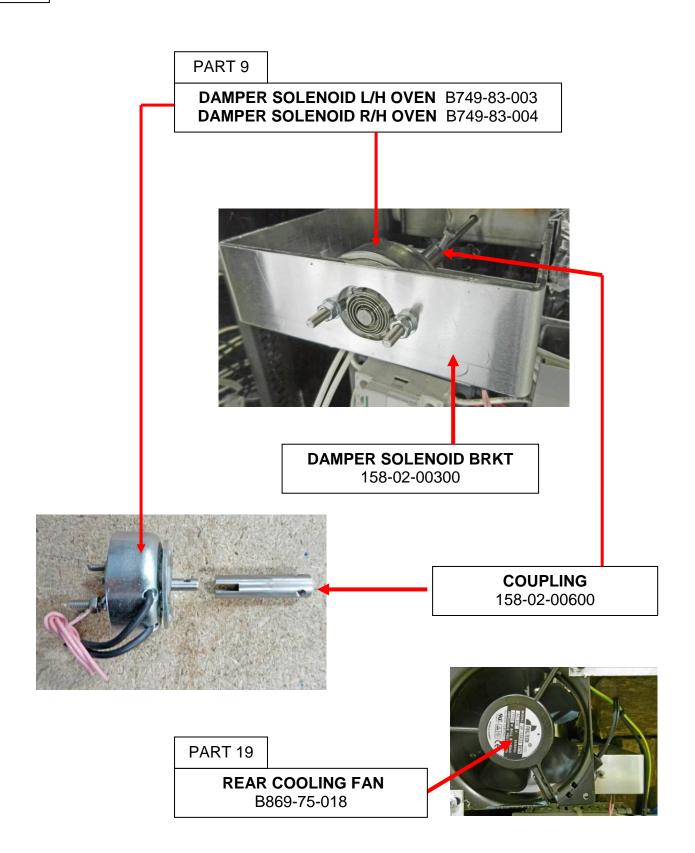
FG153



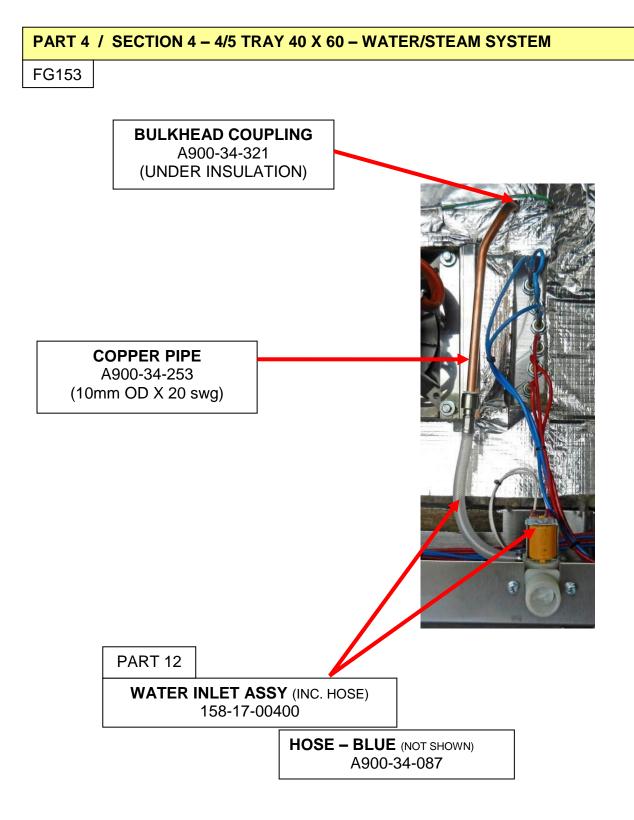


#### PART NUMBERS REFER TO DRAWING M158E25-75200 IN ELECTRICAL MANUAL

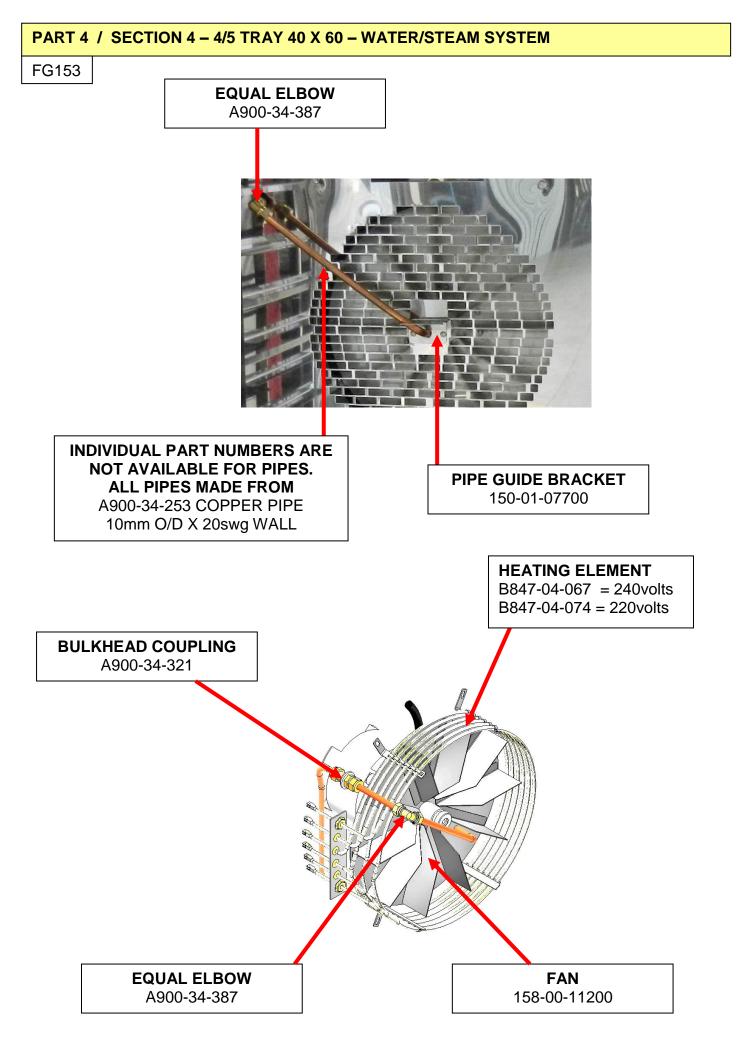


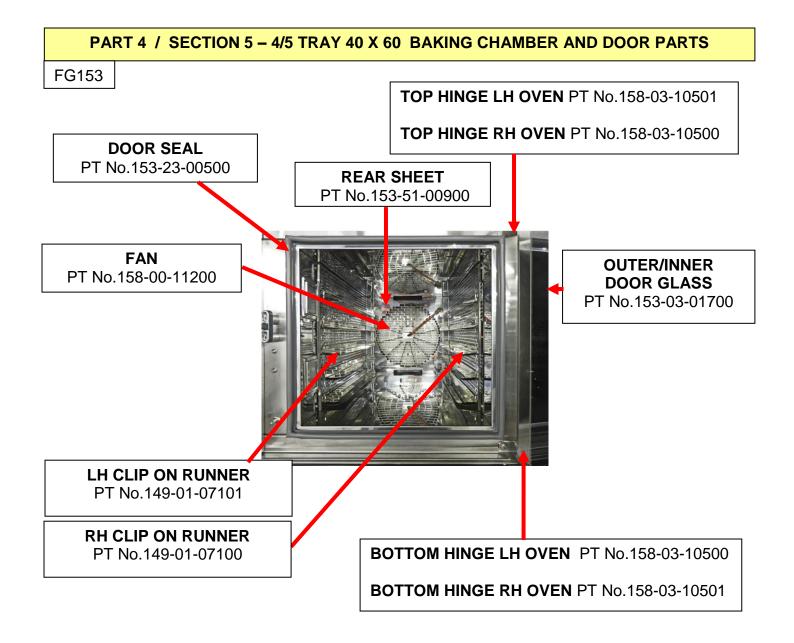


PART NUMBERS REFER TO DRAWING M158E25-75200 IN ELECTRICAL MANUAL



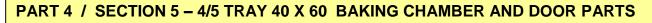
#### PART NUMBERS REFER TO DRAWING M158E25-75200 IN ELECTRICAL MANUAL

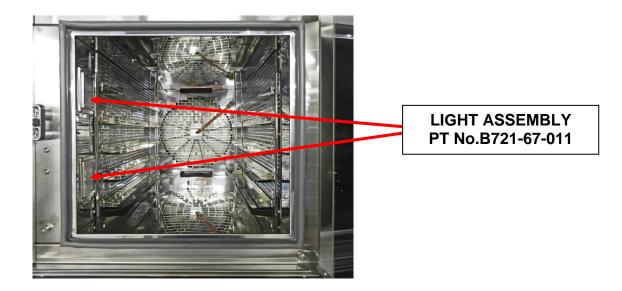




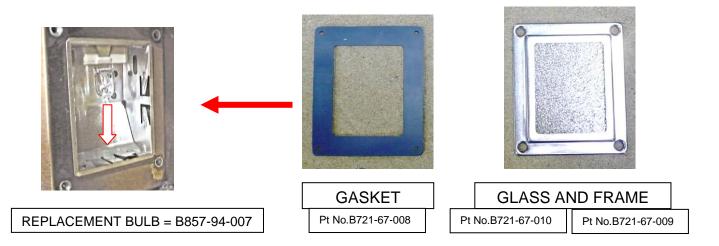


COMPLETE DOOR ASSEMBLY = PT No 153-03-01200 = LH HINGE DOOR PT No 153-03-01201 = RH HINGE DOOR

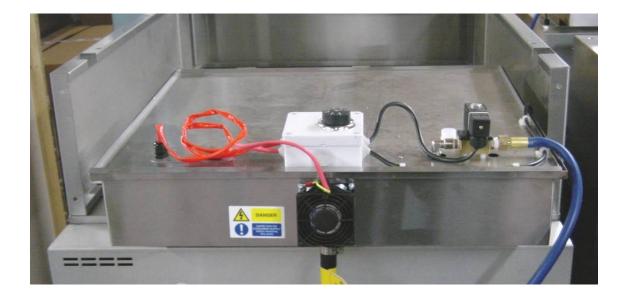




#### INDIVIDUAL LIGHT ASSEMBLY PARTS AVAILABLE AS BELOW



#### DO NOT TOUCH BULBS WITH BARE HANDS. USE A CLOTH OR GLOVES TO STOP ANY MARKS THAT WILL CAUSE HOT SPOTS AND PREMATURE BULB FAILURE.



# **Section 13**

# CONDENSER UNIT (IF FITTED)

The condenser can be fitted to any Bx oven or stacked Bx ovens as required.

## **CONDENSER INFORMATION INDEX**

INTRODUCTION	PAGE 81
DIMENSIONS	PAGE 82
SPECIFICATIONS	PAGE 83
INSTALLATION	PAGE 84
SAFETY	PAGE 86
OPERATION	PAGE 87
SPARES	PAGE 88

### ELECTRICAL INFORMATION

SEE ELECTRICAL MANUAL AVAILABLE SEPERATLY

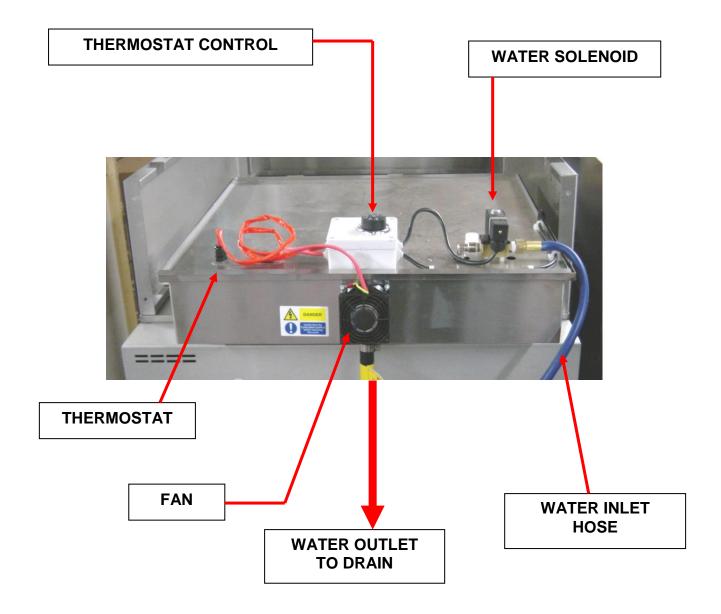
### AIRFLOW CONDENSER INFORMATION PAGE 91

### **INTRODUCTION**

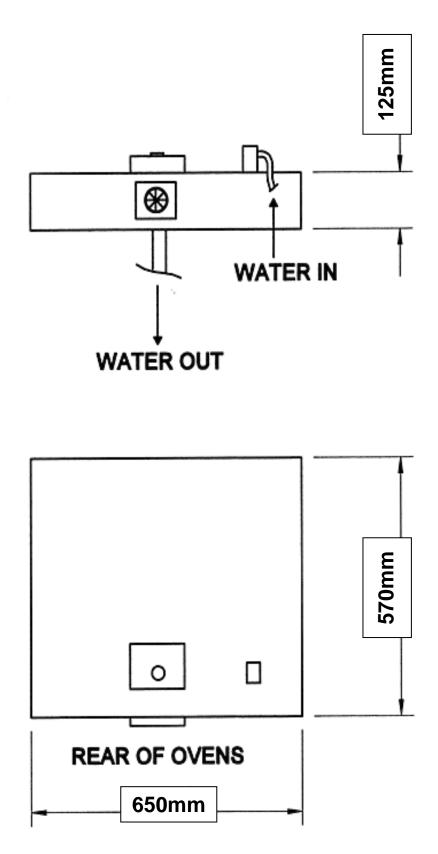
The condenser can be fitted to any Bx oven or stacked Bx ovens as required. With thermostatic control it can be adjusted to operate in most ambiant temperatures. Simple water conection (washing machine type fitting) and a hose to drain are all that is required to operate efficiently.

Steam is drawn from the fluepipe of the oven through a thermostatically controlled water cooled chamber and condenses to drain away.

When the cooling water reaches a set temperature it is automatically replaced with cold water to keep the condensing process as efficient as possible.



# **DIMENSIONS**



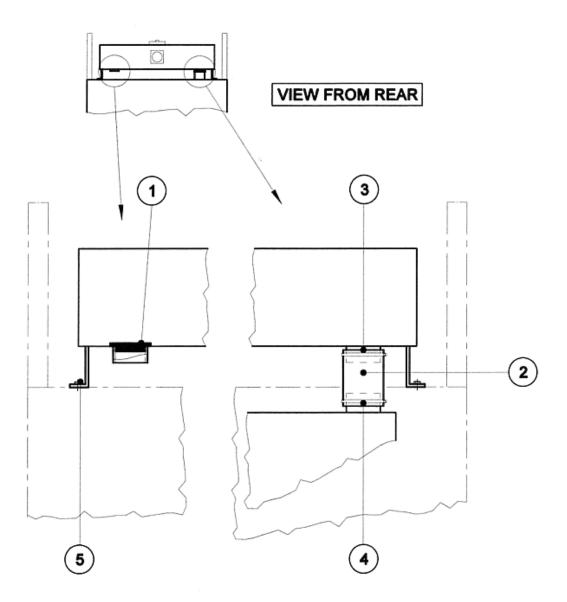
### **SPECIFICATIONS**

- **POWER** 230volts, 1 phase, 50hz, 21watts Wired to oven electrical panel.
- **WATER** Washing machine type connection to normal water supply via steam water connection to oven(s).

- NOISE Less than 85dB
- **WEIGHT** Approx 18kg (not including water)

## **INSTALLATION**

#### BEFORE INSTALLING ENSURE THAT ALL POWER IS DISCONNECTED AND THE OVEN IS COOL



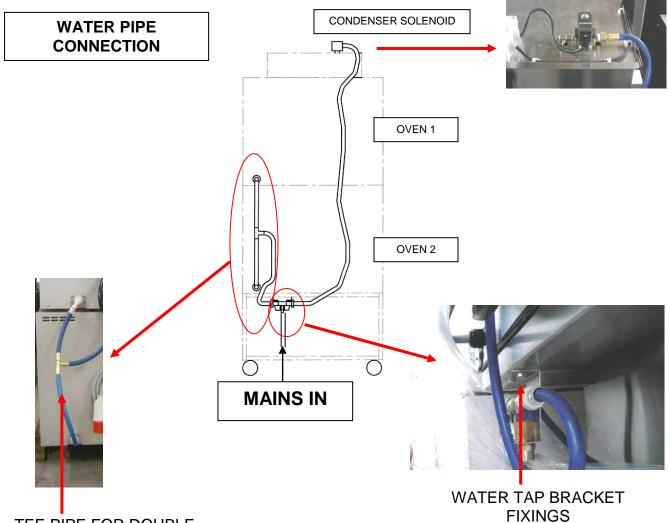
- 1. Before fitting the main condenser assembly, insert blanking plug (1) into lower hole that will not be required for the hand of oven being used.
- 2. Connect tube (2) to the spigot and retain with worm-drive clip (3).

#### NOTE

If fixing holes are not present on the top sheet of the oven, they should be marked and drilled at this stage.

Position condenser correctly and mark hole positions (*centre of each slot*). Remove condenser and drill holes of 6.5mm diameter at 4 positions.

- 3. Place condenser in position ensuring that the tube (2) passes through the hole in the top of the oven and worm drive clip (4), then over spigot of the damper assembly on the oven.
- 4. Tighten worm-drive clip (4).
- 5. Fasten condenser unit to top of oven with M6 x 12mm long hex head screws and washers in 4 positions. *(If holes have been drilled, nuts will have to be used also).*
- 6. Connect wiring, depending on whether the oven is 4 tray or 10 tray, as shown in electrical manual.
- 7. Connect drain hose to a suitable drain.
- 8. Attach water tap bracket to frame of base as shown and fasten water hose to a water supply. (*A tee pipe must be used on double ovens*)

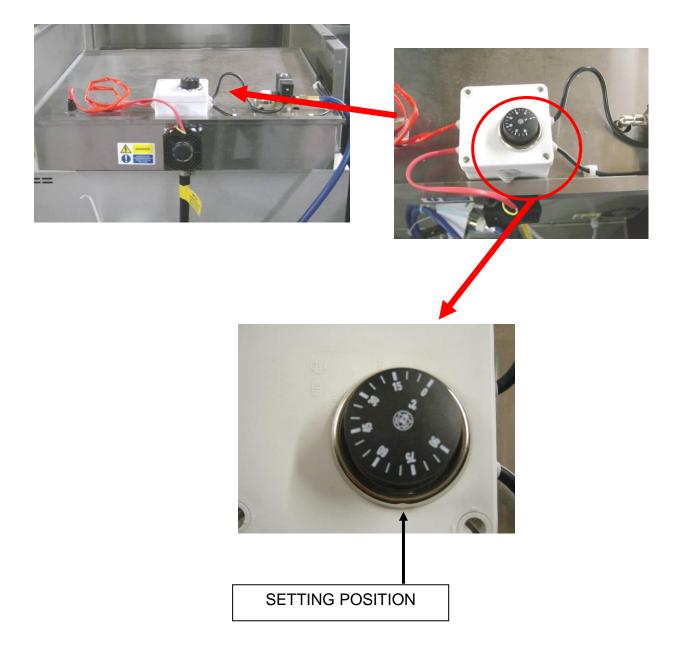


TEE PIPE FOR DOUBLE OVEN CONNECTION

#### BEFORE INSTALLING ENSURE THAT ALL POWER IS DISCONNECTED AND THE OVEN(S) IS COOL

- 1. All repairs and maintenance of electrical units must be carried out by authorised electricians; even then, electrical access panels must not be opened unless the mains supply to the oven is isolated.
- 2. All connections to the oven must be made in accordance with the statuary requirements of the country of installation.
- 3. While the oven is in operation (and for some time after use), it is inadvisable to touch the condenser or the surrounds because of conducted heat.
- 4. The condenser must be operated as described in this manual.
- 5. Only **MONO** spare parts should be used on this condenser.
- 6. The construction of the condenser must not be changed.
- 7. If the oven is not to be used for some time, it is advisable to ensure that the condenser unit is drained of water.

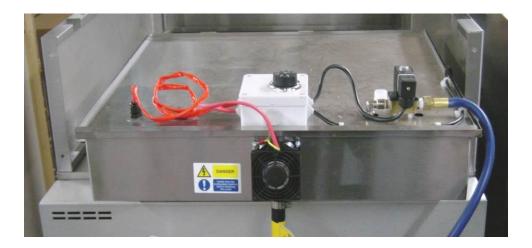
## **OPERATION**



- 1. Ensure that the water is connected correctly and the oven power is on.
- 2. The thermostat control should be adjusted to the required position.

#### It is suggested that as a starting point the thermostat is set at 60.

It can then be adjusted down if the performance drops or adjusted up if it is found that the water is being replaced too often.



# **CONDENSER SPARES INFORMATION**

FOR ENGINEERS USE ONLY.

DO NOT ATTEMPT ANY ALTERATIONS. IF IN DOUBT, CONTACT MONO EQUIPMENT FOR ADVICE

### MONO

Queensway Swansea West Industrial Estate Swansea. SA5 4EB UK

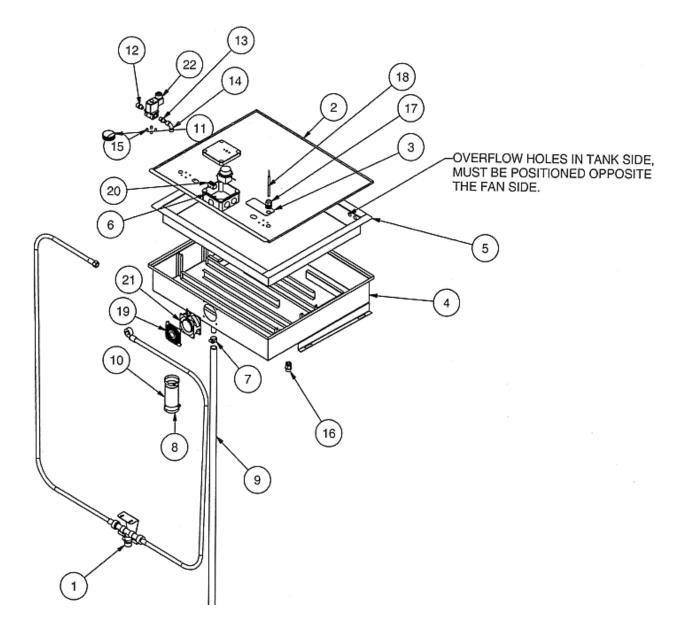
### email:spares@monoequip.com

Web site: www.monoequip.com

Tel. +44(0)1792 561234

## Spares +44(0)1792 564039

Fax. 01792 561016



ITEM	PART No.	DESCRIPTION	QTY
1	150-07-01300	INLET WATER CONTROL UNIT	1
2	150-19-01700	TOP SHEET	1
3	150-19-02300	COVER PLATE	1
4	150-19-02600	BASE TRAY	1
5	150-19-02700	WATER TANK	1
6	150-25-07100	JUNCTION BOX	1
7	A900-01-196	WORM DRIVE CLIP	1
8	A900-01-271	WORM DRIVE CLIP	2
9	A900-23-004	DRAIN TUBE (2 METRES)	1
10	A900-23-027	FLEXIBLE TUBE	1
(11)	A900-27-187	PLUG INSERT	1
12	A900-34-191	REDUCER ¼"BSP MALE X 3/8" BSPT MALE	1
13	A900-34-244	REDUCER ¼"BSP MALE X ¼" BSPT MALE	1
14)	A900-34-245	ELBOW	1
(15)	B811-33-001	SPACER	4
16	B839-17-003	CABLE GLAND TYPE 251	1
(17)	B842-17-005	CABLE GLAND TYPE 206-6096	1
18	B842-30-003	THERMOSTAT	1
(19)	B842-40-002	FAN GUARD	1
20	B842-50-005	PORCELAIN CONNECTING BLOCK	1
(21)	B869-75-033	FAN	1
22	B867-83-011	SOLENOID VALVE	1

# OTHER VERSIONS THAT MAY BE FITTED

The following evaporation design versions could be fitted to your oven.

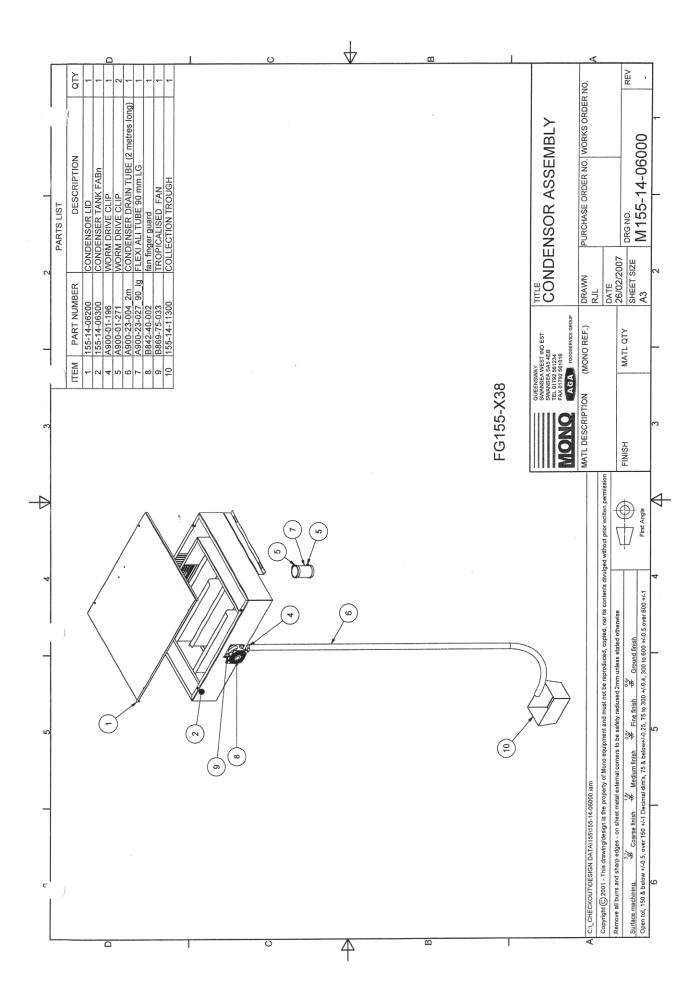
They only require to be plugged in to the socket found to the rear of the oven.

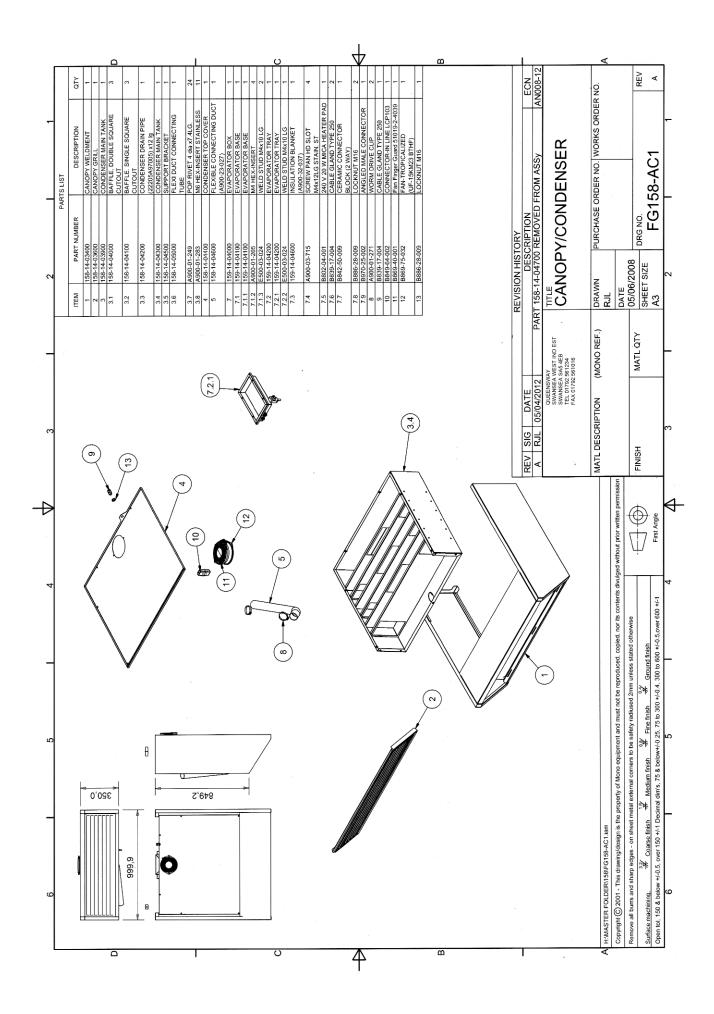


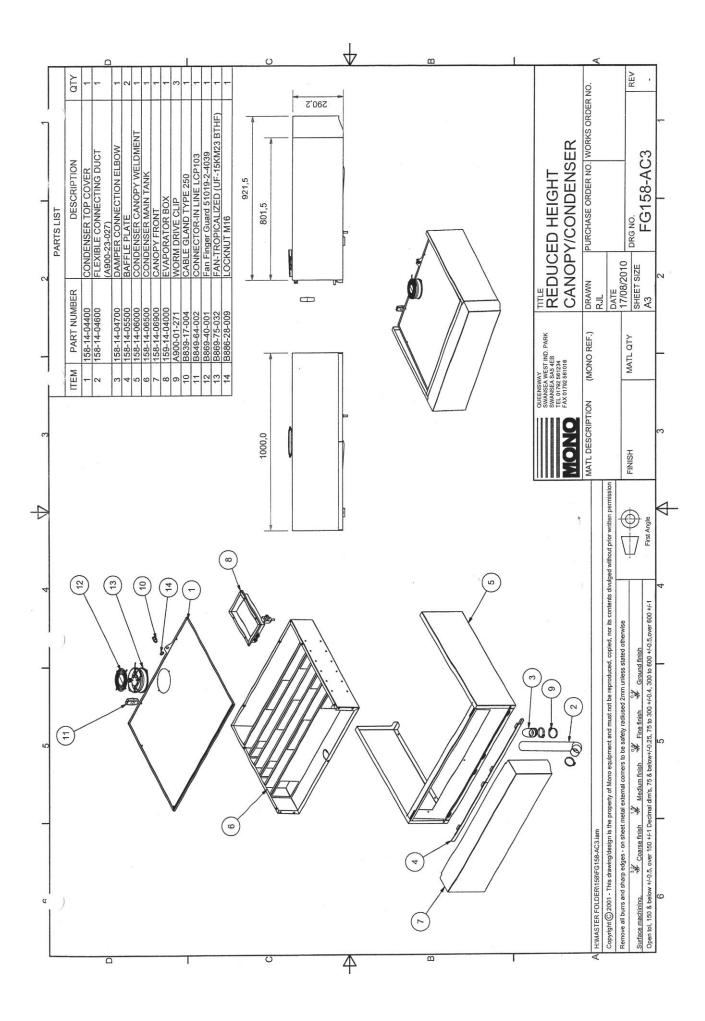
This powers the fan and evaporation pad.

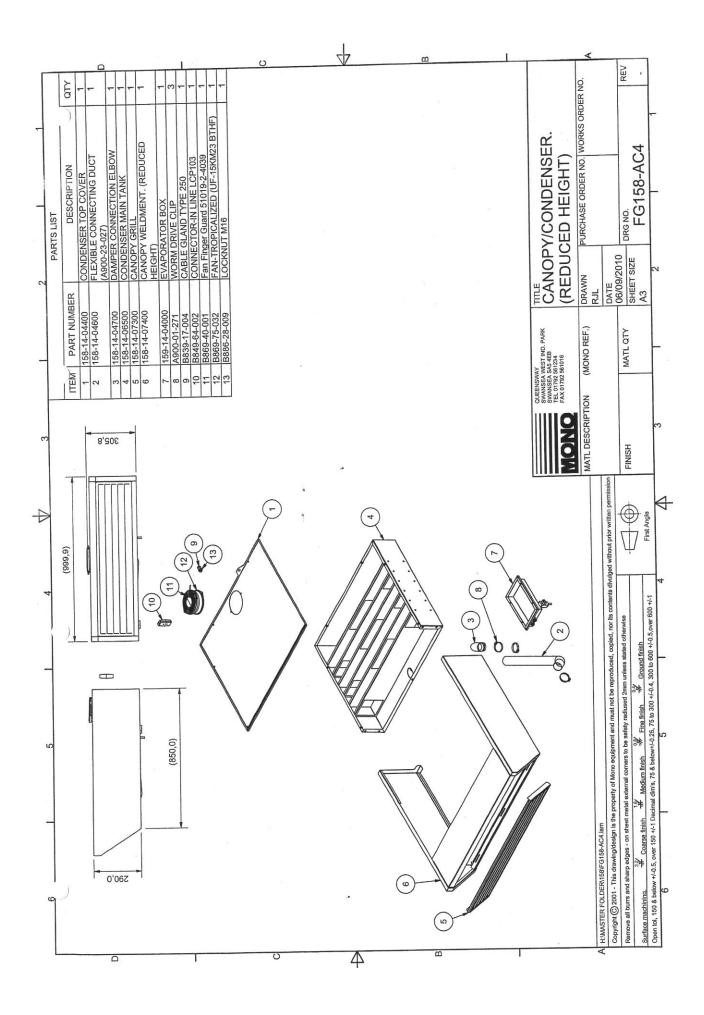
No drain is required.

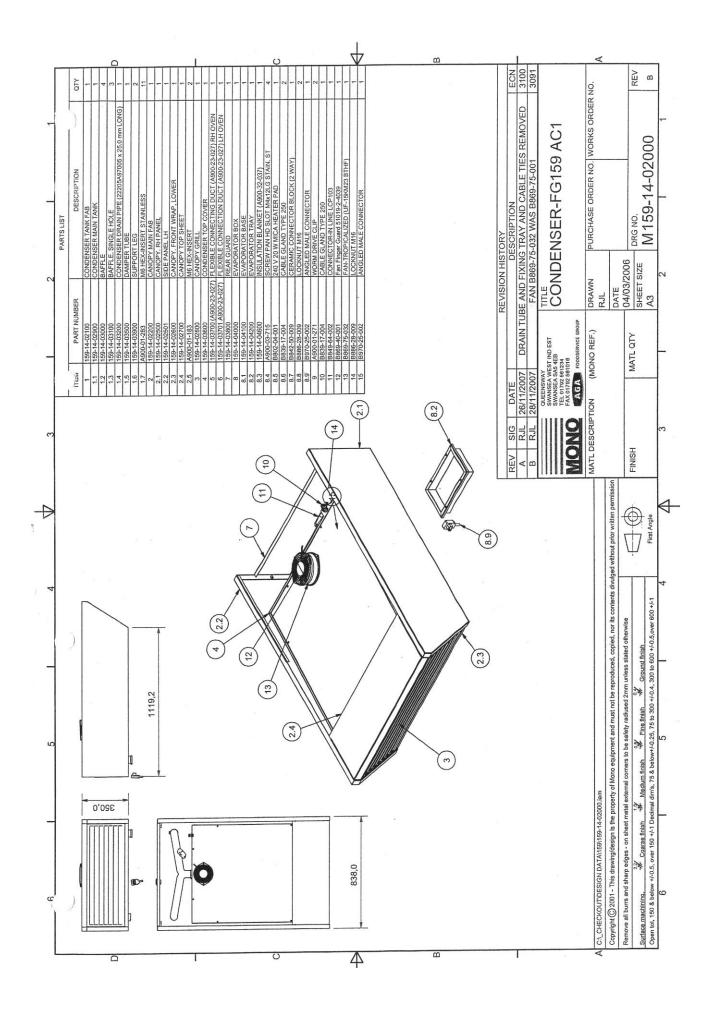
	<u> </u>	<u> </u>	<u> </u>		<
	а 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- 0 - 0 - 0	-	50 50	ER NO.
, ,,	337)	2 WAY) BTHF)		MOVED	
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If a fault arises, please do not hesitate to contact the Customer Service Department, quoting the **machine serial number** on the silver information plate of the machine and on the front cover of this manual

### MONO

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#### • OVEN 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 BY RECYCLING OR OTHER MEANS OF DISPOSAL THAT COMPLIES WITH LOCAL REGULATIONS.

(IN UK, ENVIRONMENTAL PROTECTION ACT 1990 APPLIES)