

F900 SERIES

User, installation and servicing instructions

ELECTRIC CHARGRILL E9460/E9490

Read these instructions before use

DATE PURCHASED:

MODEL NUMBER:

SERIAL NUMBER:

DEALER:

SERVICE PROVIDER:

T100896

Rev No 3 Published: 23/05/2019

Dear Customer

Thank you for choosing Falcon Foodservice Equipment.

This manual can be downloaded from <u>www.falconfoodservice.com</u> or scan here:



IMPORTANT: Please keep this manual for future reference.

Falcon Foodservice Equipment HEAD OFFICE

Wallace View, Hillfoots Road, Stirling. FK9 5PY. Scotland.



WEEE Directive Registration No. WEEE/DC0059TT/PRO

At end of appliance life, dispose of appliance and any replacement parts in a safe manner, via a licensed waste handler. Appliances are designed to be dismantled easily and recycling of all material is encouraged whenever practicable.

SYMBOLS



SCREWDRIVER









WARNING

SPANNER

COOKING OIL







FLAME

VIEWPORT



SPARK IGNITION





ALLEN KEY

IGNITER

C SPANNER

REMOVE DEVICE



PLUG REMOVER



- This appliance may be discoloured due to testing.
- These instructions are only valid if the country code appears on the appliance. If the code does not appear on the appliance, refer to the technical instructions for adapting the appliance to the conditions for use in that country.
- Installation must meet national or local regulations. Attention must be paid to: safety (installation & use) regulations, health and safety at work act, local and national building regulations, fire precautions act.
- To prevent shocks, this appliance must be earthed.
- This unit is fitted with an equipotential connection at the rear on the base.
- This appliance has been CE-marked on the basis of compliance with the Low Voltage and EMC Directives for the voltages stated on the data plate.
- This equipment is for professional use only and must be used by qualified persons.
- The installer must instruct the responsible person(s) of the correct operation and maintenance of the appliance.
- Unless otherwise stated, parts which have been protected by the manufacturer must not be adjusted by the installer.
- The appliance must be serviced regularly by a qualified person. Service intervals should be agreed with the service provider.
- Check that no damage has occurred to the appliance or supply cord during transit. If damage has occurred, do not use this appliance.
- Ensure the supply cord is routed free from the appliance to avoid damage.
- The appliance has been designed and approved to use Falcon kick plates; non Falcon kick plates could potentially adversely affect the performance of the appliance by restricting the air to the appliance.
- All apparatus connected to a potable water network and including water drain device has to be provided with an air break before its discharge to the drainage system. Type AA.

Training and competence

To help ensure the safe use of this appliance there is a requirement for you to provide whatever information, instruction, training and supervision as is necessary to ensure, so far as is reasonably practicable, the health and safety of all users.

For further help and information on training and competence we would refer you the Health and Safety Executive website; <u>www.hse.gov.uk</u> document ref: health and safety training INDG345. International customers should default to the health and safety guidelines provided by your government body.

Risk assessment

As part of managing the health and safety of your business you must control any risks identified in your commercial kitchen. To do this you need to think about what might cause harm to people and decide whether you are taking reasonable steps to prevent that harm. This is known as risk assessment. It is important to consider the environment around the product as well as the product itself. For example oil or food spills will present a significant risk so users so the need to immediately clean up such spills must be reflected in staff training.

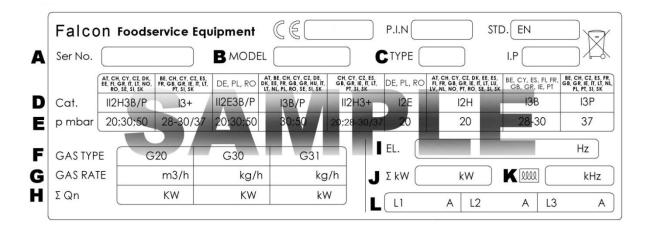
For further help and information on risk assessments we would refer you to you the Health and Safety Executive website; <u>www.hse.gov.uk</u> document ref: risk assessment INDG163. International customers should default to the health and safety guidelines provided by your government body.

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1.0 APPLIANCE INFORMATION

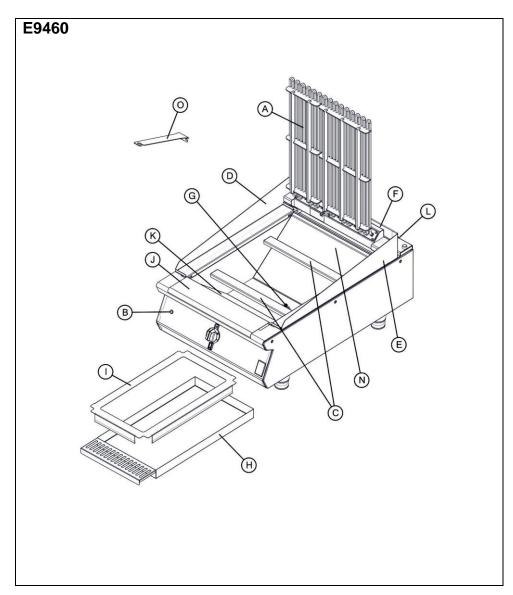
This appliance has been CE-marked on the basis of compliance with the relevant EU directives for the heat inputs, gas pressures and voltages stated on the data plate.



- A Serial No
- B Model No
- C Flue Type
- D Gas Category
- E Gas Pressure
- F Gas Type
- G Gas Rate
- H Total Heat Input
- I Electrical Rating
- J Total Electrical Power
- K Magnetic Field Frequency
- L Electrical Phase Loading

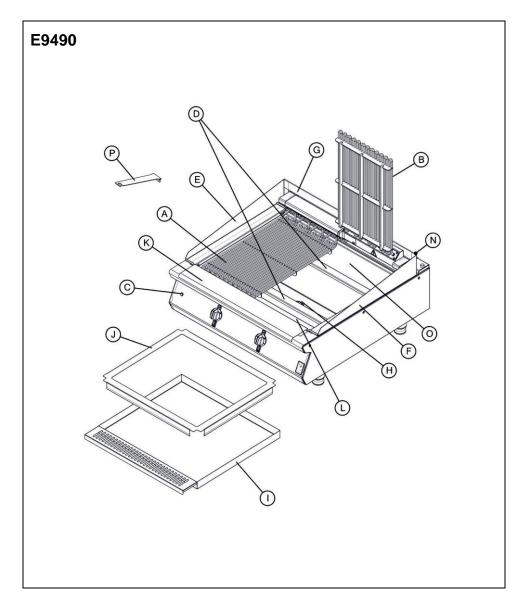
2.0 OPERATION

2.1 COMPONENT PARTS



- A Element
- B Power neon (Red)
- C Element supports
- D Left hand splashguard
- E Right hand splashguard
- F- Rear splashguard infill
- G- Drain

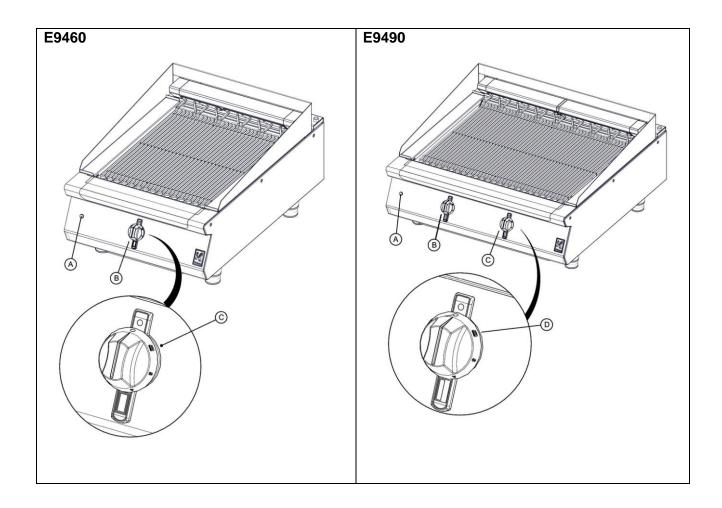
- H Drip Tray
- I Drip Tray Insert
- J- PTFE Front Clamp
- K- PTFE Front Liner
- L- PTFE Rear Clamp
- N- PTFE Rear Liner
- O- Cleaning tool



- A LH Element
- B RH Element
- C Power neon (Red)
- D Element supports
- E Left hand splashguard
- F- Right hand splashguard
- G- Rear splashguard infill
- H- Drain

- I- Drip tray
- J- Drip Tray Insert
- K- PTFE Front Clamp
- L- PTFE Front Liner
- N- PTFE Rear Clamp
- O- PTFE Rear Liner
- P- Cleaning tool

2.2 CONTROLS



- A Power neon (Red)
- B Control
- C Cleaning setting

- A- Power neon (Red)
- B- Left hand control
- C- Right hand control
- D- Cleaning setting

2.3 USING THE APPLIANCE

- 2.3.1 Before use, clean the appliance inside and out. See section 3.
- 2.3.2 Ensure the drip tray is fitted.
- 2.3.3 Power Neon (red) will light when there is mains power to the appliance
- 2.3.4 The appliance is fitted with a numbered control knob which indicates regulator setting.



THE CLEAN SETTING IS USED FOR CLEANING ONLY, IN THIS POSITION THE ELEMENTS CAN REACH 400°C.



DO NOT LEAVE THE CHARGRILL RUNNING ON A HIGH SETTING FOR PROLONGED PERIODS WHEN NOT COOKING.

TO MAINTAIN ELEMENT HEAT TURN THE CONTROL TO A LOWER SETTING.

2.4 CHEF'S RECOMMENDATIONS

- 2.4.1 Element temperature must be regulated for different circumstances.
- 2.4.2 The food absorbs heat from the elements, when the chargrill is in continuous use and cooking large quantities of food, it may be necessary to turn the control to a higher setting than is normally required for smaller batches
- 2.4.3 Lightly oil the food item that is being cooked, prior to placing it on the pre-heated element.



DO NOT PLACE NON-FOOD OBJECTS ON ELEMENTS, INCLUDING METALLIC OBJECTS FOR EXAMPLE; POTS, PANS OR UTENSILS AS THIS MAY CAUSE OVERHEATING OF THE ELEMENTS AND LEAD TO A NON-WARRANTY FAILURE.

3.0 CLEANING AND MAINTENANCE

When removing heavy items to aid cleaning or maintenance particular care should be taken. A manual handling risk assessment is the best way to determine the level of risk to anyone using or maintaining this equipment. To help with such an evaluation we have included the weights of individual components that may present significant risk.

For further help and information on manual handling and associated risk assessment we would refer you to you the Health and Safety Executive website; <u>www.hse.gov.uk</u> document ref: manual handling at work INDG143. International customers should default to the health and safety guidelines provided by your government body.

The cleaning of fryers or other products that use hot oil present significant risks to end users and particular care should be taken. Cold water and hot oil for example are an explosive mix and should be avoided at all costs.

Other useful references for health and safety issues:

- <u>www.hse.gov.uk</u>
- Essentials of health and safety at work ISBN978
- Noise at work INDG362
- Safe systems of work
- Other notes added to the body of the instructions



BEFORE ANY CLEANING IS UNDERTAKEN, ISOLATE THE APPLIANCE FROM MAINS POWER SUPPLY AT ISOLATOR SWITCH.

SUITABLE PROTECTIVE CLOTHING MUST BE WORN WHEN CLEANING THIS APPLIANCE.

THE APPLIANCE MUST NOT BE STEAM CLEANED. DO NOT USE ACID OR HALOGEN-BASED (E.G. CHLORINE) DESCALING LIQUIDS, FLAMMABLE LIQUIDS, CLEANING AIDS OR CLEANING POWDERS.

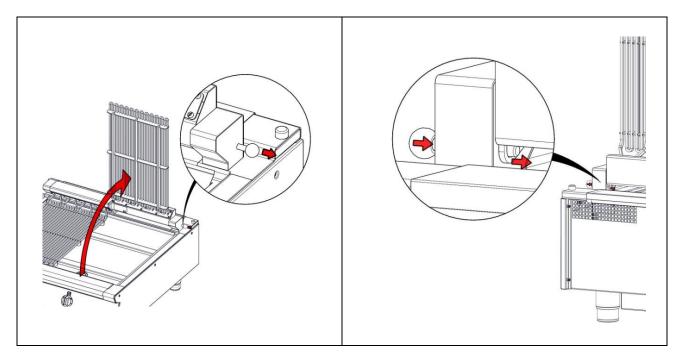
FAILURE DUE TO LACK OF PROPER CLEANING IS NOT COVERED BY WARRANTY.

NOTE: All surfaces are easier to clean if spillages are removed before becoming burnt on, and the appliance is cleaned daily.

It should be noted that certain scouring pads including nylon types can easily mark stainless steel. Care should be exercised during cleaning process. When rubbing stainless steel with a cloth, always rub in the direction of the grain.

3.1 CLEANING AND MAINTENANCE

- 3.1.1 Turn the control knob to the cleaning setting.
- 3.1.2 Allow to run at maximum temperature for approximately 15 minutes.
- 3.1.3 At this setting most food debris should carbonize and fall off the elements.
- 3.1.4 Scrape off any remaining debris using the element cleaning tool provided.
- 3.1.5 When cold the elements may also be cleaned using a cloth and hot soapy water.
- 3.1.6 Lift the elements to the vertical position and **engage locking pin**.





ENSURE LOCKING PIN IS ENGAGED AND HOLDING ELEMENTS UPRIGHT BEFORE CLEANING.



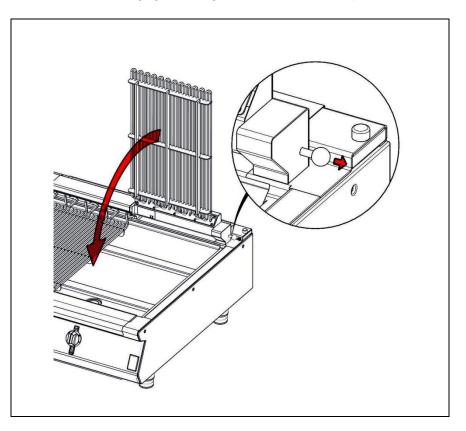
ENSURE THE ELEMENTS ARE COLD BEFORE RAISING

- 3.1.7 Clean the pan with warm water and detergent.
- 3.1.8 To clean the drip tray remove it from the appliance and warm water and detergent.
- 3.1.9 The splash guard is removable for cleaning.
- 3.1.10 The front and rear element support bars are also removable for cleaning.



DO NOT USE COARSE ABRASIVES TO CLEAN EXTERIOR PANELS. WARM WATER AND DETERGENT SOLUTION IS RECOMMENDED.

3.1.11 To lower elements disengage locking pin and lower as required.





DO NOT FORCE ELEMENTS DOWN WHILST LOCKING PIN IS ENGAGED.

3.1.12 If the unit is fitted with PTFE liners, ensure any debris that has collected behind the liners is removed on a daily basis.



THE PTFE SHEET SHOULD NOT BE ALLOWED TO COME INTO CONTACT WITH THE ELEMENTS WHEN HOT.

3.1.13 The PTFE sheeting should be cleaned using non-corrosive agents. Warm water and detergent is recommended.

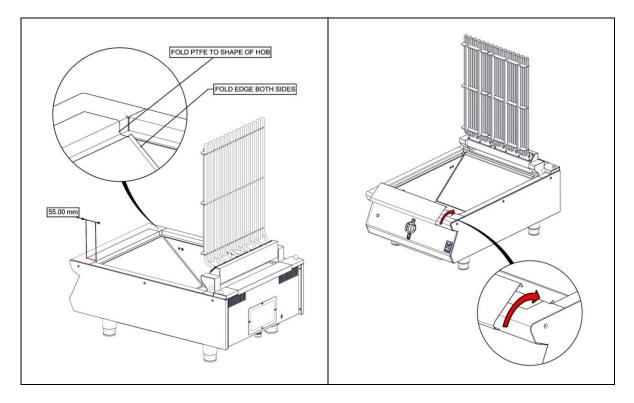


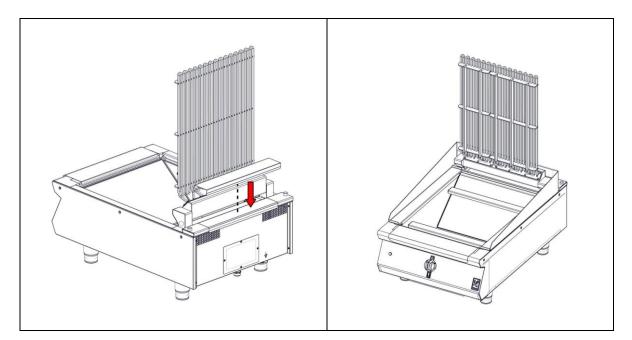
DO NOT USE SHARP OR ABRASIVE MATERIALS TO CLEAN THE PTFE SHEETING.

DISHWASHING THE PTFE SHEETING IS NOT RECOMMENDED.

3.2 PTFE FITTING

- 3.2.1 Remove Splashguards, front and rear PTFE Clamps and old PTFE Liner.
- 3.2.2 Lift the elements to the vertical position and engage locking pin.
- 3.2.3 Fit front & rear liners into appliance and fold PTFE to match the profile of the hob and pan. Flatten any wrinkles or creases out of the liner against the hob and pan surfaces as required.





3.2.4 Re-fit PTFE Clamps, element support bars and splashguards as required.

4.0 SPECIFICATION

4.1 APPLIANCE WEIGHT TABLE

APPLIANCE	UNIT WEIGHT (kg)	PACKED WEIGHT (kg)
E9460	49	62
E9490	60	77

4.2 TECHNICAL DATA TABLE

E9460	CURRENT			POWER
PHASE	MIN (A) @ MAX (A) @ ACTUAL (A) @ (kV 230V 230V 230V		(kW) @ 230V	
L1	10.00	11.67	11.11	3.36
L2	13.09	15.28	14.55	3.36
L3	10.00	11.67	11.11	1.68

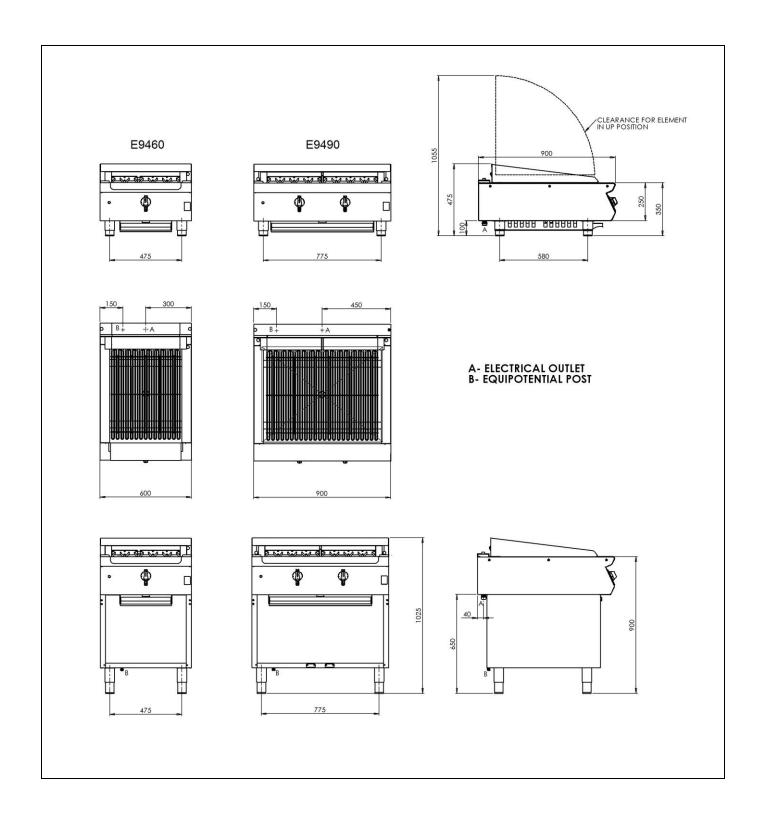
E9490	CURRENT			POWER
PHASE	MIN (A) @ MAX (A) @ ACTUAL (A) @ 230V 230V			(kW) @ 230V
L1	13.09	15.28	14.55	3.36
L2	20.00	23.33	22.22	6.72

L3	20.00	23.33	22.22	3.36
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IF ANY CURRENT IS OUT WITH THESE TOLERANCES, THE CAUSE MUST BE INVESTIGATED AND RECTIFIED.

5.0 DIMENSIONS / CONNECTION LOCATIONS



6.0 INSTALLATION

ELECTRICAL SAFETY AND ADVICE REGARDING SUPPLEMENTARY ELECTRICAL PROTECTION

Commercial 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 power supply suitable for the load as stipulated by the appliance data label.

The electrical installation and connections should meet the necessary requirements to 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 disconnector to connect to, which is easily accessible for switching off and safe isolation purposes. The switch disconnector must meet the specification requirements of IEC 60947.

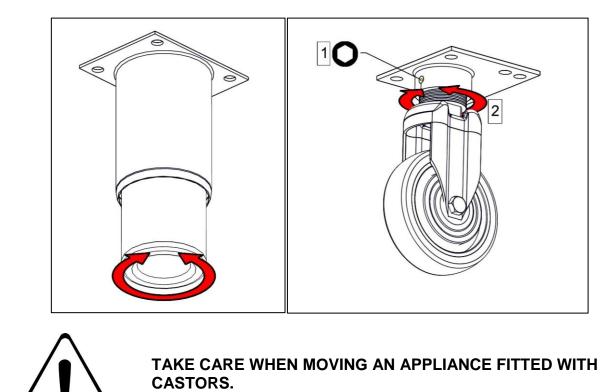
6.1 SITING / CLEARANCES

This appliance cannot be sited next to a combustible wall.



IF SUITING, THE NECESSARY CLEARANCES TO ANY COMBUSTIBLE WALL MUST BE THE LARGEST FIGURE GIVEN FOR INDIVIDUAL APPLIANCE INSTRUCTIONS.

6.2 ASSEMBLY



6.2.1 Position the appliance and level using feet adjusters as shown below.

6.3 ELECTRIC SUPPLY & CONNECTION

The location of the electrical inlet is as seen in section 5.0. This unit is suitable for AC supplies only. The standard terminal arrangement is Three phase ($400V 3N_{-}$) for all variants.

Live 1 (Phase 1)	Brown
Live 2 (Phase 2)	Black
Live 3 (Phase 3)	Grey
Neutral	Blue
Earth	Yellow/Green

Install an appropriate three phase mains supply cable with a 32A plug.

To install the mains cable, remove rear access panel as shown in section 7.1 and feed the cable through and connect to the terminal block.



THIS APPLIANCE MUST BE EARTHED

6.4 COMMISSIONING

Refer to section 2.0 for operation. Carry out the following operation:

- 6.4.1 Turn on mains power supply on.
- 6.4.2 Ensure red neon illuminates.
- 6.4.3 Turn control knob to the clean setting.
- 6.4.4 Let the appliance heat up. At this setting the chargrill is constantly on and can reach temperatures up to 400°C.

6.4.5 Switch appliance off.



This appliance is also provided with a terminal for connection of an external equipotential conductor. This terminal is an effective electrical contact with all fixed exposed metal parts of the appliance, and shall allow the connection of conductor having a nominal cross-section area of up to 10mm². It is located at the rear of the unit and identified by the following label and must only be used for bonding purposes.

If the appliance does not operate correctly please refer to section 9.0 and rectify the problem.

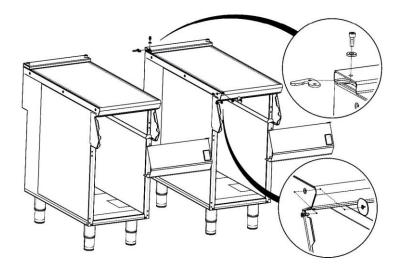


PLEASE FILL OUT THE INFORMATION TABLE ON THE FRONT COVER AFTER COMMISSIONING.

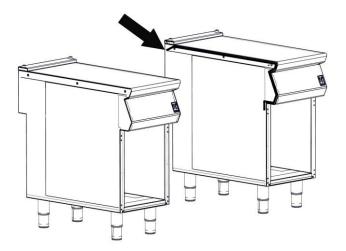
6.5 SUITING

The DLS system Patent no. GB 2540131 is designed to give a quick and easy suiting solution. If you require an improved seal between appliances we recommend you use, a food grade, high temperature silicon sealant. This can be supplied by Falcon part no – 523400021

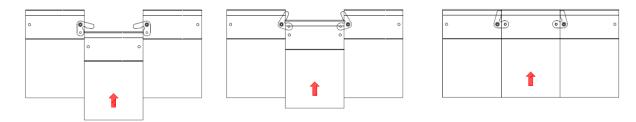
- 6.5.1 Before levelling and suiting units ensure the units are fully built, including all accessories and castings.
- 6.5.2 Undo the 4 fixing screws on the control panel and remove.
- 6.5.3 Remove the hob rear infill and replace with rear suiting plate and fixings.
- 6.5.4 Remove the front side panel countersunk screw and suiting plate.



6.5.5 Run a bead of silicon 5mm from profile edge as highlighted below.

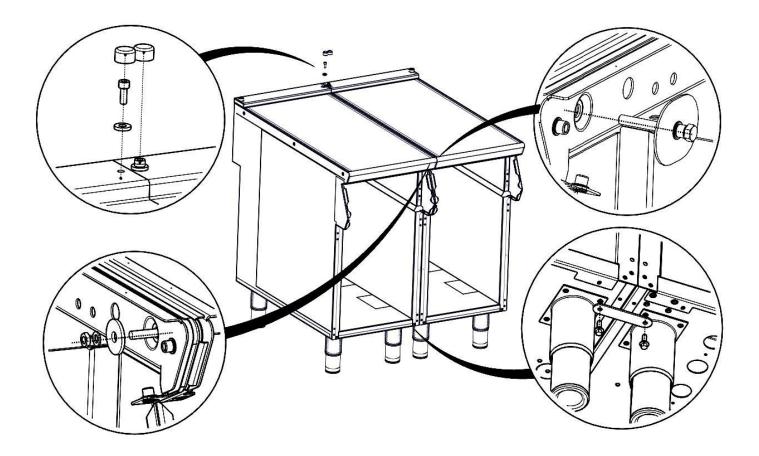


6.5.6 Slide suited units into position.



- 6.5.7 (A) Right hand unit: Screw the M5 x 40 screw (supplied in the kit) into one of the suiting plates as shown and then insert through the front fixing holes of both units.
- 6.5.8 (B) Left hand unit: Slide the penny and lock washer on to the screw and secure using the M5 nut.
- 6.5.9 (C) Remove the front bolts from feet, insert base tie plate and secure the bolts back into position.

6.5.10 (D) Replace fixings on the rear hob and tighten screw caps into position.



6.5.11 Replace control panel.

7.0 SERVICING



BEFORE ATTEMPTING ANY MAINTENANCE, ISOLATE THE APPLIANCE AT THE MAINS SWITCH AND TAKE STEPS TO ENSURE THAT IT IS NOT INADVERTENTLY SWITCHED ON.

THERE ARE NO SERVICEABLE COMPONENTS LOCATED IN THE ELEMENT HEAD. THE MICRO SWITCH IS LOCATED IN THE PIVOT HOUSING OF THE ELEMENT ASSEMBLY AS SHOWN IN STEP 7.5.



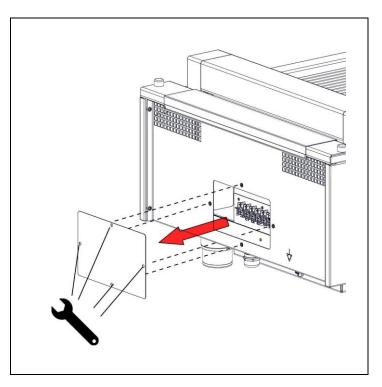
THE ELEMENT HEAD IS A NON SERVICEABLE COMPONENT. REMOVING THE ELEMENTS FROM THE ELEMENT HEAD OF THE APPLIANCE WILL UNSEAT THE GASKET. THIS WILL LEAD TO THE INGRESS OF FOOD AND GREASE DEBRIS INTO THE ELEMENT HEAD ASSEMBLY.

IF THERE IS A FAULT WITH THE ELEMENTS ON THE APPLIANCE THE COMPLETE ELEMENT HEAD ASSEMBLY SHOULD BE REPLACED AS INSTRUCTED BELOW IN STEP 7.6.



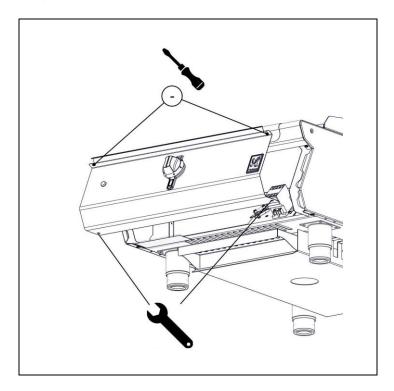
7.1 ACCESS PANEL REMOVAL

7.1.1 Remove access panel as shown below.



7.2 CONTROL PANEL REMOVAL

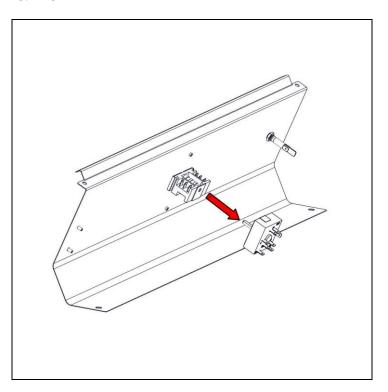
7.2.1 Remove control panel as shown below.



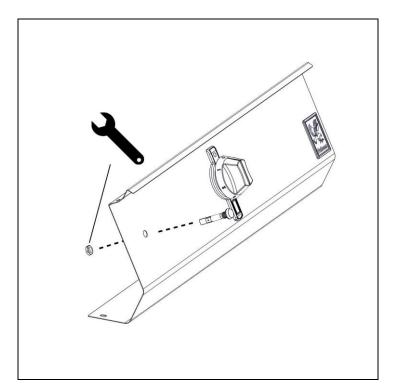
7.3 ENERGY REGULATOR, SWITCH AND NEON REMOVAL

7.3.1 Remove control panel as shown in section 7.2.1

7.3.2 Remove energy regulator and switch as shown below.

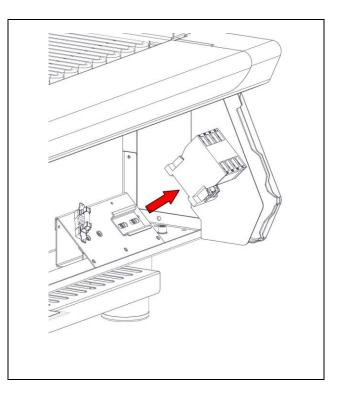


7.3.3 Remove neon as shown below.



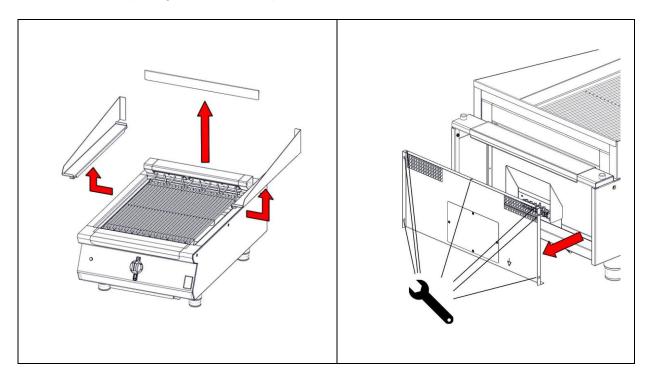
7.4 CONTACTOR REMOVAL

- 7.4.1 Remove control panel as shown in section 7.2.1
- 7.4.2 Remove contactor as shown below.

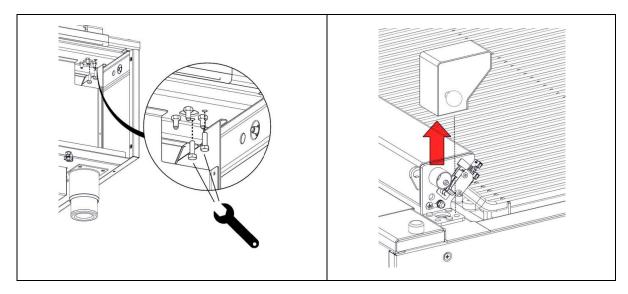


7.5 MICRO SWITCH REMOVAL

7.5.1 Remove splashguards and rear panel as show below



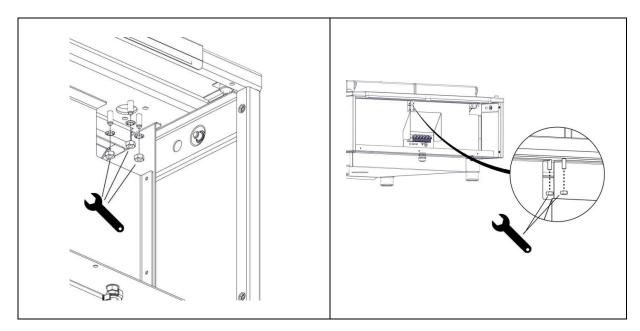
7.5.2 Remove two hex screws from each side of underside of the hob. Pull back pin and remove element head end covers from the topside of hob and repeat on opposite side if required.



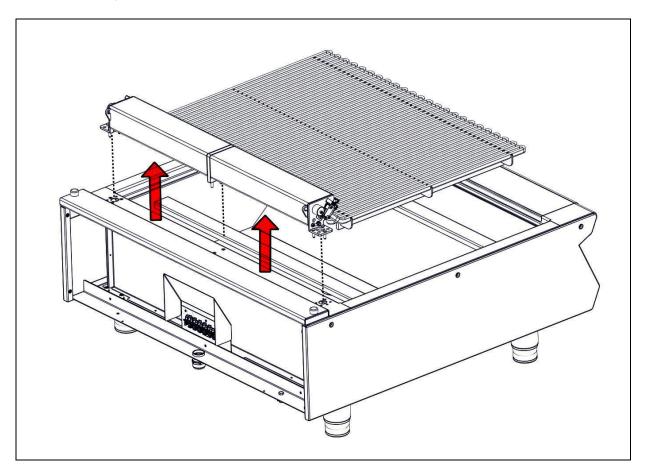
7.5.3 Disconnect the wires from micro switch and unfasten two cap screws to remove micro switch.

7.6 HEATING ELEMENTS REMOVAL

- 7.6.1 Remove splashguard, rear panel and element head end covers as shown in section 7.5.1 and 7.5.2.
- 7.6.2 Remove control panel as shown in section 7.2.1.
- 7.6.3 Remove element wires from contactor(s).
- 7.6.4 Remove three hex nuts on each end of the element mounting plates. E9490 version will require the centre pillar nuts to be removed.

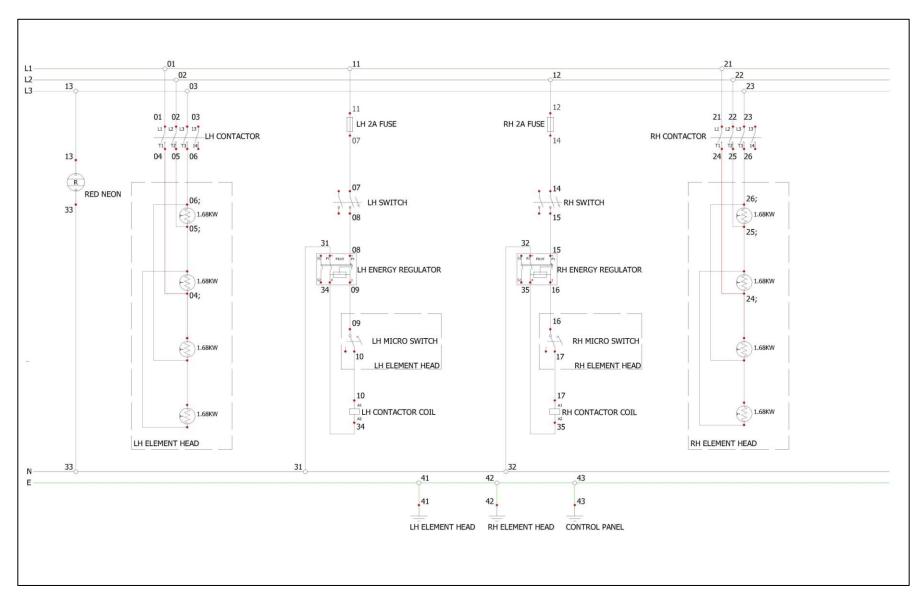


7.6.5 Feed cables from front of unit and out at rear cable entry hole to enable element assembly lift off as shown below.

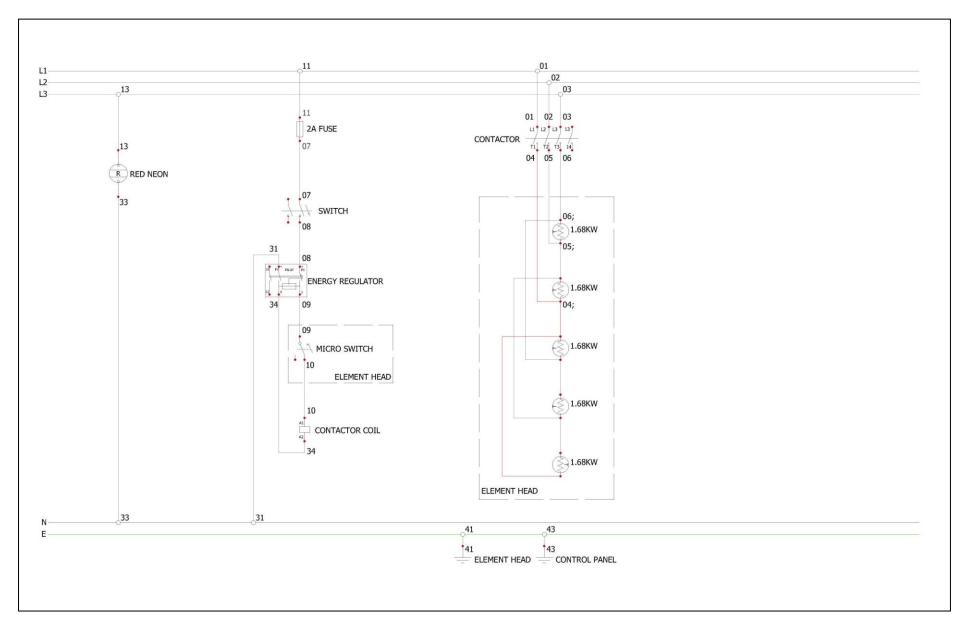


7.7 CIRCUIT DIAGRAMS

7.7.1 E9490 Circuit Diagram

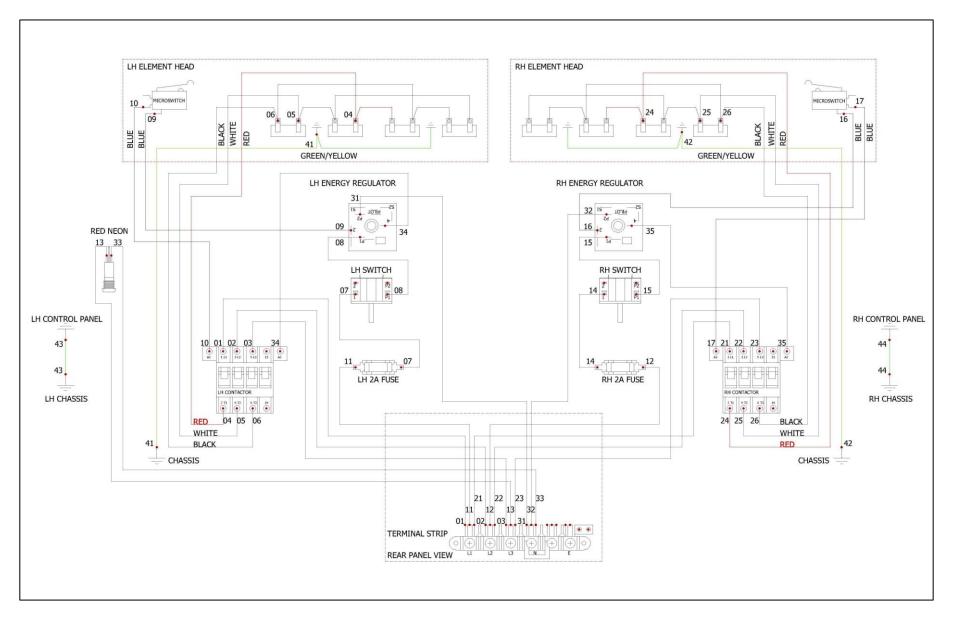


7.7.2 E9460 Circuit Diagram

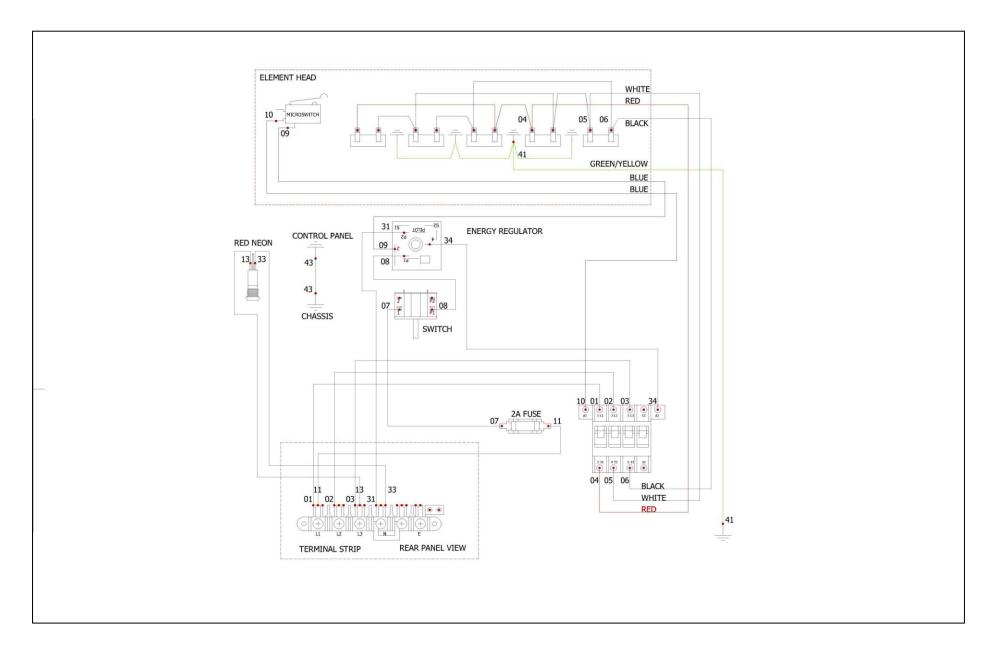


7.8 WIRING DIAGRAMS

7.8.1 E9490 Wiring Diagram



7.8.2 E9460 Wiring Diagram



9.0 FAULT FINDING

POSSIBLE CAUSES	REMEDY	USER	*ENG
No power to unit	Check mains power is connected and turned on	~	
Element not fully down.	Ensure element is fully lowered	~	
Fuse has blown	Check Fuse behind control panel (section 7.2.1) and replace as		✓
	No power to unit Element not fully down.	No power to unitCheck mains power is connected and turned onElement not fully down.Ensure element is fully loweredEuse has blownCheck Fuse behind control panel (section	No power to unitCheck mains power is connected and turned onElement not fully down.Ensure element is fully loweredFuse has blownCheck Fuse behind control panel (section 7.2.1) and replace as

PROBLEM	POSSIBLE CAUSES	REMEDY	USER	*ENG
Food keeps burning	Dial setting too high	Lower dial setting	~	
Appliance is too hot	Dial left on 'Clean' setting for too long.	Only use clean setting for short periods and only when cleaning the appliance.	✓	
	Appliance being left on higher settings when not in use.	If the appliance is not in use, turn the dial to a lower setting to maintain element temperature.	✓	

*ENG Service engineer only.

10.0 SPARE PARTS

PART DESCRIPTION	SPARES NUMBER
Power neon red	730962010
Control knob	733650003
Terminal Block	731000006
Contactor	734310440
Switch	732910481
Micro switch	735960015
Cleaning tool scraper	733650009
Energy regulator	737630011
E9460 Control panel	733650000
E9460 PTFE front & rear liner set	733650004
E9460 Element	735950000
E9460 Drip Tray	533550002
E9490 Control panel	733660000
E9490 PTFE front & rear liner set	733660002
E9490 Element	735960000
E9490 Drip Tray	533570000

When ordering spare parts please quote the following:

Model Number Serial number

This information will be found on data plate attached to the appliance Visit our website for further spares information.

11.0 SERVICE INFORMATION

It is recommended to have a maintenance contract with a local service provider.

SERVICELINE CONTACT: (UK only) Phone: +441438 363 000

Warranty Policy Shortlist

For our warranty policy please go to www.falconfoodservice.com