

INSTALLATION AND OPERATION MANUAL

# ELECTRIC COOKTOP

E512S E514S E516S



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Serial Number

Dealer

Service Provider





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# Blue Seal Electric Cooktop

E512S	Electric Cooktop - 300mm.
E514S	Electric Cooktop - 600mm.
E516S	Electric Cooktop - 900mm.

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# Introduction

We are confident that you will be delighted with your Blue Seal ELECTRIC COOKTOP, and it will become a most valued appliance in your commercial kitchen. To ensure you receive the utmost benefit from your new Blue Seal ELECTRIC COOKTOP, there are two

To ensure you receive the utmost benefit from your new Blue Seal ELECTRIC COOKTOP, there are two important things you can do.

# Firstly:

Please read the instruction book carefully and follow the directions given. The time taken will be well spent.

#### Secondly:

If you are unsure of any aspect of the installation, instructions or performance of your appliance, contact your BLUE SEAL dealer promptly. In many cases a phone call could answer your question.

#### **CE Only:**

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 supplier of this appliance to obtain the technical instructions for adapting the appliance to the conditions for use in that country.

#### **Recognise safety information:**

Risk of electric shock.



Safety alert symbol. When you see this symbol in the manual or on the appliance, pay special attention to the instructions.

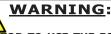


Read the instructions before using this appliance.



WARNING:

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS APPLIANCE.



GREAT CARE MUST BE TAKEN BY THE OPERATOR TO USE THE EQUIPMENT SAFELY TO GUARD IT AGAINST RISK OF FIRE.

- THE APPLIANCE MUST NOT BE LEFT ON UNATTENDED.
- IT IS RECOMMENDED THAT A REGULAR INSPECTION IS MADE BY A COMPETENT SERVICEMAN TO ENSURE CORRECT AND SAFE OPERATION OF YOUR APPLIANCE IS MAINTAINED.
- **DO NOT** STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.
- DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.
- DO NOT USE WATER JET, SPRAY, OR STEAM CLEANER TO CLEAN THIS APPLIANCE.

This appliance is;

• Intended for commercial use only, in kitchens of restaurants, canteens, and so on. This appliance is not inteneded for use in continuous mass production of food.

**CAUTION:** 

- For professional use and is only to be used by suitably qualified / trained persons.
- Only qualified service persons are to carry out installation, servicing and gas conversion operations.
- Components having adjustments protected (e.g. paint sealed) by the manufacturer should not be adjusted by the user / operator.
- DO NOT operate the appliance without the legs supplied fitted.

Model Number	Model Type	Total Power Input	Net Weight
E512S-B	Bench Model with 2 Hotplate Elements	5.2 kW	32 kg
E514S-B	E514S-B Bench Model with 4 Hotplate Elements		70 kg
E514S-C	With Cabinet Base and 4 Hot- plate Elements	10.4 kW	76 kg
E514S-L With Leg Stand and 4 Hot Elements		10.4 kW	74 kg
E516S-B	Bench Model with 6 Hotplate Elements	15.6 kW	113 kg
E516S-C	With Cabinet Base and 6 Hot- plate Elements	15.6 kW	117 kg
E516S-L	With Leg Stand and 6 Hotplate Elements	15.6 kW	113 kg
E516S-R With Refrigeration Base and 6 Hotplate Elements		15.6 kW	117 kg

#### **Model Numbers Covered in this Specification**

#### **Base Stand Options:**

- -B Bench Model
- -C with Cabinet Base
- -L with Leg Stand
- -R with Refrigeration Base

(All Models). (E514S / E516S Models only). (E514S / E516S Models only). (E516S Models only).

#### General

A commercial heavy duty, high efficiency Cooktop for modular kitchens, constructed in easy clean stainless steel external finish. All services are accessed from the front of the unit.

It is available on industrial adjustable feet / rear rollers with 3 models of base unit available from the E512S to E516S models. (Model E514S is not available with Refrigeration Base option and Model E512S is only available in Bench Model).

	Electrical Supply			Nominal Rating				
Model	Voltage	Power	Frequency	Power Input		Current (	A)	Voltage
				•	L1	L2	L3	
E512S	230-240 Vac	1 P+N+E	50 / 60 Hz	5.2 kW	21.7			240 Vac
	220-240 Vac	1 P+N+E	50 / 60 Hz	4.8 kW	20.8			230 Vac
E514S	400-415 Vac	2 P+N+E	50 / 60 Hz	10.4 kW	21.7	21.7		415 Vac
	380-415 Vac	2 P+N+E	50 / 60 Hz	9.6 kW	20.8	20.8		400 Vac
E516S	400-415 Vac	3 P+N+E	50 / 60 Hz	15.6 kW	21.7	21.7	21.7	415 Vac
	380-415 Vac	3 P+N+E	50 / 60 Hz	14.4 kW	20.8	20.8	20.8	400 Vac

#### **Electrical Supply Requirements**

#### **Electrical Connection**



THIS APPLIANCE MUST BE EARTHED. IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

Electrical supply connection point is located at the rear of the appliance, approximately 130mm from the right hand side and 30mm from the rear of the appliance. 85mm from bench height on bench models and 675mm from the floor on leg stand and cabinet base models. (Refer to the 'Dimensions' section).

When connecting this electric appliance to the mains supply, ensure that the following is carried out:

- An isolating switch is fitted within 2m of the appliance, but not on the appliance and in such a position that the user does not have to reach across the cooking surface.
- Supply cord shall be oil-resistant, sheathed flexible cable and not lighter than ordinary polychloroprene or other equivalent synthetic elastomer sheathed cord (as per AS / NZS 3191 part 2.10.11. or IEC 60245-IEC-57) e.g. HO5 RN-F Type.
- The branch supply line shall be individually overload protected to the correct current rating and the supply chord shall be protected against any mechanical or thermal damage.
- A cable gland is fitted to the wiring entry hole at the rear of the appliance.
- All wiring connections must be tight.
- If the appliance is intended to be moved for cleaning, then it shall be installed with flexible power supply and equipotential bonding connections. The installation shall allow the appliance to be moved forward by at least 1320 mm without the flexible connections becoming taut or strained.
- A residual-current device (RCD) is recommended for protection of the power supply to this appliance.

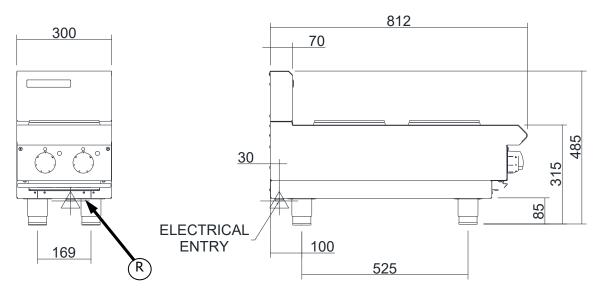
Refer to the appropriate wiring standards for the size of cable that is to be supplied to an appliance for the current drawn on that line.

For the Refrigeration Cabinet Specifications, refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

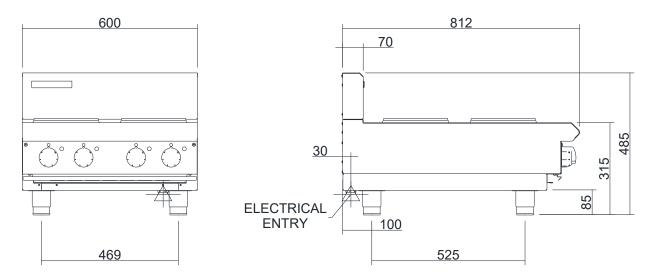
#### **Dimensions for Bench Models**



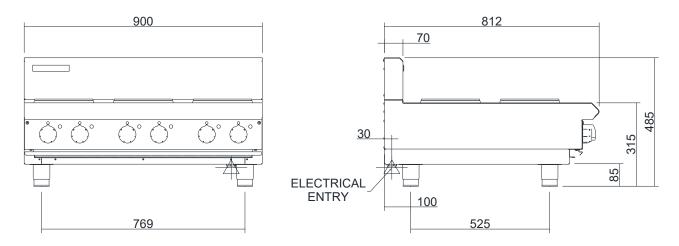
#### E512S-B



#### E514S-B

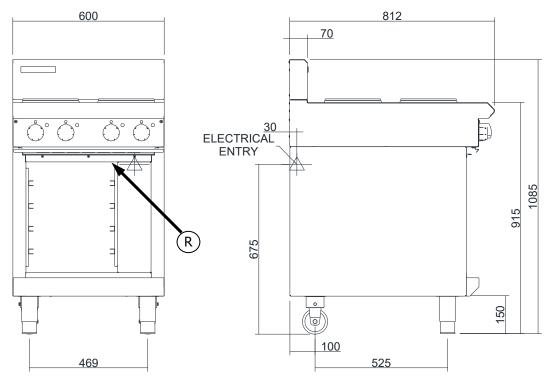


#### E516S-B

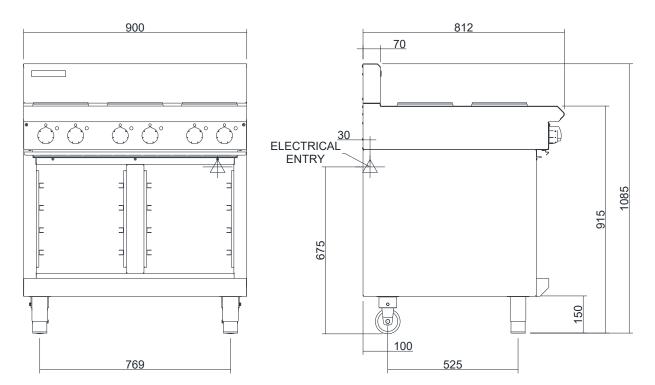


# **Dimensions for Cabinet Base Models**

E514S-C



#### E516S-C

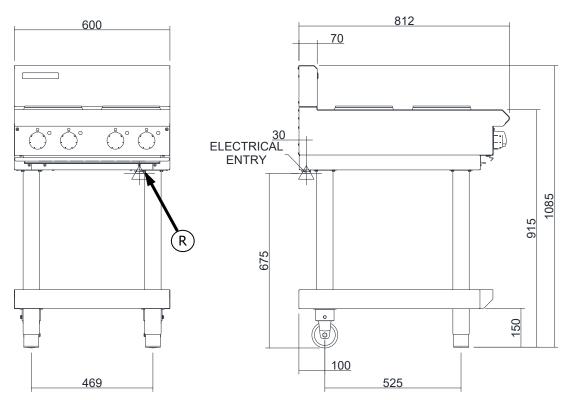


(R) = Rating Plate Location for this option.

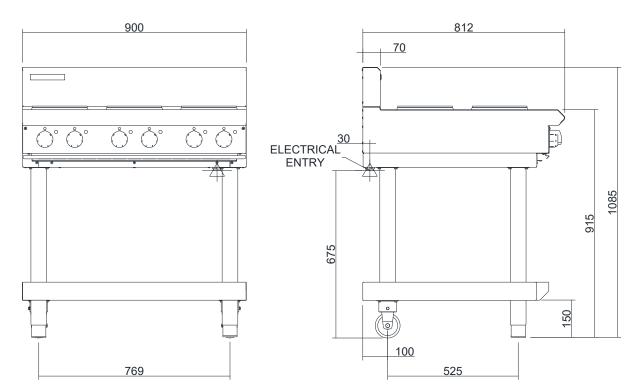
# **Dimensions for Leg Stand Models**



### E514S-L



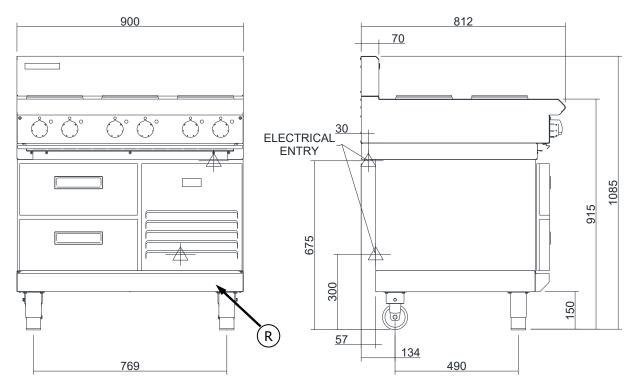
#### E516S-L



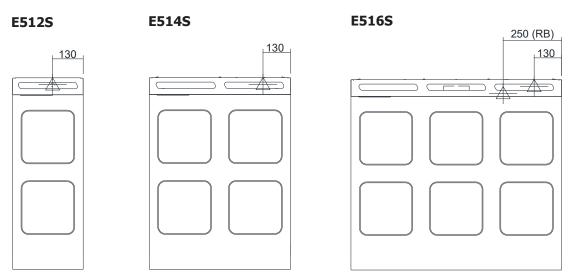
# **Dimensions for Refrigerated Base Models**

(R) = Rating Plate Location for this option.

#### E516S-R



#### Cooktop



NOTE:

- E512S is only available as Bench Mount (B) Model.
- E514S is available as Bench Mount (B), Cabinet Base (C) or Leg Stand (L) model options.
- E516S is available as Bench Mount (B), Cabinet Base (C), Leg Stand (L), or Refrigerated Base (R) model options.

For the Refrigeration Cabinet Operation refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

#### **Installation Requirements**

NOTE:

- It is most important that this Electric Cooktop is installed correctly and that operation is correct before use. Installation shall comply with local electrical and health and safety requirements.
- This appliance shall be installed with sufficient ventilation to prevent the occurrence of unacceptable concentrations of health harmful substances in the room the appliance is installed in.

Blue Seal Cooktops are designed to provide years of satisfactory service, and correct installation is essential to achieve the best performance, efficiency and trouble-free operation.

This appliance must be installed in accordance with National installation codes and, in addition, in accordance with relevant National / Local codes covering electrical and fire safety.

	5 / NZS3000 - V 5 7671 - R	Viring Rules. Requirements for Electrical Installations.
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# Installations must be carried out by authorised persons only. Failure to install equipment to the relevant codes and manufacturer's specifications shown in this section will void the warranty.

# Unpacking

- Remove all packaging and transit protection from the appliance including all protective plastic coating from the exterior stainless steel panels.
- Check equipment and parts for damage. Report any damage immediately to the carrier and distributor.
- Report any deficiencies to the distributor who supplied the appliance.
- Check that the available electrical supply is correct to that shown on the Rating Plate attached to the R/H underside of the front Cooktop lower trim, for Bench, Cabinet Base and Leg Stand Models. For the Refrigerated Base Models the rating Plate is located on the R/H underside of the sill.

#### Location

- 1. Installation must include adequate clearance and ventilation.
- 2. Position the appliance in its approximate working position.
- 3. The legs must always be fitted to the base of the appliance. Ensure that the legs are securely attached.

#### Clearances

NOTE: This appliance should only be placed in close proximity to walls, partitions, furniture, or other surfaces if they are made of or cladded with non-combustible material.

	Combustible Surface	Non Combustible Surface
Left / Right Hand Side	250 mm	0 mm
Rear	50 mm	0 mm

#### Assembly



- This appliance is for professional use and is to be used by qualified persons only.
- Only qualified service persons are to carry out installation and servicing of this appliance.

#### **Bench Mount (B) Models**

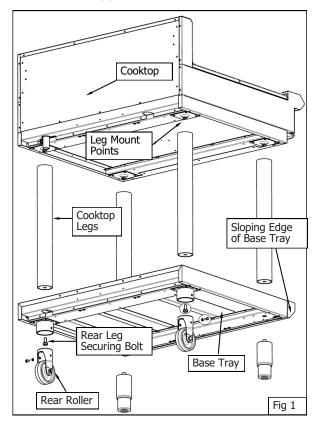
- Check that all the feet are fitted. 1.
- 2. Adjust the four feet to make the hob steady and level.

#### **Optional Accessories (Refer to Replacement Parts List)**

Plinth Kit. For installation details, refer to the instructions supplied with each kit.

#### Leg Stand (L) Models Only

- Lower the appliance onto its rear face. 1.
- 2. Attach the four Cooktop legs to the leg mount points on the underside of the Cooktop unit.
- 3. 4.
- Secure each leg hand tight. Align the 4 round holes in the corners of the base tray with the 4 Cooktop legs already fitted. (Ensure that the base tray is orientated with the sloping edge of the base tray facing the front of the appliance).
- 5. Slot the base tray onto the 4 Cooktop legs and push fully home.
- 6. Secure the base tray to the front cooktop legs by screwing the adjustable feet supplied, into the base of the front cooktop legs. Secure each adjustable foot, hand tight.
- Fit the rear leg securing bolts up through 7. the centre of the rear leg ring plates to secure the rear of the base tray to the rear cooktop legs and tighten up the bolts using a 24mm socket.
- 8. Fit the rear rollers to the rear leg ring plates and secure using the locating bolts supplied and tighten bolts using a 10mm spanner.
- 9. Lift the Cooktop back onto its legs.



NOTE: This appliance is fitted with adjustable feet / rear rollers to enable the appliance to be positioned securely and level. This should be carried out on completion of the electrical connection. Refer to the 'Electrical Connection' section.

#### **All Other Models**

All other models come pre-assembled.

#### **Electrical Connection**



THIS APPLIANCE MUST BE EARTHED. IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY A SUITABLY QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

#### NOTE: ALL ELECTRICAL CONNECTIONS MUST ONLY BE CARRIED OUT BY AN AUTHORISED PERSON.

Each appliance should be connected to an adequately protected power supply and isolation switch mounted adjacent to, but not behind the appliance. This switch must be clearly marked and readily accessible in case of fire.

- 1. Check that the electricity supply is correct as shown on the Rating Plate. Refer to the 'Dimensions' Section' for rating plate locations for the different model types.
- 2. The supply terminal connections are located at the rear of the the Cooktop. Refer to 'Electrical Connections' in the 'Specifications' section of the manual. Bring the supply cable up through the compression type gland provided on the rear of the Cooktop.
- 3.
- Connect the mains supply to L1, L2 and L3 connections as required. Refer to the 'Electrical Supply 4. Requirements' section.
- 5. Connect neutral and earth conductors to the neutral and earth connections respectively.
- For all connections ensure that conductors are secure and appropriately terminated. 6.
- 7 Tighten the cable gland to secure against tension on the cable.

#### NOTE:

• This appliance must be earthed.

#### Fixed wiring installations must incorporate an all-pole disconnection switch.

- Correctly locate the appliance into its final operating position and using a spirit level, adjust the legs 8. so that the appliance is level and at the correct height.
- 9 Connect the power supply to the appliance.
- Check that the electrical supply is as shown in "Specifications" section. 10.

#### Commissioning

- 1. Before leaving the new installation;
  - a. Check the following functions in accordance with the operating instructions specified in the Operation' section of this manual.
    - Check that all the connections are correct.
    - Check the current draw and voltage is within the electrical specification required. .
    - Check that all cover panels have been re-fitted.
    - Check that the appliance functions in accordance with the operating instructions.
    - Ensure that this instruction manual is left with the appliance.
    - Ensure that all the relevant details and contacts have been added to the front of this manual.
  - b. Ensure that the operator has been instructed in the areas of correct operation and shutdown procedure for the appliance.
- 2. This manual must be kept by the owner for future reference and as a record of **Date of Purchase**, Date of Installation and Serial Number of Unit recorded and kept with this manual. (These details can be found on the Rating Plate. Refer to the 'Dimensions' section for rating plate location).

#### **Operation Guide**

CAUTION:

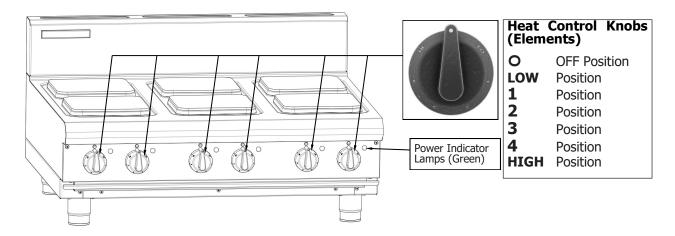
- This appliance is for professional use and is only to be used by qualified people.
- Only authorised service persons should be used to carry out installation or servicing operations.
- 1. Blue Seal appliances have been designed to provide simplicity of operation.

A commercial heavy duty, electric Cooktop is available in 3 different sizes, 300mm, 600mm and 900mm wide and in 4 model types:

Bench Model. With Cabinet Base. With Leg Stand. With Refrigerated Base.

2. Despite the Cooktop's commercial heavy duty robust construction, incorrect operation practices can reduce the life of the appliance and produce a poor quality product. To use this appliance correctly please read the following carefully.

#### (Model E516S-B Shown)



#### **Cast Iron Hotplate Elements**

The controls for the cast iron hotplate elements may be set at any position between high and low to provide the desired level of heating. An individual green neon for each element, will glow when the element is powered on, i.e. heat control is set to an "ON" position.

Start cooking at the highest setting, and change to a lower setting when the desired temperature is reached.

For maximum speed and economy, it is most important that cooking pots/pans should cover the hotplate completely, and have perfectly flat bases. Any part of the hotplate which is not making effective contact with the base of the pot/pan decreases the life and efficiency of the hotplate.

Pots/pans which are significantly larger than the hotplate may also reduce hotplate life and efficiency.

NOTE:

- If for any reason it is not possible to get the unit to operate correctly, turn off the electrical power supply and contact a qualified service person. The supplier of this unit will be able to recommend a suitable person.
- Make sure that the electrical supply is turned "Off" before any service or maintenance work is carried out.

For the Refrigeration Cabinet Description of Controls, refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

#### General



#### Always turn off the electrical power supply at the mains supply before cleaning. This appliance is not water proof.

Do not use water jet spray or steam cleaner to clean interior or exterior of this appliance.

Clean the Cooktop regularly. A clean appliance looks better, will last longer and will perform better. Carbonised grease on the surface will hinder the transfer of heat from the cooking surface to the food. This will result in loss of cooking efficiency.

# DO NOT use water on the appliance while this item is still hot as warping and cracking may occur. Allow the appliance to cool down before cleaning.

NOTE:

- DO NOT use abrasive detergents, strong solvents or caustic detergents as they could corrode or damage the appliance.
- In order to prevent the forming of rust on the hotplate elements (Cast Iron), ensure that any detergent or cleaning material has been completely removed after each cleaning. The appliance should be switched on briefly to ensure the elements become dry. Oil or grease should be wiped over the hotplate surfaces in order to form a thin protective greasy film.

To keep your Cooktop clean and operating at peak efficiency, follow the below procedures:

#### After Each Use

1. Clean the Cooktop with a soft scrubbing brush to remove any food debris.

#### **Daily Cleaning**

- 1. Thoroughly clean the splash back and exterior surfaces of the appliance with hot water, a detergent solution and a soft scrubbing brush.
- 2. Clean the Control Panel with a damp cloth lightly moistened with a solution of mild detergent and water. Dry the control panel thoroughly with a dry cloth and polish with a soft dry cloth.
- 3. Brush the hotplate surfaces with a soft bristled brush. Any carbon deposits should be removed using a scraper tool, followed by wiping with a cloth moistened with a solution of mild detergent and hot water to prevent accumulation of food deposits.
- 4. Dry the appliance thoroughly with a dry cloth and polish with a soft dry cloth.

#### Weekly Cleaning

NOTE:

- If the Cooktop usage is very high, we recommend that the weekly cleaning procedure is carried out on a more frequent basis.
- Ensure that protective gloves are worn during the cleaning process.
- DO NOT use harsh abrasive detergents, strong solvents or caustic detergents as they will damage the Cooktop and elements.
- DO NOT use water on the hotplates while they are still hot as warping may occur. Allow these castings to cool for cleaning.
- NOTE: In order to prevent the forming of rust on the hotplates, ensure that all detergent and cleaning material has been entirely removed after each cleaning process. The appliance should be switched on briefly to ensure the hotplates become dry. Oil or grease should be wiped over the hotplate surfaces in order to form a thin protective greasy film.

#### **Cooktop Cooking Area**

- a. Clean the Cooktop area with a soft cloth and a mild detergent and hot water solution.
- b. Baked on deposits or discolouration may require a good quality stainless steel cleaner or stainless steel wool. Always apply cleaner when the appliance is cold and rub in the direction of the grain.

#### **Stainless Steel Surfaces**

- a. Clean the exterior surfaces of the Cooktop with hot water, a mild detergent solution and a soft scrubbing brush. Note that the control knobs are a push fit onto the control spindles and can be removed to allow cleaning of the front control panel.
- b. Baked on deposits or discolouration may require a good quality stainless steel cleaner or stainless steel wool. Always apply cleaner when the appliance is cold and rub in the direction of the grain.
- c. Dry all components thoroughly with a dry cloth and polish with a soft dry cloth.

#### **Periodic Maintenance**

To achieve the best results cleaning must be regular and thorough and all controls and mechanical parts checked and adjusted periodically by a competent serviceman. If any small faults occur, have them attended to promptly. Don't wait until they cause a complete breakdown. It is recommended that the appliance is serviced every 6 months.

For the Refrigeration Cabinet Installation refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

This section provides an easy reference guide to the more common problems that may occur during the operation of your appliance. The fault finding guide in this section is intended to help you correct, or at least accurately diagnose problems with your equipment.

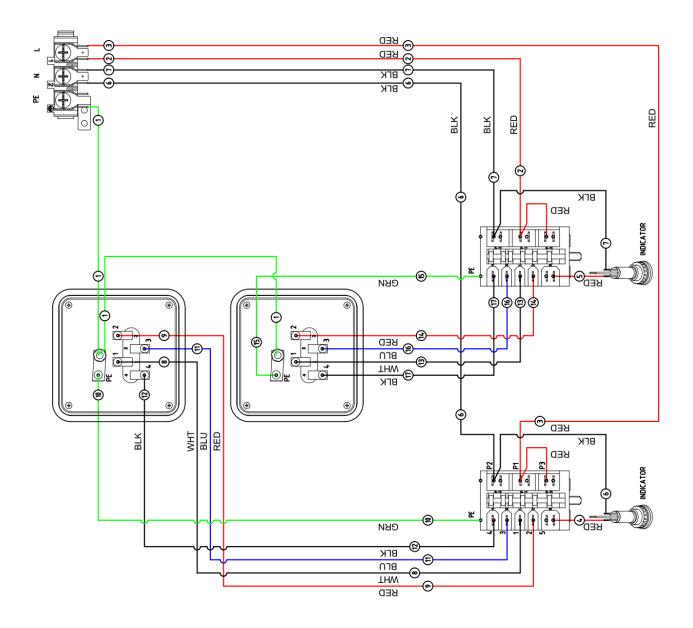
Although this section covers the most common problems reported, you may encounter a problem not covered in this section. In such instances, please contact your local authorised service agent who will make every effort to help you identify and resolve the problem. Please note that the service agent will require the following information:

• The Model Trade Name and the Serial Number of the Appliance. (Both can be found on the Technical Data Plate located on the appliance)

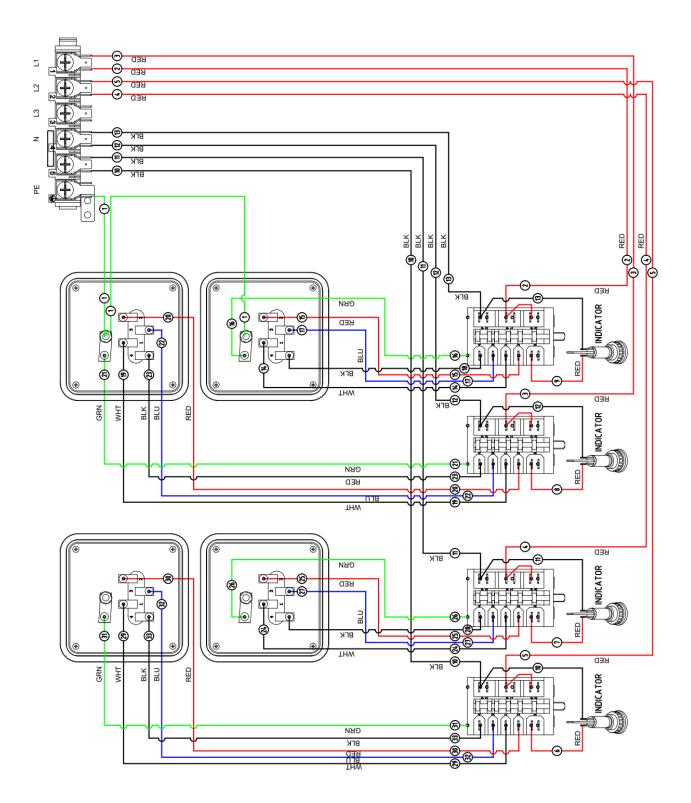
Fault	Possible Cause	Remedy
Element does not work when turned 'ON'.	Check for an electrical short by checking that there is NO continuity between any "phase in" line and the metal appliance body itself. Check for the item failing (element, control etc.) using a multimeter.	Call the service provider.
Complete power failure of the appliance	Check fuse connection at the wall. Ensure that the fuse size is correct to carry the load. Check for an electrical short to the appliance.	Replace the blown fuse. Call the service provider.

For the Refrigeration Cabinet Fault Finding, refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.

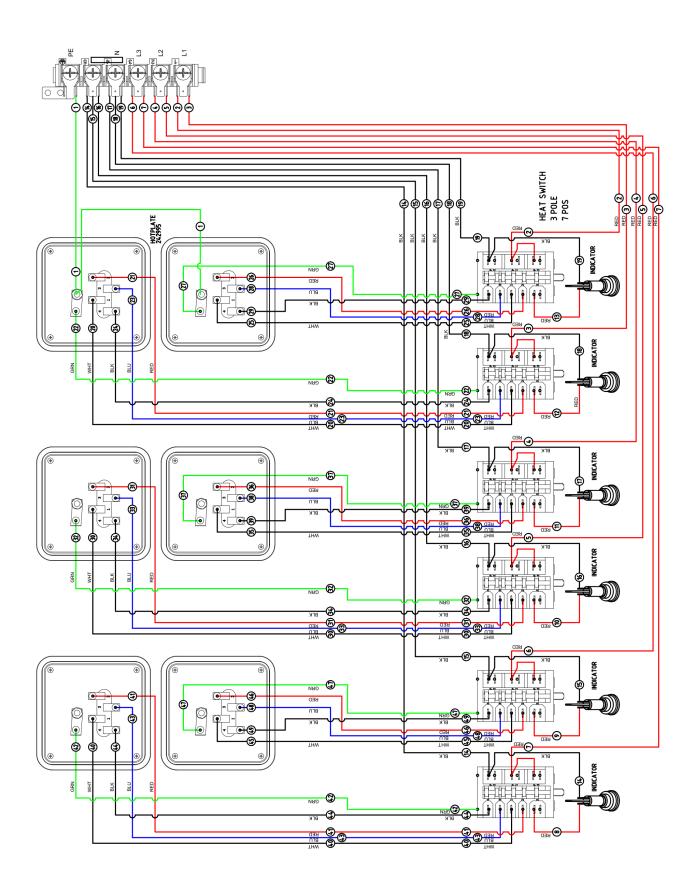
E512S



#### E514S



E516S



# **Replacement Parts List**

# IMPORTANT:

Only genuine authorized replacement parts should be used for the servicing and repair of this appliance. The instructions supplied with the parts should be followed when replacing components.

For further information and servicing instructions, contact your nearest authorized service branch (contact details are as shown on the reverse of the front cover of this manual).

When ordering replacement parts, please quote the part number and the description as listed below. If the part required is not listed below, request the part by description and quote model number and serial number which is shown on the rating plate.

#### Cooktop

247734 242995K	Element Wire Loom Hotplate Element 220x220RI 2.6kW 240V Kit
238768	Indicator Green (Clear Lens)
248170	Control Knob HI/LO
247717	Switch 6 Heat 7 Position

#### General

227855	Adjustable Legs	(80mm - Bench Models)
227851	Adjustable Legs	(150mm - Ext'd Thread - Leg Stand)
240534	Adjustable Legs	(150mm - c/w Plate - All Other Models (Front))
227850	Adjustable Legs	(150mm - Flush Stud - All Other Models (Rear))
229674	Rear Roller Assy	(Excluding Bench Models)

#### Accessories

For the Refrigeration Cabinet Replacement Parts List, refer to the Refrigeration Cabinet Installation and Operation Manual supplied with the appliance.