

# ROBAND®

MANUFACTURED BY  
**ROBAND AUSTRALIA PTY LTD**



## OPERATING INSTRUCTIONS

### COFFEE WARMER UNIT

**Model: KH2**

Version 3 units

#### Special Features:

Easy to use operation  
Dual & simultaneous heating of coffee jugs  
Space efficient design



Roband Australia is a wholly Australian owned company, which has been manufacturing quality commercial catering equipment for the food service industry for more than 45 years. Roband products are engineered and manufactured to the highest standards to provide functionality, reliability and durability, and our quality products are exported world-wide.

Included in the comprehensive Roband® range are Toasters, Fryers, Milkshake Mixers, Rotisseries, Food Display Cabinets and much more.

Roband Australia also acts as the Australian agents for Vitamix® Blenders, NOAW® Meat Slicers and RYNO Stainless Benching.

In addition to a vast range of machines, Roband Australia has its own line of commercial cookware and cutlery under the Robinox® brand name.

For a complete set of brochures please contact your nearest authorised dealer or contact Roband directly at our head office.

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# INTRODUCTION

Congratulations on your purchase of this quality Roband® product. With proper care and management your new purchase will give you years of trouble free service.

By reading these instructions carefully you can ensure that this machine is used and maintained properly, helping your new investment to perform well for you now, and to continue performing in the many years to come.

## GENERAL PRECAUTIONS

This machine must only be operated by qualified person(s) who are fully versed in the operating and safety instructions described in this manual. Servicepersons should be instructed to familiarise themselves with any and all safety instructions described in this manual prior to commencement of any maintenance or service.

In the case of new personnel, training is to be provided in advance. These machines should not be operated by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety.



These machines are heating units, and as with any commercial heating unit the surfaces will get hot. Always be careful when near an operating coffee warmer, and ensure that any risk to unwary customers or staff is minimised with additional signage if necessary. Due to the obvious heat hazard Roband recommends that these units be kept out of reach of children.

The performance of this unit cannot be guaranteed for operational use outside its design parameters.



The machine should be disconnected from all power and allowed to cool before cleaning.

### **Roband will accept no liability if;**

- ◆ Non-authorized personnel have tampered with the machine.
- ◆ The instructions in this manual have not been followed correctly.
- ◆ Non-original spare parts are used.
- ◆ The machine is not cleaned correctly, with the right product.
- ◆ There is any damage to the unit.

## **PACKAGING**

All care is taken when packing and Roband ensures that every unit is functional and undamaged at the time of packaging.

The Package of this Coffee Warmer Unit should include:

- 1) One Coffee Warmer Unit (appropriate model)
- 2) This Manual
- 3) Packaging Materials

Any damage to the machine as a result of freight must be reported to the Freight Company and to the agent responsible for the dispatch of said unit within three (3) days of receipt. No claims will be accepted or entertained after this period.



## **COMPLIANCE**

### **C-Tick:**

Roband® products have been designed and manufactured to comply with any and all specifications set out by the Australian Communications Authority (ACA) in regards to Electromagnetic Compatibility. As testament to such compliance these units bear the C-Tick symbol.

For further information contact the Australian Communications Authority, PO Box 13112, Law Courts, Melbourne VIC 8010.

# **INSTALLATION**

Remove all the packaging materials and tape, as well as any protective plastic from the machine. Clean off any glue residue left over from the protective plastic.

Place the Coffee Warmer Unit on a firm, level surface in the required position. Before connecting the unit to the power supply ensure that all the controls are in the "OFF" position.

National Standards exist outlining the positioning, spacing and ventilation requirements when installing new appliances. These Standards should be consulted and new equipment should be installed accordingly. In any situation where specifications allow a distance of less than 100mm we would still recommend that a well-ventilated air gap of not less than 100mm be maintained. If the machine is near particularly heat-sensitive materials common sense should be employed in determining sufficient distancing.

Plug the boiling hot plate into a standard, single phase, 10Amp power point.

# OPERATION

The two green rocker switches on the left and right side of the front activate the coffee warmer unit. Each switch controls the heating of one of the warming plates. When the on position is selected the switch will glow and the element will heat up. Turn one or both switches on as required. Place full coffee pots on the warming plates to keep coffee at a constant temperature.

These units are designed to maintain the coffee temperature at approximately 85 – 90 °C.

This machine does not rely on a temperature controller, which means the fluid temperature will be dependent on the volume in the jug. It is important to keep an eye on the liquid level of the tea/coffee. As the coffee fluid level falls to a ¼ full the pot should be refilled.

If a pot is a ¼ full and is left on the unit the coffee will get too hot and may get hot enough to boil. This will ruin the coffee. If your coffee usage is not high, a full pot should not be used. A full pot that is not being drawn off will slowly lose heat and will only maintain the temperature at approximately 50°C.

## A Quick Note on Serving Coffee

The best quality coffee is served within the first 15 minutes of being placed on the coffee warmer. Coffee that is kept for over half an hour will stew, becoming over-cooked and bitter.

Based on cost, if 4 or 5 cups are served from one jug the rest could be safely thrown away knowing that you have well and truly covered the costs of making the jug of coffee.

Example: If a jug holds 20 cups of coffee and each cup costs about 20 cents to make, and 4 cups are sold at \$3.00 per cup, then,

Profit = Revenue - Costs

$$= 4 \text{ cups} \times \$3.00 - 20 \text{ cups} \times \$0.20$$

$$= \$12.00 - \$4.00$$

$$= \$8.00 \text{ profit per jug even if 16 cups are thrown away.}$$

Based on the above example a minimum of only 2 cups of coffee need to be served from a jug to cover the costs of making a jug of coffee.

(This example is for illustrative purposes only. Costs will vary depending upon the individual costs of a business).

# ⚡ SAFETY ⚡

## GENERAL SAFETY

This machine contains no user-serviceable parts. Roband Australia, one of our agents, or a similarly qualified person(s) should carry out any and all repairs. Any repair person(s) should be instructed to read the Safety warnings within this manual before commencing work on these units.



Steel cutting processes such as those used in the construction of this machine result in sharp edges. Whilst any such edges are removed to the best of our ability it is always wise to take care when contacting any edge.

Particular care should be taken to avoid contact with any steel edge, and warnings should be given in regards to the danger of such contact to any repair or maintenance person(s) prior to commencement of any servicing.

Do not remove any cover panels that may be on the machine.

This unit can get **very** hot. Ensure everyone is aware that the machine is operating and take care to avoid contact with hot surfaces.



Always ensure the power cable is not in contact with hot parts of the machine when in use. Ensure that any damaged power cord is replaced before further use.

Keep this unit out of reach of children.

***Electricity is dangerous, and should only be handled by qualified professionals.  
It's your life – Don't risk it.***

## CLEANING, CARE & MAINTENANCE

Attention to regular care and maintenance will ensure long and trouble free operation of your coffee warmer. Although scheduled servicing is not required we do recommend you adopt a program of regular maintenance to ensure that the hot plate is clean and functional and to avoid inadvertently damaging the unit.

Daily cleaning should be considered mandatory for all cooking equipment. In order to ensure the cooking plates are cleaned properly and to avoid damage to the unit, the instructions below should be followed.

- ◆ Clean the appliance with a damp cloth.
- ◆ Wipe up any spilled beverage as soon as possible.
- ◆ The Plate should be cleaned at the end of each day using hot soapy water, with the machine **turned OFF** but while the plates are still warm.
- ◆ **NEVER** put cold water on the warm or hot plates. This may cause the plate to buckle due to the sudden change in temperature.
- ◆ **Wipe** down the remainder of the machine with a cloth or sponge that is only **DAMP** with soapy hot water, taking care to avoid water entering any part of the unit.
- ◆ **Do not** clean these units with the use of a water jet.



**CAUTION:** Although every care is taken during manufacture to remove all sharp edges, care should be taken when cleaning to avoid injury.

## **TROUBLESHOOTING**

If the coffee warmer does not heat up check the following points before calling for service.

- ✓ The unit is plugged in correctly and the power is switched on.
- ✓ The power point is not faulty.
- ✓ The rocker switch is not loose or broken, rendering the switch inoperable. Check Appendix A on page 14 of this manual on RCD'S

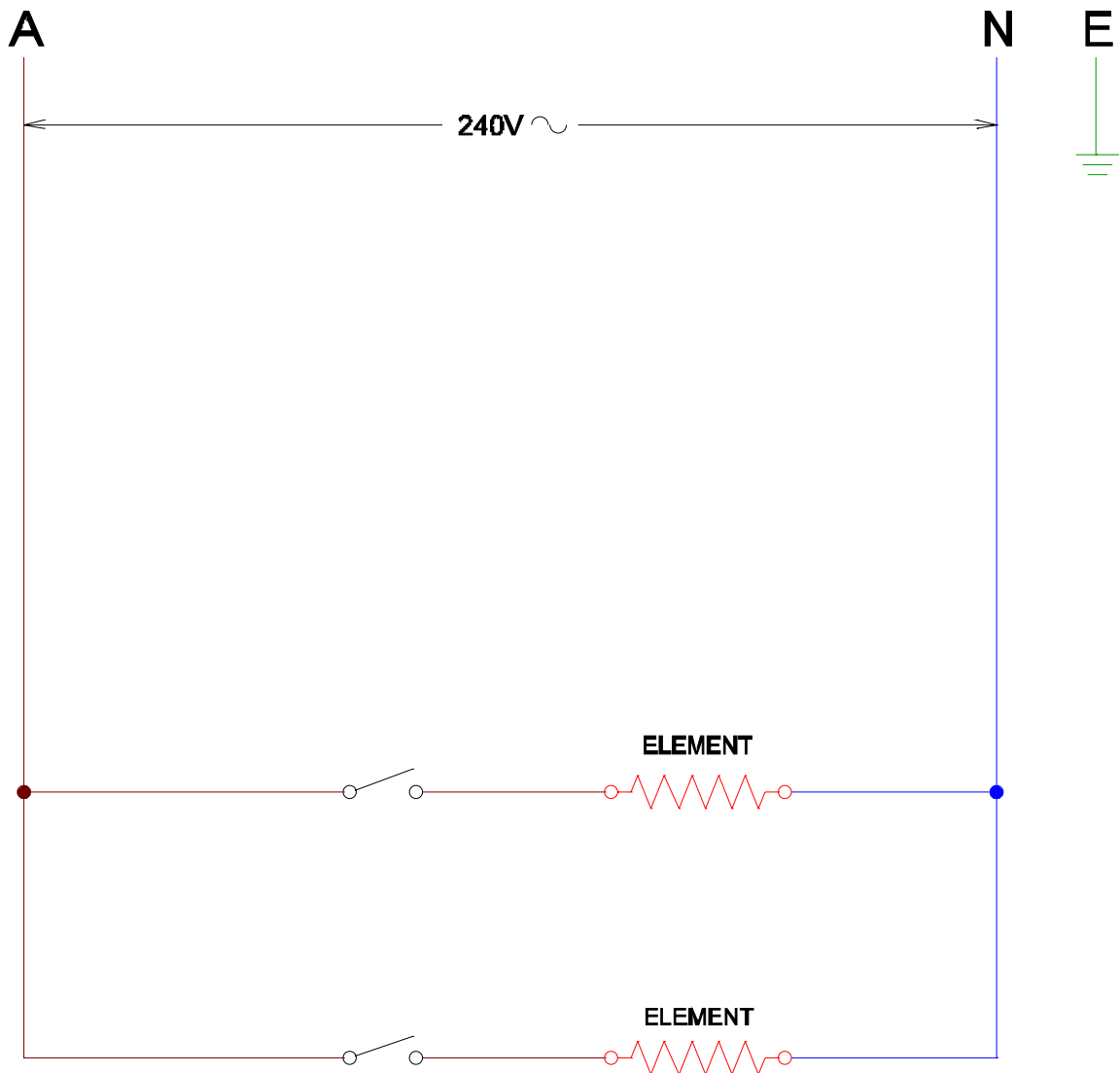
## SPECIFICATIONS

<b>Model</b>	<b>Power Source</b>	<b>Power Rating</b>	<b>Width mm</b>	<b>Depth mm</b>	<b>Height mm</b>	<b>Weight Kg</b>
<b>KH2</b>	220 - 240Volts AC	230 - 250 Watts	376	205	70	2.5

Constant research and development may necessitate specification changes at any time.

# CIRCUIT DIAGRAM\*

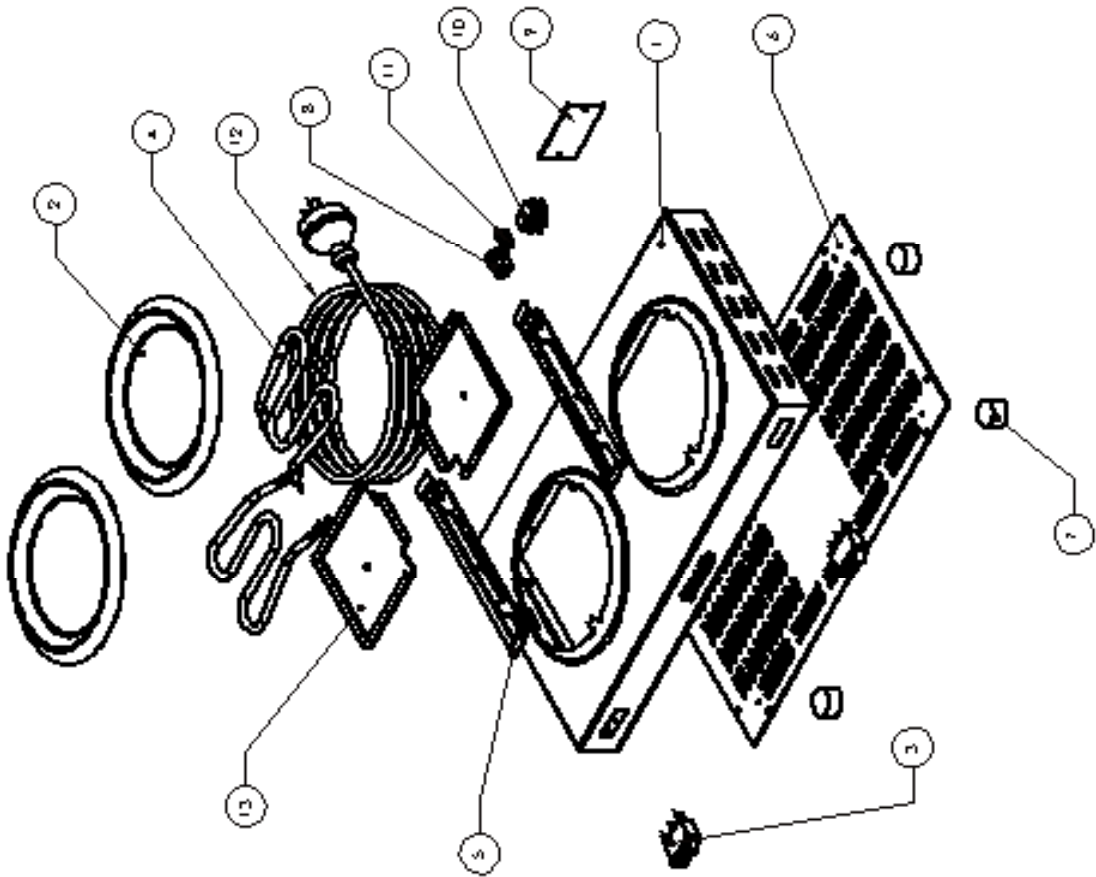
Model: KH2



**\* This circuit diagram has been provided for reference and to assist qualified service and repair agents only. Under no circumstances should person's not suitably qualified attempt repairs to any electrical equipment.**

# EXPLODED DIAGRAM

Item No.	Qty.	Part No.
1	1	SSD102 - 1/2 Body
2	2	MSD004 - 1/2 Jug, Flare
3	2	EC0177 - Racter-Green Indicating
4	2	WCD111 - 1/2 Steel Element
5	2	SSD106 - Element Bracket
6	1	SSD103 - 1/2 Barrow
7	4	PC0018 - 1/4" - Medium Jel
8	1	PC0060 - Card Clamp IDA
9	1	MS0001 - Roring, Flare Assembly - Plain
10	1	EC0030 - Terminal Block Burette
11	1	MS0023 - Earh tag Assembly
12	1	EC0029 - Plug & Cap - Black Biosmer IDA
13	2	SS1111 - Element Cover



# APPENDIX A

## Residual Current Devices (RCD's)

Also known as Earth Leakage Protection systems an RCD is a protective device that automatically disconnects the active conductors of a circuit when an earth leakage current reaches a predetermined value.

Although RCD's are mandatory in domestic installations, and in the final sub-circuits of residential-type areas, the Australian Standards quote that the requirement of an RCD does "not apply to a socket-outlet.....for the connection of fixed electric cooking appliances, such as ranges, ovens or hotplates"

In installations that are neither Domestic nor Residential-type, AS/NZS 3000 2.5.3.3 states that RCD's are needed only in situations where equipment may represent an increased risk of electric shock to the user, and there are many special comments related to the use of heating elements.

AS/NZS3000 2.5.2 gives the following warnings that should have been taken into consideration when an RCD circuit was installed.

*To avoid unwanted tripping due to leakage currents and transient disturbances, care should be taken to ensure that the sum of the leakage currents of electrical equipment on the load side of an RCD is less than 1/3 of its rated residual current.*

*To Avoid excessive leakage current causing unwanted tripping where socket-outlets are protected by one RCD having a rated residual current not greater than 30mA, consideration should be given to the number of socket-outlets protected and the nature of electrical equipment likely to be connected to the socket-outlets.*

Tubular elements (such as those used in this unit) reaching temperatures greater than 110°C are subject to moisture absorption and therefore earth leakage current generation. Should the installation and use of this unit trip an RCD the unit will need to be run on a circuit without an RCD (as mentioned above) for approximately 30-60 minutes, after which time the elements should have dried out and the machine should function normally. If you are unable to locate a circuit without an RCD please contact your supplier, or if you prefer you can contact Roband and send the unit to one of our offices where we can run the machine on a suitable circuit free of charge (a return freight charge may apply).



## WARRANTY

Every care is taken to ensure that no defective equipment leaves our factory and all goods manufactured by us are guaranteed against faulty workmanship and materials for a period of 12 months from the date of purchase. Glass and lamps are **not** included in this warranty. Generally, all goods claimed under this warranty must be returned to the factory or an authorised service agent, freight prepaid, for inspection. Any part deemed to be defective will be replaced, however, no claims will be entertained for parts damaged in transport, misused or modified in any way without our approval. For machines that are not considered to be portable (e.g. food bars, rotisseries, large hotplates and some bain maries), on site warranty service will be provided in capital city metropolitan areas only. In all other locations, the customer is responsible for all travelling time/service call costs and payment for this will be required prior to the commencement of the repair. The labour costs to actually repair the fault will be met by this company.

This company reserves the right to reject a claim for warranty if it is not completely satisfied with the circumstances under which it occurred and any costs incurred for false claims or faults due to incorrect usage etc. are the responsibility of the claimant. Under no circumstances shall Roband Australia Pty Ltd or any subsidiary company or Agent be liable for loss of profit or damage to other equipment and property.

Generally, authorised service agents are located in all areas which have authorised distribution dealers. For the name of your nearest Australian authorised service agent please contact:

ROBAND AUSTRALIA PTY LTD  
Warranty Number: 1800 268 848  
Phone: (02) 9971 1788 Fax: (02) 9971 1336

All other countries please contact your selling agent.

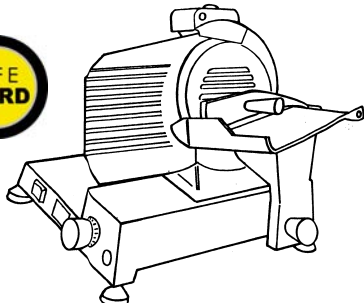
Please complete the following details and keep this card in a safe place.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
MODEL No.: \_\_\_\_\_ SERIAL No.: \_\_\_\_\_ DATE PURCHASED: \_\_\_\_\_  
NAME OF DEALER: \_\_\_\_\_

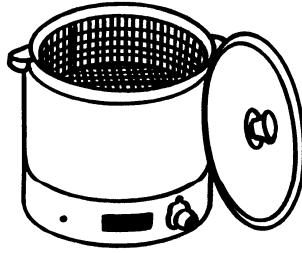
**PLEASE RETAIN THIS SECTION FOR YOUR RECORDS**

**DO NOT POST**  
**ROBAND AUSTRALIA PTY LTD**

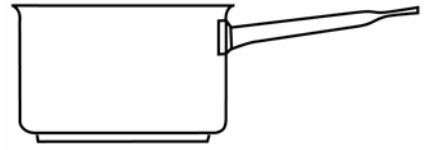
ALSO AVAILABLE FROM YOUR ROBAND DISTRIBUTOR



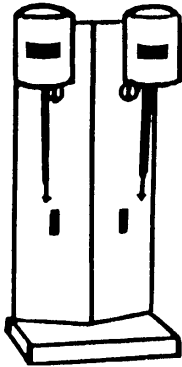
NOAW SLICERS



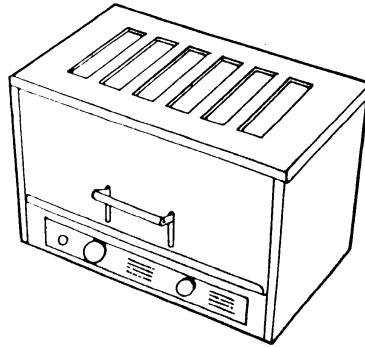
STEAMER



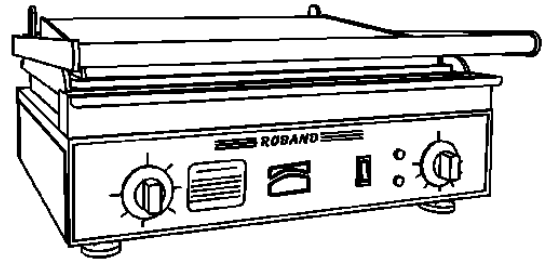
ROBINOX  
KITCHEN & TABLEWARE



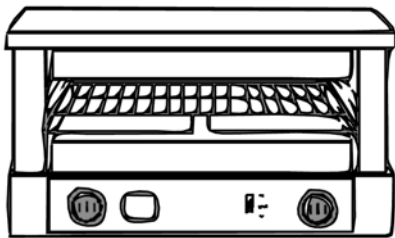
TWIN DRINK  
MIXER



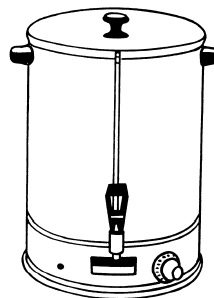
VERTICAL TOASTER



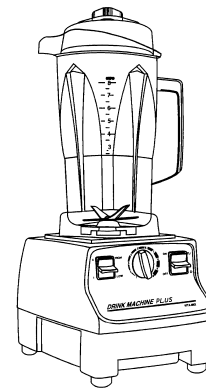
HIGH SPEED CONTACT GRILL



ECO-RAY AUTOMATIC  
TOASTERS AND GRILLERS



HOT WATER URNS



VITA-MIX BLENDERS

Worlds #1  
Blender

**Manufactured/Imported in Australia by  
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Authorised Distributor/Agent