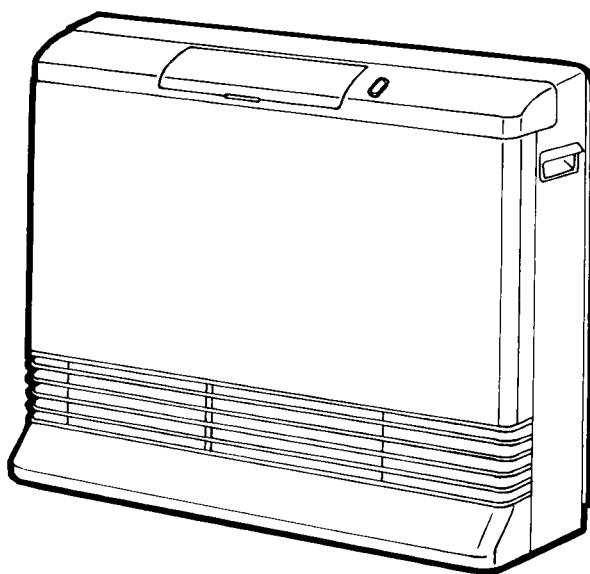


Rinnai

Convector 417

Unflued Room Heater

CUSTOMERS OPERATING INFORMATION AND INSTALLATION INSTRUCTIONS



This appliance shall be installed in accordance with:-

Manufacturer's Installation Instructions

Local Gas Fitting Regulations

Municipal Building Codes

A.G.A. Installation Code for Gas Burning Equipment

Any other relevant Statutory Regulation

**This appliance must be installed, serviced and removed by an
Authorised Person.**



**The Australian
Gas Association**

Proudly a member of the AGA
All of our gas products are AGA
tested and approved



**Quality
Endorsed
Company**

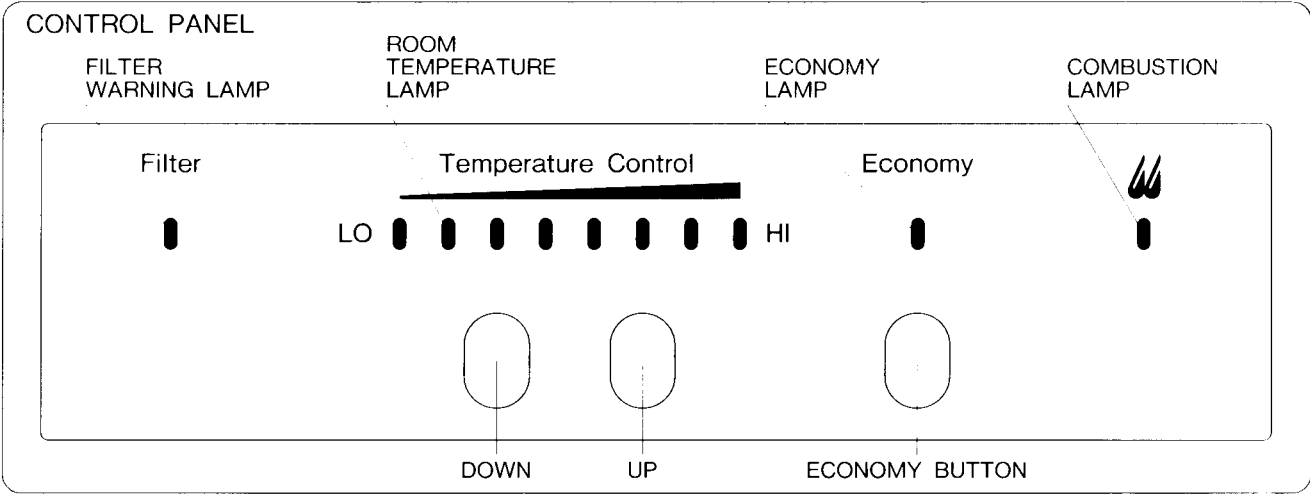
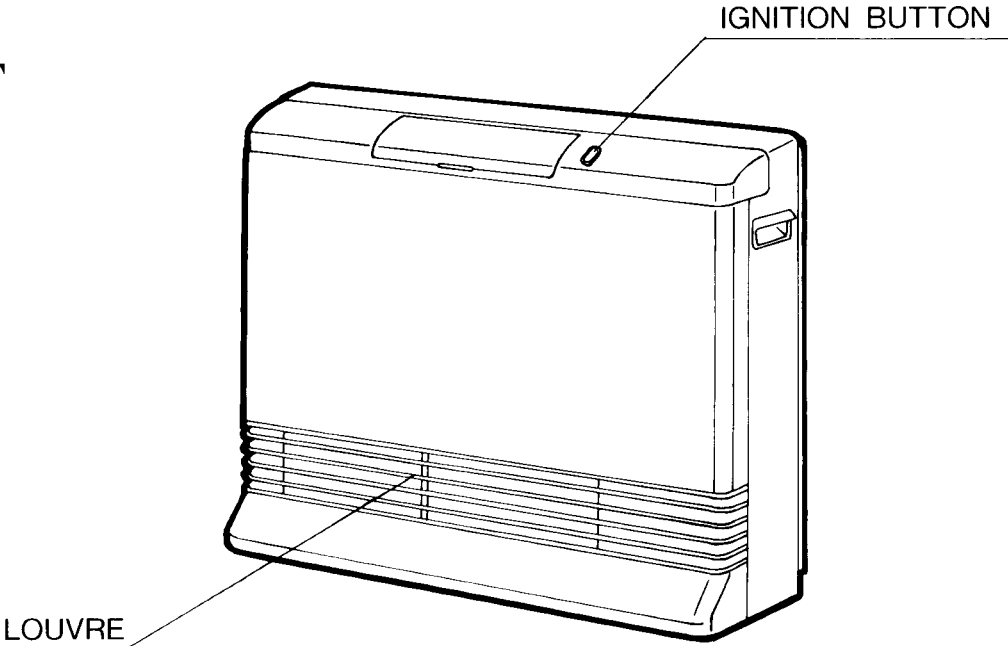
ISO 9002 Lic 4983
Standards Australia

Head Office Certified

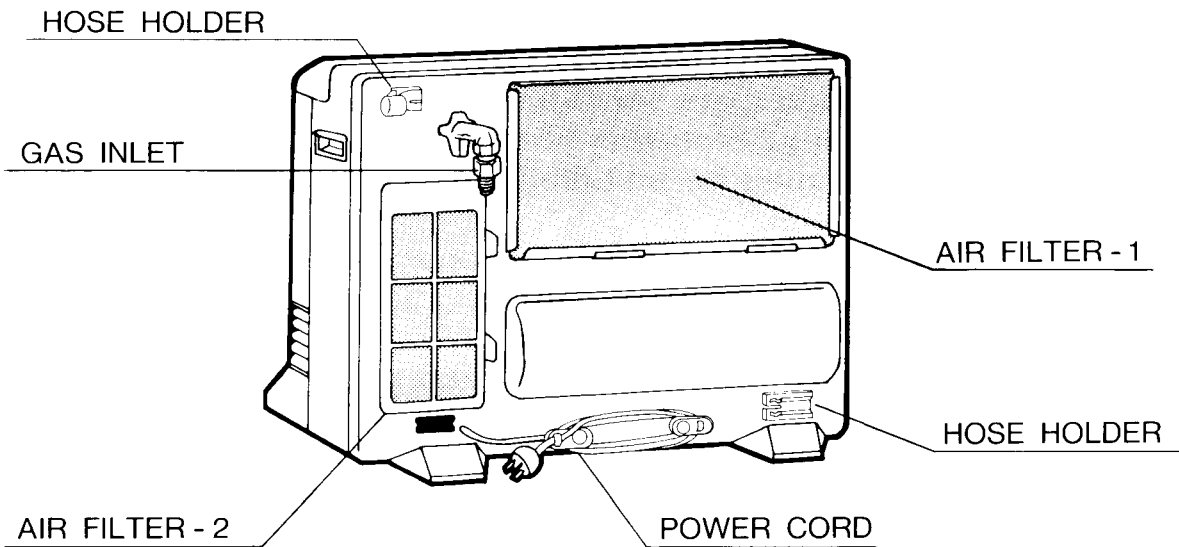
Distributed and Serviced in Australia under a Quality
System certified as complying with ISO 9002 by
Standards Australia Quality Assurance Services

PARTS DESCRIPTION

FRONT



REAR



IMPORTANT POINTS

Unpack heater:

Check for damage. If heater is damaged, contact your supplier for advice. Before installing the heater, check it is labelled for the correct gas type. Refer to local gas authority for confirmation of gas type if you are in doubt.

Included in Carton:

Customers Operating Information

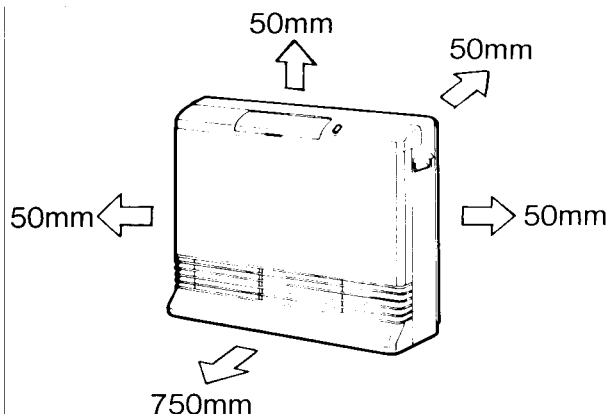
IMPORTANT

1. The appliance must be installed in accordance with the local gas authority regulations.
2. For information on gas rate, see data plate on the appliance.
3. When using this appliance, ensure that the room is correctly ventilated. Check AG 601 or the local gas authority for information on ventilation requirements.
4. **DO NOT install in bedroom or bathroom.**
5. This heater must not be installed where curtains or other combustible materials could come into contact with it. In some cases curtains may need restraining. It must also be 50mm clear of walls.
6. This appliance is not designed to be built in.
7. If you move house, check the gas type in the area where you are moving to. The local gas authority will be able to advise on local regulations.
8. This heater discharges a large volume of warm air at low level to provide even heat distribution. If the air in the room contains cooking vapour or cigarette smoke, and the heater is used on a carpet, the surface of the carpet may become discoloured.

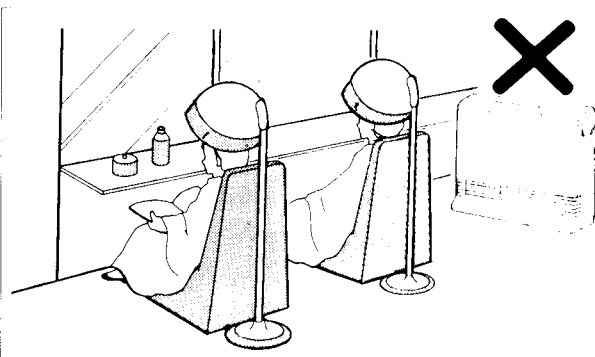
In addition, some nylon carpets contain dyes which may be affected by the warm air flow.

Some soft vinyl surfaces are also subject to distortion, or discolouration by warm air. To prevent discolouration of carpets etc., a mat should be placed under the appliance, extending about 750mm in front of it.

Diagram 1 shows clearances required around this heater whilst in operation.

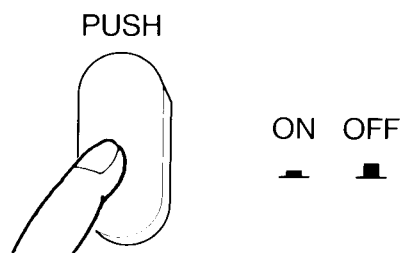


Do not install this heater in areas where spray painting or plating is taking place, or in places such as hair dressers, where there may be a lot of fluff and dust, and where aerosols are used.

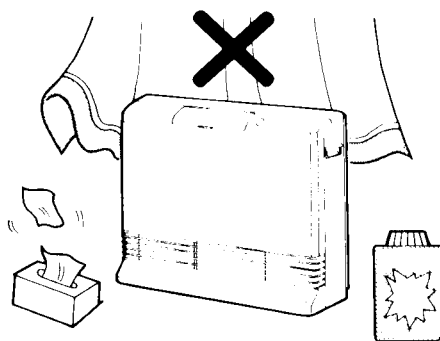


Turn off heater after use and disconnect gas hose.

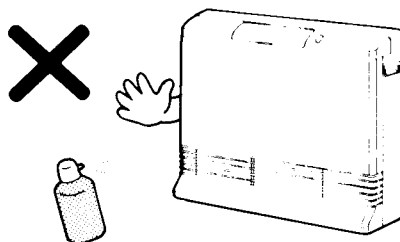
Ignition Button



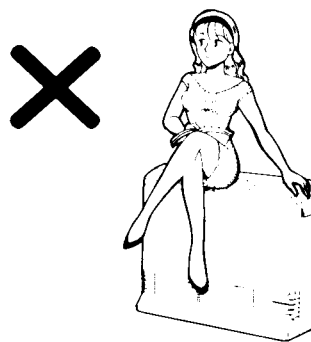
Keep away from flammable materials. Combustible materials must not be placed where the heater could ignite them.



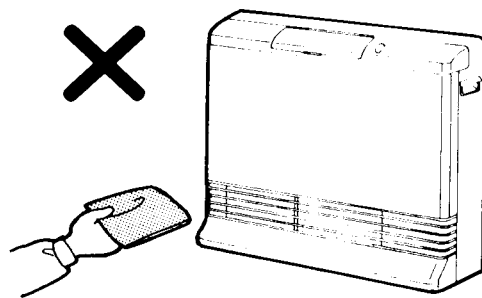
Do not spray aerosols near this heater while it is in use. Most aerosols contain butane gas, and can be a fire hazard if used near this heater when it is in use. USE of aerosols, paint, polishes etc whilst this heater is in use may cause unpleasant smells.



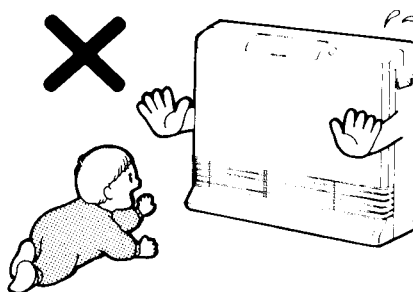
Do not sit on this heater.



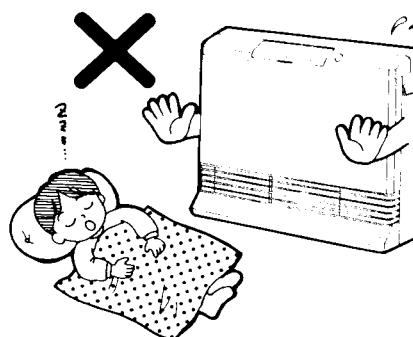
Do not allow children to post articles in the louvres.



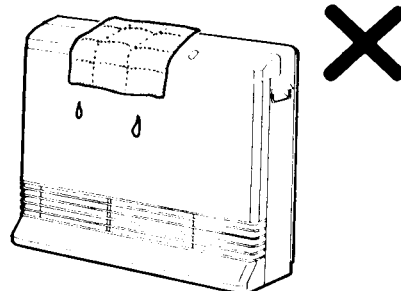
Supervise children playing near this heater.



Do not allow children or elderly persons to sleep in the warm air discharge from the heater.

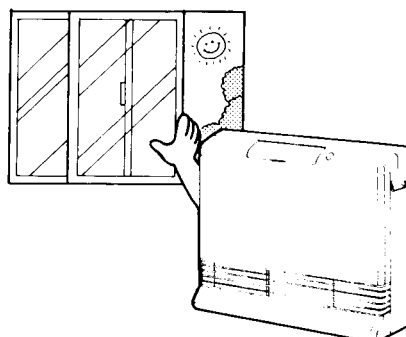


Do not place wet articles on this heater, the water may drip into the electrical parts.

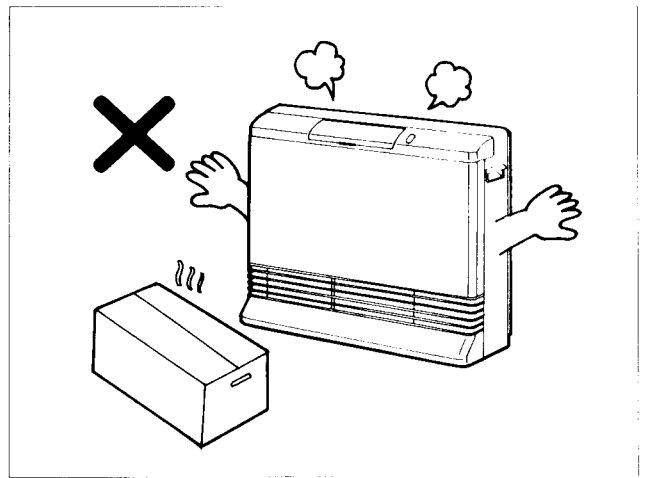


Ventilate the room when this heater is in use.

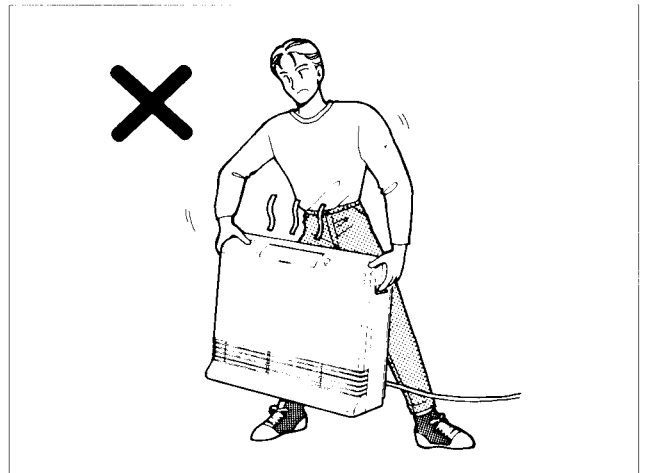
Correct, fixed ventilation is usually sufficient, consult your local gas authority for local regulations.



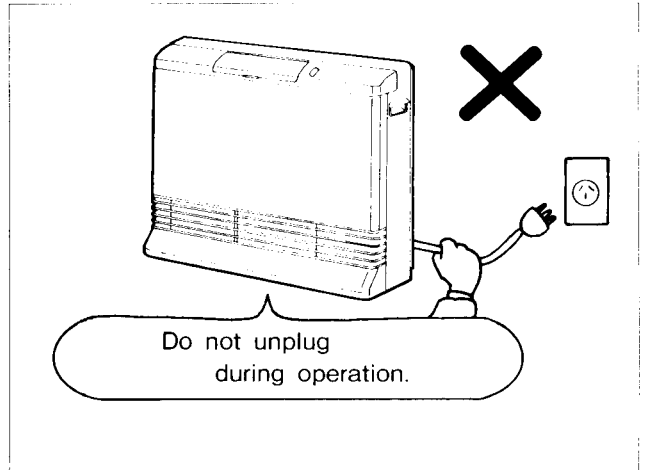
Do not place articles in front of the louvres.



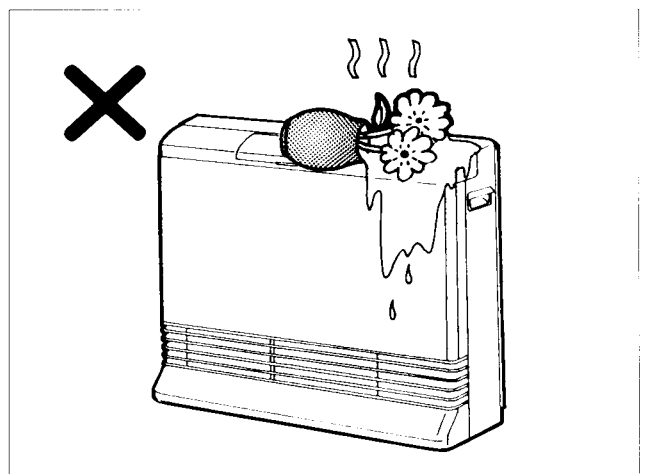
Do not move the heater whilst it is turned on.



Do not turn the heater off by unplugging it from the wall, or whilst the fan is cooling the heater off. This heater is not suitable for use with a plug in type timer.



Do not place containers of liquid on top of the heater. Water in the heater can cause extensive damage.



CUSTOMERS OPERATING INFORMATION

INSTALLATION

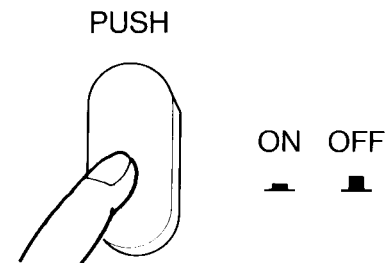
Check room size: This heater must not be installed in a room smaller than 42.5m³. Your Convector 417 is fitted with a flexible hose with bayonet type plug in fitting, simply plug into your bayonet floor fitting.

IGNITION

Plug the heater into both the gas, and the power point. **Room must be ventilated when using this heater.**

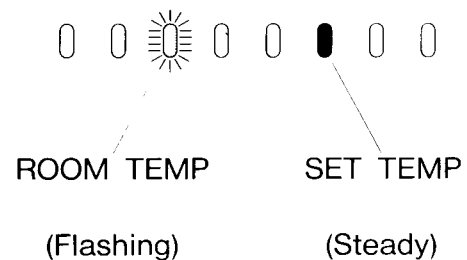
Depress the ignition button slowly and firmly.

Ignition Button



When you release the ignition button the 'Temperature Level' lamps will illuminate, the spark will ignite the main burner and the convection fan will begin to run. If the heater does not ignite within 15 seconds the spark will stop and the 'Temperature Level' lamps will flash. Turn off (See page 7) and repeat ignition operation.

Temperature Level



This heater has an automatic ignition system, when the main burner has lit, the combustion indicator will glow, and the spark will stop.

There may be a smell of burning dust the first time the heater is lit or when the heater has been out of operation for a long time, this is normal. You may need to repeat the ignition operation the first time the heater is plugged in, due to air in the hose.

Combustion Indicator

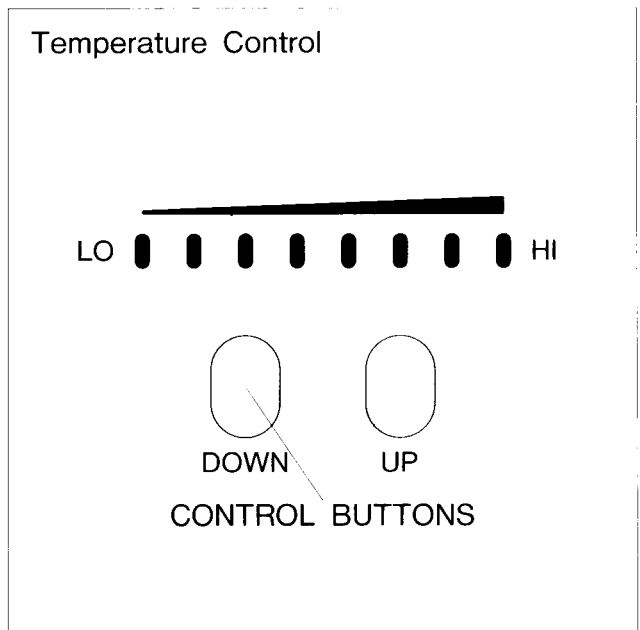


TEMPERATURE CONTROL

The thermostat automatically modulates the burner and the fan to maintain the room temperature which you have selected.

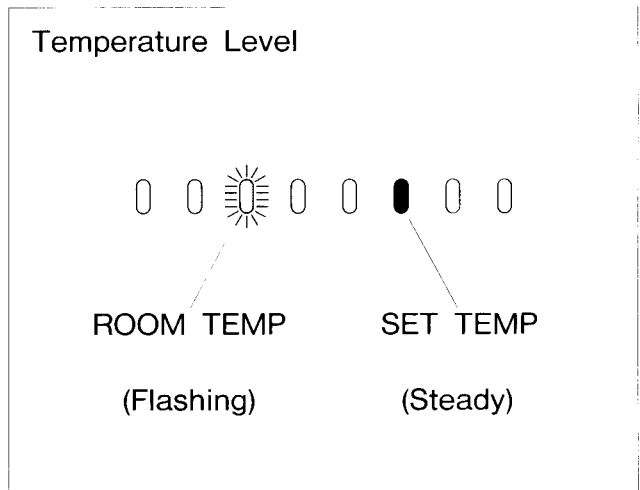
To change the room temperature, simply adjust the temperature control buttons until the desired setting is indicated. The heater will run on high for 1 to 2 minutes after ignition no matter where the temperature control is set.

The temperature range from LO to HI is about 12°C to 36°C. Temperature control may be affected by the positioning of the heater.



ROOM TEMPERATURE DISPLAY

Temperature is indicated by the L.E.D. display on the control panel. The room temperature is indicated by the flashing L.E.D., and the set temperature by the steady L.E.D. When the set temperature is reached, the flashing L.E.D. disappears and the temperature is indicated by the steady L.E.D. You will notice the fan speed changing as the heater modulates to match the room temperature.



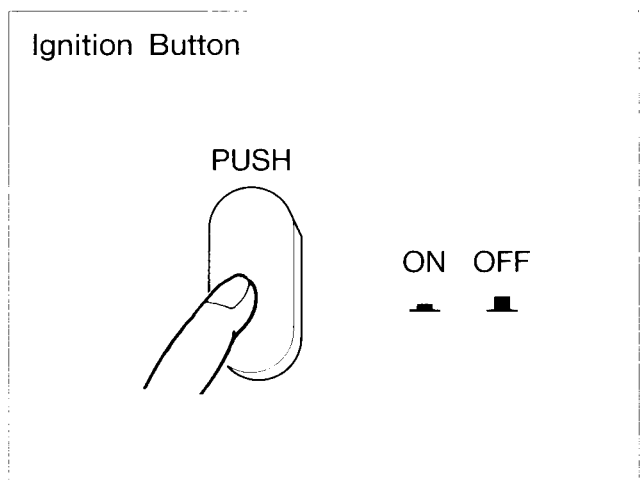
TO TURN UNIT OFF

Depress ignition button again.

The switch will return to the off position.

Do not turn off by unplugging at the power point. Convection fan continues to run until heater is cool.

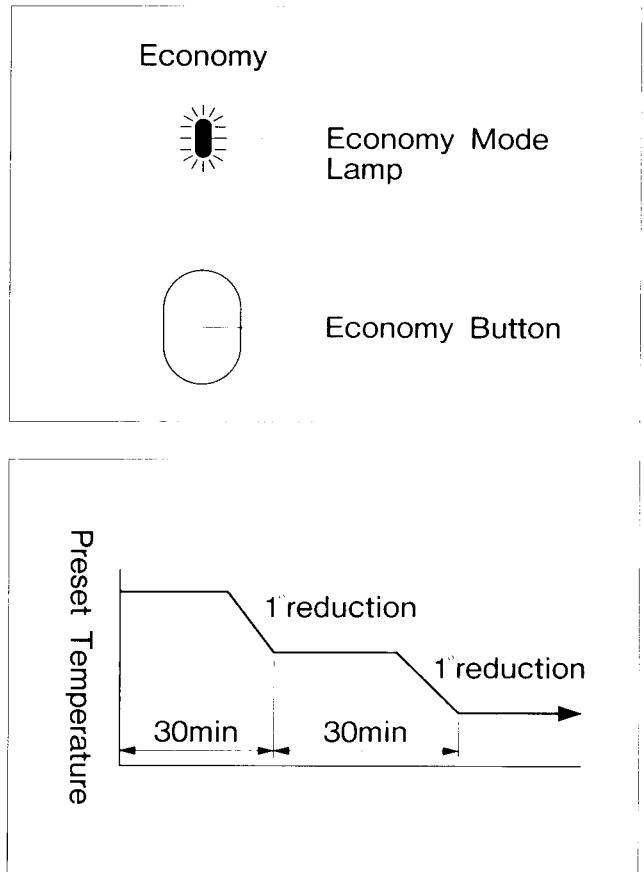
The convection fan may start again after a few minutes to remove any residual heat.



ECONOMY BUTTON

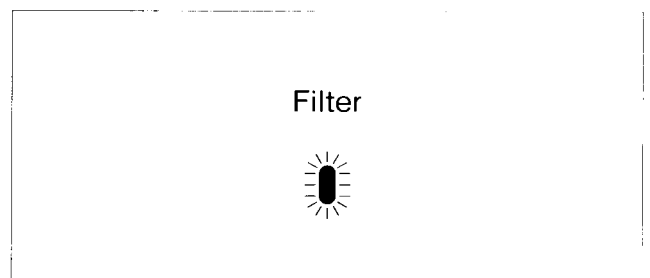
To select 'Economy Mode', push the 'Economy' button, the green lamp will glow.

30 min after the room temperature reaches the preset temperature (set with the thermostat), the 'Economy Mode', if set, reduces the temperature by 1°C, after another 30 min it reduces the temperature by a further 1°C, this is an energy saving feature. When the heater is running only on low, the 'Economy Mode' does not operate. It does not operate if the heater is under capacity for the room size.



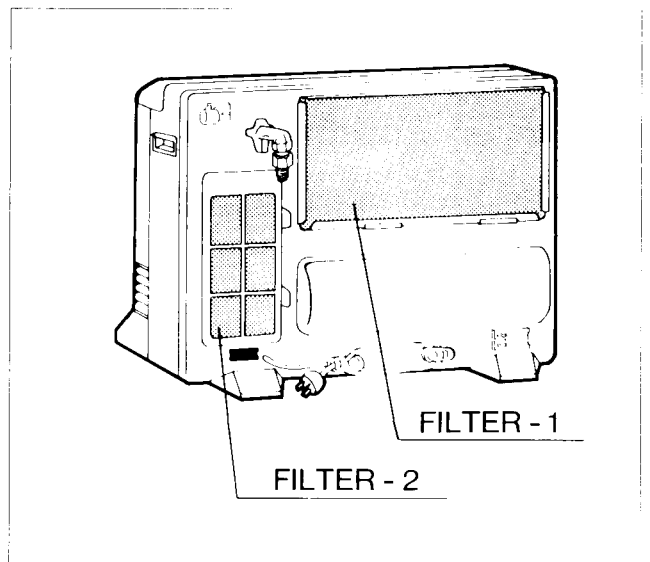
FILTER LAMP

If the filter lamp glows during operation check both air filters for dust. If there is dust present, clean filters. See section on care of heater. (page 10) Turn heater off before cleaning filters.



Check Both Filters

The filter lamp is not a safety cut off, so the heater will continue to run with the lamp on. Left in this condition the heater may overheat and shut off automatically.



SAFETY DEVICES

■ Over Heat Switch

When the heater gets too hot during operation (for example when the filters or air outlet louvres are blocked) this device turns the gas off automatically. Remove cause of overheat (clean filters) allow heater to cool, then re-ignite.

■ Fuse

The electrical circuits are protected by a fuse. When the fuse blows, the heater will not operate at all. The fuse must be replaced by an authorised person.

■ Flame Failure Device

This device automatically cuts off the gas supply to the heater in the event of a gas failure. To restore the gas supply to the heater, turn it off, then follow the ignition procedure.

■ Oxygen Depletion Safety Device

If the oxygen level in the room drops below a pre-set limit, this device cuts the gas supply to the heater. If the oxygen depletion device operates, turn the heater off, ventilate the room, then follow the ignition procedure to re-light. Heater will not re-light until room is fully ventilated.

■ Tilt Switch

If the heater is knocked over, the tilt switch will cut the gas supply. The fan keeps running. To restore the gas supply, stand the heater upright, turn it off then follow the ignition procedure. The tilt switch may also operate if the heater is jolted or picked up whilst in operation.

■ Power Failure

In the event of a power failure or power cut, the gas valves will automatically close. After the power is re-instated the appliance must be operated manually.

CARE OF HEATER

- Your Convector 417 needs very little maintenance, but the following information will help you to keep it looking good, and working efficiently.

Unplug before cleaning.

All parts of the heater can be cleaned using a soft, damp cloth.

Do not use solvents to clean any parts.

Do not spray aerosols in the vicinity of this heater whilst in operation.

Do not place articles on or against this heater.

Do not store flammable materials near this heater.

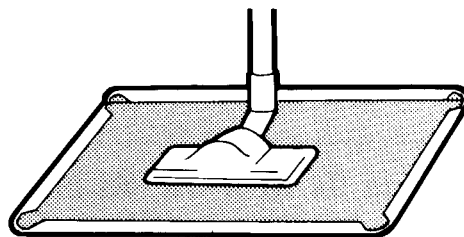
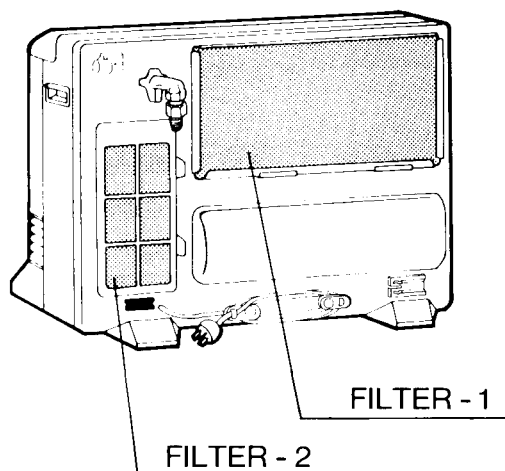
AIR FILTERS

- Clean both air filters at least once a week.

Do not wait for filter warning lamp to come on before cleaning filters.

Dusty filters reduce the air flow through the heater as well as reducing the heater's effectiveness.

Do not use the heater with the filter warning lamp on, this may cause it to overheat.



Clean both air filters with vacuum cleaner at least once a week. Small filter should be left in position for cleaning.

RINNAI GUARANTEE OF QUALITY

As a purchaser of a high quality Rinnai product, we provide you with the following guarantee on your new Convector RCE-417.

	FREE LABOUR PERIOD	FREE PARTS PERIOD
FAN	3 Years	3 Years
COMBUSTION CHAMBER	3 Years	10 Years Pro-rata*
All other parts	3 Years	3 Years

*** Combustion chamber full replacement parts cost in the first 3 years, reducing 15% per year thereafter.**

The benefits conferred by this guarantee are in addition to all other rights and remedies in respect of the product which you have under the Trade Practices Act and other State and Territory Laws.

The heater must be installed correctly by an authorised person, and the installation must conform to all local regulations.

The installation must also comply with the instructions supplied by Rinnai.

The heater must be serviced by authorised person.

No parts or functions should be modified or permanently removed from the heater.

Please Note: general cleaning, maintenance and wear and tear are not necessarily covered by the guarantee. Calls of this nature may be chargeable.

Your Rinnai Convector 417 has been approved by the Australian Gas Association. A.G.A. Approval Number : 4911

Please keep these instructions in a safe place for future reference.

Please record below:

Your Retailer:

NAME _____

ADDRESS _____

TELEPHONE _____

Date of Purchase:

FAULT FINDING CHART

Please note: General cleaning, maintenance and wear and tear are not necessarily covered under the guarantee. Calls of this nature may be chargeable.

PROBLEM <
--

SERVICE

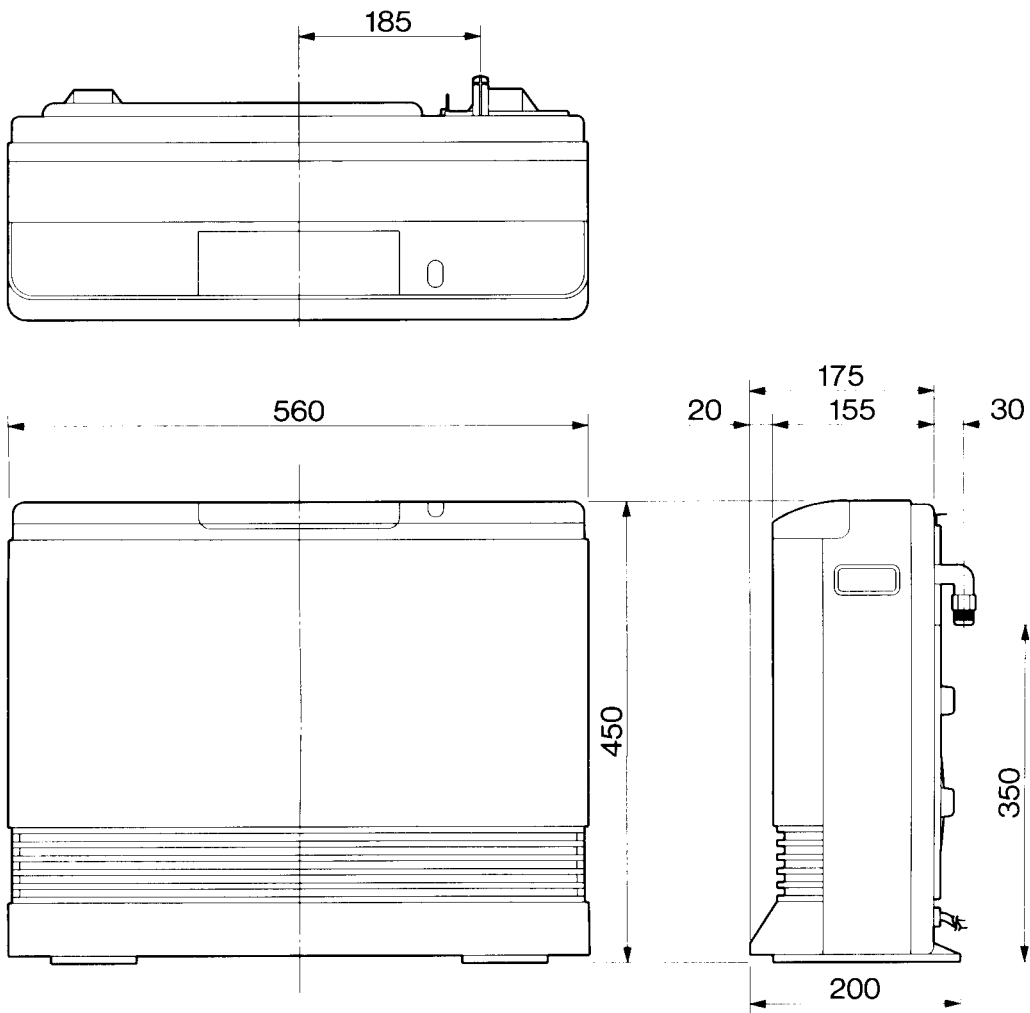
Rinnai Australia has a service and spare parts network in all states. Our service network personnel are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance needs service, please ring one of the service contact numbers on the back of this booklet. Rinnai recommend that this appliance be serviced every 2 years.

Fault Failure Procedure

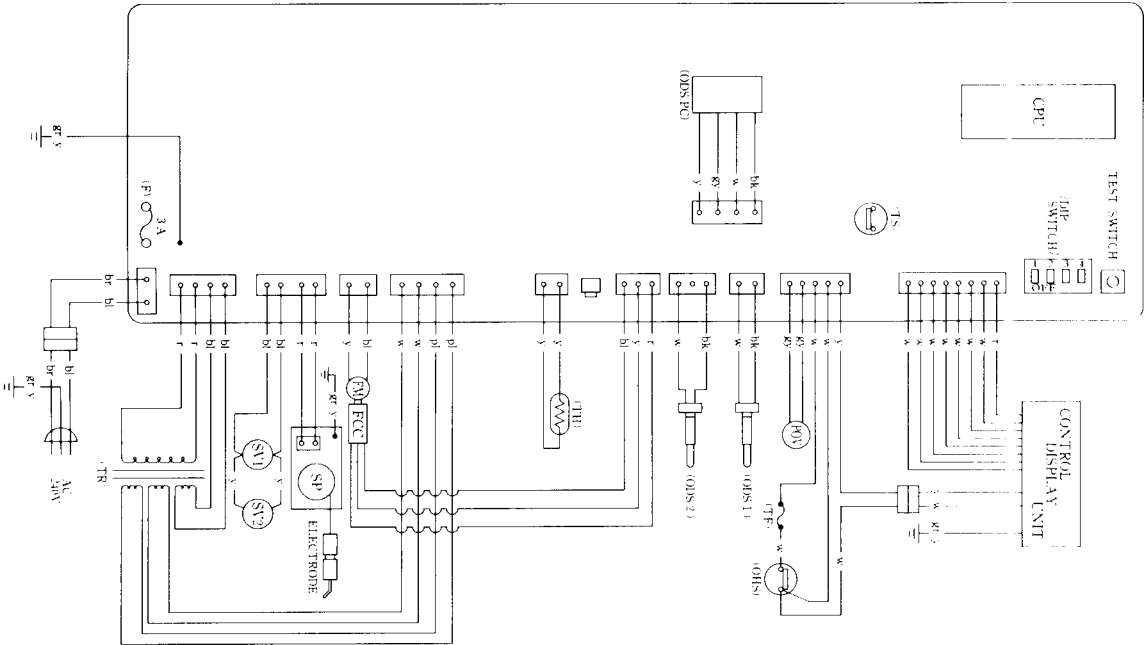
If you are unsure about the way your heater is operating, contact Rinnai Australia, or your local agent.

Specification
Dimensions

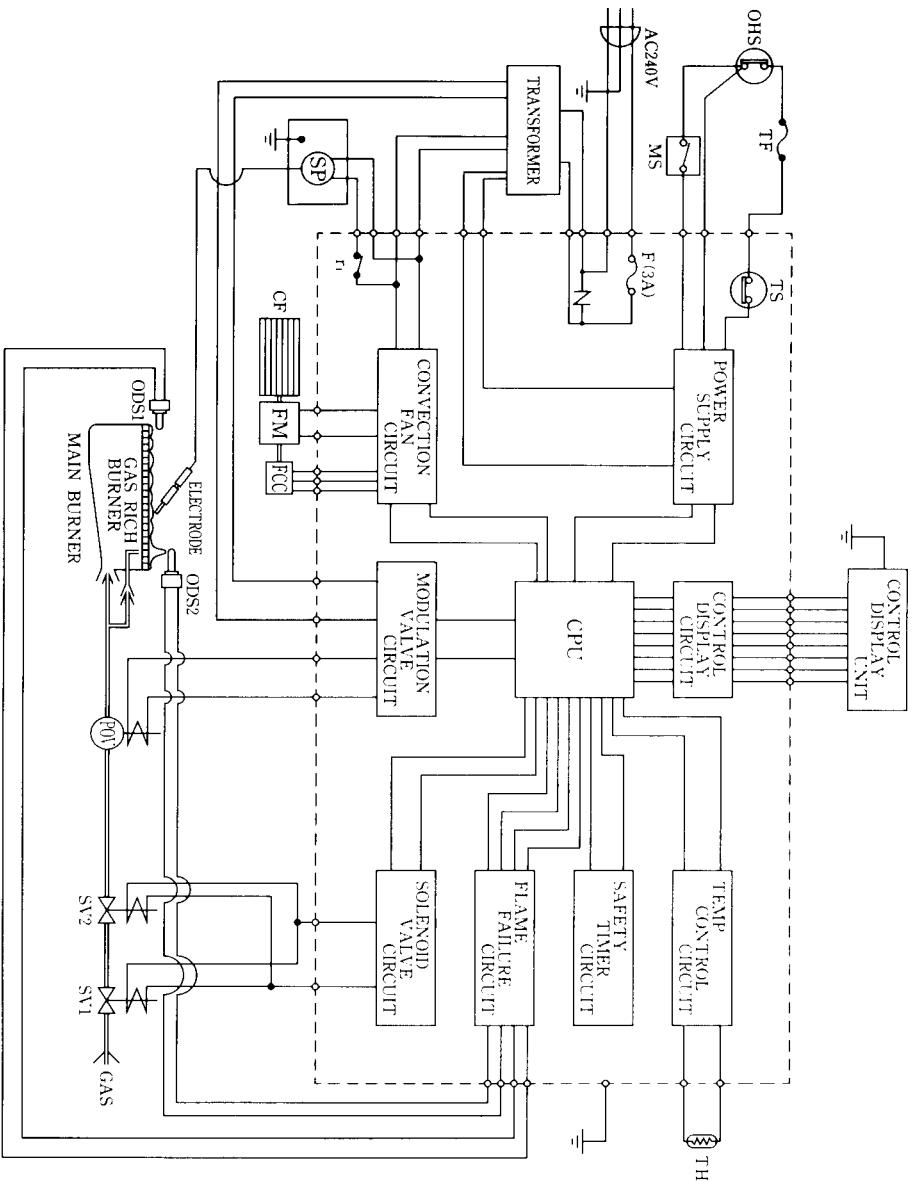
Dimensions in mm



WIRING DIAGRAM



BLOCK DIAGRAM



CODE	COLOUR
bk	black
bl	blue
br	brown
gy	grey
gr/y	green, yellow
pl	purple
r	red
w	white
y	yellow

MARK	PART NAME	MARK	PART NAME
TR	TRANSFORMER	FM	FAN MOTOR
SV1~2	MAIN SOLENOID VALVE 1~2	CF	CONVECTION FAN
POV	MODULATION SOLENOID VALVE	FCC	FAN CONTROL CIRCUIT
MS	MAIN SWITCH	F	FUSE
OHS	OVER HEAT SWITCH	ODS1~2	OXYGEN DEPLETION SENSOR
TF	THERMAL FUSE	ODS,PC	O.D.S. POWER CHECK
TS	TIP OVER SWITCH	TH	THERMISTOR
SP	SPARKER	CPC	CENTRAL PROCESSING UNIT

SPECIFICATIONS

Description:	Convector 417 (RCE-417)
Type:	Forced convection unflued space heater.
Input:	N.G. - 17 MJ/h Propane - 17 MJ/h
Gas Control:	Integrated electronic.
Burner:	Rinnai Ceramic plate burner.
Test Point Pressure:	N.G. - 0.86kPa Propane - 17 MJ/h 2.07kPa
Gas Inlet:	Supplied with hose and plug.
Ignition:	Electronic.
Power Supply:	240V 50Hz, unit is fitted with a supply lead and 3 pin plug, replace only with Rinnai part number 90148206.
Injectors & Gas Type:	Please see data plate.
Dimensions:	Width 560 mm, Height 450 mm, Depth 155 mm.

You can rely on
Rinnai

Rinnai Australia PTY. LTD. A.C.N. 005 138 769

Head Office:	10-11 Walker Street, Braeside, Vic 3195.	Tel: (03) 9580 7811. Fax: (03) 9580 8098. Sales: (03) 9586 7977. Fax: (03) 9587 0107. Spare Parts & Service: (03) 9586 7948. Fax: (03) 9580 7747. 24 hr Hot Water Tel: (1800) 632 386.
N.S.W. Branch:	62 Elizabeth Street, Wetherill Park, NSW 2164.	Tel: (02) 609 2111. Fax: (02) 609 5260. Sales: (02) 609 2888. Service: (02) 609 2600. 24 hr Hot Water Tel: (02) 729 0468.
S.A. Branch:	140 Days Road, Ferryden Park, SA 5010.	Tel: (08) 345 0292. Fax: (08) 345 4760. 24 hr Hot Water Tel: (018) 81 4379.
W.A. Branch:	17-19 Belgravia Street, Belmont, WA 6104.	Tel: (09) 478 3355. Fax: (09) 277 2531. 24 hr Hot Water Tel: (09) 401 2562 North. Tel: (09) 457 1909 South.
QLD Branch:	6 Curban Street, Underwood, QLD 4119.	Tel: (07) 3341 8777. Fax: (07) 3341 8868.
A. C. T.	Rinnai Southern (Bird & Stirling Agencies Pty). Ltd. 3 Lithgow Street, Fyshwick, ACT 2609.	Tel: (06) 280 4833. Fax: (06) 280 6561.
Tasmania:	Contact Rinnai Melbourne on:	Tel: (03) 9580 7811. Fax: (03) 9580 8098. Service: (03) 9586 7948. Fax: (03) 9580 7747.