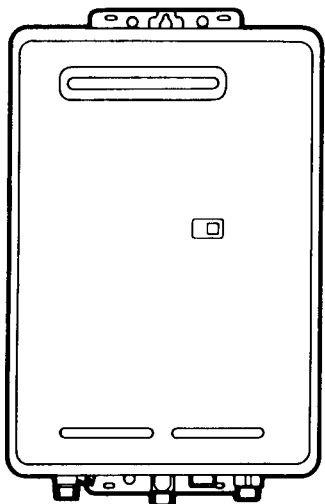


How to use your Water Heater



Rinnai
Heavy Duty
Infinity

Customer
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Installer
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Turning System ON

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24 Hr SERVICE
In metropolitan areas.
Melb (1800) 632 386
Syd/Can (02) 9729 0468
Adel (08) 8345 5185
Perth (08) 9324 4145
Qld 0412 747 717

IMPORTANT

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 each year.

This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS3500. 4
- Current AS3000
- Local Water Authority Regulations
- Local Gas Fitting Regulations
- Municipal Building Codes
- AG601, A.G.A. Installation Code for Gas Burning Equipment
- Any other relevant Statutory Regulation

This Heavy Duty Infinity must be installed correctly by an authorised person. The Installation of gas, water, and electricity must conform to local regulations.

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

Your water heater has been approved by the Australian Gas Association.
For A.G.A. Approval Number refer to Data plate.

Please keep this instruction booklet in a safe place for future reference.

All dimensions referred to in these instructions are in millimetres, unless otherwise specified.

**Certified
Product**



WaterMark

AS 3498 Lic W208
Standards Australia



**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

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

FEATURES

The Heavy Duty Infinity is one of a range of the most advanced instantaneous water heater available.

The Heavy Duty Infinity is an externally mounted, power flued appliance. It is very compact, saving both floor and wall space.

The Heavy Duty Infinity comes supplied pre-set to a maximum water temperature of 85°C.

The Heavy Duty Infinity never runs out of hot water. While electricity, water and gas supplies are connected, hot water is available whenever the hot water tap is open.

The burner lights automatically when the hot water tap is opened, and goes out when the tap is closed. Ignition is electronic; there is no pilot light. When the hot water tap is off, no gas is used.

A.G.A.'s 5 Star Energy Rating shows that the Heavy Duty Infinity is one of the most efficient water heaters available.

Operating noise level is very low.

The Heavy Duty Infinity is designed to operate without remote controls.

TROUBLE SHOOTING

The Heavy Duty Infinity has the ability to monitor it's own operation continuously. If hot water does not flow, close all tap outlets, turn off the power supply to the appliance for a minimum of 5 seconds.

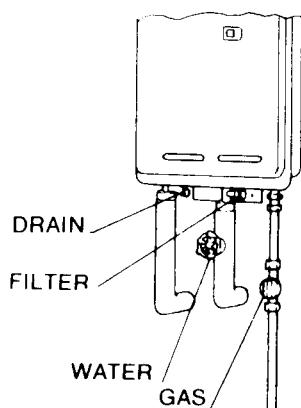
Then switch the power ON again to the appliance. Open a hot water tap and confirm the Heavy Duty Infinity is operating correctly.

If the problem persists, contact Rinnai on one of the telephone numbers shown on the covers of this booklet.

SAFETY

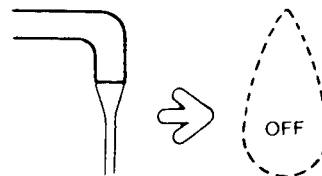
If the Heavy Duty Infinity is disconnected from the power supply and freezing conditions are expected, turn off water and gas, and drain all water from the appliance.

Water Off
↓
Gas Off
↓
Drain Water

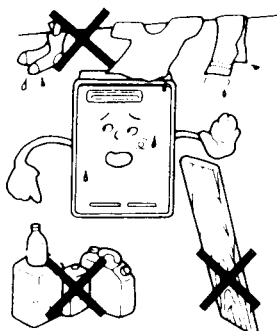


If power and the automatic frost protection is connected, freezing will be prevented. ("K" Series only)

Hot water temperature may vary at low water flows, or the Heavy Duty Infinity may go out without warning.

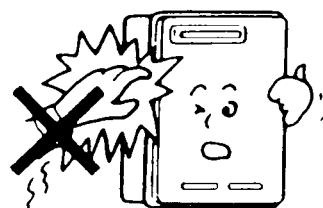


Keep flammable materials, trees, shrubs etc. away from the Heavy Duty Infinity.



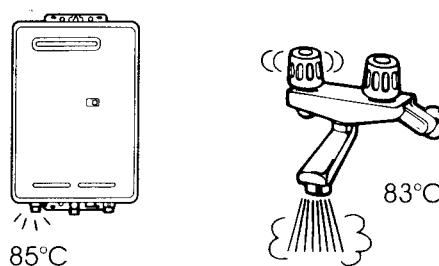
Do not spray water directly into the flue terminal.

Do not touch cover or insert objects into the flue outlet when the Heavy Duty Infinity is in operation.



On cold days steam may be discharged from the flue outlet, this is normal with a high efficiency appliance and does not indicate a fault.

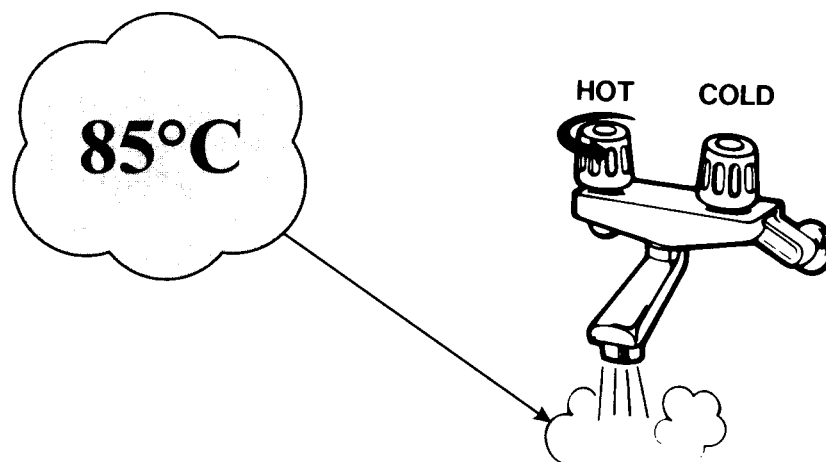
Depending on the weather conditions and the length of the pipe between the hot water unit and the tap in use, there may be a variation between the temperatures leaving the unit and the temperature of the water at the tap.



OPERATION-WITHOUT REMOTES

The Heavy Duty Infinity has no pilot light and will operate automatically as soon as a hot water tap is opened. The burner ignites with electronic ignition and the flame extinguishes as soon as water stops flowing through the appliance (usually when the hot water tap is closed).

Simply, Open a hot water tap.



NOTE

The Heavy Duty Infinity is supplied with the hot water supply pre-set to 85°C. The Heavy Duty Infinity is designed to operate without remote controls.

WARNING

Excessively hot water is dangerous, especially for young children and the infirm. The Heavy Duty Infinity is delivered pre-set to 85°C.



Water temperature over 50°C can cause severe burns instantly or death from scalds.

Children, disabled, and the elderly are at highest risk of being scalded.

The Heavy Duty Infinity is not intended for normal domestic use.

SCALDS-FIRST AID

1. REMOVE CLOTHING

Remove all wet clothing quickly, as clothing retains the heat.

2. APPLY COLD WATER FOR 30 MINUTES

Immediately submerge the burnt area in cold water for 30 minutes to reduce the heat in the skin, preventing deeper burning.

Never use butter, oils, ointments to cover the burn as they retain the heat.

Never use ice. Children can be dangerously chilled in iced water.

3.KEEP THE CHILD WARM

Place a blanket around your child.

4. SEEK MEDICAL ADVICE

Seek medical advice if the scald involves the face or hands or is larger than your palm.

GUARANTEE

The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product which you have under the Trade Practices Act and Similar State and Territory Laws. Given installations is in accordance with the manufacturers specification, this appliance is warranted by Rinnai for the cost of labour and components in the event of defects arising from faulty materials and/or workmanship with the ensuring warranty conditions.

Commercial Use:	Free Labour	Free Parts
Heat Exchanger:	1 Year	1 Year
All other Parts:	1 Year	1 Year

*All terms are effective from the date of installations.

Please record below the following information for your own records.

Your Retailer:

Address:

Phone:

Date of Purchase:

Your Installer:

Installer's Licence No.

Address:

Phone:

Date of Installation:

INSTALLATION INSTRUCTIONS

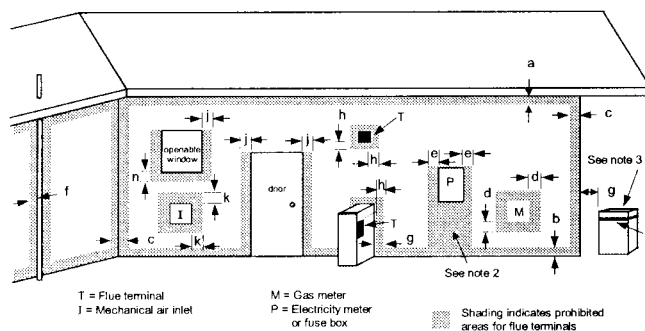
THE FOLLOWING PAGES CONTAIN INFORMATION FOR THE INSTALLER.

**Please read information printed on page one.
The installer is responsible for the correct
installations of your Heavy Duty Infinity.**

- Read warnings on page one before starting installations.
- Check for damage, if the Heavy Duty Infinity is damaged, contact the supplier or Rinnai.
- Do not install a damaged appliance before checking with supplier or Rinnai.
- Check that the Heavy Duty Infinity supplied is correct for the gas type in the area.
Refer to local gas authority for confirmation of gas type if in doubt.
Refer to data plate located on left hand side panel of the Heavy Duty Infinity.

POSITIONING

- The Heavy Duty Infinity is an externally mounted, power flued appliance. **IT MUST ONLY BE FITTED OUTSIDE THE BUILDING.**
- When determining a suitable position for the Heavy Duty Infinity, the length of hot water pipe runs should be taken into consideration. In principle, the Heavy Duty Infinity should be as close as possible to the most often used taps, or in a central location between taps.
- See diagram on page 11 for position of gas, water and power connections.
- The location of the flue terminal must comply with the clearances shown below.



Ref.	Item	Minimum clearances (mm)	
		Natural draft	Fan assisted
a	Below eaves, balconies and other projections:		
	• Appliances up to 50 MJ/h input	300	200
	• Appliances over 50 MJ/h input	500	300
b	From the ground, above a balcony or other surface †	300	300
c	From a return wall or external corner †	500	300
d	From a gas meter (M) (see 4.7.11 for vent terminal location of regulator)	1000	1000
e	From an electricity meter or fuse box (P)	500	500
f	From a drain pipe or soil pipe	150	75
g	Horizontally from any building structure † or obstruction facing a terminal	500	500
h	From any other flue terminal, cowl, or combustion air intake †	500	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	• Appliances up to 150 MJ/h input	500	300
	• Appliances over 150 MJ/h input up to 200 MJ/h input	1500	500
	• Appliances over 200 MJ/h input	1500	1500
	• All fan-assisted flue appliances, in the direction of discharge		1500
k	From a mechanical air inlet, including a spa blower	1500	1000
n	Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	• Space heaters up to 50 MJ/h input	150	150
	• Other appliances up to 50 MJ/h input	500	500
	• Appliances over 50 MJ/h input and up to 150 MJ/h input	1000	1000
	• Appliances over 150 MJ/h input	1500	1500

† - unless appliance is approved for closer installation

NOTES:

- 1 All distances are measured to the nearest part of the terminal.
- 2 Prohibited area below electricity meter or fuse box extends to ground level.
- 3 See Clause 5.13.6.6 for restrictions on a flue terminal under a covered area.
- 4 See Appendix J, Figures J2(a) and J3(a), for clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.
- 5 For appliances not addressed above, approval shall be obtained from the Authority.

Note: If you are unsure about clearances not indicated here, in general refer to AG601, or your local authority.

The Infinity Water Heater has been approved to be manifolded together. The minimum clearance requirement between flue terminals is 100mm. All other clearances must comply with the diagram above.

WARNING



GAS PIPE SIZING

CORRECT GAS PIPE SIZING IS VERY IMPORTANT.

IF GAS PIPE SIZE IS INSUFFICIENT, THE CUSTOMER WILL NOT GET THE FULL PERFORMANCE BENEFIT.

CHECK MAXIMUM GAS CONSUMPTION ON DATA PLATE, USE THE MAXIMUM CONSUMPTION TO CALCULATE THE PIPE SIZING.

USE A SUITABLE PIPE SIZING CHART (FOR EXAMPLE THE CHARTS IN AG601) TO CALCULATE PIPE SIZING.

INSTALLATION-GENERAL

■ HEAVY DUTY INFINITY

A 240 V weatherproof earthed power point is required within 1500 mm of the Heavy Duty Infinity.

The Heavy Duty Infinity weighs 18 kg, and the wall on which it is to be mounted must be capable of supporting it and the pipework. Ensure that suitable fixing screws or bolts are used to secure the Heavy Duty Infinity to the wall. Bracket and fixing hole locations are shown on page 11.

The top bracket has a keyhole slot so that Heavy Duty Infinity can be positioned by hanging it on one screw, then the other screws can be secured.

After determining the most suitable position, fix the Heavy Duty Infinity to the wall.

Connect hot and cold water pipes. An approved gate valve **MUST BE FITTED** to the cold water inlet. In areas where the water pressure is over 1000 kPa, a pressure limiting valve must also be fitted.

Water connections are R $\frac{3}{4}$. Locations are shown on page 11.

Connect the gas. **CHECK PIPE SIZING REQUIREMENT USING AN APPROVED PIPE SIZING CHART** (eg: Charts in AG601).

PIPE SIZING IS IMPORTANT.

The Heavy Duty Infinity uses 188 MJ/h of gas. **IF THE GAS PIPE IS INSUFFICIENT, THE CUSTOMER WILL NOT GET THE FULL PERFORMANCE BENEFIT.** An approved isolation valve **MUST BE FITTED** to the gas inlet. Connection size is R $\frac{3}{4}$ /20. This is not an indication of the size of the size of pipe required.

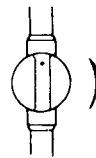
The Heavy Duty Infinity water heater is not suitable for use as a pool heater.

Purge Gas and Water pipes to remove air and swarf. Swarf in either gas or water supplies may damage the Heavy Duty Infinity.

WATER ON

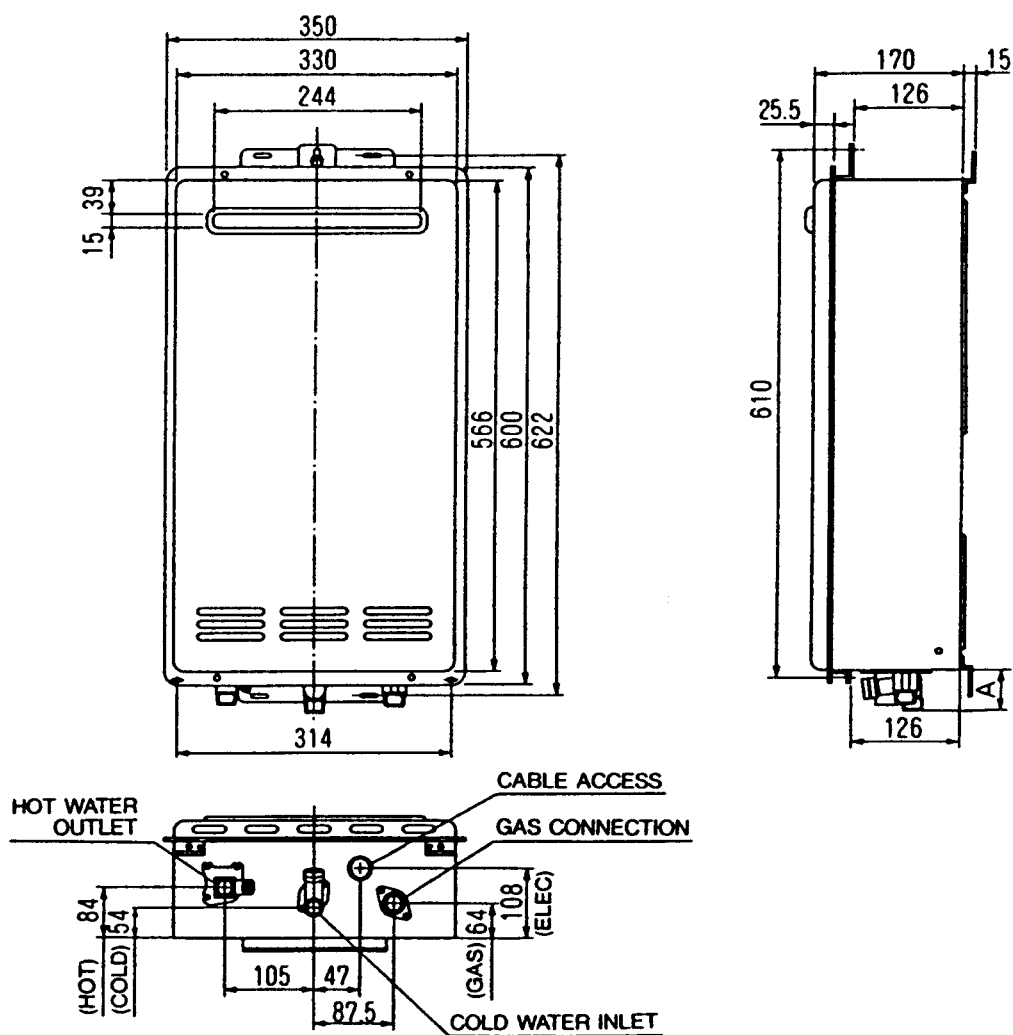


GAS ON



DIMENSIONS

HEAVY DUTY INFINITY



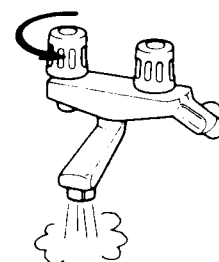
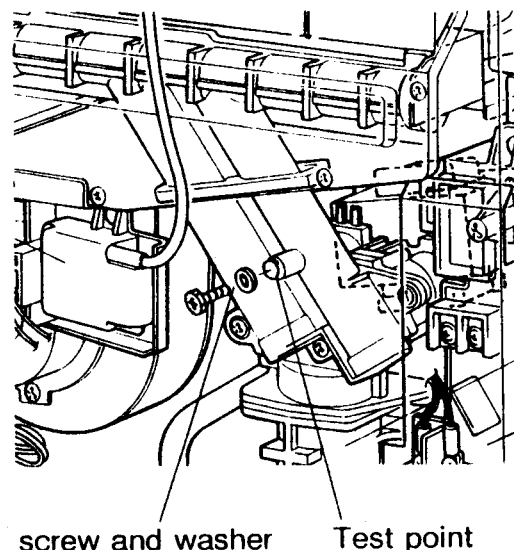
TESTING

■ TESTING

- Turn on Gas and Water.
- Test for water leaks and gas escapes. Use soapy water to check for gas leaks.
- Remove pressure test point screw, attach pressure gauge to test point.
- Turn power on (Caution 230/240V inside unit).
- Open any hot tap fully.
- Check test point pressure.
- Refer to tables in gas pressure setting procedure column.
- If the pressure is low, there could be various reasons eg. warm incoming water, low water flow, gas pipes too small.
- If it is established that the gas pressure needs adjusting, first check the pressure at the incoming pressure test point (on the gas inlet). If the incoming pressure is correct, follow the instructions EXACTLY according to the information provided above. IF IN DOUBT, CONTACT RINNAI.
- Turn hot water off. Turn power off. Remove pressure gauge and replace test point screw.
- Replace front cover (4 screws).
- Turn power on.
- Check operation of appliance.

FAULT/FAILURE PROCEDURE

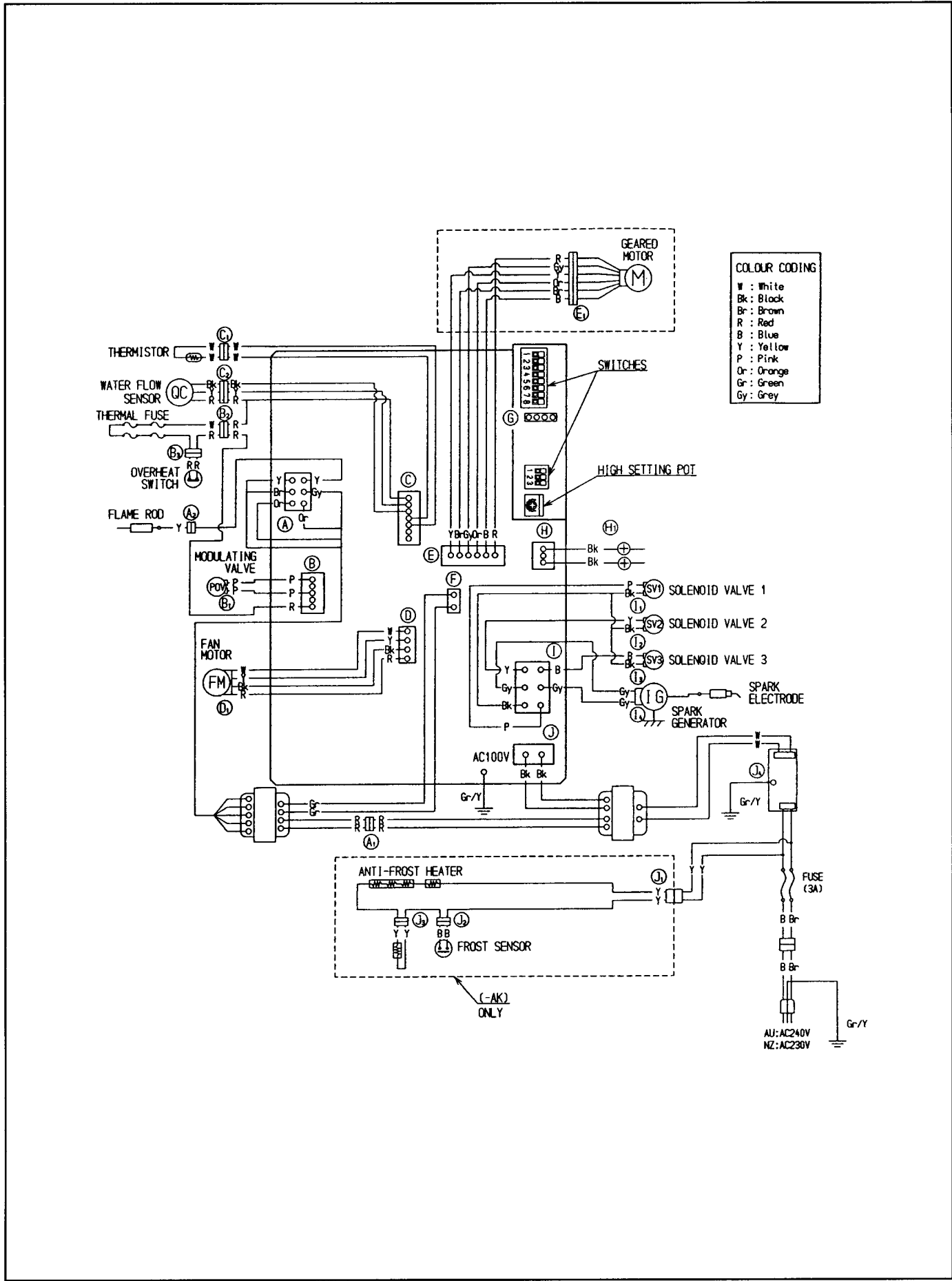
If you are unable to get the Infinity to operate correctly, contact Rinnai, or your local agent.



HOT WATER TAP OPEN

NOTE: The regulator is factory pre-set, it should not need adjusting. Check incoming pressure before attempting to make any change to the appliance regulator.

WIRING DIAGRAM



SPECIFICATIONS

DESCRIPTION	REU-2424AH
TYPE	EXTERNALLY MOUNTED, POWER FLUED CONTINUOUS FLOW WATER HEATER.
GAS TYPE	NATURAL/PROPANE.
INPUT	MODULATING - 188 MJ/h HIGH, 21MJ/h LOW.
GAS CONTROL	RINNAI ELECTRONIC CONTROL AND SOLENOIDS.
BURNER	STAINLESS STEEL.
GAS INLET	R ³ / ₄ /20 (3/4" BSP MALE).
TEST POINT PRESSURE	SEE DATA PLATE AND PRESSURE INFORMATION WITH APPLIANCE.
FLUE	FORCED FLUE.
FLUE TERMINATION	SUPPLIED WITH APPLIANCE.
IGNITION	ELECTRONIC WITH AUTOMATIC FLAME SENSING.
ELECTRICAL SUPPLY	240v 50Hz
Rinnai are continually updating and improving products, therefore specifications are subject to change without prior notice.	

SERVICE CONTACT POINTS

Rinnai AUSTRALIA PTY. LTD. A.C.N. 005 138 769 A.B.N 74 005 138 769

Internet: <http://www.rinnai.com.au>

E-mail: enquiry@rinnai.com.au

Head Office:

10-11 Walker Street, Braeside, VIC 3195
 Tel: (03) 9271 6625 Fax: (03) 9271 6622
 Sales Tel: (03) 9271 6666 Fax: (03) 9271 6611.
 Service Tel: (03) 9271 6699 Fax: (03) 9271 6688.
 Spare Parts Tel: (03) 9271 6600 Fax: (03) 9271 6688.
 24 hr Hot Water Tel: (1800) 632 386

N.S.W./ACT Branch:

62 Elizabeth Street, Wetherill Park, NSW 2164.
 Tel: (02) 9609 2111. Fax: (02) 9609 5260.
 Sales Tel: (02) 9609 2888. Fax: (02) 9609 5260
 Service Tel: (02) 9609 2600. Fax: (02) 9729 0467
 24 hr Hot Water Tel: (02) 9729 0468.

S.A. Branch:

140 Days Road, Ferryden Park, SA 5010.
 Tel: (08) 8345 0292. Fax: (08) 8345 4760.
 24 hr Hot Water Tel: (08) 8345 5185

W.A. Branch:

18 Belgravia Street, Belmont, WA 6104.
 Tel: (08) 9478 3355. Fax: (08) 9277 2531.
 24 hr Hot Water Tel: (08) 9478 3345
 Tel: (08) 9324 4145

QLD Branch:

1/6 Booran Drive, Logan Central, QLD 4114.
 Tel: (07) 3209 4622. Fax: (07) 3209 4722.
 After Hrs Hot Water Tel: 0412 747 717

Tasmania:

Contact Rinnai Melbourne Head Office:

Rinnai NEW ZEALAND LTD.

Internet: <http://www.ralenti.co.nz/rinnai> E-mail: fernerr@rinnai.co.nz

691 Mt. Albert Road, Royal Oak, Auckland
 P.O. Box 24-068
 Tel: (09) 625 4285. Fax: (09) 624 3018
 Service (24 hr) Tel: 0800 746624 (0800 Rinnai)

CIN 2424H

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