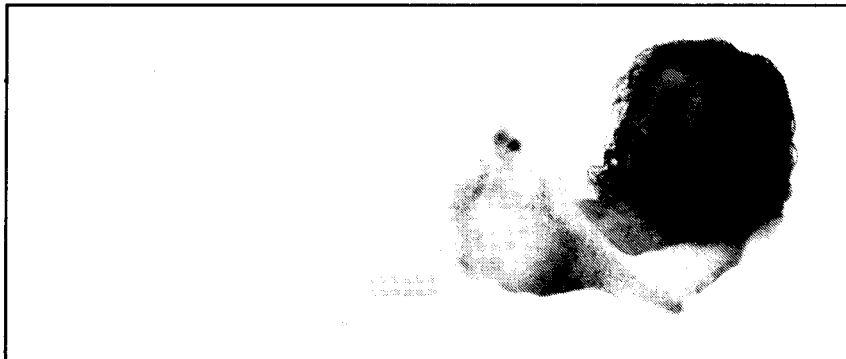
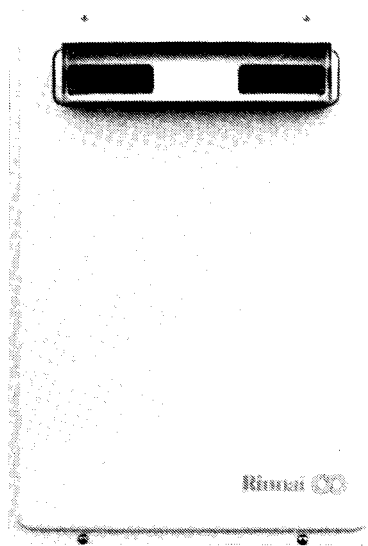
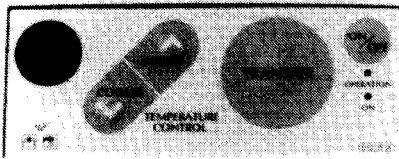


Rinnai 24

CUSTOMERS OPERATING INFORMATION



INSTALLATION INSTRUCTIONS

This appliance shall be installed in accordance with:-

Manufacturer's Installation Instructions

Local Water Authority Regulations

Local Gas Fitting Regulations

Municipal Building Codes

A.G.A./ S.A.N.Z. Installation Code for Gas Burning Equipment

Any other relevant Statutory Regulation

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

CONTENTS

| | |
|----------------|---|
| Features | 1 |
|----------------|---|

CUSTOMERS OPERATING INFORMATION

| | |
|--|---|
| Remote Controls | 2 |
| Remote Control Layout | 3 |
| Turning the Infinity 24 ON | 4 |
| Adjusting Temperature | 4 |
| Transferring Priority of Temperature Selection | 5 |
| Turning the Infinity 24 OFF | 6 |
| Guarantee Information | 6 |
| Safety Points | 7 |
| Important Points | 8 |
| Error Messages | 9 |

INSTALLATION INSTRUCTIONS

| | |
|--|-------|
| - Unpacking | 10 |
| - Positioning | 11 |
| - Pipe Sizing | 12 |
| - Installation - General | 13 |
| - Remote Controls - General | 14 |
| - Remote Controls - Installation | 15-17 |
| - Testing | 18 |
| Wiring Diagram | 19 |
| Block Diagram | 20 |
| Dimensions | 21 |

SERVICE

Rinnai Australia has a service 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 the booklet.

After hours service is available in the following metropolitan areas.
Melbourne: (018) 54 2406 Adelaide: (018) 81 4379
Perth: (09) 478 3355 Sydney: (02) 638 7000

FEATURES OF YOUR INFINITY 24

The Infinity 24 is one of the most advanced water heaters available. It supplies hot water at the temperature selected on either of the two electronic Remote Controls supplied as standard with the appliance.

The Master Control (larger control) can be fitted conveniently close to the shower or bath area, and is used to override the Sub Control (smaller control) which is normally fitted in the kitchen or other convenient area.

The Transfer button on the Master Control enables you to select and lock the preferred temperature for shower or bath water. When locked in, this selected temperature cannot be overridden by the Sub Control.

The Sub Control is used to select temperatures for kitchen, laundry etc.

Temperatures selected at both Controls are retained in the system memory.

The Infinity 24 never runs out. While the electricity, gas and water supplies are connected, hot water is available for as long as 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.

AGA's 6 Star Energy Rating makes the Infinity 24 one of the most efficient water heaters available.

The Infinity 24 is an externally mounted, power flued appliance. It is very compact, saving both floor and wall space.

Operating noise levels are very low.

Error codes are displayed on the Remote Controls, assisting with service.

Other features include automatic frost protection and over heat protection.

The 75°C temperature setting allows for sterilization of your shower fittings and tap outlets. Simply set the temperature to 75°C and run water through the outlet you wish to sterilize for approximately 2 minutes once a month.

This Infinity 24 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 Infinity 24 has been approved by the Australian Gas Association and the Gas Association of New Zealand.

A.G.A. Approval Number 4753
S.A.N.Z. Approval Number 721

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

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

Customers Operating Information

PLEASE READ THESE INSTRUCTIONS CAREFULLY

RINNAI GUARANTEE OF QUALITY

The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product which the consumer has under the Trade Practices Act and similar State and Territory Laws.

Given installation 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 ensuing warranty conditions.

| | | | | | |
|-----------------|-------------|------------|-----------------|-------------|------------|
| Domestic Use: | Free Labour | Free Parts | Commercial Use: | Free Labour | Free Parts |
| Heat Exchanger | 3 Year | 10 Year | Hear Exchanger | 1 Year | 1 Year |
| All other Parts | 3 Year | 3 Year | All other Parts | 1 Year | 1 Year |

* All terms are effective from date of installation.

REMOTE CONTROLS

To obtain the best performance out of your Infinity 24 it is important to use the Remote Controls correctly.

Used as intended, the Infinity 24 will supply hot water at the temperature selected, even when the water flow is varied, or when more than one tap is used.

The purpose of the Remote Controls is to enable you to have complete control over your Infinity 24 from inside your house.

Two Remote Controls are supplied with the Infinity 24. The Master Control has a Transfer button. This Control has the ability to override the Sub Control and lock in the water temperature selection desirable for shower and bathroom areas. It is suggested that the Master Control with the Transfer button be conveniently placed near the shower, bathroom area or other location where priority control of water temperature is required.

Normally, the sub control, without the Transfer button, would be located in the kitchen or other convenient are, such as the laundry.

All necessary adjustments to the operation of your Infinity 24 can be made with either of the two Remote Controls.

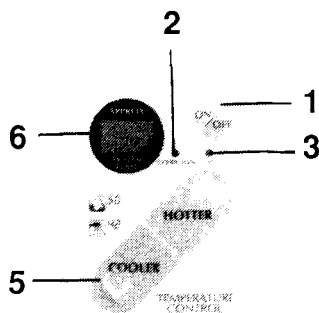
A different temperature can be stored in the system memory of each Control.

Various water temperatures can be selected in 16 steps from 35°C to 75°C. The temperatures are 35-37-38-39-40-41-42-43-44-45-46-48-50-55-60-75°C.

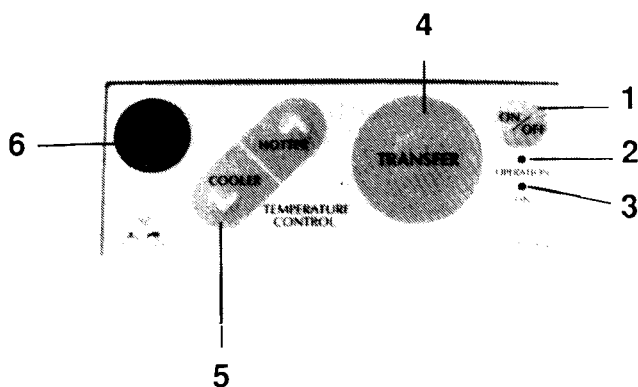
Suggested temperatures are Shower 42°C
 Kitchen 50°C.

These temperatures are suggested starting points for selection. You may find higher or lower temperatures are more comfortable. Maintaining lower temperatures helps to save energy.

REMOTE CONTROL LAYOUT



SUB CONTROL



MASTER CONTROL

| Number | Control | Function |
|--------|----------------------|---|
| 1 | ON/OFF | Power switch to operate Infinity 24 hot water service. |
| 2 | COMBUSTION INDICATOR | Indicates that a hot water tap is open in any location, while the Infinity 24 has been turned ON and is operating. |
| 3 | ON INDICATOR | Indicates which Remote Control is in control of adjusting the water temperature selection. |
| 4 | TRANSFER | Alternates the control of temperature selection between Master and Sub Controls. |
| 5 | THERMOSTAT CONTROL | Adjusts the temperature selection in 16 steps from 35°C to 75°C. All selected temperatures other than 75°C will be stored in the system memory. |
| 6 | DIGITAL MONITOR | Indicates the temperature which has been selected. Error Code flashes in the event of a fault. |

TURNING THE INFINITY 24 ON

■ TO TURN YOUR INFINITY 24 ON.

Simply press the **ON/OFF** button on either Control.

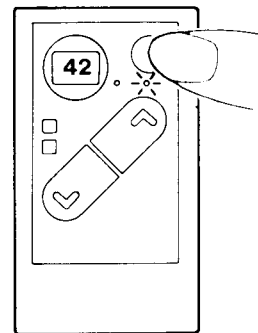
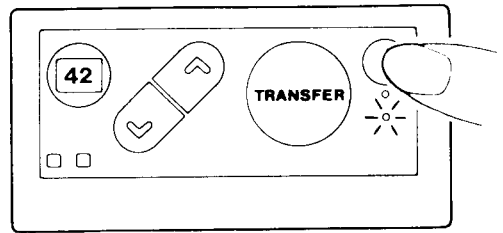
The ON indicator will glow on the Control which you have operated. This indicates that the Infinity 24 is ready to supply hot water as soon as a tap is opened.

To operate the Infinity 24 simply turn any hot water tap on. This will automatically light the burner providing hot water at the temperature displayed on the Digital Monitor.

After Installation, and when the **ON/OFF** button is first pushed, 42°C will be displayed on the Digital Monitor.

This is a safety feature. Thus even if the shower is used without first adjusting the temperature the hot water will be at a safe temperature.

Master Control





Sub Control

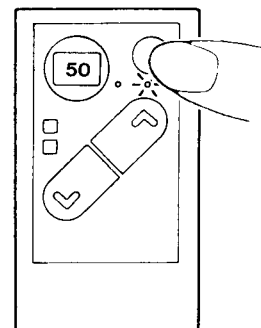
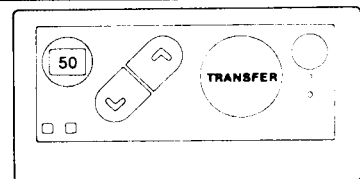
ADJUSTING TEMPERATURE

■ TO INCREASE OR DECREASE THE WATER TEMPERATURE.

The temperature can only be adjusted on the Remote Control where the ON indicator is glowing, and the same temperature will be displayed on both Controls.

Simply press the **HOTTER**  or **COOLER**  button until the required temperature is displayed on the Digital Monitor.

When any hot water tap is turned on, hot water will be supplied at the temperature displayed on the Digital Monitor.



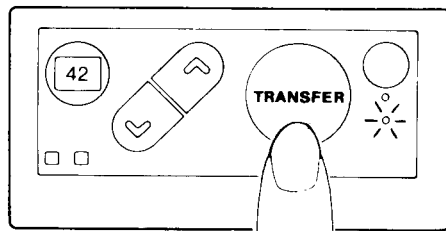
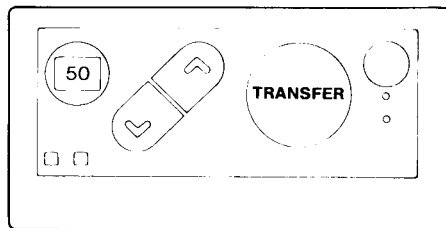
**CHECK WATER TEMPERATURE
BEFORE ENTERING SHOWER
OR BATH**

TRANSFERRING PRIORITY OF TEMPERATURE SELECTION

- To Transfer priority of water temperature selection to the Master Control, simply press the **TRANSFER** button on the Master Control.

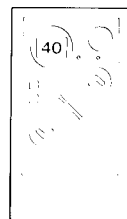
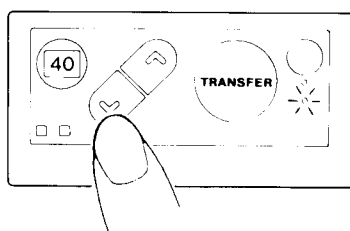
The ON indicator on the Master Control will glow to indicate that priority of water temperature selection has been transferred to the Master Control.

After having transferred the priority of water temperature selection, 42°C will be displayed on the Digital Monitor.

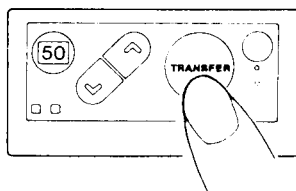


- The water temperature can now be selected using the Master Control. Once the desired water temperature is selected, the Remote Control will store it in the system memory until the temperature is changed or the mains power supply is turned off.

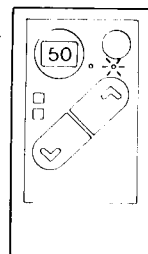
You can alternate priority of water temperature selection between the Master and Sub Controls, without erasing the individually stored temperatures from the system memory.



- To Transfer priority of water temperature selection back to the Sub Control, simply press the **TRANSFER** button again. The temperature displayed will then return to the temperature which was previously selected at the Sub Control, and the ON indicator will glow to indicate priority control of water temperature selection.



Master Control



TURNING THE INFINITY 24 OFF

■ TO TURN YOUR INFINITY 24 OFF.

Simply press the **ON/OFF** button on either Remote Control.

This will shut the Infinity 24 down completely.

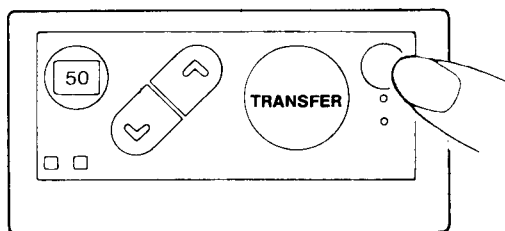
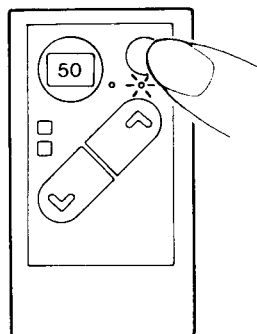
If hot water taps are opened when the Infinity 24 is OFF, cold water will flow from the taps.

Selected temperatures are retained in the system memory, even when the Remote Controls have been turned OFF.

When the Controls are turned ON again, the previously selected temperatures will be displayed on the Digital Monitor.

NOTE:

It is recommended that during long periods of non-use, the system be switched off at the Remote Controls.



GUARANTEE INFORMATION

Please record the following information for your own records.

Your Retailer:

Address:

Phone:

Date of Purchase:

Your Installer:

Installer's Licence No.:

Address:

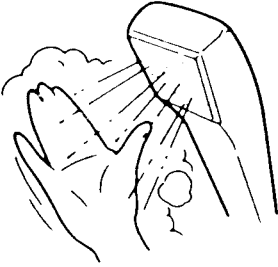
Phone:

Date of Installation:

The installer is responsible for the correct installation of your Infinity 24.
Keep this guarantee in a safe place as your record.

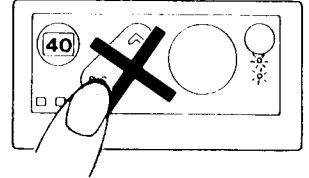
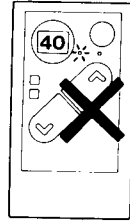
SAFETY POINTS

Always check water temperature by hand before entering the shower or bath.

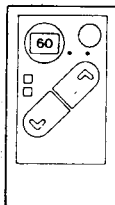
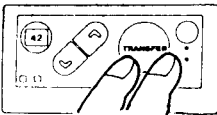
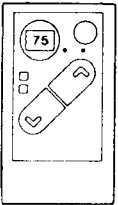


After sterilizing, always remember to return the selected temperature to its original setting.

Never change water temperatures or operate the remote controls while someone else is in the shower.

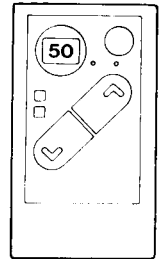


If 75°C has been selected at the Sub Control and then priority of temperature selection is transferred to the Master Control and back again, the temperature on the Sub Control will drop to 60°C. This is a safety feature.



Do not push the **ON/OFF** button on the Sub Control after having transferred priority of temperature selection to the Master Control.

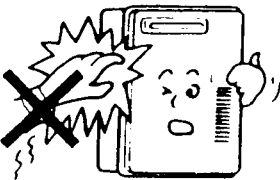
Turn OFF then ON.



WARNING

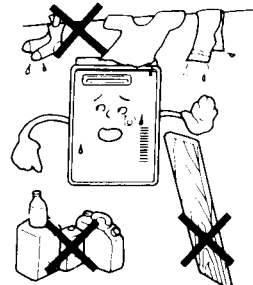
This procedure could cause sudden changes in water temperature.

Do not touch, cover or insert objects into the flue outlet when the Infinity 24 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.

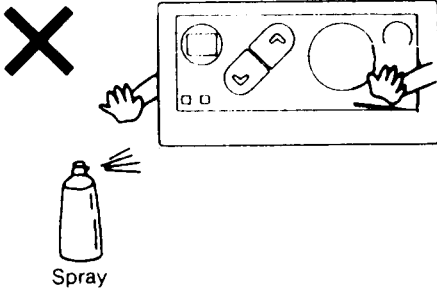
Keep flammable materials, trees, shrubs etc. away from the Infinity 24.



Do not spray water directly into the flue terminal.

IMPORTANT POINTS

Do not clean Remote Controls with solvents. Use a soft damp cloth.



If the Infinity 24 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

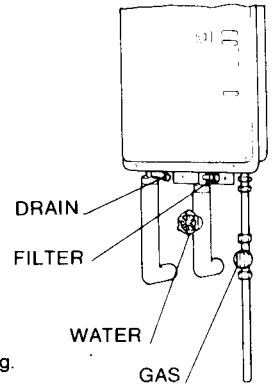


Gas Off

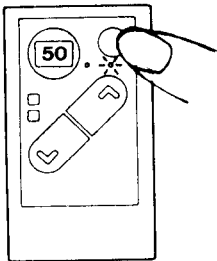


Drain Water

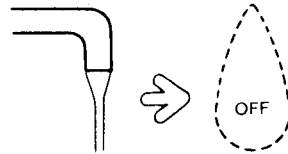
If the power is connected, the automatic frost protection prevents freezing.



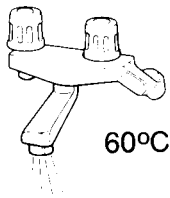
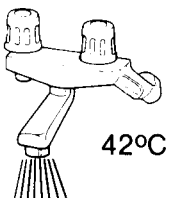
There is no need to turn the Infinity 24 off at the Remote Controls after use. However, if you prefer to turn the Controls off, selected temperatures will be stored in the system memory at all times while mains power remains connected.



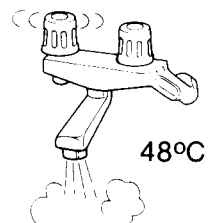
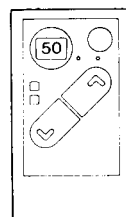
Water flow needs to be more than 2.5L/min. to operate the Infinity 24. Hot water temperature may vary at low water flows or the Infinity 24 may go out without warning.



The Infinity 24 controls the water temperature automatically. To do this it sometimes needs to change the water flow accordingly. The water flow from the hot water tap may vary when the selected temperatures on the Remote Controls are adjusted. The water flow may also vary from summer to winter, as incoming water temperatures differ.



Depending on the weather conditions and the length of the pipe between the Infinity 24 and the tap in use, there may be some variation between the temperatures displayed at the Remote Control and the temperature of the water at the tap.



ERROR MESSAGES

The Infinity 24 has the ability to check its own operation continuously. If a fault occurs an Error Code will be displayed on the Digital Monitor of the Remote Controls. This assists with diagnosing the fault, and may enable you to overcome a problem without a service call.

| Code Displayed | Fault | Remedy |
|----------------|--|--|
| U I | NO IGNITION | Check gas is turned on at water heater and gas meter or cylinder. |
| E I | FLAME FAILURE | Check gas is turned on at water heater and gas meter. Check that nothing is obstructing the flue outlet. |
| E 3 | COMBUSTION FAN FAILURE | Service Call |
| E 9 | CIRCUIT SELF CHECK FAILURE | Service Call |
| H I | INCOMING WATER TEMPERATURE SENSOR FAULTY | Service Call |
| H 2 / F 2 | OUTLET WATER TEMPERATURE SENSOR FAULTY | Service Call |

In all cases, you may be able to clear the Error Code simply by turning the hot water tap OFF, then ON again. If this does not clear the Error Code, try pushing the **ON/OFF** button OFF, then ON again. If the Error Code still remains, contact Rinnai or your nearest service agent and arrange for a service call.