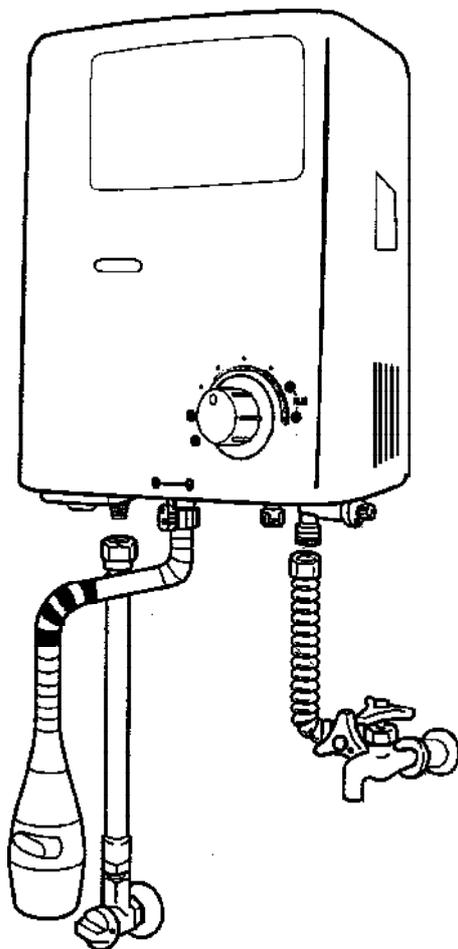


Rinnai

GAS INSTANTANEOUS WATER HEATER INSTRUCTIONS



MODEL

RUS-51FT

This Appliance shall be installed in accordance with:-

Manufacturer's Instructions.

Local Gas Fitting Regulations.

Local Body Building Codes.

Installation Code for Gas Burning Equipment.

Any other relevant statutory regulation.

This appliance must be installed by an authorised person.

SPECIFICATIONS

Model: **RUS-51FT**

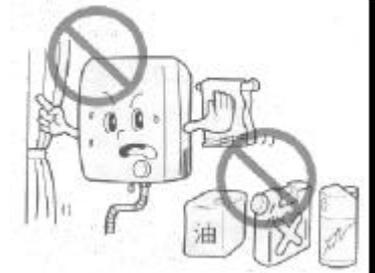
Functions and Characteristics

- * **Can Reach Boiling Temperatures**
Boiling water is available when required. This is convenient in many situations, such as making tea for the unexpected guest, boiling noodles, or steaming towels.
- * **Water Temperature Control**
Water temperature can be controlled at the Capacity Changeover switch or the Control (Water Temperature) Knob.
- * **Battery Changeover Indicator**
The Indicator informs of the necessity to change the battery before it goes flat.
- * **One-touch Operation**
The unit has been designed to start and stop the flow of hot water at the touch of a button.
- * **Kitchen Shower**
The compact Kitchen Shower enables easy washing of dishes etc.
- * **Water Filter**
The unit is designed to enable you to clean the water filter by replacing it in the water pipe.

The unit incorporates a water filter on the cold water inlet.

SAFETY INFORMATION

Do not store flammable liquids on or near this water heater, keep flammable materials such as towels and curtains 1 metre away from this heater.

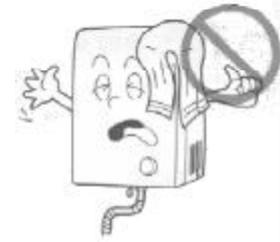


Do not leave the heater operating when the kitchen area is unattended.

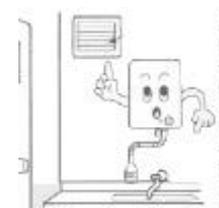
Do not cover the flue outlet.

* Covering the outlet may cause unsafe combustion or fire.

* This may cause the unsafe combustion prevention device to operate.



The room must be correctly ventilated (air supply and exhaust) when this heater is in use.



Do not use the heater for over 10 mins continuously. Where there is no ventilation, CO may be produced. Lack of ventilation may cause the unsafe combustion prevention device to put the flame out. Turn the appliance off.

Do not use this water heater in a bathroom.

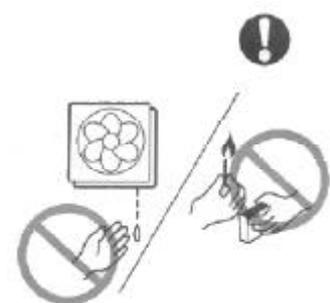
Be particularly careful to provide sufficient ventilaton. An open kerosene heater may cause the unsafe combustion prevention device to turn the heater off. Natural air (oxygen) is necessary for safe combustion.



If you suspect that there is a gas leak, turn off the gas at the main cock, ventilate the room and call your local gas supplier.

Do not search for leaks with matches or naked flames.

Do not operate electrical equipment if there is a smell of gas.



This heater is not designed to be used as a multipoint (controlled from remote water taps).

Use only with the outlet tube supplied by Rinnai.

ACCESSORIES: Do not use this water heater with any accessories, other than those supplied by Rinnai.



- You cannot use the unit if gas or water supply is interrupted.
- When the water supply is reinstated, position the control knob to “water” and , after confirming that water is running, follow the operating instructions further down this page.
- In the case of abnormal combustion, odour, or noise, stop use, close the gas valve, and refer to “Fault Finding” on page 13.
- Please ensure that the operation button is pushed to turn the unit off after use. Also close the gas valve if this heater is to be left for long periods.
- Do not use the unit except to supply hot water.
- Do not connect to a hot water supply pipe or attach a drain to the outgoing water pipe.
- Do not use for bath water, or extended periods. (The unit will turn off after 15-20mins).

CAUTION-TO Avoid Burns: After using the heater at the “BOIL” setting return the control to a lower temperature setting, this will reduce the risk of burns to the next person.

Do not touch anything apart from the control knob and changeover lever immediately after or during use as the exhaust and surrounding front cover, and ignition window are hot.

FREEZING-The water should be drained from this heater if freezing temperatures are expected.

If you are unsure about the operation of this heater, contact Rinnai or your agent.

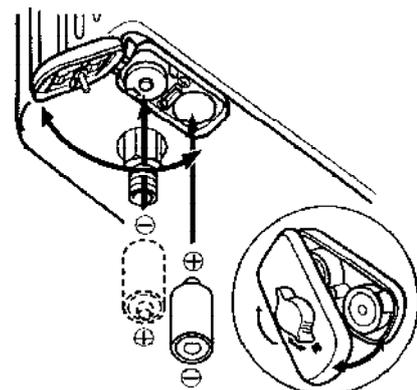
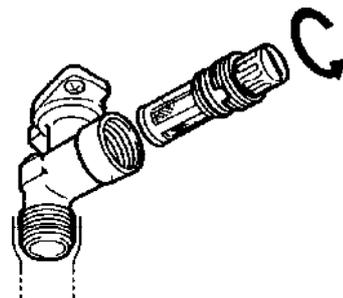
THIS APPLIANCE MUST BE INSTALLED BY AN AUTHORISED PERSON.

CUSTOMER OPERATING INSTRUCTIONS

Insert batteries as shown. Each battery should be inserted in the opposite direction. The battery case is on the bottom left of the unit. When opening or closing the battery case lid, turn the orange knob 90°.

Take care to insert the batteries correctly. (2 x 1, 1.5V)

This heater will not operate without batteries.



Check that water is available at the heater before first ignition. (Turn the control to the “cold” position and push to check water flow, then push the knob again to stop water flow, then return it to a hot water position.)

Fully open the gas valve on the unit. Do not open any other gas valve when the room’s gas valve is open.

TO TURN ON: Push the control knob. The burner will ignite and hot water will flow. Ignition can be checked in the confirmation window.

TO TURN OFF: Push the button again, and release. Gas and water will stop automatically.

If the water trickles out a few seconds after the water is turned off, it is not a fault. Face the hot water outlet pipe down so the water can flow out straight and the trickling will lessen.

TEMPERATURE CONTROL

To increase the temperature of the water, turn the control clockwise, to decrease it, anticlockwise. (The water flow will decrease as the temperature increases).

CAPACITY CHANGEOVER

When water temperature is high (in Summer etc.) turn the capacity changeover level to “low”. These will lessen gas flow and lower water temperature. When water temperature is low (in Winter etc.) turn the lever to “high”. This will increase gas flow and increase water temperature.

COLD WATER ONLY

Turn the control to the “COLD” position, and push the button. In this case, water flows without ignition. If the control knob is positioned in any other position, hot water will flow out. To stop the flow, push the button again.

BOILING WATER

Turn the control to “high” (Summer) or “high” (Winter). Use the “Summer” positioning when seasonal temperatures are high and the “Winter” positioning when seasonal temperature are low.

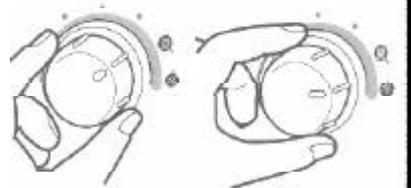
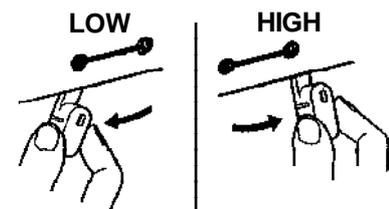
If there is too much steam, or over-boiling, turn the control back slightly.

Turn the capacity changeover lever to “high”.

In the “high” positioning the following temperatures can be reached:

“Summer”: Water temperature +=60°C

“Winter”: Water temperature +=80°C



WARNING

The plastic control adaptor helps to prevent spurting of boiling water, DO NOT remove it when using this heater for boiling water.

Do not adjust the plastic outlet tube of the heater while the water is boiling. The tube is HOT.

Return the temperature control to a lower setting after use to avoid the risk of burns.

KITCHEN SHOWER USE:

Turn the changeover switch on the shower head to ① for a straight water flow and to ② for a shower flow as shown.

Always use the straight out flow for high temperature requirements.

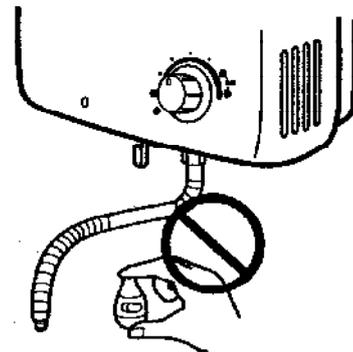
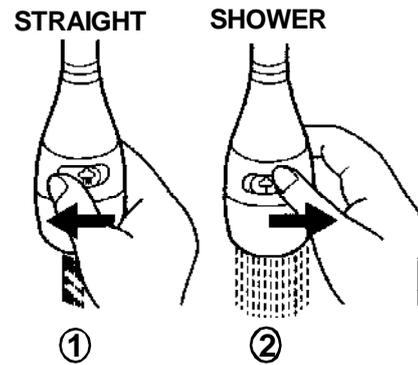
WARNING: Do not forcefully bend the shower head, it may cause leaks or a bent pipe. Do not take off the shower head for using hot water as spray may cause burns.

TO DRAIN THE HEATER

(if freezing conditions are expected).

1. Turn the water and gas off at the control valves.
2. Change the shower to the straight mode and bend the outlet tube straight.
3. Turn the temperature control to the middle "COLD" position.
4. Loosen the drain plug, then take out the water filter and drain all water.
5. Turn the control knob to cold, and leave the water valve and water filter off, until next used.

When the control knob is difficult to turn or can not be positioned to "high" it is frozen. Do not use the unit until it has defrosted. When next in use, close the drain valve and replace the filter, turn the control knob to "high", open the water valve and confirm water flow. Check that water stops when turned off. Turn the control knob to "low" and open gas valve before reusing.



MAINTENANCE AND CLEANING

Do not use harsh abrasives or solvents to clean the water heater.

Use a soft, damp cloth and neutral detergent.

Do not disassemble the safety devices or gas circuit at any time.

Checks around the unit

- Is there a smell of gas?
- Is there a water leak in the unit or connecting parts?



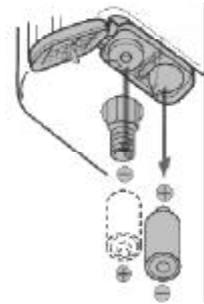
BATTERY REPLACEMENT

If the spark speed slows down, replace the batteries as shown.

(Batteries should last over a year, but this depends on the type of battery and how many times the water heater is used.)

Please use two new batteries when replacing.

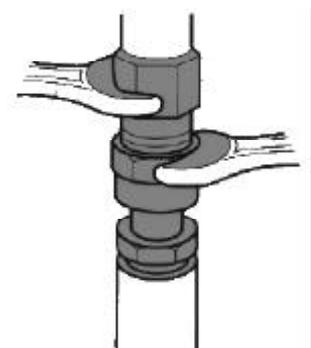
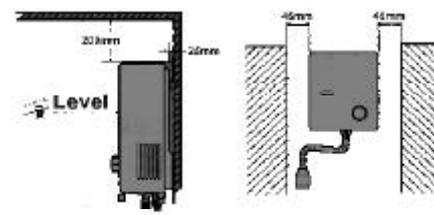
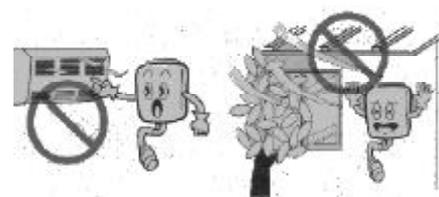
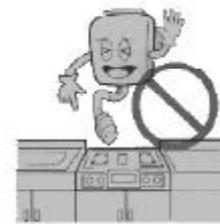
Using the wrong batteries may damage the terminals or cause batteries to leak.



INSTALLATION

This water heater must be installed by an authorised person according to regulations of the local supply authority.

1. Do not install in an area where strong chemicals such as chlorine are stored. Strong chemicals can cause damage to the heater exchanger causing the unsafe combustion prevention device to fail.
2. Do not install directly above cooking appliances.
3. Do not install in unusually draughty position. This heater is NOT designed for outdoor installation.
4. The installation must comply with all local regulations. The ventilation in the room where the heater is to be installed must comply with local regulations.
5. The heater is best installed at eye level, provided the required clearances can be maintained. Clearances shown must be maintained at all times.
6. The wall must be strong enough to support the heater (10kg).
7. Water pressure must be between 0.8kg/cm² and 5.0kg/cm²/78-490kPa.
8. Connections (Gas and Water) are R1/2" (15mm)
9. Pipe sizing and materials of gas must be correct. Check a pipe sizing chart if in doubt.
10. Ensure appliance is suitable for the available gas supply. Ensure all connections are tightened with a spanner.

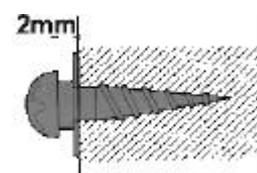


SUPPLIED IN CARTON

Outlet tube with kitchen and shower (and packing)	1
Spacing wood screw	1
Standard wood screws	2
Washers	3
Batteries	2
Customer Operating Instructions	1

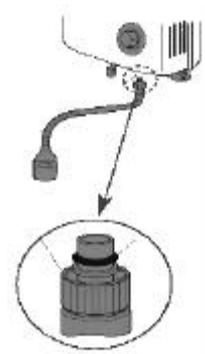
Decide on installation position, fit the spacing wood screw with washer as shown.

Hang the heater on the screw, then secure at the base with the other two wood screws.



There may be cases of colour due to the concentration of kitchen vapour changes where the unit hangs beneath painted ceilings, fluorescent lighting, cupboards etc, so attaching a heat shield is recommended.

The unit should have over 60cm clearance in front and over 45mm to the sides.



Fit water outlet to the middle bottom of the unit and tighten the nut as shown.

Clear all filings, swarf etc from both water and gas lines, then connect the water and gas. Check the unit is not too close to combustibles, nothing obstructing daily use and maintenance, that accessories have been installed correctly, and that the unit is firmly attached.

When installation is completed thoroughly test the operation of the appliance, check gas pressures and carefully leak test all gas joints using a soap and water solution. Do Not Use A Naked Flame. Refit any panels that have been removed then instruct the customer on the use and operation of the appliance.

FAULT FAILURE PROCEDURE

Should you be unable to achieve correct operation of the appliance, please contact Rinnai New Zealand Limited, your agent or gas utility.

NAME:	Single-point water heater
MODEL:	RUS-51FT
TYPE:	Wall type
IGNITION:	Battery-operated continuous electrical ignition
OPERATING SYSTEM:	One-push system
DIMENSIONS (mm):	290(W) x 132(D) x 370(H)
WEIGHT:	6.2kg
IGNITION:	Electronic multi-spark system
CONNECTION GAS:	1/2" PT}
WATER:	1/2" PT} 15A (R1/2)
HOT WATER:	Kitchen Shower (Standard Accessory)
INPUT:	MJ/h 42.0 NG, 38.0 LPG
CAPACITY TEMPERATURE:	11-80°C (rise)
VOLUME:	1.6-4.51/min
WATER VOLUME CONTROL:	Water Governor System
MIN OPERATING WATER PRESSURE:	Min 35 kPa
MAX OPERATING WATER PRESSURE:	500
ELECTRIC SOURCE:	Dry Battery (type 2 x 2 pcs.)
SAFETY DEVICE:	Tilt Switch Incomplete combustion prevention device Device to prevent unit being left on.
INJECTORS:]
GAS TYPE/TEST PRESSURE:] Please refer to Data Plate On Appliance
ACCESSORIES:	Batteries, Kitchen Shower Head (with packing), Spacing and standard Wood Screws, Washers, Operating Instructions

FAULT FINDING

Unit does not ignite when the control knob is pushed

- Push the control knob, then try pushing it again.
- There are times straight after installation, or first thing in the morning, that the unit will not ignite due to air in the gas pipes. In this case try igniting again.

Unit will not ignite. The battery replacement indicator is flashing.

- If, when you press the control knob, the battery replacement indicator lights up (it will not light up or flash when the knob is turned to "COLD"), or if instant ignition is difficult, the batteries should be replaced.

Water flow is low, and the flame fails during operation.

- When the water pressure is low, insufficient gas flows to the burner and the flame goes out. This is due to a safety feature of the appliance to avoid ignition with no water. Press the control knob and stop hot water flow. The water pressure will return to normal. Use again when water flow becomes normal. Also, when there is an interruption in water supply and red-brown water flows out, change the water filter.

THE FOLLOWING ARE NOT FAULTS

The unit makes a noise temporarily after ignition. The unit ensures ignition a few seconds after the user has pushed the knob.

Cannot ignite when the control knob is in the "COLD" position. The unit is made not to ignite cold water setting.

- If the Unit has not been used for a prolonged period.
- Clean all dirty parts and completely drain the unit of water.
- Leave the water running for a little while before using.
- Ignition may be difficult due to air in the gas pipes. In this case the ignition must be attempted until the air has been dispelled.
- Take out the batteries (battery fluid leakage may cause damage to the unit).

AFTER SALES SERVICE

Before calling for service, go through the fault finding procedure on page 13.

Have the following details ready:

Model Name and Gas Type

Model number (on data plate or service code number)

The Problem

Person Details

SAFETY FEATURES

Prevention of Unit Being Left On

If hot water is flowing continuously, the unit's flame will cut out after 15-20minutes. The water will continue to flow. Press the control knob to stop the water flow when you notice the flame has cut out.

WARNING: The air may be stale when you go to use the hot water heater again. Please change the air inside the room before using the unit again.

FLAME FAILURE DEVICE

If the burner's flame has gone out due to wind etc., the gas will automatically cut out. Press the control knob to stop the water flow when you notice the flame has cut out.

WARNING: Wait 10 minutes before using the unit again, as there may be some gas still in the unit.

Unsafe Combustion Prevention Device

The unsafe combustion prevention device will automatically turn off the appliance. This is to prevent the air quality due to lack of ventilation from reaching an unsafe level. Press the control knob to stop the water flow when you notice the flame has cut out and ventilate the room.

WARNING: Ventilate the room before using the unit again.

If there is enough ventilation but the flame cuts out, the heat exchanger may be dirty. Have the unit checked by an appropriate serviceman.

MAINTENANCE

External

Wipe the front cover with a soft cloth. If it is dirty, use a cloth with a medium strength detergent. Do not use thinner, petroleum, cleanser, or a scrubbing brush to clean the unit as it may rub off printing or labels, or cause scratching.

Internal

1. The unit should be checked regularly (about once every 2 years) to ensure long-term use.
2. An overhaul by an appropriate serviceman is recommended if the unit gets extremely dirty.
3. This unit is suitable for domestic use. If it is used heavily (eg In a cafe) ensure frequent check-ups for the unit.

If the Water Filter is blocked

If there is insufficient water flowing while the water supply valve is open, clean the filter.

1. Close the water supply valve.
2. Turn to the left to remove the water filter screw.
3. Wash with water, taking any large pieces of rubbish out by hand.
4. Replace the water filter.
5. Run the water to confirm there are no leaks.