

Models:

FM10NA

FM10LA



Gas Instantaneous Water Heater

Operation & Installation Manual

Rinnai

Congratulations on the purchase of your Rinnai Gas Instantaneous Water Heater. We trust you will have many years of comfort and enjoyment from your appliance.



BEFORE USING THIS APPLIANCE

Before proceeding with the operation or installation read this manual thoroughly and gain a full understanding of the appliance, to ensure safe and correct use.

This appliance must be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS/NZS 3500.4 & AS/NZS 5601
- Local Regulations and Municipal Building Codes including local OH&S requirements

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

For continued safety of this appliance it must be installed and maintained in accordance with the manufacturer's instructions.



This Appliance complies
with AS 3498:2009
AGA LIC. 60089



**The Australian
Gas Association**
All Rinnai gas products
are A.G.A. certified.

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WARNINGS & IMPORTANT INFORMATION



BEFORE USING THIS APPLIANCE

Before proceeding with the operation or installation read this manual thoroughly and gain a full understanding of the appliance, to ensure safe and correct use.

Always comply with the following precautions to avoid dangerous situations and to ensure optimum performance.

Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in personal injury or death.

WARNINGS: Indicates a potentially hazardous situation which, if not avoided, could result in personal injury or death.

CAUTIONS: Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury or damage to the appliance. It may also be used to alert against unsafe practices.



REGULATORY INFORMATION

Your Rinnai gas instantaneous water heater has been certified by the Australian Gas Association. The A.G.A. Certification Number is shown on the data plate.

This appliance must be installed correctly by an appropriately licensed tradesperson.

The installation of gas and water must conform to local regulations, including local OH&S requirements. The installation must also comply with the instructions supplied by Rinnai.

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.

Notice to Victorian Consumers

This appliance must be installed by a person licensed with the Victorian Building Authority. Only a licensed person will have insurance protecting their workmanship. So make sure you use a licensed person to install this appliance and ask for your Compliance Certificate.

For further information contact the Victorian Building Authority on 1300 815 127.



WARNING ABOUT HOT WATER

Hot water can cause scalding. Those most at risk are children and disabled, elderly and infirm persons.

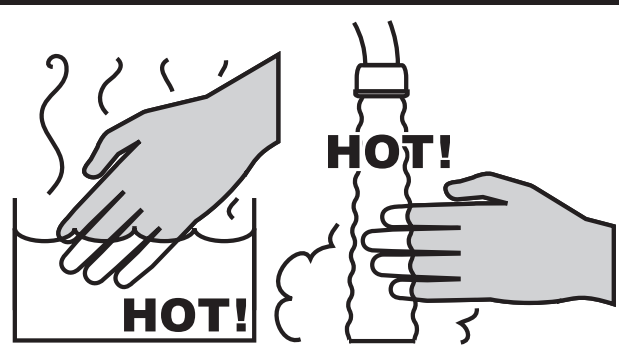
Rinnai have water heater models which limit the delivery temperature to 50°C which significantly reduces the scald hazard. Temperature limiting devices may also be able to be fitted. Contact Rinnai for further information.

ALWAYS test the water temperature before use, such as when filling a bath or basin or entering a shower, to ensure it is suitable for the application and will not cause scald injury.

ALWAYS supervise children whenever they are in the bathroom or near other sources of hot water. Ensure any hot water taps are closed firmly after use.



DANGER BEWARE OF SCALDING HAZARDS





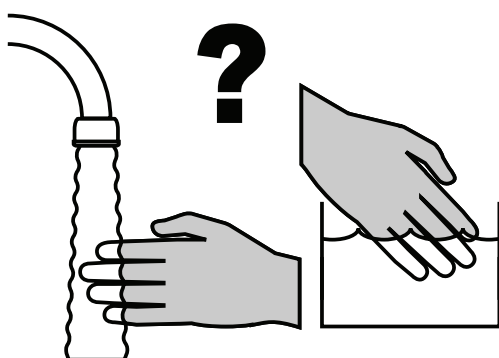
MANDATORY INSPECTION PRIOR TO INSTALLATION

Immediately report any damage or discrepancies to the Supplier of the appliance. This appliance was inspected and tested at the time of manufacture and packaging, and released for transportation without known damage. Upon receipt, inspect the exterior for evidence of rough handling in shipment. Ensure that the appliance is labelled correctly for the gas and electrical supply, and/or other services it is intended to be connected to.

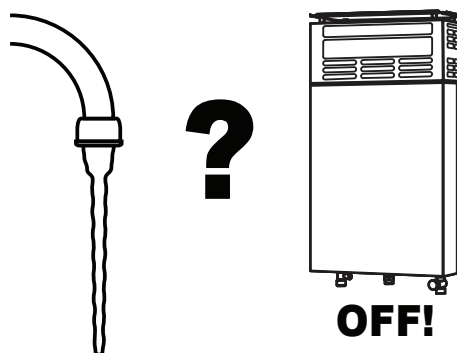
For safety and warranty purposes, appliances that may be damaged or incorrect must not be installed or operated under any circumstances. Installation of damaged or incorrect appliances may contravene local government regulations. Rinnai disclaims any liability or responsibility whatsoever in relation to the installation or operation of damaged or incorrect appliances.



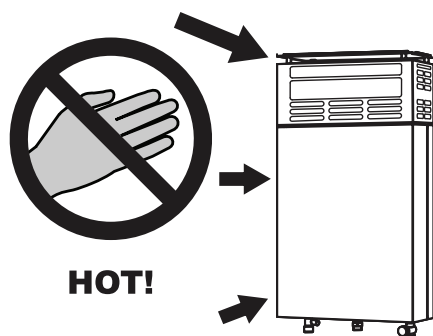
The range of Rinnai gas instantaneous water heaters referred to in this manual are incompatible with solar water heating systems. A dedicated range of solar compatible gas continuous flow water heaters is available from Rinnai.



Always check water temperature carefully before use. Refer to the **"WARNING ABOUT HOT WATER"** on page 4 for important safety information.



At low water flows, the hot water unit may extinguish without warning. Opening the tap further will restart the heating appliance.



DO NOT touch the unit cover or the flue outlet.
DO NOT insert objects into the flue outlet.
DO NOT spray water directly into the flue outlet.
 Keep, trees, shrubs, etc. well clear of the flue outlet.
 On colder days steam may discharged from the flue outlet. This condition is normal for high efficiency appliances and does not indicate a fault.



DO NOT Spray aerosols in the vicinity of this appliance while it is in operation.
DO NOT use or store flammable materials in or near this appliance.
DO NOT place articles on or against this appliance.
DO NOT modify this appliance.
DO NOT store pool chemicals near this appliance.

FEATURES AND BENEFITS

FEATURES & BENEFITS

Congratulations on purchasing the Rinnai Gas Instantaneous water heater.

- The appliance is compact, saving both wall and floor space.
- The burner lights automatically when the hot water tap is opened, and goes out when the tap is closed. IGNITION IS ELECTRONIC rather than by pilot light for optimum reliability and minimum running costs. When the hot water tap is closed no gas is used.
- The appliance has a very high gas combustion efficiency minimising gas consumption and operating cost.
- Operating noise level is very low.

Unlike most other instantaneous water heaters, this model is fitted with a battery powered electronic ignition and microprocessor control module offering unique benefits as follows:

- Electronic ignition rather than ignition by pilot light ensures optimum reliability and minimum running costs as no gas is used when the hot water tap is closed.
- The water temperature and gas flow are microprocessor controlled offering superior performance.
- Battery power ensures optimum reliability and eliminates the need for a mains power supply and associated costs.

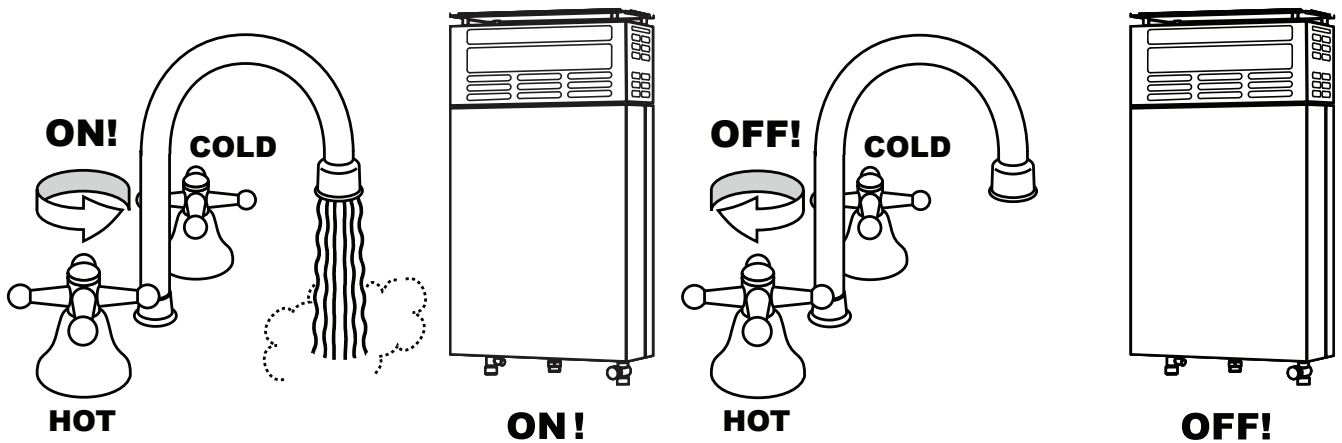
Unlike most other instantaneous water heaters, this appliance also has a modern state of the art flue design for reliable operation even under high wind conditions.

TO OPERATE

The opening of any hot water tap will automatically start the appliance.

Once water is flowing through the appliance the burner will be ignited by electronic ignition via the electronic ignition and control module.

When the hot water tap is closed and water flow through the appliance has stopped the burner flame will extinguish.

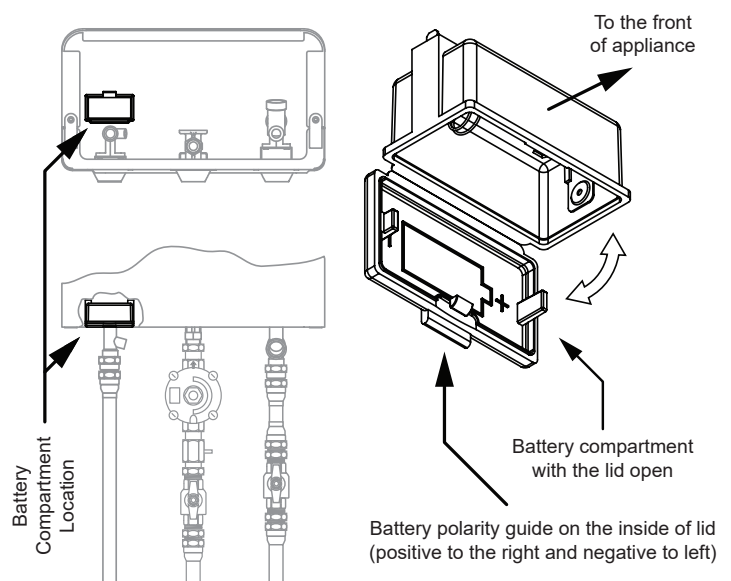


Battery for electronic ignition and control module

A long life 1.5 Volt "D" size battery is supplied with the appliance and should have been fitted by your installer.

If the battery runs flat, replace it with a new 1.5 Volt "D" size battery. Long life batteries are recommended. The battery compartment is located on the left hand side at the bottom of the appliance. Approximate battery life is 6 to 12 months. Actual battery life may be different depending on individual hot water usage patterns.

1. Locate the battery compartment and open the hinged lid (opens towards the rear of appliance).
2. Remove the expired battery and replace it with a new battery ensuring that the correct polarity is observed, as is shown on the inside of the battery compartment lid.
3. Close the battery compartment lid.



DELIVERY TEMPERATURE

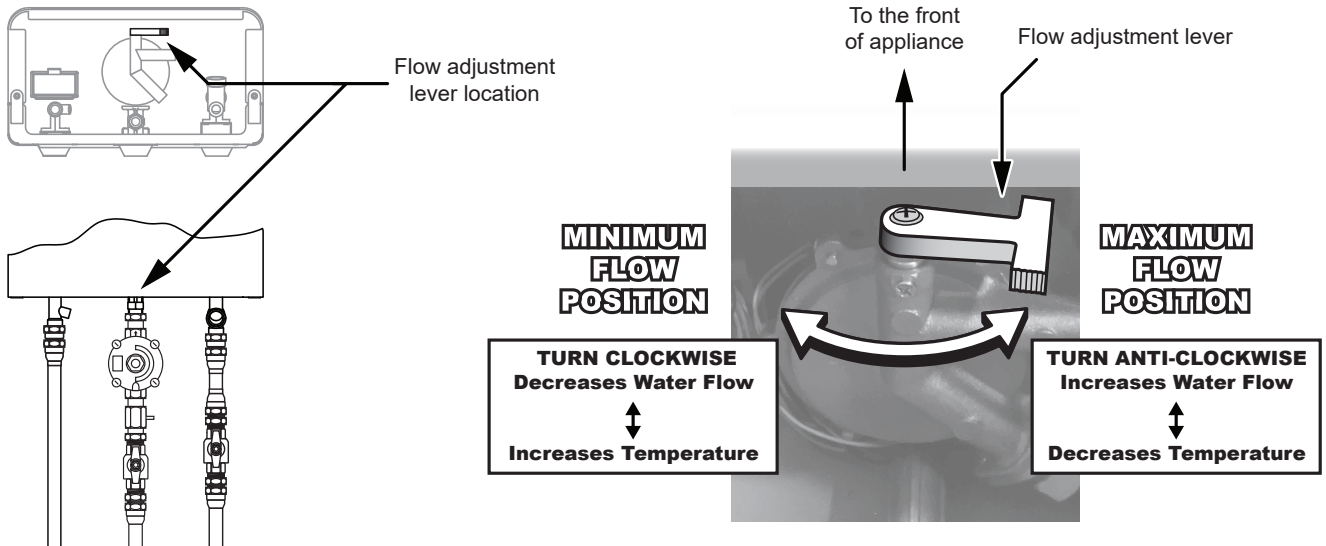
The delivery temperature set point programmed into the electronic ignition and control module is 60°C.

The actual delivery temperature may be lower depending on the prevailing operating conditions, for example, low incoming cold water temperatures and high water flow rates.

WATER FLOW AND TEMPERATURE ADJUSTMENT

Water fixtures with a rated water flow rate of 7.5 litres per minute or higher are recommended.

A water flow adjustment lever is fitted to adjust the maximum water flow from the appliance. Such adjustment may be useful to compensate for seasonal variations in the temperature of the cold water supply.



- Turning the water flow adjustment lever towards the left (Clockwise) will decrease the water flow and increase the hot water temperature. This setting is recommended during winter.
- Turning the water flow adjustment lever towards the right (Anti-clockwise) will increase the water flow and decrease the hot water temperature. This setting is recommended during summer.
- If the heated water temperature delivered from an outlet is not hot enough it can normally be increased to the desired temperature by closing the tap a little as this will reduce the water flow rate.
- The appliance has a minimum water flow rate that is required for operation. If the water heater does not activate when opening a tap, the flow rate may be too low. Open the tap a little more to increase the water flow rate.

FREEZING WEATHER



This water heater MUST NOT be installed in areas where the temperature remains below 0°C for extended periods.

If freezing conditions are expected (drop below 0°C), turn off water and gas and drain all water from the appliance to prevent damage by expansion of freezing water.

For appliances installed in locations where the temperature falls below 0°C for short periods, the installation of an Anti Freezing Relief Valve (Exogel or equivalent brand) will minimise the possibility of damage to the appliance. This is not supplied with the water heater.

TROUBLE SHOOTING

FAULT FINDING

Problem	Fault	Solution
Burner does not ignite, or is difficult to ignite	No gas supply	Check gas is turned on at water heater and gas meter or cylinder
	Low battery power	Replace battery
	Other	Service Call
Pilot lights but no main burner	Low water pressure	Check water pressure
	Low battery power	Change battery
	Run out of cylinder gas	Replace gas cylinder
	Other	Service call
Low water temperature	Low gas pressure	Check gas pressure. To be carried out by an authorised person only
	Run out of cylinder gas	Replace gas cylinder
	Excessive water flow rate	Reduce water flow from heater (Turn water lever clockwise)
	Other	Service Call
Low water flow	Low water pressure	Check water pressure to appliance
	Blocked outlet fixture	Check and clean
	Other	Service call
Cuts off when operating	Interrupted gas supply	Service call
	Run out of cylinder gas supply	Replace gas cylinder
	Other	Service call
Smell gas	Faulty / loose gas connection	Service call
Water leakage from appliance	Damaged components and connections	Service call
	Frost damage	Service call
Water leakage from pressure relief valve	Excessive pressure	Check water supply pressure
	Faulty pressure relief valve	Service call

MAINTENANCE

Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your appliance. If your appliance requires service, please call our National Help Line. Rinnai recommend that the appliance be serviced by an authorised person every 3 years.

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GENERAL INSTALLATION INFORMATION



Installation, service and removal **MUST BE** by an appropriately licensed tradesperson **ONLY**.

It is the installer's responsibility to ensure all current AS/NZS 5601 requirements are met.

Remove transit protection. Check for damage, if any is found **DO NOT** install and contact supplier.

REGULATIONS

This appliance must be installed in accordance with:

- Current AS/NZS 3500.4 and AS/NZS 5601
- Rinnai Installation Instructions
- Local regulations and municipal building codes including local OH&S requirements

The Authorised Person performing the installation is responsible for:

1. Correct commissioning of the appliance.
2. Ensuring the appliance performs to the specifications on the dataplate.
3. Demonstrating the operation of the appliance to the customer, including water flow rate adjustment.
4. Demonstrating the location of the battery compartment and how to replace the battery.
5. Advising the customer of the need for regular servicing (Rinnai recommends servicing every 2 years).
6. Handing these instructions to the customer.

APPLICABLE MODELS

These Installation Instructions apply only to the Rinnai gas instantaneous water heater models that are listed on the cover page of this manual.

UNPACKING THE APPLIANCE

Packed with the appliance should be the Operating / Installation Manual, Commissioning check list, Warranty booklet, Gas adaptor with washer, Gas regulator, Regulator inlet pressure testing point, Battery and Heat shield kits. Remove all packaging and protective materials from the appliance and accessories. If any damage is evident or any accessories are missing DO NOT install or operate the appliance. Contact your supplier for advice.

APPLIANCE LOCATION

- This appliance is designed for 'Outdoor' Installation only. As such, it **MUST BE** located in an above ground open air situation with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection.
- This appliance **MUST BE** mounted on a vertical structure with the water and gas connections on the underside pointing downwards. For appliances installed on elevated structures or under floors specific requirements apply. Refer to AS/NZS 5601 for details.
- This appliance **MUST NOT** be used as a domestic spa, swimming pool heater or as part of a solar hot water system.
- This appliance **MUST BE** placed as close as practicable to the most frequently used hot water outlet or outlets to minimise the delay time for hot water delivery.
- All appliances must be installed to ensure access can be gained without hazard or undue difficulty for inspection, repair, renewal or operational purposes. Sufficient clearances shall allow access to, and removal of, all serviceable components.
- Appliances should not be mounted higher than 2.5 metres above the ground or floor level unless the customer can arrange permanent and safe access or can provide another means of access, for example, by means of scissor or boom lifts acceptable to local authorities.

PIPE SIZING

- See Table 1 (Specification table) for appliance gas consumption. If the gas pipe sizing is insufficient the customer will not get the full performance benefit. Gas pipe sizing must consider the gas input to this appliance as well as all the other gas appliances in the premises. The gas meter and regulator must be specified for this gas rate. An approved sizing chart such as the one in AS/NZS 5601 should be used.
- Water pipe sizing and layout should be performed in accordance with AS/NZS 3500.4. All hot water pipe-work should be insulated to optimise performance and energy efficiency.

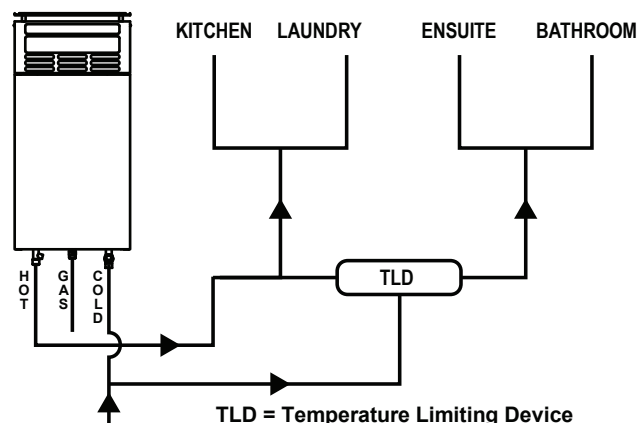
WATER SUPPLY

See "Table 1. Appliance Specifications" on page 18, for applicable water pressures. Approved pressure limiting valves may be required if the 'Maximum' rated water supply pressures in Table 1 are exceeded. To achieve the rated flow, the 'Minimum' water supply pressures in Table 1 must be supplied. The water heaters will operate at lower pressures but will not achieve the rated flow.

Water chemistry and impurity limits are detailed in the separate Warranty booklet. Most metropolitan water supplies fall within the requirements. If you are unsure about your local water quality, contact your water authority. If sludge or foreign matter is present in the water supply, a suitable filter or strainer should be incorporated in the water supply to the water heater.

HOT WATER DELIVERY TEMPERATURE

- The delivery temperature set point programmed into the electronic ignition and control module is 60°C. The actual delivery temperature may be lower depending on the prevailing operating conditions, for example, low incoming cold water temperature and high water flow rate.
- Local regulations and/or the requirements of AS/NZS 3500.4 must be considered regarding the temperature limitations of hot water supplied to areas used primarily for personal hygiene. The temperature of water to these areas may be limited to 50°C or less. This can be achieved by the use of a Temperature Limiting Device (TLD). Installation with a TLD is to be in accordance with the diagram right.



APPLIANCE MOUNTING REQUIREMENTS

- See "Table 1. Appliance Specifications" on page 18 for individual appliance weights. The wall or structure on which the appliance is to be mounted must be capable of supporting these weights and that of the associated pipe-work.
- Ensure that suitable fixing screws or bolts are used to secure the unit to the wall; in accordance with AS/NZS 5601. Wooden Plugs **MUST NOT** be used.
- The appliance can be mounted directly against a wall or structure, however it is **MANDATORY** that the provided heat shield is fitted.



To meet the temperature hazard protection requirements of AS/NZS 5601, fitting of the provided heat shield is **MANDATORY**.

Refer to "Appliance Mounting Method" on page 14 for instructions of how to mount both the water heater and the provided heat shield.

APPLIANCE MOUNTING METHOD

1. After determining the desired location for the water heater, use the dimensions in the drawing right to measure and mark off the positions of the 3 appliance mounting points (A) and the 4 heat shield mounting points (B).
2. Install 3 suitable screws or bolts at the 3 appliance mounting points (A).



1mm



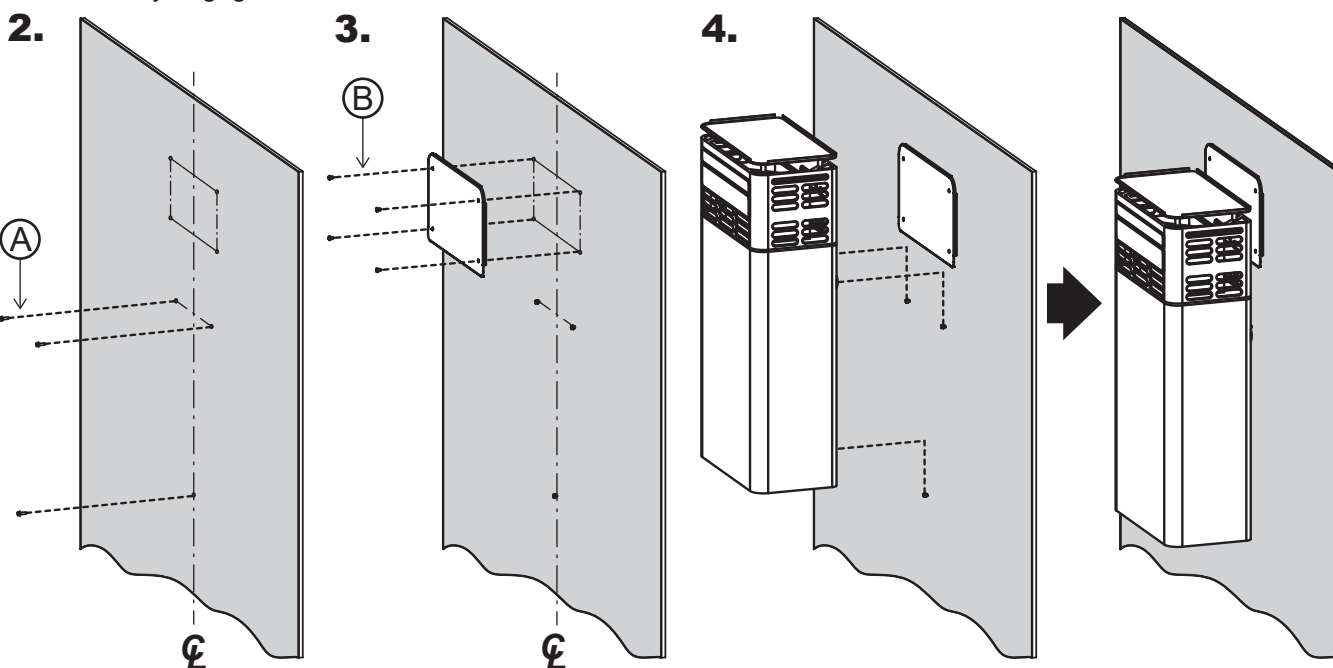
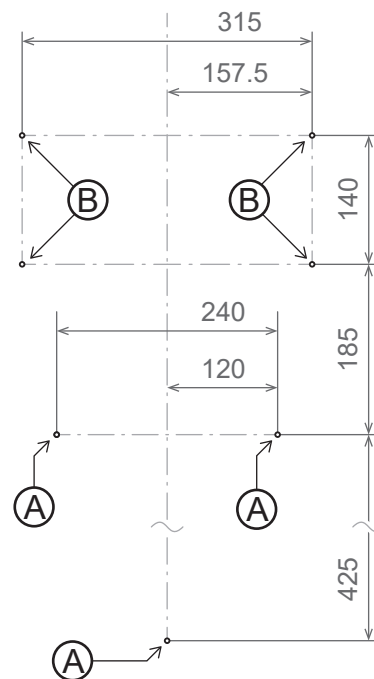
Ensure to leave at least a 1mm gap between the inner face of the fixing and the wall. This gap is necessary as it will facilitate the correct mounting of the water heater in step 4.

3. Using suitable fixings secure the heat shield flush onto the wall at the 4 heat shield mounting points (B).



The heat shield is to be mounted with the more rounded corners facing upwards and with the folded tabs facing the wall's surface.

4. Using the keyed mounts points, hang the water heater onto the 3 appliance mounting fixings installed in step 2. Ensuring that all 3 mounting points are securely engaged.

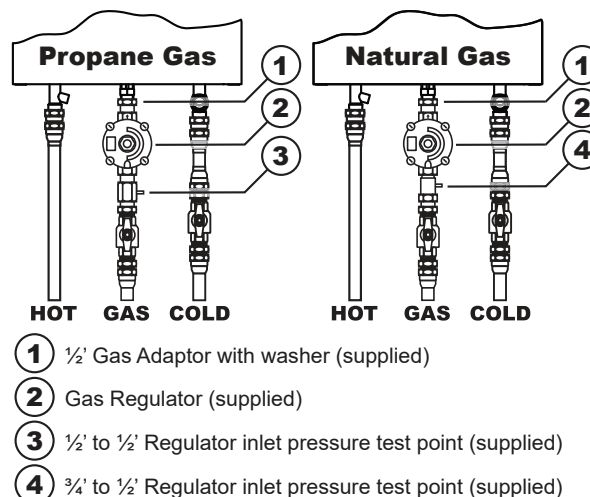


SERVICE CONNECTION POINTS

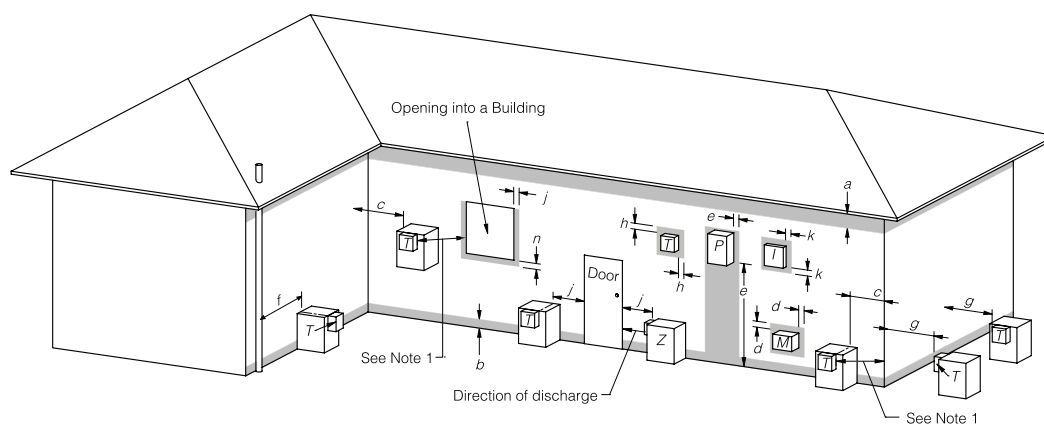


See Table 1, (Specification table) for individual appliance connection / fitting dimensions. These dimensions are NOT an indication of the pipe sizes required.

- An approved full flow isolation valve and disconnection union **MUST** be fitted to the cold water inlet.
- A non return valve is not required unless required by local regulations. Isolation valves **MUST NOT** be fitted directly to the appliance.
- Purge gas and cold water supply lines to remove air and swarf before final connection of the appliance. Swarf in either the gas or water supplies may cause damage or malfunction. These are not covered by warranty.



APPLIANCE FLUE TERMINAL



T = Flue terminal Z = Fan assisted flue appliance only M = Gas meter P = Electricity meter or fuse box I = Mechanical air inlet

Shading indicates prohibited areas for flue terminals

Ref.		Min clearances mm
		Natural draught
	Below eaves, balconies and other projections:	
a	For appliances up to 50 MJ/h input	300
	For appliances over 50 MJ/h input	500
b	From the ground, above a balcony or other surface *	300
c	From a return wall or external corner *	500
d	From a gas meter (M) (see Note 5) (see Clause 5.11.5.9 for vent terminal location of regulator) (see Table 6.7 for New Zealand requirements)	1 000
e	From an electricity meter or fuse box (P) [†] (see Note 5)	500
f	From a drain pipe or soil pipe	150
g	Horizontally from any building structure * or obstruction facing a terminal	500
h	From any other flue terminal, cowl, or combustion air intake *	500
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
	Appliances over 150 MJ/h input up to 200 MJ/h input*	1 500
	Appliances over 200 MJ/h input up to 250 MJ/h input*	1 500
	Appliances over 250 MJ/h input*	1 500
	All fan-assisted appliances, in the direction of discharge	—
k	From a mechanical air inlet, including a spa blower	1 500
n	Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:	
	For space heaters up to 50 MJ/h input	150
	For other appliances up to 50 MJ/h input	500
	For appliances over 50 MJ/h input and up to 150 MJ/h input	1 000
	For appliances over 150 MJ/h input	1 500

* Unless appliance is certified for closer installation.

[†] Prohibited area below electricity meter or fuse box extends to ground level.

NOTES:

- Where dimensions c, j or k cannot be achieved an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.
- See Clause 6.9.4 for restrictions on a flue terminal under a covered area.
- See Figure J3 for minimum clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.
- For minimum clearances not addressed above acceptance should be obtained from the Technical Regulator.
- Minimum clearances d and e also apply to any combustion air intake openings of appliances.

FIGURE 6.2 (in part) LOCATION OF FLUE TERMINALS OF BALANCED FLUE, ROOM-SEALED, FAN-ASSISTED OR OUTDOOR APPLIANCES

COMMISSIONING

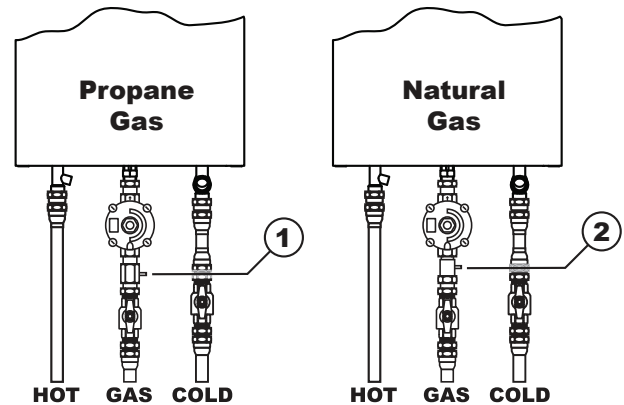
TESTING

1. Before final connection of the water heater purge gas, hot water and cold water supply lines. Swarf in either the gas or water supplies may cause damage or malfunction which is not covered by warranty.
2. See Table 1 for connection size, water and gas pressure specifications.
3. Turn on gas and cold water supplies.
4. Test for water leaks and gas escapes.
5. Isolate gas and water supplies. Remove test point screw located on the regulator inlet pressure test point and attach pressure gauge Fig. 1.
6. Turn on gas and open hot water taps fully. Ensure water flow lever is in the maximum flow position. Refer to "Water Flow and Temperature Adjustment" on page 8.
7. With all gas appliances in operation at maximum gas rate, the pressure at the regulator inlet pressure test point should read between 1.13 - 3.0 kPa on Natural Gas. On LPG the pressure should be 2.75 - 3.0 kPa. If the pressure is lower, the gas supply is inadequate and the appliance will not operate to specification. It is the Installers responsibility to check the gas meter, service regulator and pipe work for correct operation/ sizing and rectify as required.



If the sparker activates but the pilot and main burner do not light, then the gas pressure at the outlet of the regulator is too low.

Increase the pressure at the outlet of the regulator by slowly turning the adjustment screw clockwise until a suitable pilot flame and main burner flame are established.



- 1 Propane gas regulator inlet pressure test point screw
- 2 Natural gas regulator inlet pressure test point screw

Fig. 1.

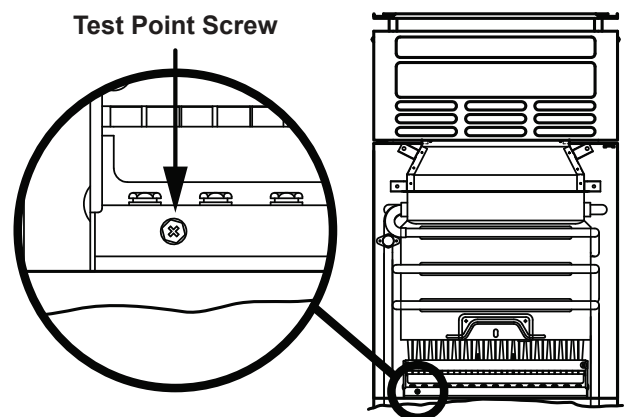


Fig. 2.

8. Replace the test point screw on the regulator inlet pressure test point.
9. Isolate gas and water supplies. Remove the test point screw located to the burner pressure test point on the left hand side of burner manifold as shown right and attach pressure gauge Fig. 2
10. Turn on the gas and open hot water taps fully. Ensure the water flow lever is in the maximum flow position.
11. For burner test point pressures refer to the appliance data plate. If the pressures are different adjust the inlet gas regulator to achieve the required burner test point pressures.
12. Close all hot water taps including the shower.
13. Inspect and clean the strainer located on the cold water inlet connection. This procedure may need to be repeated to ensure the strainer remains clear, especially on new installations Fig. 3.
14. After testing is completed, explain to the householder the functions and operation of the water heater.

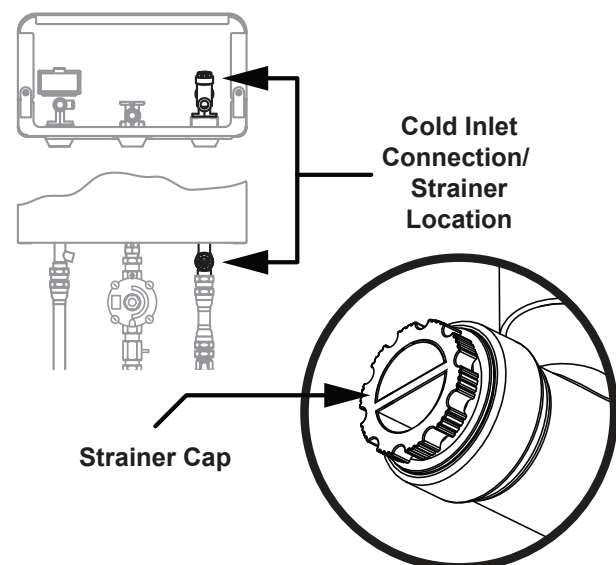


Fig. 3.

COMMISSIONING CHECK LIST

A commissioning check list is provided on the appliance front cover to enable the installer to step through the correct commissioning procedure when installing a Rinnai water heater.

The check list can also assist the installer to identify potential installation errors that may prevent the appliance from operating correctly.

INSTALLATION RECORD

The Installation Record is a reference for the end user, help line staff and service technicians. Ensuring that this information is available here will be helpful in the event that a service enquiry is required.

Installer Details

Installation Company Name: _____

Address: _____

Telephone / Mobile Phone: _____ / _____

Email: _____

Certificate of Compliance / Certification No.: _____

Authorised Persons - Licence No.: _____

Installers Name: _____

Installers Signature: _____

Installation Date: _____

System Details

Water Heater - Model Number *: _____

Water Heater - Serial Number *: _____

** This information will need to be copied from the data plate, located on the left hand side of appliance.*

Installation Address: _____

SPECIFICATIONS

Table 1. Appliance Specifications

Model	Water Supply kPa			Weight kg	Fittings		
	Minimum Inlet Water Pressure For 10L/min.	Minimum Inlet Water Pressure For Operation	Maximum Inlet Water Pressure		Hot & Cold Water	Natural Gas	Propane Gas
FM10	120	40	1000	14	R 1/2" BSP Male	R 1/2" BSP Female	R 1/2" BSP Male

Model	Gas Type	Inlet Gas Pressure kPa	Burner TPP kPa	Nominate Gas Consumption MJ/h	Heating Capacity at 25°C rise
FM10NA	NG	1.13	0.69	76.2	10 L/min
FM10LA	Propane	2.75	2.38	76.0	

APPLIANCE DIMENSIONS

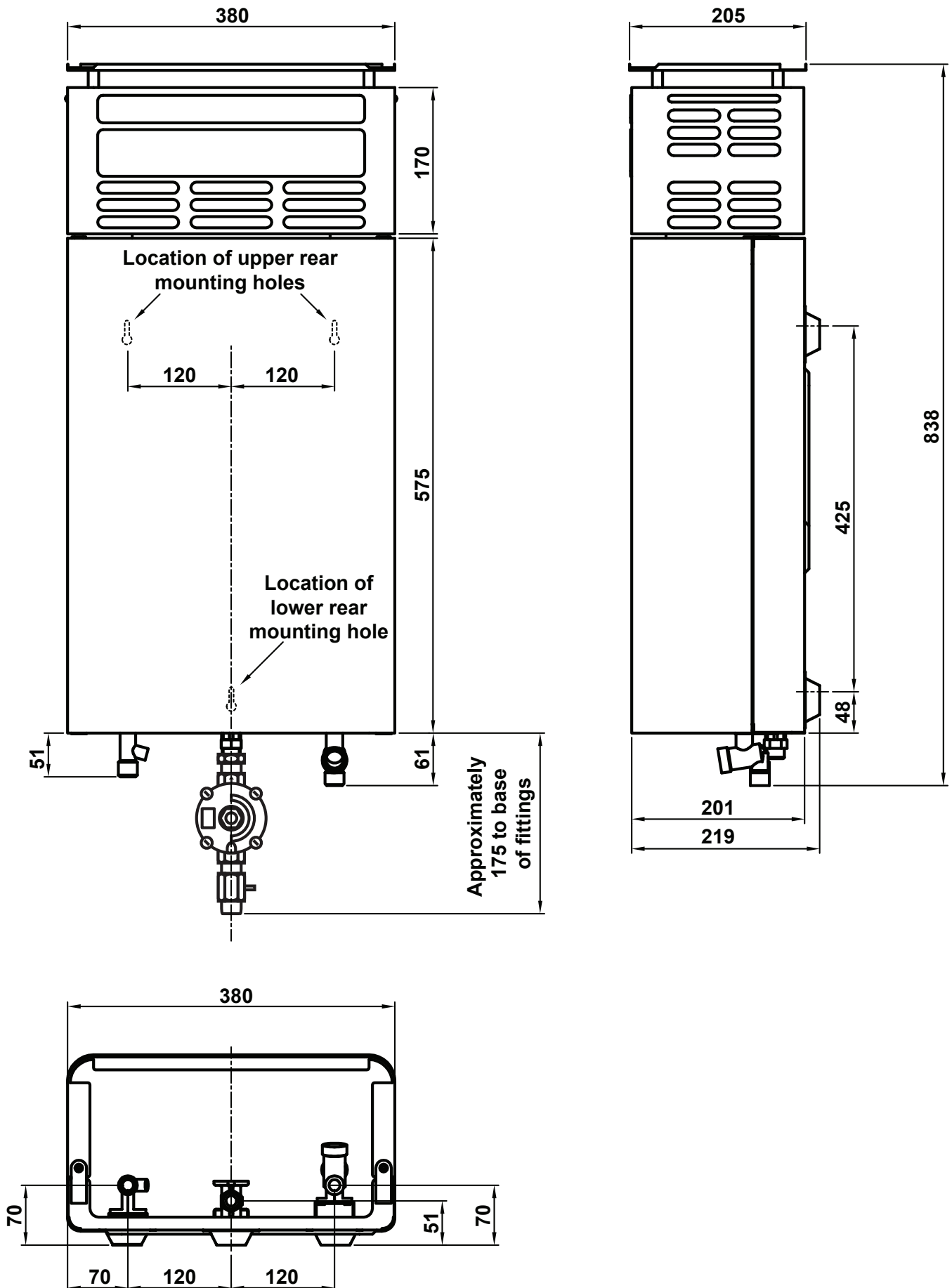
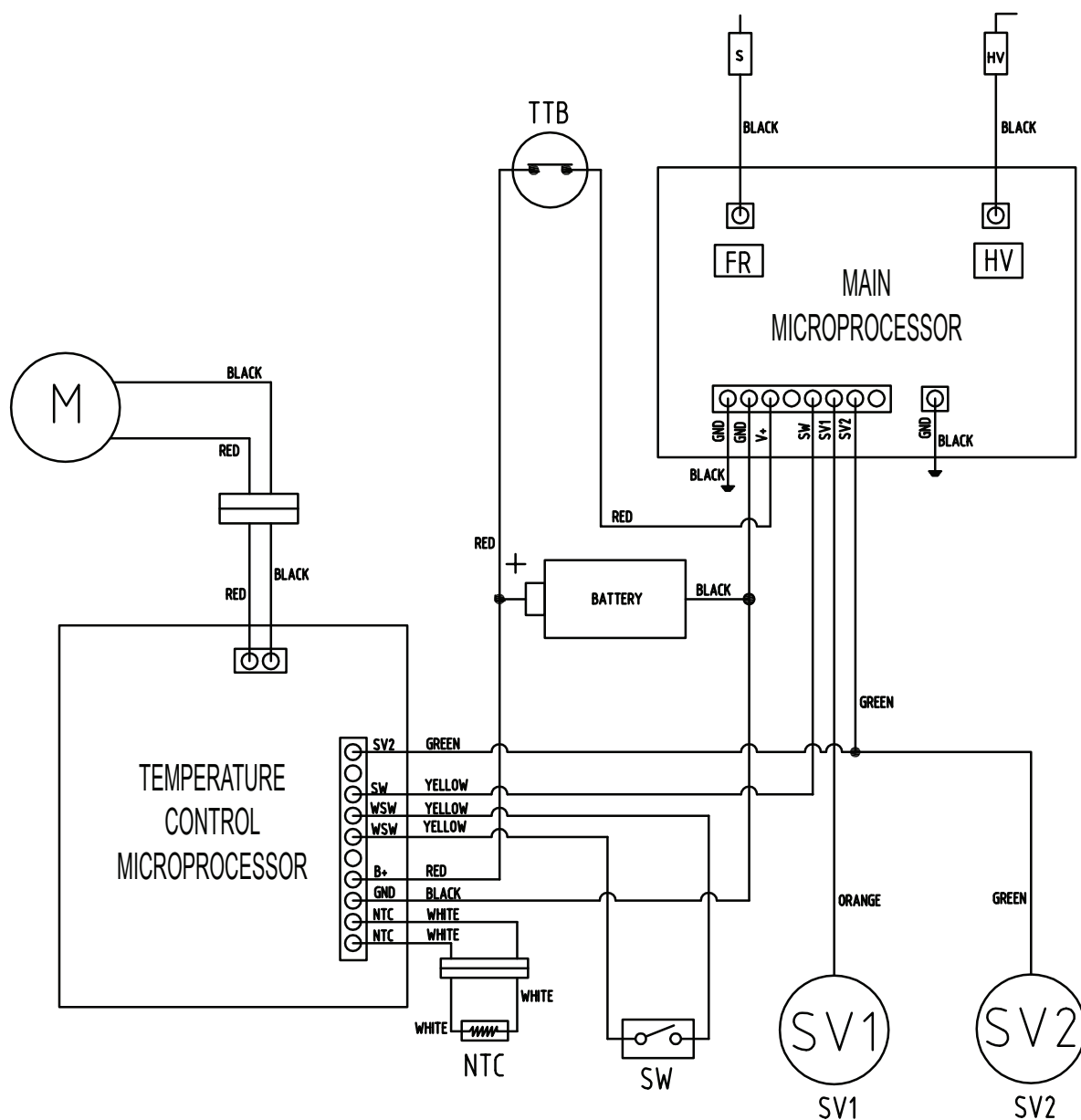


Figure 4. Dimensions

WIRING DIAGRAM



SV1	Solenoid Valve 1
SV2	Solenoid Valve 2
HV	High Voltage Lead (Ignition)
FR	Flame Rod
TTB	Temperature Overheat Switch (Self-resetting)
M	Modulation Motor
NTC	Thermistor (Heated water outlet temperature)
SW	Micro-switch

Figure 5. Dimensions

NOTES





Rinnai Australia Pty Ltd

ABN 74 005 138 769 | AU24752

100 Atlantic Drive, Keysborough, Victoria 3173
P.O. Box 460, Braeside, Victoria 3195
Tel: (03) 9271 6625
Fax: (03) 9271 6622

National Help Line

Tel: 1300 555 545* Fax: 1300 555 655
Monday to Friday, 8.00 am to 5.00 pm EST.

After Hours Hot Water Service Line

Tel: 1800 000 340*

**Cost of a local call higher from mobile or public phones.*

For further information visit **www.rinnai.com.au**
or email **enquiry@rinnai.com.au**

Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires service, please call our National Help Line. Rinnai recommends that this appliance be serviced every 3 years.

With our policy of continuous improvement, we reserve the right to change, or discontinue at any time, specifications or designs without notice.