



RINNAI INFINITY SOLAR - ADDENDUM

For all Rinnai continuous flow water heaters used in a solar installation the following information shall apply. This information should be used in conjunction with the operation and installation manual to ensure correct installation.

Due to the different application use and setup required there are different terms governing Rinnai Infinity Solar use and warranty. These are detailed in this addendum.

Limited Warranty - Rinnai Solar

Extended Warranty for Rinnai Infinity Solar Heat Exchanger

The parts warranty on heat exchangers in Rinnai Infinity Solar installed for domestic use is 10 years pro rata (i.e. in the 4th year, 70% of the value of the part is covered by the warranty and 40% of the value of the part is covered by warranty in the 7th year).

For Rinnai Infinity Solar units installed for commercial use the parts warranty for the heat exchanger is 5 years pro rata (i.e. in the 4th year, 40% of the value of the part is covered by the warranty and 20% of the value of the part is covered by warranty in the 5th year).

This warranty is subject to Terms and Conditions below.

All other parts and labour for Rinnai Infinity Solar are covered for 3 years in accordance with the Terms and Conditions below.

Rinnai Infinity Solar is under warranty for solar installations only. If used for any other purpose the warranty is void.

Domestic vs. Commercial Application

The reason for distinguishing between domestic and commercial application is because of the expected life of a system is directly related to the hours of use.

A domestic application is defined as an installation that serves a single residential dwelling which is not used for commercial purposes, such as a hair salon, catering kitchen, motel or communal care facility.

All other installations are defined as a commercial application.

Limited Warranty - Rinnai Solar

Rinnai Solar Infinity Warranty - Terms and Conditions

1. During the warranty period and subject to clauses 2 and 3 below, Rinnai will, at its own discretion, either replace or repair any defective product at no charge to the customer.
2. The warranty covers manufacturing defects only. This warranty will not apply (for example) if the Rinnai Solar Infinity has been improperly installed or is otherwise installed contrary to manufacturer's recommendations, has been damaged during or after installation, or has been subject to abuse beyond that expected from conditions of normal use.
3. Warranty claims may be invalid if not accompanied by details of the installing or supervising gas fitters registration number and the gas fitting certification number.
4. This warranty commences from date of installation. Proof of purchase is required at the time of the warranty claim.
5. Servicing of the Rinnai Solar Infinity is to be carried out by a Rinnai authorised service centre.

Water Quality for Rinnai Solar Infinity

Water quality outside the maximum recommended limits (as set down below) will void this warranty. Water quality tests must be carried out at the customer's own cost but Rinnai will reimburse any reasonable test costs if the product is found to be defective.

Water chemistry and impurity limits are detailed in the table below. Most metropolitan water supplies fall within these requirements. If you are unsure about water quality, contact your water authority. If sludge or foreign matter is present in the water supply, a suitable filter should be incorporated in the water supply.

TDS (Total Dissolved Solids)	Total Hardness CaCO ₃	Alkalinity (as CaCO ₃)	Dissolved (free) CO ₂	pH	Chlorides	Magnesium	Sodium	Iron	Langelier Index
Up to 600 mg/L or ppm	Up to 200 mg/L or ppm	Up to 200 mg/L or ppm	Up to 25 mg/L or ppm	6.5 to 8.5	Up to 300 mg/L or ppm	Up to 10 mg/L or ppm	Up to 150 mg/L or ppm	Up to 1 mg/L or ppm	Between -1.0 and 0.8

Some examples of water quality issues where the water may need to be treated:

- Hard water (Wanganui)
- Aggressive water (some areas of Christchurch)
- Both hard and aggressive water (some bore water)

Warning about hot water



This appliance produces very hot water at 75 °C and is not suitable for use with remote controllers. The household water supply MUST be protected by a suitable tempering valve.

Recommended System Layout

Rinnai Infinity Solar continuous flow models are suitable only for installation as gas boosters in solar hot water systems. These models produce water at higher than normal temperatures and must be connected to the hot water supply by use of a suitable tempering valve.

Installation

Install a Rinnai continuous flow water heater using a flow diversion valve as shown below. The water heater must be set to 75 °C.

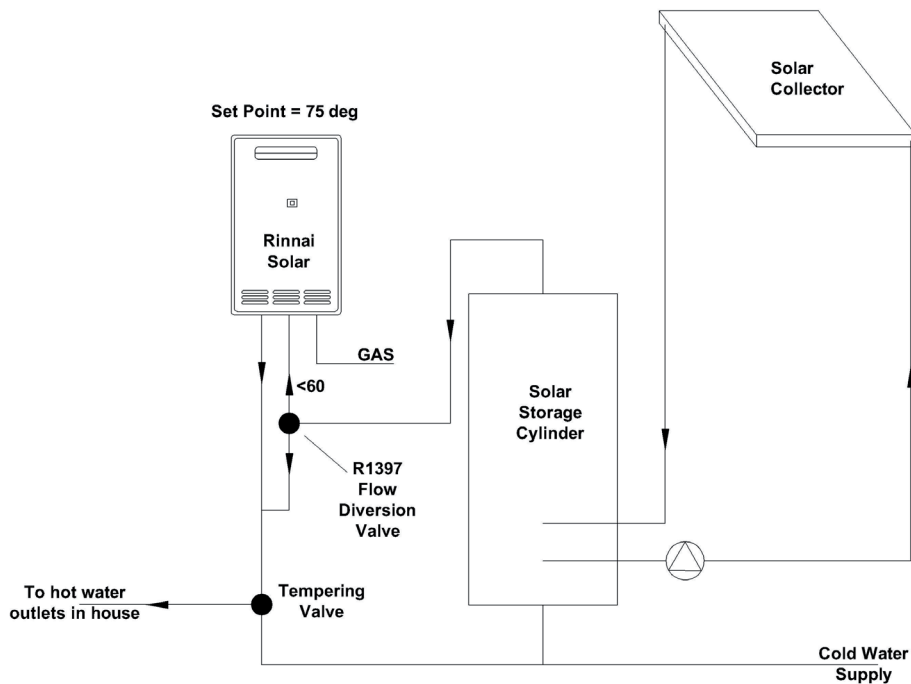
All Rinnai Infinity Solar units come packed with a flow diversion valve and a dipswitch preset to the required 75 °C. Remember 'B to Boiler' when setting up the flow diversion valve.

Rinnai water controllers cannot be used with Rinnai Infinity solar units as the:



- Hot water does not always pass through the Rinnai Infinity
- Rinnai Infinity preset dip switch setting of 75 °C is unable to be adjusted

Recommended system layout using a Rinnai Infinity Solar and Flow Diversion Valve



Flow diversion valve is supplied with the Rinnai continuous flow water heater

Configuring system to protect for Legionella

If the system is configured according to the details above it will meet the requirements of the Acceptable Solution G12/AS2 for protection against Legionella. This states that "the instantaneous water heater must heat all water passing through it to not less than 70 °C".

Rinnai

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All Rinnai appliances meet or exceed the safety standards required by New Zealand gas and electrical requirements.

Rinnai is constantly improving its products and as such specifications are subject to change or variation without notice.