

HydraHeat™ Hot Water Heat Pump Product technical statement

A product technical statement is a way to show how a product or system is fit for purpose for use in New Zealand and to demonstrate compliance with the New Zealand Building Code (Building Code Amendment Act 2013).

Product description

The Rinnai HydraHeat™ is an integrated hot water heat pump made of a heat pump unit installed on top of a 275 L mains pressure enamel storage cylinder. The heat pump uses R290 refrigerant (150 g), an efficient refrigerant that has a lower Global Warming Potential (GWP).

The HydraHeat™ is designed in New Zealand. It consists of a head unit manufactured in New Zealand and a storage cylinder manufactured in China.

The Rinnai HydraHeat is factory preset to 'Standard' mode—continually heating water to 60 °C.

The system is provided as two separate components. The storage cylinder, with left or right handed plumbing connections, can be purchased on its own, with the purchase and addition of the head unit at a later stage.

Scope of use

Designed for residential and smaller commercial outdoor installations. It may be possible to install the HydraHeat internally if the proposed location is not an occupied space as defined by AS/NZS 5149.

The system must be installed in a location complying with the required clearances stated in the installation instructions, and located as close as practicable to the most frequently used hot water outlets to reduce the delay for hot water delivery.

Not suitable as a spa or swimming pool heater, or for hydronic applications. Hard or acidic water will need to be treated to use this product.

Design guidelines

Specification and installation must be in accordance with Rinnai installation requirements and with the Building Code.

Rinnai specify that installation must be in compliance with AS/NZS 5149, and AS/NZS 60335.



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Compliance with the NZ Building Code

The Rinnai HydraHeat™ Hot Water Heat Pump is a compliant product able to be sold in New Zealand, it has been tested and certified to the following standards.

- **AS/NZS 5125:** Heat Pump Water Heaters - Performance Assessment - Part 1: Air Source Heat Pump Water Heaters.
- **AS/NZS 60335.1:2020 / 60335.2.40:2023:** Household and Similar Electrical Appliances - Safety - Part 1: General Requirements, Safety - Part 2.40: Particular Requirements for Heat Pumps, Air Conditioners and Dehumidifiers.
- **AS/NZS 4692.1:2005** (cylinder component): Electric water heaters - Part 1: Energy consumption, performance and general requirements.
- **AS/NZS 4020:** Testing of product for use in contact with drinking water.
- **AS/NZS CISPR 14.1:2021:** Electromagnetic compatibility - Requirements for household appliances, electrical tools and similar apparatus, Part 1 : Emission
- **AS/NZS 2712: 2007:** Solar and heat pump water heaters - Design and construction.
- **AS/NZS 4234:2021:** Heated water systems - Calculation of energy consumption

Additional evidence to support the above statements:

- Electrical safety certificate number: ESV230062
- Supplier Declaration of Conformity: RNZ HH 001 2811

Special conditions: Installation requirements

Full appliance information can be found at www.rinnai.co.nz.

Limitation: To be installed in accordance with all Rinnai installation requirements and by a licensed tradesperson. Upon completion of the installation, a final inspection and test to demonstrate that the system has been installed in accordance with Rinnai's instructions.

Special conditions - maintenance requirements

For reliable operation the Rinnai HydraHeat™ Hot Water Heat Pump, should be serviced every two years. Installation, servicing, repair, and removal shall be carried out only by authorised personnel.