

A Product Technical Statement (PTS) 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

Designed and made in Japan, the Rinnai INFINITY EF series are condensing continuous flow gas hot water heaters with inbuilt frost protection. They have electronic ignition and require electricity to operate. The internal unit is a room sealed appliance.

The INFINITY EF units are factory preset to 55 °C. Model selection is dependent on the application. Click on the thumbnail image to view the product information for each model.

Scope of use

Suitable for mains and medium pressure residential and commercial applications. The external EF24 and EF250 units are designed to be externally mounted on an outside wall. The internal EFi250 is designed for internal installations only, and can be installed in an enclosure if the requirements of AS/NZS 5601.1 are satisfied. The INFINITY EF units are to be located as close as practicable to the most frequently used hot water outlet(s), to reduce the delay for water delivery.

They are not suitable as a spa or swimming pool heater.

Hard or acidic water will need to be treated to use this product.

Available for connection to natural gas or LPG, this must be specified at the time of purchase.

Flue terminations must comply with the flue terminal locations shown in AS/NZS 5601.1.

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 5601.1:2013, AS/NZS 3000:2007, and AS/NZS 3500.

The Rinnai EFi250 must be installed with an approved Rinnai flue system.

Quality assurance

- ISO 9001 Certified System
- ISO 14001 Certified System



EF24
external



EFi250
internal



EF250
external



ISO 9001

www.intlcert.com



Compliance with the NZ Building Code

If specified, installed and maintained in accordance with all Rinnai requirements the INFINITY EF series will comply with the below provisions of the NZ Building Code. AS/NZS 5601.1 is an acceptable solution within the NZBC for gas installations as per NZBC G11/AS1 9.0.1.

Code clause	Evidence of compliance
B1.3.1 B1.3.2 B1.3.3 (a, b, c, h, , m)	The INFINITY EF units are certified to AS/NZS 4552, a series of standards for safety, performance and energy efficiency in gas fired water heaters for hot water supply and/or central heating.
B.2.3.1 (c)	In service history.
C2.2 and C2.3	Certification of continuous flow gas water heaters to AS/NZS 4552.
E2.3.2	Achieved by following E2/AS1
G4.3.3 (f, i)	Achieved as long as the building complies with G4/AS1
G9.3.1 (a, b, c, d, f), G9.3.3	G9/AS1 as required by Rinnai installation guidance
G10.3.1 (a, b, c, d), G10.3.2, G10.3.3, G10.3.4, G10.3.5, G10.3.6	G10/AS1 (NZS 5442 natural gas) and (NZS 5435 LPG)
G11.3.1, G11.3.2, G11.3.3, G11.3.4	G11/AS1 (AS/NZS 5601.1) as required by Rinnai installation guidance
H1.3.4	Certification of continuous flow gas water heaters to AS/NZS 4552.2 (Minimum energy performance standards for gas water heaters).

Additional evidence to support the above statements

Energy Safety Supplier Declaration of Compliance:

- INFINITY EF24 external: Declaration number - 1431020135
- INFINITY EFi250 internal: Declaration number - 1008720096
- INFINITY EF250 external: Declaration number - 1008720096

Special conditions - installation requirements

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

Limitations: To be installed in accordance with all Rinnai installation requirements and by a licensed gasfitter/plumber, and electrician. Upon completion of the installation, a final inspection and test to demonstrate that the gas appliance has been installed in accordance with Rinnai's instructions and in accordance with Gas (safety and measurement) Regulations 2013 is required by the installer. The gasfitter is to issue a certificate of compliance.

Special conditions - maintenance requirements

For reliable operation Rinnai INFINITY units, in residential installations, should be serviced every two years*. In commercial installations annual* servicing is recommended. Installation, servicing and repair shall be carried out only by authorised personnel.

* Also includes the flue system if an internal unit.

