

INFINITY HD56kWe external 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

Designed and made in Japan, the Rinnai INFINITY HD56kWe is an external continuous flow gas hot water heater with inbuilt frost protection and status monitor. It has electronic ignition and requires electricity to operate.

The INFINITY HD56kWe is factory preset to 50 °C, but can be set to deliver higher temperatures, up to 85 °C, making them ideal for commercial applications.

Scope of use

Primarily designed for commercial applications, but can be used for larger hot water capacity residential projects. To be externally mounted on an outside wall 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.

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, AS/NZS 3000, and AS/NZS 3500.



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Compliance with the NZ Building Code

If specified, installed and maintained in accordance with all Rinnai requirements the INFINITY HD56kWe 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 Structure	
B1.3.1 B1.3.2 B1.3.3 (a,b,c,h,m)	Certified to AS/NZS 5263.1.2:2016 / 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.
B2 Durability	
B.2.3.1 (c)	Durability testing and in-service history
C2 Prevention of fire occurring	
C2.2 and C2.3	Certification of continuous flow gas water heaters to AS/NZS 5263.1.2:2016 / AS/NZS 4552
E2 External moisture	
E2.3.2	Achieved by following E2/AS1
G4 Ventilation	
G4.3.3 (f,i)	Achieved as long as the building complies with G4/AS1
G9 Electricity	
G9.3.1 (a,b,c,d,f), G9.3.3	G9/AS1 as required by Rinnai installation guidance
G10 Piped services	
G10.3.2, G10.3.3, G10.3.4, G10.3.5, G10.3.6	G10/AS1 (NZS 5422 Natural Gas) and (NZS 5435 LPG)
G11 Gas as an energy source	
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 Energy efficiency provisions	
H1.3.4	Certification of continuous flow gas water heaters to AS/NZS 4552.2* (Minimum energy performance standards for gas water heaters)

* Some provisions of the AS/NZS 5263.1.2:2016 apply to Australia only (e.g. thermal efficiency), which is why we have noted the equivalent AS/NZS 4552 standard.

Additional evidence to support the above statements

Energy Safety Supplier Declaration of Compliance:

- INFINITY HD56kWe: DEC-000002250L2L2

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 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 applications, should be serviced every two years, in commercial applications servicing is recommended annually. Installation, servicing, repair, and removal shall be carried out only by authorised personnel.