

## INFINITY A-Series 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 A-Series are gas continuous flow water heaters with inbuilt frost protection. They have electronic ignition and require electricity to operate. The internal unit is a room sealed appliance.

Model selection is based on the application.

### Scope of use

Suitable for mains and medium pressure residential applications only. The A16-A26 units are designed to be externally mounted on an outside wall. The A28i is designed for internal installations only and can be installed in an enclosure if the requirements of AS/NZS 5601.1 are satisfied. They are designed to be located as close as practicable to the most frequently used hot water outlets to reduce the delay for hot water delivery.

They are not suitable as a spa or swimming pool heater, for hydronic applications, or for commercial applications. The A16-A26 units are not suitable as a gas boost for solar installations as the temperature cannot be set high enough—only the A28i can be used as a gas boost.

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 A28i must be installed with a Rinnai approved flue system.



A16



A20



A24



A26



A28i

## INFINITY A-Series

### Product technical statement

#### Compliance with the NZ Building Code

If specified, installed and maintained in accordance with all Rinnai requirements the INFINITY A-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
<b>B1 Structure</b>	
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.
<b>B2 Durability</b>	
B.2.3.1 (c)	Durability testing and in-service history
<b>C2 Prevention of fire occurring</b>	
C2.2 and C2.3	Certification of continuous flow gas water heaters to AS/NZS 5263.1.2:2016 / AS/NZS 4552
<b>E2 External moisture</b>	
E2.3.2	Achieved by following E2/AS1
<b>G4 Ventilation</b>	
G4.3.3 (f,i)	Achieved as long as the building complies with G4/AS1
<b>G9 Electricity</b>	
G9.3.1 (a,b,c,d,f), G9.3.3	G9/AS1 as required by Rinnai installation guidance
<b>G10 Piped services</b>	
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)
<b>G11 Gas as an energy source</b>	
G11.3.1, G11.3.2, G11.3.3, G11.3.4	G11/AS1 (AS/NZS 5601.1) as required by Rinnai installation guidance
<b>H1 Energy efficiency provisions</b>	
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 A16: 1825920179
- INFINITY A20: 1825820179
- INFINITY A24: 1825720179
- INFINITY A26: 1825620179
- INFINITY A28i: DEC-000001841X8M7

**Seismic restraint:** Rinnai has prepared a seismic restraint calculation using NZS 4219. This can be accessed from the A-Series product page (technical tab) on the Rinnai website.

#### Special conditions: Installation requirements

Full appliance information can be found at [www.rinnai.co.nz](http://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, including inspection of the flue system (A28i). Installation, servicing and repair shall be carried out only by authorised personnel.