Rinnai

Low Pressure Stainless Steel Cylinders
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 assembled in New Zealand, with the inner cylinder made in the UK, Rinnai low pressure stainless steel hot water cylinders are available in three sizes; 135 L, 180 L, and 250 L. Model and configuration[1] selection will be dependent on the hot water demand of the property.

The 180, and 250 L cylinders, due to having an extra port (the eco inlet), can be connected to an open loop solar or hot water heat pump system.

To meet the New Zealand Building Code requirement[2] to disinfect water for legionella bacteria, the cylinder thermostat has been factory preset to 65 °C.

[1] Refer to the Rinnai website or the hot water pocket guide for available configurations

[2] Clause G12.3.9, Acceptable Solution G12/AS1 6.14.3

Scope of use

Suitable for indoor low-medium pressure residential and commercial applications, maximum operating pressure 120 kPa.

The system should be located and arranged so as to achieve the closest proximity to water draw off points.

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

Bore and tank water supplies should be considered to be corrosive and should be tested prior to using the system. For more information on water quality refer to the water quality statement in the owner and installer guide, available online.

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 3000, and AS/NZS 3500.

Where there is potential of damage occurring from a leaking system, a suitably drained safe tray must be fitted as per AS/NZS 3500.4:2015 5.4 and G12/AS1 6.11.3.

Quality assurance

- ISO 9001 Certified System
- ISO 14001 Certified System

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Compliance with the NZ Building Code
If specified, installed, and maintained in accordance with all Rinnai requirements the Rinnai low pressure indoor stainless steel cylinders will comply with the below provisions of the NZ Building Code.

CODE CLAUSE	EVIDENCE OF COMPLIANCE
G9 Electricity	
G9.2, G9.3.3	Cylinders approved to AS/NZS 60335.2.27
G12 Water supplies	
G12.3.8 G12.3.9	Cylinders approved to AS/NZS 60335.2.27 Acceptable solution G12/AS1 6.14.3, the cylinder thermostat has been factory preset to 65 °C
H1 Energy efficiency provisions	
H1.3.4	Cylinders meet the requirements of the minimum energy performance standards (MEPS) by cylinder approval to NZS 4606 (Storage water heaters - General requirements), and AS/NZS 4692.1:2005 (Electric water heaters - Energy consumption, performance and general requirements)

Additional evidence to support the above statements
Supplier Declaration of Compliance:
- SDoC identification number - 2017 001 SS

Electrical safety approval
- Certificate of approval number - ESV170017

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 cylinder has been installed in accordance with Rinnai's instructions is required by the installer. The installer is to issue an electrical safety certificate upon completion.

Special conditions - maintenance requirements
For reliable operation Rinnai cylinders should be maintained and serviced as detailed in the owner and installer guide. Installation, servicing, repair, and removal shall be carried out only by authorised personnel.