

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 assembled in New Zealand, with the inner cylinder made in the UK, Rinnai mains pressure coiled stainless steel hot water cylinders, fitted with an auto reset thermostat, are available in multiple size and configuration options:

- Standard coil for closed loop solar (190, 250, 330 L)
- Thermosiphon coil for wetback (190, 250, 300 L)
- Twin coil for wetback and closed loop solar (250, 300 L)

Model and configuration* selection will be dependent on the hot water demand of the property.

* Refer to the Rinnai website or cylinder specification guide for the cylinder configurations available.

Scope of use

Suitable for indoor mains and low pressure residential and light commercial applications. 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.

Not suitable for bore or tank water, or for mains supply where the water is hard and/or aggressive. For more information refer to the cylinder water quality and impurity limits table in the owner and installer guide, available online.

To meet the New Zealand Building Code requirement¹ to disinfect water for legionella bacteria, the cylinder thermostat has been set to 65 °C.

¹ Clause G12.3.9, Acceptable Solution G12/AS1 6.14.3

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 3000:2007, and AS/NZS 3500.

As per AS/NZS 3500.4:2015 5.4 and G12/AS1 6.11.3, the cylinder **MUST BE** installed with a suitably drained drip tray/catch pan.

Quality assurance

- ISO 9001 Certified System
- ISO 14001 Certified System



300 L standard coil



300 L thermosiphon coil



300 L twin coil



Compliance with the NZ Building Code

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

| Code clause | Evidence of compliance |
|--------------|---|
| G9.2, G9.3.3 | Cylinder approval to AS/NZS 60335.2.27 |
| G12.3.8 | Cylinder approval to AS/NZS 60335.2.27 |
| G12.3.9 | Acceptable solution G12/AS1 6.14.3, the cylinder thermostat has been set to 65 °C. |
| 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

Seismic restraint

Cylinders should be installed on a flat level base of sufficient strength to support the weight of the water heater when full. The water heater must also be suitably restrained against seismic activity, 'G12/AS1 Figure 14' details an acceptable method of restraint.

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 cylinder has been installed in accordance with Rinnai's instructions is to be done 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 and repair shall be carried out only by authorised personnel.