

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 in New Zealand, and made in China, Rinnai mains pressure indoor-outdoor enamel hot water cylinders are available in six sizes; 90 L, 135 L, 180 L, 215 L, 275 L and 340 L. Model selection will be dependent on the hot water demand of the property.

The larger cylinders (215, 275, 340 L), with dual connections, can be connected to a hot water heat pump.

### Scope of use

Suitable for indoor AND outdoor mains and low pressure residential and 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, swimming pool heater, or for solar applications.

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

To meet the New Zealand Building Code requirement<sup>1</sup> to disinfect water for legionella bacteria, the cylinder thermostat has been set to 65 °C.

<sup>1</sup> 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.

For indoor installations, 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



**Compliance with the NZ Building Code**

If specified, installed and maintained in accordance with all Rinnai requirements the Rinnai mains pressure indoor-outdoor enamel 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**

Electrical safety approval:

- Certificate of approval number - ESV1700303/00

**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](http://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.

