

PTS 01:18

DUX ELECTRIC STORAGE CYLINDERS



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.

PRODUCT DESCRIPTION

Designed and manufactured in Australia, Dux mains pressure large electric hot water cylinders are available in various sizes; 80L, 125L, 135L, 160L, 180L, 250L, 300, 315L and 400L. Model selection will be dependent on the hot water demand of the property.

Most cylinders (80L, 125L, 160L, 250L, 315L and 400L) have dual connections. All cylinders can be installed both indoors and out.

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 requirement¹ to disinfect water for legionella bacteria, the cylinder thermostat has been set 60 °C.

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



DESIGN GUIDELINES

Specification and installation must be in accordance with Dux installation requirements and with the Building Code.

Dux specify that installation must be in compliance with AS/NZS 3000, and AS/NZS 3500.4.

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

COMPLIANCE WITH THE NZ BUILDING CODE

If specified, installed and maintained in accordance with all Dux requirements the Dux 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	Replace with "Water Heater approval to AS/NZS 60335.1 & AS/NZS 60335.2.21
G12.3.8	Replace with "Water Heater approval to AS/NZS 60335.1 & AS/NZS 60335.2.21
G12.3.9	Acceptable solution G12/AS1 6.14.3, the cylinder thermostat has been set to 60°C.
H1.3.4	Cylinders meet the Zealand requirements of the minimum energy performance standards (MEPs) by cylinder approval to AS/NZS 4692.2 (Electric water heaters Part2: Minimum Energy Performance (MEPS) requirements & energy labeling) and 5.0 of Acceptable Solutions and Verification Methods For New Zealand Building Code Clause H1 Energy Efficiency

ADDITIONAL EVIDENCE TO SUPPORT THE ABOVE STATEMENTS

Electrical safety approval:

- Certificate of approval number -NSW16077 (certified by NSW Office of Fair Trading). Recognized by NEW ZEALAND GAZETTE signed on 28/07/2022: Electricity (Safety) Regulations—Recognition of Australian Legislation in Respect of Approval of Declared Articles Notice 2022

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.dux.com.au

Limitations: To be installed in accordance with all Dux 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 Dux'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 Dux 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.