

Australian Standard™

**Gas fired water heaters for hot water
supply and/or central heating**



This Australian Standard was prepared by Committee AG-001, Gas appliances. It was approved on behalf of the Council of Standards Australia on 21 September 2005.

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PREFACE

This Standard was prepared by the Standards Australia Working Group AG-001-00-11, Gas Water Heaters, under the responsibility of Standards Australia Committee AG-001, Gas Appliances. This edition is a substantial revision of the previous edition of AS 4552/AG 102:2000 to align with the expansion of the Scope. It supersedes AS 4552/AG 102 – 2000, *Gas Water Heaters*.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of gas fired water heaters and central heating boilers for hot water supply and/or central heating.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

AS 5601—Gas Installations, provides essential requirements and basic standards for gas installations.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard

Gas fired water heaters for hot water supply and/or central heating

SECTION 1 SCOPE AND DEFINITIONS

1.1 SCOPE

These requirements apply to gas water heaters and central heating boilers with natural draught or fan assisted combustion systems, intended for use with natural gas, town gas, liquefied petroleum gas (LPG) and tempered liquefied petroleum gas (TLP) with gas consumptions not exceeding 500 MJ/h, and includes types intended for the supply of hot water at a maximum temperature of 99°C for—

- (a) sanitary, potable and drinking purposes;
- (b) hydronic space heating; and
- (c) a combination of (a) and (b).

NOTE: Other statutory and regulatory requirements may be applicable to the product(s) that fall within the scope of this Standard. It is the manufacturer's, importer's or distributor's responsibility (as appropriate) to ensure that products comply with such requirements.

1.2 DEFINITIONS

1.2.1 Adjustable control thermostat

An adjustable device enabling the water temperature to be maintained automatically, within a given range.

1.2.2 Ambient temperature

The temperature of the air surrounding the appliance, as measured by a dry bulb thermometer or equivalent.

1.2.3 Appliance flueway

A port or passage conveying flue gases within the appliance.

1.2.4 Appliance regulator

A device fitted to an appliance to control the gas pressure or gas volume delivered to that appliance.

1.2.5 Appliance ventilation duct

A duct through a building designed to bring combustion air from, and take products of combustion to, the outside air, for Type 2 room sealed appliances.

1.2.6 Atmospheric burner

A burner system where all the air for combustion is introduced by the inspirating effect of a gas injector and/or by the natural draught in the combustion chamber without mechanical assistance.

1.2.7 Authority having jurisdiction

The authority having statutory (legal) control.