

Australian Standard<sup>®</sup>

**Gas pool heaters**



This Australian Standard® was prepared by Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 12 May 2004. This Standard was published on 22 July 2004.

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  - Australian Liquefied Petroleum Gas Association Ltd
  - CSIRO Energy Technology
  - Committee AG-001-03
  - Consumers' Federation of Australia
  - Energy Retailers Association of Australia
  - Gas Appliance Manufacturers Association of Australia
  - Gas Technical Regulators Committee
- 

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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# Australian Standard<sup>®</sup>

## Gas pool heaters

Originated as AS 110—1976.  
Previous edition June 1998.  
Revised and redesignated as AS 4560—2004.  
Reissued incorporating Amendment No. 1 (November 2009).

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## PREFACE

This Standard was prepared by the Standards Australia Working Group AG-001-00-20, Gas Pool Heaters, under the responsibility of Standards Australia Committee AG-001, Gas Appliances to supersede AG 110—1998, Approval requirements for pool heaters.

*This Standard incorporates Amendment No. 1 (August 2009). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Minor updated style changes have been made.*

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 pool heaters.

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/AG 601, *Gas installations* provides essential requirements and basic standards for gas installations.

The principal differences between this edition and AG 110—1998, are—

- (i) common clauses aligned with other gas appliance (AS) Standards where appropriate.
- (ii) requirements for water temperature control clarified, and where appropriate aligned with AS 2610, *Spa pools*.
- (iii) clarification of requirements for markings and instructions, including service instructions.

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 pool heaters

### SECTION 1 SCOPE AND DEFINITIONS

#### 1.1 SCOPE

This Standard applies to gas pool heaters in which water is intended to be heated to temperatures not exceeding 60°C. These appliances are intended for use with natural gas, town gas, liquefied petroleum gas (LPG) and tempered liquefied petroleum gas (TLP) up to a gas consumption of 500 MJ/h.

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

#### 1.2 DEFINITIONS

##### 1.2.1 Appliance flueway

A port or passage conveying flue gases within the appliance.

##### 1.2.2 Appliance regulator

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

##### 1.2.3 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.

##### 1.2.4 Authority

Means the authority having jurisdiction or such authority as delegated. (Technical Regulator.)

##### 1.2.5 Automatic burner

A burner system which, on starting, follows a self-acting sequence that has been manually or automatically initiated, to provide gas and ignition to the burner without any intermediate manual operation.

##### 1.2.6 Automatic ignition

The lighting of gas at a burner without a manual operation whenever gas flows from the burner.

##### 1.2.7 Available gas (Line gas)

Readily available gas with similar characteristics to the reference test gas.

##### 1.2.8 Bleed line

A small diameter pipe or tube that conveys gas to a safe place from a diaphragm valve other than one used for pressure regulators.