

AS 4565—2004
(Incorporating Amendment No. 1)
Reconfirmed 2017

AS 4565—2004

Australian Standard[®]

**Radiant gas heaters for outdoor and
non-residential indoor use**



This Australian Standard® was prepared by Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 25 May 2004. This Standard was published on 10 August 2004.

The following are represented on Committee AG-001:

- AGA (Network Operators)
 - AGA Certification Services
 - Appliance and Component Testing
 - 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
-

This Standard was issued in draft form for comment as DR 03566.

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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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4565—2004

Radiant gas heaters for outdoor and non-residential indoor use

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Technical Committee AG-001 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 25 September 2015.

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NOTES

Australian Standard[®]

**Radiant gas heaters for outdoor and
non-residential indoor use**

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PREFACE

This Standard was prepared by the Standards Australia Working Group AG-001-00-06, Patio heaters, under the responsibility of Standards Australia Committee AG-001, Gas Appliances to supersede AS 4565/AG 405—2001, *Outdoor radiant gas heaters*.

This Standard incorporates Amendment No. 1 (February 2011). 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.

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 radiant gas heaters for outdoor and non-residential indoor use.

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 AS 4565/AG 405—2001, are:

- (i) Addition of requirements for tabletop appliances.
- (ii) Addition of requirements for appliances for non-residential indoor use.
- (iii) Revision of sections related to outdoor areas.
- (iv) Changes to requirements for guarding.
- (v) Changes to temperature hazard requirements.
- (vi) Changes to cylinder ventilation requirements.
- (vii) Additional requirements for testing on propylene gas.

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

Radiant gas heaters for outdoor and non-residential indoor use

SECTION 1 SCOPE AND DEFINITIONS

1.1 SCOPE

These requirements apply to flueless portable and fixed radiant gas heating appliances intended for use in outdoor areas and non-residential indoor areas and for use with natural gas, town gas, liquefied petroleum gas (LPG) or tempered liquefied petroleum gas (TLP) with gas consumption not exceeding 70 MJ/h.

Appliances may be portable or fixed, free standing, mounted or suspended overhead, floor mounted, attached to, or built into, furniture or fixtures.

Appliances may be connected to a fixed piping system, or to a separate or integral refillable LPG cylinder.

NOTES:

- 1 AS 2658 covers various types of portable appliances not exceeding 12 MJ/h (250 g/h): with vapourized LP gas to the inlet at the vapour pressure within the gas container (vapour pressure appliance), AG 403 covers radiant tube heaters.
- 2 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

For the purposes of this Standard, the following definitions apply:

1.2.1 Appliance regulator

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

1.2.2 Authority

Means the authority having jurisdiction or such authority as delegated, i.e. Technical Regulator.

1.2.3 Automatic burner

A burner system that 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.

1.2.4 Automatic ignition

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

1.2.5 Automatic operation

The use of a sequence of operations, which once initiated, does not require any intermediate manual operation.