

Australian Standard[®]

Overhead radiant tube gas heaters

STANDARDS
Australia



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 - AGA Certification Services
 - Appliance and Component Testing
 - Australian Liquefied Petroleum Gas Association
 - CSIRO Energy Technology
 - Committee AG-001-03
 - Consumers' Federation of Australia
 - Energy Retailers Association of Australia
 - Gas Appliance Manufacturers Association of Australia
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-

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Overhead radiant tube gas heaters

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PREFACE

This Standard was prepared by the Standards Australia Committee AG-001 Gas Appliances to supersede AG 403—1986, *Overhead radiant tube gas 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 overhead radiant tube gas 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, *Gas Installations* provides essential requirements and basic standards for gas installations.

The principal differences between this edition and AG 403—1986, are:

- Inclusion of all amendments in Australian Gas Association Technical Bulletins 86 to 104.
- Inclusion of tests on 'Z' gas.
- Updating of temperature hazard tests
- Rearrangement of a number of Appendices, and transfer of some requirements previously in Appendices to the body of the Standard.

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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Australian Standard Overhead radiant tube gas heaters

SECTION 1 SCOPE AND DEFINITIONS

1.1 SCOPE

These requirements apply to overhead radiant tube heaters intended for use with natural gas, town gas, liquefied petroleum gas and tempered liquefied petroleum gas with gas consumptions not exceeding 500 MJ/h.

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 these 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 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 into the combustion chamber without mechanical assistance.

1.2.3 Authority

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

1.2.4 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.

1.2.5 Automatic ignition

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

1.2.6 Automatic operation

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

1.2.7 Automatic shut off valve

An automatic valve used to shut off gas supply to an appliance when a signal is generated indicating that a dangerous condition has developed.

1.2.8 Available gas (Line gas)

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