

Australian/New Zealand Standard™

Gas appliances

Part 1.10: Gas direct fired air heaters



AS/NZS 5263.1.10:2019

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- Australian Industry Group
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Energy Networks Australia
- Gas Appliance Manufacturers Association of Australia
- Gas Association of New Zealand
- Gas Energy Australia
- Gas Technical Regulators Committee
- Gas Utilisation Institute, New Zealand
- Joint Accreditation System of Australia and New Zealand (JAS-ANZ)
- NSW Fair Trading
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Originated in Australia as AG 404—1988.
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances, to supersede AS 5262—2011, *LP Gas mobile industrial direct fired air heaters*.

This Standard provides particular requirements for direct gas-fired air heaters that apply in addition to or in place of the general requirements for gas appliances set out in AS/NZS 5263.0, *Gas appliances, Part 0: General requirements*. The combination of AS/NZS 5263.1.10 and AS/NZS 5263.0 supersedes AS 5262—2011.

This Part 1.10 of AS/NZS 5263, supplements or modifies the corresponding clauses of Part 0. The numbering of clauses in this Part 1.10 is consistent with the numbering in Part 0 for related requirements.

Statements used in this Part 1.10 to explain the relationship of clauses in this Standard to the corresponding Clauses of Part 0 are as follows:

- (a) “This Clause of AS/NZS 5263.0 applies”, in which case the corresponding clause of Part 0 is used without modification.
- (b) “This Clause of AS/NZS 5263.0 applies, except as modified below”: in which case the corresponding clause of Part 0 and its subclauses are used but with the modifications, as listed in this document.
- (c) “Not applicable”, in which case the corresponding clause of Part 0 is not used in this context.

Otherwise, the text in this Standard replaces the corresponding Clause of Part 0.

Any clauses in this Standard that are additional to the requirements of Part 0 are numbered beginning from 101 (except for additional definitions, which begin from 201). Additional appendices in this Part 1.10 are designated with letters starting from AA, and additional clauses in appendices are numbered beginning from 101 (e.g. Test Method [ZA.101](#)).

Where an Appendix or part of an Appendix (i.e. clause, figure or table) is cited in this Standard, reference should first be made to Part 0 for the content of the appendix, which may be modified by this Part 1.10.

This Standard (AS/NZS 5263.1.10), together with the Standard AS/NZS 5263.0 (Part 0), constitute a means of conformance to AS 3645, *Essential requirements for gas equipment*.

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 appliances.

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

Consideration has been given to —

- (i) continuity of satisfactory operation;
- (ii) the prevention of fire hazards, and explosions;
- (iii) the prevention of injury to persons or property;
- (iv) gas rules and regulations now in force; and
- (v) relevant International Standards.

AS/NZS 5601 series of Standards provides essential requirements and means of conformance for gas installations. Any reference to “AS/NZS 5601” in AS/NZS 5263 series of Standards should be considered as reference to the appropriate part of AS/NZS 5601 series of Standards (i.e. AS/NZS 5601.1 or AS/NZS 5601.2).

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.

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NOTES

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Section 1 Scope and general

1.1 Scope and Application

1.1.1 Scope

This Standard specifies general requirements and test methods for direct fired air heaters, which use gas as a fuel and are intended for domestic, commercial or light industrial use with energy input not exceeding 500 MJ/h. This Standard provides requirements for appliances for portable use or fixed installation.

For Australia, the fuel gases are natural gas (as described by AS 4564) and liquefied petroleum gas (LP Gas, as described by AS 4670).

For New Zealand:

- (a) The fuel gases are natural gas (as specified in NZS 5442) and general product liquefied petroleum gas (NZLPG as specified in NZS 5435).
- (b) Thermal efficiency requirements are informative only, except where they relate to safety.

NOTE 1 Direct fired air heaters with inputs < 50 MJ/h fall under this Standard and are to be removed from the scope of AS/NZS 5263.1.3 at its next revision.

NOTE 2 Other statutory and regulatory requirements may be applicable to a product that falls within the scope of this Standard. It is the responsibility of the manufacturer, importer or distributor (as appropriate) to ensure that products conform to such requirements.

Methods of test are set out in [Appendices ZA](#) and [ZC](#).

1.1.2 Application

This Standard is complementary to, and is intended to be used in conjunction with AS/NZS 5263.0. The requirements given herein shall take precedence over corresponding requirements in that Standard.

AS 3645 specifies essential requirements for gas equipment that requires regulatory approval before sale. This Standard, together with AS/NZS 5263.0, is intended to provide a means of demonstrating conformance to AS 3645.

1.2 Referenced documents

The following documents are referred to in this Standard:

AS 3645, *Essential requirements for gas equipment*

AS 4564, *Specification for general purpose natural gas*

AS 4670, *Commercial propane and commercial butane for heating purposes*

AS/NZS 5263.0, *Gas appliances, Part 0: General requirements*

AS/NZS 5601.1, *Gas installations, Part 1: General installations*

ISO 23551-2, *Safety and control devices for gas burners and gas-burning appliances — Particular requirements — Part 2: Pressure regulators*