AS/NZS 5263.1.11:2020

Australian/New Zealand Standard™

Gas appliances

Part 1.11: Small gas engine driven appliances

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AS/NZS 5263.1.11:2020

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Gas Association of New Zealand
Gas Energy Australia
Gas Technical Regulators Committee
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances.

This Standard provides particular requirements for appliances for fixed installation, including gas fuelled spark ignition reciprocating internal combustion engines, 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.*

This Part 1.11 of AS/NZS 5263, supplements or modifies the corresponding clauses of Part 0. The numbering of clauses in this Part 1.11 is consistent with the numbering in Part 0 for related requirements.

Statements used in this Part 1.11 to explain the relationship of clauses in this Standard to the corresponding clause of Part 0 are as follows:

(a) "This Clause of AS/NZS 5263.0 applies", in which case the corresponding clause of Part 0 and its subclauses are 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 1.11 are designated with letters starting from AA, and additional clauses in appendices are numbered beginning from 101 (e.g. ZB.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 1.11.

This Standard (AS/NZS 5263.1.11), together with AS/NZS 5263.0, constitute a means of conformance to AS 3645, *Essential requirements for gas equipment*, for small gas engine driven appliances.

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 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, performance-based requirements and means of conformance for gas installations. Any reference to AS/NZS 5601 in the AS/NZS 5263 series of Standards should be considered as a reference to the appropriate part of the AS/NZS 5601 series of Standards (i.e. AS/NZS 5601.1 or AS/NZS 5601.2).

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The terms “normative” and “informative” are used in Standards to define the application of the appendices 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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Section 1 Scope and general

1.1 Scope and application

1.1.1 Scope

This Standard provides specific requirements and test methods for an appliance for fixed installation comprising a naturally aspirated gas fuelled spark ignition reciprocating internal combustion engine with energy input not exceeding 1000 MJ/h, powering one of the following:

(a) Air conditioner.

(b) Heat pump.

(c) Electricity generator.

(d) Gas compressor.

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

For New Zealand —

(i) The fuel gases are natural gas (as specified in NZS 5442) and general product liquefied petroleum gas (NZLPG) (as specified in NZS 5435).

(ii) The thermal efficiency requirements are informative only, except where they relate to safety.

Appendix AA provides a figure and table referenced in this Standard that are in addition to those in AS/NZS 5263.0.

Test methods are set out in Appendices ZA, ZB and ZC (see Clause 1.4).

NOTE Other statutory or 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 comply with such requirements.

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 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents for informative purposes are listed in the Bibliography.

AS 1375, *Industrial fuel-fired appliances*

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