

Australian Standard[®]

Indirect gas-fired ducted air heaters



This Australian Standard® was prepared by Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 8 April 2011. This Standard was published on 3 June 2011.

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- Appliance and Component Testing
 - Association of Accredited Certification Bodies
 - Australian Gas Association
 - Consumers Federation of Australia
 - Department of the Environment, Water, Heritage and the Arts
 - Energy Networks Association
 - Gas Appliance Manufacturers Association of Australia
 - Gas Technical Regulators Committee
 - LPG Australia
-

This Standard was issued in draft form for comment as Draft AS 4356.

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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Indirect gas-fired ducted air heaters

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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 4556—2000/AG 106—2000, *Indirect gas fired ducted air heaters*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to retain this Standard as an Australian Standard rather than develop it as an Australian/New Zealand Standard.

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 indirect gas-fired ducted air heaters. This Standard should not be regarded as a design specification or as an instruction manual.

In this Standard's 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/NZS 5601 provides essential requirements and basic standards for gas installations.

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 and footnotes to tables and figures are deemed to be requirements of this Standard.

The relevant Australian technical regulations agree that this Standard includes appropriate requirements for particular appliances or components to be certified.

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STANDARDS AUSTRALIA

Australian Standard
Indirect gas-fired ducted air heaters

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for indirect gas-fired ducted air heaters with natural draught or fan-assisted combustion systems intended for use with NG, town gas, liquefied petroleum gas (LP Gas) and tempered liquefied petroleum gas (TLP) 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 such requirements.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1375 | Industrial fuel-fired appliances (known as the SAA Industrial Fuel-Fired Appliances Code) |
| 1722 | Pipe threads of Whitworth form |
| 1722.2 | Part 2: Fastening pipe threads |
| 1881 | Zinc alloys—Casting ingots and castings—Quality requirements |
| 4617 | Manual shut-off gas valves |
| 4620 | Thermoelectric flame safeguards |
| 4625 | Electronic flame safeguards and flame detectors |
| 4629 | Automatic shut-off valves and vent valves |
| 4646 | Gas appliance standards—Definitions and calculations |

AS/NZS

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| 3500 | Plumbing and drainage |
| 3500.0 | Part 0: Glossary of terms |
| 3820 | Essential safety requirements for electrical equipment |
| 5601 | Gas installations |
| 5601.1 | Part 1: General installations |
| 5601.2 | Part 2: LP Gas installations in caravans and boats for non-propulsive purposes |

AS ISO

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| 7.1 | Pipe threads where pressure-tight joints are made on the threads
Part 1: Dimensions, tolerances and designation |
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ISO

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| 6976 | Natural gas—Calculation of calorific values, density, relative density and Wobbe index from composition |
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EN

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| 298 | Automatic gas burner control systems for gas burners and gas burning appliances with or without fans |
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