AS 4556—2011

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.
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The following are represented on Committee AG-001:

- 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

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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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Australian Standard®

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 regulators agree that this Standard includes appropriate requirements for particular appliances or components to be certified.

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S E C T I O N 1 S C O P E A N D G E N E R A L

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	
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	
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	
7.1	Pipe threads where pressure-tight joints are made on the threads Part 1: Dimensions, tolerances and designation
ISO	
6976	Natural gas—Calculation of calorific values, density, relative density and Wobbe index from composition
EN	
298	Automatic gas burner control systems for gas burners and gas burning appliances with or without fans