

Australian/New Zealand Standard™

**Gas fired water heaters for hot water
supply and/or central heating**

**Part 2: Minimum energy performance
standards for gas water heaters**



AS/NZS 4552.2:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee AG-001, Gas appliances. It was approved on behalf of the Council of Standards Australia on 8 December 2010 and on behalf of the Council of Standards New Zealand on 13 December 2010.

This Standard was published on 24 December 2010.

The following are represented on Committee AG-001:

AGA Certification Services
Appliance and Component Testing
Consumers' Federation of Australia
Department of Climate Change and Energy Efficiency
Energy Efficiency and Conservation Authority (New Zealand)
Gas Appliance Manufacturers Association of Australia
Gas Association of New Zealand
Gas Technical Regulators Committee
Gas Utilisation Institute
LPG Australia
Master Plumbers, Gasfitters and Drainlayers New Zealand
Ministry of Consumer Affairs (New Zealand)
New Zealand Employers and Manufacturers Association

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First published as AS/NZS 4552.2:2010.

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Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140

ISBN 978 0 7337 9755 2

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances. This Standard is part of a series as follows:

AS

4552 Gas fired water heaters for hot water supply and/or central heating

AS/NZS

4552.2 Part 2: Minimum energy performance standards for gas water heaters (this Standard)

4552.3 Part 3: Energy consumption test methods for gas water heaters (to be published)

The overall objective of the AS/NZS 4552 series of Standards is to promote high levels of safety, performance and energy efficiency in gas fired water heaters for hot water supply and/or central heating. The Parts of the AS and AS/NZS 4552 series are summarized as follows:

- (a) AS 4552 includes a range of safety, performance and durability requirements for gas water heaters.
- (b) AS/NZS 4552.2 includes minimum energy performance standards (MEPS) for gas water heaters. Its structure is suitable for reference in regulatory legislation and it is to be used in conjunction with AS 4552 and AS/NZS 4552.3, when published, for the determination of energy consumption.
- (c) AS/NZS 4552.3, when published, will include revised test methods for gas water heaters, which will be a basis for MEPS levels.

Federal or State and Territory regulators may require that all appliances within the scope of this Standard, which are either manufactured or imported for sale in either Australia or New Zealand, be registered as complying with this Standard from the time this Standard is cited by regulators. Information regarding registration requirements, the Trans Tasman Mutual Recognition Agreement (TTMRA), and the duration periods for registrations may be found at www.energyrating.gov.au

Section 3 of this Standard includes the details of the transition arrangements that will apply for appliances which have been tested to AS 4552 until AS/NZS 4552.3 comes into effect through regulation.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 EXCLUSIONS	4
1.3 REFERENCED DOCUMENTS	4
1.4 DEFINITIONS	5
SECTION 2 PERFORMANCE CRITERIA	
2.1 MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS).....	6
2.2 COMPLIANCE WITH MEPS REQUIREMENTS	6
SECTION 3 TRANSITIONAL ARRANGEMENTS	7
SECTION 4 REGISTRATION	
4.1 REGISTRATION OVERVIEW.....	9
4.2 REGISTRATION IN AUSTRALIA	9
4.3 REGISTRATION AND DUTIES OF IMPORTERS AND MANUFACTURERS IN NEW ZEALAND	9
4.4 DATE OF MANUFACTURE INFORMATION.....	10

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Gas fired water heaters for hot water supply and/or central heating**

Part 2: Minimum energy performance standards for gas water heaters

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum energy performance standards (MEPS) requirements for gas water heaters intended for use with natural gas, liquefied petroleum gas (LPG) and simulated natural gas (SNG) up to a nominal gas consumption of 50 MJ/h for storage types and 250 MJ/h for instantaneous types and which fall within the scope of AS 4552.

This Standard does not specify safety requirements. For safety requirements see AS 4552, *Gas fired water heaters for hot water supply and/or central heating*, or NZS 5262, *Gas appliance safety*.

NOTE: Other statutory and regulatory requirements may be applicable to the water heater(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 their water heater(s) comply with such requirements.

1.2 EXCLUSIONS

The following types of water heaters are excluded from the scope of this Standard:

- (a) Storage with a nominal gas consumption in excess of 50 MJ/h.
- (b) Instantaneous with a nominal gas consumption in excess of 250 MJ/h.
- (c) Storage with a nominal storage capacity of less than 30 L.
- (d) Instantaneous with a heat output of less than 13.1 kW.

NOTE: 13.1 kW heat output is equivalent to a delivery rate of 7.5 litres per minute raised through to 25°C.

- (e) Storage heater certified only for installation indoors.
- (f) Combination appliance.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

- | | |
|---------------|--|
| AS 4552 | Gas fired water heaters for hot water supply and/or central heating. |
| AS/NZS 4552.3 | Gas fired water heaters for hot water supply and/or central heating
Part 3: Energy test methods (to be published) |
| NZS 5262 | Gas appliance safety |