

Australian/New Zealand Standard™

**Performance of household electrical
appliances—Clothes washing machines**

Part 2: Energy labelling requirements



AS/NZS 2040.2:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-015, Quality and Performance of Household Electrical Appliances. It was approved on behalf of the Council of Standards Australia on 15 March 2000 and on behalf of the Council of Standards New Zealand on 8 March 2000. This Standard was published on 31 March 2000.

The following are represented on Committee EL-015:

Australian Association of Certification Bodies
Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Retailers Association
Consumer Electronics Suppliers Association, Australia
Consumer Federation of Australia
Department of Mines and Energy, Qld
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Australian/New Zealand Standard™

Performance of household electrical appliances—Clothes washing machines

Part 2: Energy labelling requirements

Originated as AS/NZS 2040.2:1998.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/15, Quality and Performance of Household Electrical Appliances.

This Standard incorporates Amendment No. 1 (August 2005). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The AS/NZS 2040 series is comprised of two Parts, as follows:

AS/NZS

2040	Performance of household electrical appliances—Clothes washing machines
2040.1	Part 1: Energy consumption and performance
2040.2	Part 2: Energy labelling requirements (this Standard)

The overall objective of the AS/NZS 2040 series is to promote high levels of performance and energy efficiency in clothes washing machines.

The Parts of AS/NZS 2040 are summarized as follows:

- (a) *Part 1* Includes performance test procedures and minimum performance criteria for clothes washing machines.
- (b) *Part 2* Includes algorithms for the calculation of the energy efficiency star rating and projected energy usage, performance requirements, details of the energy label and requirements for the valid application thereof. It has been structured to be suitable for reference in regulatory legislation and to be used in conjunction with Part 1.

This edition contains the new star rating algorithms developed during 1999 which will be introduced together with the new energy label for clothes washers during mid to late 2000. Part 1 of this Standard remains largely unchanged, except for some minor amendments, which have been passed subsequent to its original publication.

The main changes in this Part 2 Standard are as follows:

- (i) Introduction of new energy labelling algorithms to regrade star ratings;
- (ii) Introduction of redesigned more consumer friendly energy label.
- (iii) Inclusion of cold wash details on the energy label.

A1 | Amendment 1 introduces for the purpose of water efficiency labelling—

- (A) a new application form to be used for both energy efficiency labelling and water efficiency labelling;
- (B) a requirement to enable a regulator to be able to determine date of manufacture information; and
- (C) a requirement to comply with the rinse performance test of AS/NZS 2040.1.

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

A1 | This Standard is published with the approval of the combined state regulatory authorities and is structured to be suitable for reference in energy and water efficiency labelling regulatory legislation. It refers to AS/NZS 2040.1:1998 for test procedures. AS/NZS 6400:2005 references this Standard for water efficiency labelling requirements.

This Standard supersedes AS/NZS 2040.2:1998 on 1 October 2000. From 1 April 2000 until 30 September 2000 it is anticipated that regulatory authorities will approve appliances in accordance with either AS/NZS 2040.2:1998 or this Standard. On 1 October 2000, all registrations according to previous Standards will be cancelled. For these appliances to be sold they will be required to be re-registered in accordance to this Standard prior to 1 October 2000.

It is expected that concessions will apply until 1 October 2001 to allow the sale of products with old labels direct from storage facilities and for which it can be demonstrated that they were manufactured locally or imported before 1 October 2000. However, all products on display for sale will be required to display new labels from 1 October 2000, irrespective of their date of manufacture or importation.

All registrations submitted and records kept from 1 October 2000 will require test reports in accordance with AS/NZS 2040.1.

Check testing, where applicable, will be undertaken to the version of the test Standard which has been used to support the current energy label for that model.

NOTES:

- 1 Given that all products on display have to carry the new label shown in this Standard from 1 October 2000, it is preferred that manufacturers submit the new label in all registration applications from 1 April 2000.
- 2 Models registered prior to 1 April 2000 can be re-registered with the new label shown in this standard at any time during the period from 1 April 2000 to 30 September 2000.
- 3 Some regulators may accept pre-registration applications with the new label shown in this standard prior to 1 April 2000 to facilitate approval soon thereafter.
- 4 It is not necessary to seek re-approval of the label when the when the label is changed from the transition version to the final version with the solid green bar at the base. However, the final label should also be submitted with the energy labelling application.
- 5 Administrative arrangements during the transition period may vary so registration holders should contact their regulator to obtain detailed requirements with respect to labelling and registration requirements.

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Australian/New Zealand Standard
Performance of household electrical appliances—Clothes washing machines

Part 2: Energy labelling requirements

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the energy labelling requirements for electric clothes washing machines intended for household and similar use. This Standard does not specify safety requirements. Examples of appliances covered by this Standard are top loading non-drum type washers (usually impeller or agitator), front and top loading drum type washers and the washer function of combination washer-dryers.

In particular, this Standard specifies the following:

- (a) Program to be used for energy labelling.
- (b) Projected annual energy consumption.
- (c) Comparative energy consumption.
- (d) Star rating index.
- (e) Star rating.
- (f) Some of the requirements for energy label validity.
- (g) Performance criteria for energy labelling.
- (h) Printing requirements for clothes washing machine energy efficiency labels.
- (i) Format for the application for registration for energy efficiency labelling and water efficiency labelling.

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1.2 APPLICATION

This Standard shall be read in conjunction with AS/NZS 2040.1.

1.3 OBJECTIVE

The objective of this Standard is to define performance and energy labelling requirements, which must be met for a clothes washing machine to carry a valid energy efficiency label.

1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
2706	Numerical values—Rounding and interpretation of limiting values
2040—1990	Performance of household electrical appliances—Clothes washing machines (Withdrawn July 1998, see Clause 4.1.1.)
AS/NZS	
2040	Performance of household electrical appliances—Clothes washing machines