

Australian Standard[®]

**Acoustics—Method for the
determination of airborne noise
emitted by household and similar
electrical appliances**

**Part 2: Particular requirements
for dishwashers**

This Australian Standard was prepared by Committee AV/7, Acoustics, Noise from Office and Household Equipment. It was approved on behalf of the Council of Standards Australia on 4 June 1990 and published on 11 February 1991.

The following interests are represented on Committee AV/7:

Association of Consulting Engineers Australia
Australian Acoustical Society
Australian Consumer Association
Australian and New Zealand Environmental Council
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry

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PREFACE

This Standard was prepared by the Standards Australia Committee on Acoustics — Noise from office and household equipment. It is complementary to and is to be read in conjunction with AS 2991.1, *Acoustics—Method for the determination of airborne noise emitted by household and similar electrical appliances*, Part 1: *General requirements*. It is based on IEC 704 Part 2.3, Test code for the determination of airborne acoustical noise emitted by household and similar appliances. Part 2.3: *Particular requirements for dishwashers*.

The text of this Standard adds to, modifies, or replaces the text of AS 2991.1. The Clause numbers of this Standard are not sequential because if the Clause of AS 2991.1 applies unaltered the Clause is not repeated herein.

The measuring conditions specified in this Standard are intended to simulate the practical use of dishwashers, and take into account the variability of the noise emitted whilst maintaining reproducibility in different laboratories. To avoid variability caused by foaming, the test must be run with unsoiled load and without detergents or rinsing aids. An appliance intended to be built-in or installed under a counter, shall be incorporated in an appropriate cabinet for testing.

It is recommended that noise emission rating be considered as part of the performance data.

This document differs from IEC 704, Part 2.3 in that it is intended to provide noise ratings for evaluation by consumers.

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STANDARDS AUSTRALIA

Australian Standard

Acoustics—Method for the determination of airborne noise emitted by household and similar electrical appliances

Part 2: Particular requirements for dishwashers

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out objective methods of engineering accuracy (engineering method, grade 2 according to ISO 2204 with the requirement that time dependence of the level during the period of observation be recorded) described in AS 1217.4 and AS 1217.5 for determining sound power levels of airborne noise emitted by dishwashers within the specified frequency range of interest.

This Standard does not cover methods for determining sound power levels with greater precision (precision method, grade 1 according to ISO 2204) specified in AS 1217.2, AS 1217.3, and AS 1217.6.

This Standard applies to single unit electric dishwashers for household and similar use.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard.

AS

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|--------|-------------------------------------------------------------------------------------------------------------------|
| 1217 | Acoustics — Determination of sound power levels of noise sources |
| 1217.2 | Part 2: Precision methods for broad-band sources in reverberation rooms |
| 1217.3 | Part 3: Precision methods for discrete-frequency and narrow-band sources in reverberation rooms |
| 1217.4 | Part 4: Engineering methods for special reverberation test rooms |
| 1217.5 | Part 5: Engineering methods for free-field conditions over a reflecting plane |
| 1217.6 | Part 6: Precision methods for anechoic and hemi-anechoic rooms |
| 1259 | Acoustics — Sound level meters |
| 1259.1 | Part 1: Non-integrating |
| 1259.2 | Part 2: Integrating— Averaging |
| 2007 | Performance of household electrical appliances — Dishwashers |
| 2991 | Acoustics — Method for the determination of airborne noise emitted by household and similar electrical appliances |
| 2991.1 | Part 1: General requirements |
| Z41 | Octave, half octave and one-third octave band pass filters intended for the analysis of sound and vibration |

ISO

- | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 2204 | Acoustics — Guide to International Standards on the measurement of airborne acoustical noise and evaluation of its effects on human beings |
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1.4 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2991.1 and those below apply.

1.4.1 Rated capacity—number of place settings, together with the serving pieces, which the manufacturer specifies the dishwasher will accommodate when loaded in accordance with the manufacturer's instructions. (See AS 2007.)

1.4.2 Place setting and serving pieces—one place setting consists of one each of the pieces together with one each of the serving pieces complying with AS 2007.

1.4.3 Main wash—the part of the programme or cycle where, in normal use, the detergent is added.

1.4.4 Main clean rinse—the part of the programme or cycle where, in normal use, the rinse agent is added.



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