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**Noise limit value for household
and similar electrical appliances**

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Noise limit value for household and similar electrical appliances

1 Scope

This Standard is applicable to household and similar electrical appliances.

2 Normative references

The clauses in the following documents, by reference in this Standard, constitute the clauses of this Standard. For the dated references, all its subsequent amendments (excluding errata content) or revisions do not apply to this Standard. However, parties, who have reached an agreement according to this Standard, are encouraged to study whether the latest versions of these documents can be used. For the undated references, the latest versions are applicable to this Standard.

GB/T 4214.1-2000 Acoustics - Household and similar electrical appliances - Test code for determination of airborne acoustical noise - Part 1: General requirements (eqv IEC 60704-1:1997)

GB/T 8059.1-1995 Household refrigerating appliances - Refrigerators (eqv ISO 7371:1985)

GB/T 8059.2-1995 Household refrigerating appliances - Refrigerator-freezer (eqv ISO 8187:1991)

GB/T 8059.3-1995 Household refrigerating appliances - Freezers (eqv ISO 5155:1983)

GB/T 8059.4-1993 Refrigerating appliances - Frost-free refrigerators, frost-free refrigerator-freezers, frost-free frozen food storage cabinets and frost-free food freezers (eqv ISO 8561)

GB/T 7725-2004 Room air conditioners (ISO 5151:1994, NEQ)

GB/T 4288-2003 Household electric washing machine

GB/T 17713-1999 Range hood (eqv IEC 60665:1980)

GB/T 13380-1992 A.C. electric fans and regulators (neq IEC 60879:1986)

3 Noise limit value requirement for products

The noise limit values for specific products are shown in the appendixes.

4 Test code and acoustics environment

Unless otherwise specified, the noise test code and acoustics environment for household and similar electrical appliances shall comply with the requirements of Chapter 4 of GB/T 4214.1-2000.

5 Measuring instrument

The measuring instrument shall meet the requirements of Chapter 5 of GB/T 4214.1-2000.

6 Operation and setting of the appliances under test

Unless otherwise specified, the operation and setting of the appliances under test shall meet the requirements of Chapter 6 of GB/T 4214.1-2000.

7 Measurement of sound pressure level

The measurement of sound pressure level shall meet the requirements of Chapter 7 of GB/T 4214.1-2000.

8 Calculation of sound pressure level and sound power level

The calculation of sound pressure level and sound power level shall meet the requirements of Chapter 8 of GB/T 4214.1-2000.

9 Marking on the product

The noise value of the product shall be marked on its nameplate or instructions. The tolerance between measured value and express value shall not exceed +3 dB. The maximum value shall not exceed the limit value.

Appendix C

(normative)

Noise limit value for washing machines

C.1 Scope

This Standard is applicable to household and similar electric washing machine (including dehydrator).

C.2 Noise limit value

The washing noise limit value for washing machines is: 62 dB (A weighted) (sound power level);

The dehydrating noise limit value for washing machines is: 72 dB (A weighted) (sound power level).

C.3 Test code

C.3.1 Test conditions

C.3.1.1 Except for the tests which specifically provide for the test environmental conditions, the type test shall be conducted in a room with an ambient temperature of $(20\pm 5)^{\circ}\text{C}$ and a relative humidity of 60%~70% but without outside air flow, strong sunlight, and other heat radiation effects.

C.3.1.2 The test power supply is a single-phase AC sine wave. The fluctuation range of voltage and frequency shall not exceed $\pm 1\%$ of the rated value.

C.3.1.3 The washing machine under test shall be tested under the use state specified in the manufacturer's instructions.

C.3.1.4 The inlet water temperature of the washing machine with heating equipment is $(15\pm 2)^{\circ}\text{C}$.

C.3.1.5 The inlet water temperature of tumbling-box washing machine without heating equipment is $(50\pm 2)^{\circ}\text{C}$.

C.3.1.6 The inlet water temperature of impeller-type/agitator-type washing machine without heating equipment is $(30\pm 2)^{\circ}\text{C}$.

C.3.1.7 The water inlet pressure of full-automatic washing machine is (0.24 ± 0.02) MPa.

Appendix D

(normative)

Noise limit value for microwave ovens

D.1 Scope

This Standard applies to microwave ovens with a nominal microwave frequency of 2450 MHz and a rated microwave output power of not more than 1 kW (including 1 kW), also applies to microwave ovens with a grill function (including convection grill function with hot air).

The noise value for combined, multi-functional composite, and other types of microwave ovens is examined separately.

D.2 Noise limit value

The noise limit value for microwave ovens is: 68 dB(A) (sound power level).

D.3 Test code

D.3.1 Test environment

PROVIDE a laboratory with a free field above the reflection plane, that is, a semi-anechoic chamber (Whether the noise test environment meets the requirements of this Standard shall be evaluated according to 4.4 in GB/T 4214.1-2000).

D.3.2 Background noise requirement

At each measuring point, the difference BETWEEN the sound pressure level measured during the operation of sound source AND the sound pressure level of background noise shall be greater than 10 dB.

D.3.3 Noise test conditions

Microwave ovens or combined microwave ovens shall be placed in normal use condition. If extraneous vibration occurs in the measurement, it shall use elastic mounting to eliminate the effect of extraneous vibration.

Note: Elastic cushion: rubber (Shore hardness is 45) cushion with a thickness of 5 mm.

D.3.4 Measurement of sound pressure level

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