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INTERNATIONAL STANDARD

Household and similar electrical appliances – Safety – Part 2-90: Particular requirements for commercial microwave ovens



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HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-90: Particular requirements for commercial microwave ovens

FOREWORD

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This part of International Standard IEC 60335 has been prepared by subcommittee 61B: Safety of microwave appliances for household and commercial use, of IEC technical committee 61: Safety of household and similar electrical appliances.

This fourth edition cancels and replaces the third edition published in 2006 including its Amendment 1 (2010) and Amendment 2 (2014). It constitutes a technical revision.

The principal changes with respect to the previous edition are as follows (minor and editorial changes are not listed):

– a statement in 7.12 is required for appliances intended to be used on commercial road vehicles;
– a statement in 7.12 is required concerning cleaning of the appliance with a water jet;
– the replacement of 22.103, 22.104 and 22.105 allows interlock systems with at least one concealed door interlock as well as alternative interlock systems without concealed door interlock;

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– requirements are added for appliances for installation in commercial road vehicles;
– an annex is added dealing with routine tests.

The text of this standard is based on the following documents:

FDIS	Report on voting
61B/529/FDIS	61B/536/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This Part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fourth edition (2001) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This Part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for commercial microwave ovens.

When a particular subclause of Part 1 is not mentioned in part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

– subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
– unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
– additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

– requirements: in roman type;
– *test specifications: in italic type;*
– notes: in small roman type.

Words in **bold** type in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The following differences exist in the countries indicated below.

– 5.3: Microwave leakage is not to exceed 10 W/m^2 during the initial test (Japan, USA and Canada).
– 6.1: Microwave ovens may be class OI if the rated voltage does not exceed more than 150 V (Japan).
– 7.12: Some warnings have to be marked on the appliance and be visible to the user (Canada).
– Clause 18: The test is carried out on two appliances (USA).
– 19.11.2: The input voltage variation is not applied (USA).
– 19.13: Microwave leakage is only measured at the end of each test (USA).
– 21.102: The applied force is 222 N (USA).
– 21.105: Microwave leakage is not to exceed 50 W/m^2 (Japan and USA).
– 22.111: Microwave leakage is only measured at the end of the test (USA).

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