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AMENDMENT 1
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Amendment 1

**Household and similar electrical appliances –
Safety –**

**Part 2-60:
Particular requirements for whirlpool baths
and whirlpool spas**

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PRICE CODE

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FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

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

FDIS	Report on voting
61/2742/FDIS	61/2799/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this amendment may be issued at a later date.

TITLE

Replace the existing title by the following:

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-60: Particular requirements for whirlpool baths and whirlpool spas

FOREWORD

In the third paragraph after the table, replace "whirlpool baths" by "whirlpool baths and whirlpool spas".

INTRODUCTION

Replace the second sentence of the second paragraph by the following:

It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

1 Scope

In the first paragraph, replace “whirlpool baths for indoor use” by “**whirlpool baths** for indoor use and **whirlpool spas**”.

3 Definitions

3.1.9 Replace “Whirlpool baths” by “**Whirlpool baths** and **whirlpool spas**”.

Add the following new definitions:

3.101

whirlpool bath

appliance used by persons to immerse themselves in water and which incorporates provisions for blowing air or water circulation and which may have provisions for water heating, the appliance intended to be drained after use

3.102

whirlpool spa

appliance used by one or more persons at the same time to immerse themselves in water and which incorporates provisions for blowing air or water circulation and provisions for water heating, the appliance not intended to be drained after use

6 Classification

6.2 Replace “Whirlpool baths” by “**Whirlpool baths** and **whirlpool spas**”.

7 Marking and instructions

7.12 Add the following new paragraph:

The instructions for **whirlpool spas** shall provide information concerning

- maintenance of water purity, especially pH values and chlorine concentrations;
- cleaning and disinfection;
- use and installation of a cover;
- disposal of water;
- precautions to avoid damage due to water freezing;
- precautions to avoid damage when the appliance is left empty for an extended period.

7.12.1 Add the following new paragraph:

The installation instructions for **whirlpool spas** shall state that

- the floor has to be capable of supporting the expected load;
- an adequate drainage system has to be provided to deal with overflow water.

11 Heating

11.8 Replace “bath” by “bath or spa”.

15 Moisture resistance

Add the following:

15.1 Addition:

Traces of water on the insulation of parts supplied at **safety extra-low voltage** not exceeding 12 V are ignored.

15.1.2 Replace the text of the addition by the following:

Whirlpool baths and **whirlpool spas** are tested without side panels fitted unless they are an integral part of the appliance.

17 Overload protection of transformers and associated circuits

Replace the existing text by the following:

This clause of Part 1 is applicable except as follows.

Addition:

The test is repeated with chlorinator cells loaded so that the current is 95 % of the lowest current that causes a **protective device** to operate. The test is continued until steady conditions are established.

19 Abnormal operation

19.2 In the first paragraph, replace "bath" by "bath or spa" (in two places).

19.7 Replace "bath" by "bath or spa".

Add the following:

19.13 Addition:

The temperature at the inlet of **whirlpool baths** that have provisions for water heating and **whirlpool spas** shall not exceed 55 °C when measured in accordance with Clause 11.

21 Mechanical strength

Replace the existing text by the following:

This clause of Part 1 is applicable except as follows.

21.1 Addition:

Whirlpool spas are also subjected to the impact test after the appliance has been maintained at a temperature of –10 °C for 24 h, unless they are intended for indoor use only.

NOTE 101 If the appliance is too large for the conditioning room, parts of the appliance may be tested separately. In this case, the impact test is carried out immediately after the conditioning without reassembly.