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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 4793.6-2008

**Safety requirements for electrical for measurement, control, and
laboratory use - Part 6: Particular requirements for laboratory
equipment for the heating of materials**

测量、控制和实验室用电气设备的安全要求 第6部分：实验室用材料加热设备的
特殊要求

(English Translation)

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Foreword

The entire technical content of this section is mandatory.

GB 4793 "Safety requirements for electrical equipment for measurement, control, and laboratory use" is currently divided into 7 parts.

--- Part 1.General requirements (IEC 61010-1);

--- Part 2.Particular requirements for hand-held and hand-operated current sensors for electrical measurement and testing (IEC 6110-2-0232);

--- Part 3.Particular requirements for laboratory mixing and stirring equipment (IEC 61010-2-0051);

--- Part 4.Special requirements for autoclaves for medical materials used in laboratories

(IEC 6110-2-0241);

--- Part 5.Safety requirements for hand-held probe assemblies for electrical measurement and testing (IEC 6110-1031);

--- Part 6.Special requirements for laboratory material heating equipment (IEC 6110-2-0-10);

--- Part 7.Special requirements for laboratory centrifuges (IEC 6110-2-20).

Note: The names of the above parts will change as the IEC standard names change.

This part is Part 6 of GB 4793.

This part is equivalent to adopting IEC 6110-2-0-10..2005 "Safety requirements for electrical equipment for measurement, control and laboratory use-Part 2-10

Sub-Special Requirements for Laboratory Heating Equipment (English version). Its technical content, text structure, and expression are in accordance with IEC 6110-2-10..2005 is completely equivalent.

For ease of use, the following editorial changes have been made in this section.

--- Replace the comma "," with a decimal point "." As a decimal point;

--- Omit the content of the preamble of IEC 6110-2-0-10..2005;

--- For other international standards referenced in IEC 6110-10-2-10..2005, which are equivalent or modified and adopted as our national standards, this

Some of our national standards or industry standards replace the corresponding international standards; the rest are not equivalent or modified and adopted as our national standards

Standard international standards are directly cited in this section.

This section is for GB 4793.6-2001 "Safety laboratory material heating equipment for measurement, control and laboratory electrical equipment

"Special Requirements" (IEC 6110-2-10..1992, IDT).

This section must be combined with GB 4793.1 "Safety requirements for electrical equipment for measurement, control and laboratory use-Part 1.General requirements"

Use. The part that says "applicable" in this part means that the corresponding clause of GB 47.93.1 applies to this part; this part says "replaces" or

The "modified" part indicates that the provisions of this part shall prevail; the part that is marked with "added" in this part indicates that the division shall comply with the corresponding requirements of GB 47393.1.

In addition to the article, the article added in this section must also be met. In order to distinguish the bars in GB 47.93.1, the numbers of the bars added in this section start with 101.

Start, such as 5.2.1101.

Compared with GB 4973.6-2001, this section has major changes. Many clauses have been modified in text. The standard structure follows

GB 4793.1-2007 was adjusted, and some test methods were explained in more detail.

--- Increased the dynamic test of the horizontal heating surface of glass or ceramic materials;

--- Increased surface temperature limits for burn prevention.

This section is proposed by China Machinery Industry Federation.

This section is under the jurisdiction of the National Standardization Technical Committee for Measurement, Control and Laboratory Electrical Equipment Safety (SAC/TC338).

Drafting organization of this section. Institute of Integrated Technology and Economy of Instrumentation for the Machinery Industry.

1 Scope and purpose

Except for the following, the first chapter of GB 47.93.1 applies.

1.1.1 Equipment to which this section applies

instead.

This article is replaced by the following.

This part of GB 4793 is only applicable to laboratory electrical equipment for material heating. Material heating is the only or one of several functions of the equipment.

Note: If the whole or part of the equipment falls within the scope of this part and the scope of one or more other parts in GB 4793, then it also needs to meet

Requirements of other relevant standards in GB 4793. In particular, if the equipment is intended for IVD purposes, it must also meet the requirements of IEC 6110-2-11

Claim.

1.1.2 Equipment not included in the scope of this part

increase.

Add three new entries after i).

- aa) laboratory heating and ventilation equipment;
- bb) disinfection equipment;
- c) The heating equipment accessible to the operator, that is, the space in the equipment when the door of the equipment is closed is sufficient to accommodate the equipment of the operator.

2 Normative references

The clauses in the following documents become the clauses of this section after being quoted in this section of GB 4793. For dated references,

All subsequent amendments (excluding errata) or revisions are not applicable to this section, however, it is encouraged to reach agreement based on this section

The parties studied whether the latest versions of these documents could be used. For undated references, the latest edition applies to this section.

GB 47.93.1 Safety requirements for electrical equipment for measurement, control and laboratory use-Part 1.General requirements (GB 47.93.1-

2007, IEC 61110-1..2001, IDT)

Chapter 2 of GB 47.93.1 applies.

3 Terms and definitions

Chapter 3 of GB 47.93.1 applies.

4 Test

Except for the following, Chapter 4 of GB 47.93.1 applies.

4.3.2 Device status

increase.

Add the following note after the first paragraph.

Note: When in doubt, the test can be performed under more than one combination of conditions.

4.4.2.1 Heating device

increase.

GB 4793.6-2008/IEC 61110-2-0-10..2005

Add the following new second paragraph.