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Performance of room heaters for household and similar purposes

- Part 22: Particular requirements for fan heaters

家用和类似用途室内加热器的性能

第 22 部分：风扇式加热器的特殊要求

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Foreword

QB/T 4096 is the first part of the series of performance standards for household and similar indoor heaters. It is a general requirement. This part is QB/T 4096.22-2011 Performance of room heaters for household and similar purposes - Part 22: Particular requirements for fan heaters.

This Part should be used together with QB/T 4096-2010 Performance of room heaters for household and similar purposes - Part 1: General requirements.

This part is formed by modification or addition of QB/T 4096-2010. Where it states "applicable", it means that the corresponding provisions in QB 4096-2010 apply to this part; where it states "replacement", it means that the provisions in this part shall prevail; where it states "modification", it means that the modified content of the related provisions in the corresponding clauses of QB/T 4096-2010 shall prevail, and the rest content of the clause is still applicable; where it states "addition", it means that the additional provisions in this part shall, at the same time, meet the related provisions in QB/T 4096-2010.

The additional provisions of QB/T 4096 will be numbered from 101.

This Part was proposed by the China Light Industry Federation.

This Part shall be under the jurisdiction of the National Household Electrical Standardization Technical Committee (SAC/TC46).

Main drafting organizations of this Part: SINGFUN Group Co., Ltd., Ningbo SINGFUN Electrical Manufacturing Co., Ltd., Guangdong Midea Environmental Electrical Manufacturing Co., Ltd.

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Performance of room heaters for household and similar purposes

- Part 22: Particular requirements for fan heaters

1 Scope

This chapter of QB/T 4096-2010 is replaced by the following contents:

This Part specifies the terms and definition, product classification, requirements, testing methods, inspection rules, as well as marking, packaging, transportation, storage of fan heaters for household and similar purposes (hereinafter “heaters”).

This part is applicable to heaters – for single-phase appliance, the rated-voltage is not more than 250V; for other appliances, the rated-voltage is not more than 480V; the heaters are used in household or similar venues. The heaters can be portable, fixed, standing etc.

This part is not applicable to:

- Heaters installed in the structure of a building;
- Central heating system;
- Heaters connecting air ducts;
- Wallpaper, blanket, curtain or tube with flexible electric heating components;
- Household room heaters of thermal storage type;
- Bathroom electric heater (bathroom heat lamp fixture).

2 Normative references

This chapter of QB/T 4096-2010 is applicable.

3 Terms and definitions

This chapter of QB/T 4096-2010 is applicable.

Note 102: The test is conducted in the climate laboratory -- laboratory volume of 3600mm (length)×3500mm (width)×2400mm (height), the freezing chamber volume of 1000mm (length)×3500mm (width)×2400mm (height). The heat transfer coefficient of the glass window of this climate laboratory is about 2.80W/(m²·K); the heat transfer coefficient of other walls of the climate lab should all be about 0.25W/(m²·K). For the effect sketch of climate laboratory, refer to appendix AA.

5.7 Not applicable

5.8 Replacement

For heaters equipped with anti-freezing unit, the anti-freezing unit should be able to work normally when the environmental temperature is (7±3) °C.

5.10 Addition

The motor is an electric motor that can implement the forced ventilation function.

5.11 Addition

The heater body rotation mechanism should be able to withstand the test of 100 thousand times continuous rotation. After the test, the body rotation mechanism can still function normally, and the breakage of any wire of the multiple-stranded-wire that passes through the moving parts should not exceed 10%.

Note 101: One-rotation refers to the movement -- starting from the stop position, turn to the maximum rotation angle, then turn to the other side of maximum rotation angle, and then turn back to the stop position.

5.101 Body rotation performance

5.101.1 The rotating mechanism of the heater body should have a switch or a device that controls the rotation and the start/stop of the heater.

5.101.2 The rotating mechanism of the heater body should be able to automatically and continuously rotate, requiring a smooth movement (except for the moment of start of the rotating mechanism and reversal of rotation).

5.101.3 The rotation angle of the heater body shall not be less than 60°, and should not be lower than the indicated value.

5.102 Vibration performance

The amplitude at the left, right and top of the geometric center of the heater body should not be more than 0.08mm.

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