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

GB 4706.13-2014

**Household and similar electrical appliances -- Safety --
Particular requirements for refrigerating appliances, ice-cream
appliances and ice-makers**

(English Translation)

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Table of Contents

Foreword...	4
Introduction...	8
1 Scope...	9
2 Normative References...	11
3 Definitions...	12
4 General requirement...	15
5 General conditions for the tests...	15
6 Classification...	17
7 Marking and instructions...	18
8 Protection against access to live parts...	23
9 Starting of motor-operated appliances...	23
10 Power input and current...	23
11 Heating...	24
12 Void...	28
13 Leakage current and electric strength at operating temperature..	28
14 Transient overvoltage...	28
15 Moisture resistance...	28
16 Leakage current and electric strength...	30
17 Overload protection of transformers and associated circuits...	31
18 Endurance...	31
19 Abnormal operation...	31
20 Stability and mechanical hazards...	34
21 Mechanical strength...	36
22 Construction...	37
23 Internal wiring...	50
24 Components...	50
25 Supply connection and external flexible cords...	52
26 Terminals for external conductors...	53
27 Provision for earthing...	53
28 Screws and connections...	53
29 Clearances, creepage distances and solid insulation...	54
30 Resistance to heat and fire...	54

31 Resistance to rusting...	55
32 Radiation, toxicity and similar hazards...	55
Annexes...	57
Annex C (Normative) Ageing test on motors...	57
Annex D (Normative) Thermal motor protectors...	57

Foreword

All technical contents in this Part are mandatory.

GB 4706 "Safety of Household and Similar Electrical Appliances" is composed of several parts. Part 1 is general requirements and the other parts are special requirements.

This Part is part 13 of GB 4706. This Part shall be used in combination with GB 4706.1-2005 "Safety of Household and Similar Electrical Appliances. Part 1. General Requirements".

This Part is drafted according to the rules specified in GB/T 1.1-2009.

This Part replaces GB 4706.13-2008 "Household and Similar Electrical Appliances - Safety - Part 2-24. Particular Requirements for Refrigerating Appliances, Ice-cream appliances and Ice-makers".

Main differences between this Part and GB 4706.13-200 are as follows.

- The definition of "household or similar use" was defined in the scope of Chapter 1.
- "- It refers to the refrigerating appliances used in the staff kitchens of stores, offices and other working environments;
- The refrigerating appliances used on the farm, and the refrigerating appliances used by hotel guests, motel guests, and guests living in other environments;
- The refrigerating appliances used in family-type inn environments;
- The refrigerating appliances used in catering services and other similar non-retail purposes."
- Chapter 1. The contents of Item 9, Note 2 "the refrigerating appliances (GB 4706.102) with set-in or remote-set refrigerating fluid condensing unit or compressor" were added in the scope of Chapter 1.

- Some normative references were updated in the scope of Chapter 2;
- The definition of 3.112, 3.113, 3.114, 3.115 and 3.116 was added in the scope of Chapter 3;
- The Item 5 in 7.1 was modified to be "the maximum rated power input of the lamp" (W) (It will be not applicable if the lamp is a part of the instrument and can only be replaced by the manufacturer)" in Chapter 7;
- "The warning. fire danger" in 7.1, 7.14 and 7.15 was modified to be "fire danger/combustible material" in Chapter 7;
- The marking requirements were added in 7.6 of Chapter 7;
- The "warning. it can only be filled with drinking water" is modified to be "warning. it can only be filled / top-up with drinking water" in 7.12 of Chapter 7;
- The following contents were added in 7.12 of Chapter 7.

"It is not allowed to keep explosives such as combustion-supporting spray in the appliance.

If the symbol of ISO 7000-1701(2004-01) is employed, its meaning shall be given.

It should include the following contents in the specifications.

This appliance is for household and similar uses, for example.

- In kitchens of shops, offices and other working environments;
- By customers on the farm, hotel, motel, and other residential environments;
- In family-type inn environment;
- For catering services and similar non-retail uses;

Note 104: It shall be clearly specified in instructions if the manufacturer wants to impose restrictions on the scope of application of the appliances."

- Chapter 7.The first sentence in 7.12.1 is modified to be "if the lamp can be replaced by the customer, then the way to do it shall be included in instructions.";
- Chapter 7.The 7.101 is modified to be "if the appliance is battery-powered, then there shall be clear marks on the power-supply terminal or terminal device used for connecting the battery. The symbol 5005 in GB/T 5465.2-2008 shall be marked as

- the positive pole; and the symbol 5006 shall be marked as the negative pole. ";
- Chapter 19.The 19.104 is modified to be "whether it is qualified or not will be tested through the following test. under the condition of the lamp circuit keeping working and the appliance being no-load, close the refrigerating system or make it not operate, open the door or cover, keep it in the most unfavorable position, or close it and choose the most unfavorable condition. ";
- Chapter 22.The structural requirements of appliance for applying trans-critical refrigerating system was added in 22.103;
- The contents of 22.107.3 was added in Chapter 22; The 22.107 is modified to be "whether it is qualified is confirmed through visual inspection and tests of 22.107, 22.107.2, if necessary, to conduct the test of 22.107.3.";
- Chapter 22."simulated leakage shall be made when refrigerating circuit is the most close to the pipeline or at any point of the entrance of the cable entering butterfly, if the refrigerating circuit does not meet corrosion requirements of 22.107.3" was added in 22.107.1;
- Chapter 22.The continuous testing time of the test in 22.107.1 is modified to be "take a measurement of the concentration of leakage refrigerating fluid inside and outside of the butterfly at least every 30 seconds from the beginning of the test to the end of the gas injection which lasts at least 24 hours during the whole period";
- Add contents to 22.111;
- Change 22.111~22.114 in previous standard to 22.112~22.115;
- Add requirements of accessible glass panel in 22.116;
- Chapter 23.Add bending strength test in 23.3;
- Chapter 24.Add requirements of explosive pressure-release device in 24.1.4;
- Modify the chapter and section number of related contents of normative appendix CC "'n' type non-sparking electrical appliances";
- Add informative annex DD "reasonable production specifications of compression-type appliances in employing flammable refrigerant".