

Technical Requirement for Environmental Products
The Certifiable Technical Requirement for Environmental
Labeling Products

Household refrigerators **HJBZ 1—2000**
Replace HJBZ 1—1994

The Certifiable Technical Requirement for Environmental Labeling Products
Household Refrigerators

1 Scope

This technical requirement specifies the definition, basic requirements, technical contents, and test method for environmental labeling products of household refrigerators.

This technical requirement shall apply to motor driven vapor compression household refrigerators or freezers which is 500L below.

2 Standards cited

Provisions in the following criteria are cited in this technical requirement, in which therefore form the provisions of it, have the same effectiveness as the technical requirement itself.

GB 4214—1984 Determination of sound power levels of noise emitted by household electrical appliances

GB 4343—1995 Limits and methods of measurement of radio disturbance characteristics of electrical motor-operated and thermal appliances for house-hold and similar purposes, electric tools and similar electric apparatus

GB 4706.1—92 Safety of household and similar electrical appliances Part 1:General requirements

GB 4706.13—1998 Safety of household and similar electrical appliances particular requirements for refrigerators, food-freezers and ice-makers

GB/T 8059.1—1995 Household refrigerating appliances--Refrigerators

GB/T 8059.2—1995 Household refrigerating appliances--Refrigerator-freezer

GB/T 8059.3—1995 Household refrigerating appliances--Freezers

GB/T 8059.4—93 Household refrigerating appliances--Frost-free refrigerators, frost-free refrigerator-freezers, frost-free frozen food storage cabinets and frost-free food freezers

JB 4017—1985 Limits and methods for measuring noise of household refrigerators

In case of the criteria above are revised, the latest version should be applied.

3 Definition

3.1 Household refrigerator (hereinafter referred to as refrigerator)

It is a household insulated box with certain volume and fittings; by means of consuming electric energy/electric quantity, it makes low temperature circumstance inside; and it has one or more chambers. It includes refrigerator, freezer, and refrigerator-freezer.

3.2 Refrigerator

It is a household insulated box with certain volume and fittings; by means of consuming electric energy/electric quantity, it makes low temperature circumstance inside; and it has one or more chambers. It has one refrigerating chamber at least.

3.3 Freezer

It is a household insulated box with certain volume and fittings; by means of consuming electric energy/electric quantity, it makes low temperature circumstance inside; and it has one or more chambers.

It has one freezing chamber at least. In these chambers and under the specific freezing load test conditions, 4.5kg testing package per 100L effective volume can be frozen within 24h; and foodstuff can be stored in required conditions.

3.4 Refrigerator-freezer

It is a household insulated box with certain volume and fittings; by means of consuming electric energy/electric quantity, it makes low temperature circumstance inside; and it possess two or more chambers. It has at least one refrigerating chamber, which is suitable for storing foodstuff that need not be frozen, and at least one freezing chamber, which is suitable for freezing food and storing frozen food at -18°C or -18°C below.

3.5 Electric energy/quantity consumption

It means the consumption of electric energy/quantity of refrigerator within 24 hours in its stable operation mode. The determination should be conducted at ambient temperature of 24°C (for Type SN, N, ST) or 32°C (for Type T) when it is tested according to the specified method.

4 Basic requirements

4.1 Product performance should conform to the requirement described by GB/T8059.1—1995, GB/T 8059.2—1995, GB/T8059.3—1995, GB/T8059.4—93.

4.2 Safety performance of products should conform with the requirements in GB 4706.1—92, GB 4706.13—1998.

4.3 Pollutant emission of the company should be obliged to conform with pollutant emission standards nationally or locally.

5 Technical contents

5.1 CFCs are not allowed to be used as refrigerant in products.

5.2 CFCs are not allowed to be used as foaming agent in products.

5.3 Products should conform with the requirement in GB 4343—1995.

5.4 Electric energy/quantity consumption of products should meet the requirements of power consumption efficiency for Class A or Class B in Annex E of GB/T 8059.1~2 and annex D of 8059.3~4.

5.5 No evident noise should be produced when refrigerator is running. Its sound power level should not be higher than 44dB (A).

6 Test

6.1 Provisions of 5.1 and 5.2 in the technical contents should be verified by way of field inspection.

6.2 Electricity consumption should be determined by adopting method specified in GB/T 8059.1~4.

6.3 Determination for noise should adopt the methods specified by GB 4214—1984, JB 4017—1985.

6.4 Provision 5.3 in the technical contents should be verified according to the method described by GB 4343—1995.

Annotations:

This technical requirement has been prepared by Department of science and technology, standards of State Environment Protection Administration.

The State Environment Protection Administration keeps the right of interpretation for this technical requirement.