

ICS 97.030



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

GB/T 2423.50-2025

**Environmental testing - Part 2: Test methods - Test Cy: Damp
heat, steady state, accelerated test primarily intended for
components**

(English Translation)

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Foreword

This standard was drafted in accordance with the rules of GB/T 1.1-2009.

This standard was proposed by the Federation of Light Industry.

This standard shall be under the jurisdiction of the National Household Electrical Appliances Standardization Technical Committee (SAC/TC 46).

The drafting organizations of this standard. China Household Electrical Appliances Association, Guangdong Media Refrigeration Equipment Co., Ltd., Zhuhai Gree Electric Co., Ltd., Qingdao Haier Air Conditioner Limited Company, TCL Air Conditioner (Zhongshan) Co., Ltd., Hisense Kelon Electric Co., Ltd., Ministry of Public Security Tianjin Fire Research Institute, Huazhong University of Science and Technology.

1 Scope

This standard specifies the safety requirements related to the land transportation of room air-conditioner employed the flammable refrigerants (hereinafter shortly referred to as air conditioner) after exit-factory.

This standard applies to the room air-conditioner products as defined in GB/T

7725.

The mobile air-conditioners as defined in GB/T 22257 AND the dehumidifier as defined in GB/T 19411 may make reference to this standard.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB 4706.32 Safety of household and similar electrical appliances -

Particular requirements for heat pumps, air-conditioner and dehumidifier

GB/T 7725 Room air conditioners

GB/T 7778 Number designation and safety classification of refrigerants

GB 13392 The vehicle mark for road transportation dangerous goods

GB 18565 Composite performance requirement and detecting methods for road transport vehicles

GB/T 19411 Dehumidifiers

3 Terms and definitions

The terms and definitions as defined in GB/T 7725 and GB 4706.32 AND the following terms and definitions apply to this document.

3.1

Flammable refrigerant

The refrigerant classified into type A2 and A3 in accordance with GB/T 7778.

3.2

Air-conditioner transportation

The logistics activities of transporting the air conditioners from one place to another, including collecting, distributing, handling, transferring, loading, unloading and distribution.

3.3

Package

The general name of vessels, materials and auxiliary materials used to protect the product, facilitate transportation, and prompt sale during the circulation process in accordance with certain technical methods. AND it also refers to the operational activities of applying a certain technical method in the process of using the vessels, materials, and auxiliary materials to achieve the aforementioned purposes.

4.2.1 The air-conditioners and their components which had been filled with inflammable refrigerants shall use the packaging film made of anti-static material.

5.1.1 Transport vehicles may use general cargo trucks, AND the technical conditions of the vehicle shall comply with the class I vehicle conditions as specified in JT/T 198.

5.1.5 The vehicles shall be configured with the signs complying with GB 13392, the side and tail shall be attached with orange white or red white reflective strip, which shall be used in accordance with provisions.

5.2.1 Units engaged in air conditioner transport shall have the corresponding facilities and equipment to ensure the safe transport of air conditioners.

5.2.2 It shall use the tools which will not produce sparks in loading and unloading air conditioners, it is prohibited of smoking in the carriage, AND the vehicle shall be kept away from open fire or high temperature places. The vehicle shall be installed of the grounding line, which shall be regularly checked.

6.1.1 The driver and relevant staff shall be noticed of the knowledge on transporting this type of air-conditioner product.

6.1.4 The air-conditioner shall be fixed tightly before being transported to avoid movement or friction, AND meanwhile the fixation method shall not cause the damage to the cargo or packaging box.

6.1.5 Check whether the cargo is stacked neatly, and the height shall not exceed the stacking height as specified on the package.

6.1.6 During van truck transportation or container transportation, if there is gap more than 10 cm between the air-conditioner and the side wall of the container or van truck carriage, it shall be filled by non-inflammable materials.

6.2.1 During transport, it shall control the vehicle speed, keep safe distance, avoid illegal overtaking, AND avoid emergency braking as far as possible.

6.2.6 If cargo loss occurs due to cargo package damage in the transportation process, it must keep away from the vehicle for 3 m before reporting to the shipper immediately.

7.1.1 The cargos shall be immediately unloaded after reaching to the unloading point, AND it shall be under the custody by special person during cargo unloading.

7.1.2 During loading and unloading, it is prohibited for blocking the fire engine access. The driver shall ensure the unblocked communication AND not move away from the vehicle.

7.1.9 The loading and unloading site shall be equipped with the dry powder fire extinguisher or other appropriate firefighting devices in the valid period.

7.2.1 During loading and unloading, the engine of the transportation vehicle must be shut down and the power supply cut off.