

ICS 43.080.20



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

GB/T 43407.4-2023

**Road vehicles -- Ergonomic requirements for the driver's
compartment in low-floor line-service buses -- Part 4:
Compartment environment**

道路车辆 低地板专线行驶客车驾驶区人体工程学要求 第4部分：驾驶区环境
(English Translation)

Issued on: December 28, 2023

Implemented on: April 1, 2024

Issued by: State Administration for Market Regulation

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 Directives

for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents.

This document is Part 4 of GB/T 43407 Road Vehicles - Ergonomic Requirements for the Driver's Compartment in Low-floor Line-service Buses. GB/T 43407 has issued the following

parts:

---Part 1: General Description and Basic Requirements;

---Part 2: Visibility;

---Part 3: Information Devices and Controls;

---Part 4: Compartment Environment.

This document modifies and adopts ISO 16121-4:2011 Road Vehicles - Ergonomic Requirements for the Driver's Workplace in Line-service Buses - Part 4: Cabin Environment.

In comparison with ISO 16121-4:2011, the technical differences and the reasons for these differences are as follows:

---The term "low-floor" and its definition are deleted (see 3.1 of ISO 16121-4:2011), so as

to avoid duplication of definitions;

---The term "efficiency or penetration" and its definition are deleted (see 3.3 of ISO 16121-4:2011), so as to adapt to the requirements of Chinese standards;

---The term "time zero" and its definition are deleted (see 3.4 of ISO 16121-4:2011), because it is not quoted in this document;

---The requirements for the heating system are modified, specific requirements for the operating performance of the heating system are added (see Table 1), and the normative reference of GB/T 12782 is added (see 4.2.1), so as to adapt to the technical conditions of China and enhance the operability;

---The requirements for the cooling system are modified, specific requirements for the operating performance of the cooling system are added (see Table 2), and the normative reference of JT/T 216 is added (see 4.2.2), so as to adapt to the technical conditions of China and enhance the operability;

---The normative reference of GB 11555 is used to replace SAE J381 (see 4.4.1), so as to adapt to the technical conditions of China and enhance the operability;

---The normative reference of GB/T 24552 is added (see 4.4.1), so as to add the requirements for the defrosting and demisting performance of electric buses;

Road Vehicles - Ergonomic Requirements for the Driver's

Compartment in Low-floor Line-service Buses - Part 4:

Compartment Environment

1 Scope

This document specifies the minimum requirements for the environment of the driver's compartment of low-floor line-service buses.

This document is applicable to the design of the driver's compartment of Category-M3 low-floor line-service buses with a width greater than 2.30 m.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date,

only

versions with a specified date are applicable to this document. In terms of references without a

specified date, the latest version (including all the modifications) is applicable to this document.

GB 11555 Motor Vehicles-windshield Demisting and Defrosting Systems - Performance Requirements and Test Methods

GB/T 12782 Requirement and Test Method of Heating Performance for Motor Vehicle

GB/T 24552 Electric Vehicles - Windshield Demisters and Defrosters System - Performance Requirements and Test Methods

GB/T 25982 Permissible Levels and Test Methods of Bus Internal Noise

GB/T 43407.2-2023 Road Vehicles - Ergonomic Requirements for the Driver's Compartment

in Low-floor Line-service Buses - Part 2: Visibility (ISO 16121-2:2011, MOD)

JT/T 216 Bus Air Conditioning System Specifications

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 test air flow rate

The average volume of air passing through the filter per unit time.

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