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

GB/T 33193.1-2016

**Air conditioning for main line rolling stock -- Part 1: Comfort
parameters**

铁道车辆空调 第1部分：舒适度参数

(English Translation)

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Foreword

GB/T 33193 "Railway vehicle air conditioning" is divided into the following two parts.

- Part 1. comfort parameters;

Part 2. Type test.

This part is part 1 of GB/T 33193.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is owned by the National Railway Administration.

This part of the drafting unit. Qingdao Sifang Vehicle Research Institute Co., Ltd., South Locomotive Qingdao Quartet Locomotive & Rolling Stock Co., Ltd., Changchun track Bus Co., Ltd., Tangshan Railway Passenger Car Co., Ltd., Shijiazhuang Guoxiang Transportation Equipment Co., Ltd.

1 Scope

This part of GB/T 33193 specifies the comfort parameters of a railway vehicle (single or double bus) compartments or compartments and air conditioning Performance requirements and other content, comfort parameters also apply to the restaurant outside the service area outside the staff dedicated area.

This section applies to passenger railways and EMUs other than suburban vehicles, subways, trams and cabs.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 12816 Railway internal noise limits and measurement methods GB/T 12817 General technical conditions for railway passenger cars Railway vehicles - Air conditioners - Part 2. Type tests GB/T 33193.2-2016 Code for design of heating, ventilation and air conditioning for industrial buildings GB 50019

3 Terms and definitions

The following terms and definitions apply to this document.

Comfort

People for their climate environment (temperature, humidity, wind speed, etc.) the sense of care.

Air conditioning unit airconditioninginstalation Used for ventilation, heating, cooling, filtration devices.

Forced ventilation

The air produced by mechanical action.

Preheating

The process of raising the temperature in the absence of passengers.

Precooling

The process of reducing the temperature in the car without passengers.

Heating

The process of raising or maintaining the temperature inside the vehicle.

Cooling

The process of reducing or maintaining the temperature inside the vehicle.