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General technical requirements for energy-saving control system for ventilation and air conditioning system in urban rail transit stations

城市轨道交通车站通风空调节能控制系统通用技术条件

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China.

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Energy-saving control of ventilation and air conditioning in urban rail transit stations General technical conditions of the system

1 Scope

This document specifies the overall requirements, performance requirements, hardware configuration, software functions, and energy-saving control systems for ventilation and air conditioning in urban rail transit stations.

Energy, power distribution, interface and adjustment, testing and acceptance, operation and maintenance, marking, packaging, transportation and storage.

This document is applicable to the energy conservation of electric driven water-cooled ventilation and air conditioning systems for new construction, expansion and renovation of stations, as well as energy conservation renovation of existing stations.

Control system, energy-saving control of other types of ventilation and air-conditioning systems shall be implemented for reference.

2 Normative references

GB/T 14549

GB/T 17215.301

GB 17625.1

GB/T 17626.3

GB/T 27418

GB/T 29618

GB/T 31230

GB 50093

GB 50339

GB 50365

GB 50411

GB 51348

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 A software and hardware integrated control system with dynamic approach adjustment

Applicable to urban rail transit stations, it consists of energy-saving control cabinets, workstations, sensors, actuators, communication networks, energy-saving control and management software By sensing the internal and external environmental parameters of the air-conditioning area and the operating status parameters of the air-conditioning system, the cooling capacity is output according to the load demand changes.