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

GB/T 32348.2-2015

**Electrical resistance trace heating systems for industrial and
commercial applications -- Part 2: Application guide for system
design, installation and maintenance**

工业和商业用电阻式伴热系统 第2部分：系统设计安装和维护应用指南

(English Translation)

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Foreword

GB/T 32348 "for industrial and commercial use resistive heating system" is divided into the following two parts.

--- Part 1. General and testing requirements;

--- Part 2. system design, installation and maintenance applications guide.

This section GB/T Part of 232,348.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using IEC 62395-2:2013 "industrial and commercial resistance trace heating systems - Part 2. system design Meter installation and maintenance Application Guide. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB 5959.1 electric safety devices - Part 1. General requirements (GB 5959.1-2005, IEC 60519-1:2003, IDT) for ease of use, this part of IEC 62395-2:2013 made the following editorial changes.

--- Delete foreword international standards;

--- "This standard" be replaced by "of this section." this part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Electric Equipment Industry Standardization Technical Committee (SAC/TC121) centralized.

This section is drafted. Wuhu Jia-hong New Materials Co., Ampang Electric Group Co., Ltd., Wuhu City Branch-electric material limited liability any company, Xi'an Institute Furnace Co., BARTEC explosion-proof equipment (Shanghai) Co., Pentair Thermal Control Technology (Shanghai) Co., Ltd.

Furnace State Quality Supervision and Inspection Center.

1 Scope

GB/T 32348 in this part of the resistive heating system design in industrial and commercial applications, installation, maintenance and repair made Detailed recommendations. This section does not include potentially explosive atmospheres in any application.

This section applies to electric heating system relates to the factory or assembly site (construction site) mounting assembly, and has been in accordance with the manufacturer's Series and parallel with the surface of the heater or heater assembly out and/or terminated (with heating pads and hot plate).

Some of the products covered by the appropriate technical training personnel trained to install, and can only be performed by trained personnel especially critical Work, such as joints and the end of the installation. Installation required under the supervision of a qualified electrician perform the electrician should have received electric heating system complements Charge training.

This section does not include induction, impedance or skin effect heating.

Electric heating system can be divided into different types of applications under different conditions after installation and installation need to meet different test requirements.

Electric heating systems are generally applicable to a specific type of device or application. Typical applications of different types of installation include, but are not limited to.

a) piping, vessels and associated equipment for heating surface heating device applications include.

- Freeze protection and temperature;
- Hot water pipes;
- Petroleum and chemical pipeline;
- Sprinkler systems.

b) outdoor open space heating devices, applications include.

- Roof de-icing;
- Drains and sewers de-icing;
- Sump and drain;
- Track heated.

c) heating systems with embedded devices, applications include.

- Snow;
- Warm;

- Prevent ice expansion;
 - Underground thermal energy storage system;
 - Doorframe.
- d) conduit or pipe with an internal heating system installation, applications include.
- Snowmelt (in conduit);
 - Frost protection (in conduit);
 - Warm (in conduit);
 - Energy storage system (in conduit);
 - Internal piping drinking water heating;
 - Closed drains and sewers.