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PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国城镇建设行业标准

CJ/T 421-2013

Replace CJ/T 3074-1998

Electronic controller of household gas burning appliances

家用燃气燃烧器具电子控制器

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Foreword

This Standard was drafted according to the rules specified in GB/T 1.1-2009.

This Standard replaces CJ/T 3074-1998 *Electronic Controller of Household Gas Burning Appliances*.

This Standard is the amendment to CJ/T 3074-1998 *Electronic Controller of Household Gas Burning Appliances*, and the main changes in technical respect compared with CJ/T 3074-1998 are as follows:

- a) Added the controller classification, deleted the content of "model number" (see Chapter 4; Chapter 4 in 1998 version);
- b) Supplemented the controller structure design requirements and circuit structure requirement for internal fault protection (see Chapter 5; 5.3 in 1998 version);
- c) Supplemented the electrical safety and electromagnetic compatibility requirements (see 6.5, 6.6; Chapter 5 in 1998 version);
- d) Modified the requirements for controller function and divided into different modules requirements according to function (see 6.1; 5.1, 5.2 in 1998 version);
- e) Modified the requirements for thermal stress, continuous operating performance and internal fault protection (see 6.2, 6.3, 6.4; 5.1 in 1998 version);
- f) Modified the special requirements for "battery-powered controller" (see Annex H; Chapter 5 in 1998 version);
- g) Deleted the "salt fog test" and "vibration resistance test" (see 5.1 in 1998 version). In order to maintain consistent with GB 16914-2012 *Technical Condition for Safety of Gas Burning Appliances*, this Standard provides correspondence table in Annex J to show provisions in this Standard that support basic requirements of GB 16914-2012.

This Standard is proposed by Standard Rating Institute of Ministry of Housing and Urban-rural Development.

This Standard is under jurisdiction of Gas Technical Committee for Standardization of the Ministry of Housing and Urban-rural Development.

This Standard is drafted by: Guangdong Vanward New Electric Co., Ltd., North China Municipal Engineering Design & Research Institute, Guangdong Macro Gas Appliance

Electronic controller of household gas burning appliances

1 Scope

This Standard specifies terms and definitions, classification, structure, requirements, test method, inspection rules, designation, installation and operation instructions, packaging, transportation and storage of electric controller (hereinafter referred to as the controller) for household gas burning appliances that uses urban gas specified in GB/T 13611.

This Standard applies to production and inspection of electric controller for household gas burning appliances.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2008, ISO 780:1997, MOD)

GB/T 2828 (All parts) Sampling procedures for inspection by attributes

GB 4706.1-2005 Household and similar electrical appliances-Safety-Part 1: General requirements (IEC 60335-1: 2004 (Ed4.1), IDT)

GB/T 13611 Classification and essential property of city gas

GB/T 14004 Fixed capacitors for use in electronic equipment — Part 6: Sectional specification Fixed metallized polycarbonate film dielectric d.c. capacitors (GB/T 14004-1992, idt IEC 60384-6: 1987)

GB/T 14472 Fixed capacitors for use in electronic equipment --Part 14: Sectional specification Fixed capacitors for electromagnetic interference suppression and connection to the supply mains (GB/T 14472-1998, idt IEC 60384-14: 1993)

GB 14536.1-2008 Automatic electrical controls for household and similar use - Part 1: General requirements (IEC 60730-1: 2003 (Ed3.1), IDT)

GB 14536.6-2008 Automatic electrical controls for household and similar use - Particular



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