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

GB 29539-2013

**The minimum allowable values of energy efficiency and energy
efficiency grades for range hoods**

吸油烟机能效限定值及能效等级

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1 Scope

GB 29539-2013 is the Chinese national standard on the minimum allowable values of energy efficiency and energy efficiency grades for range hoods, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 9 June 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2013. Classification: ICS 27.010, CCS F01. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This Standard specifies the energy efficiency grades, minimum allowable values, evaluating values of energy conservation, test methods and inspection rules for range hoods. This Standard applies to the air-extraction range hood, whose rated voltage does not exceed 250 V, which is installed on the upper part of household cooking stove, range or similar appliances.

2 Normative references

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

GB/T 2828.1, Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829, Sampling procedures and tables for periodic inspection by attributes (apply to inspection of process stability)

GB/T 17713-2011, Range hood

3 Terms and definitions

Terms and definitions determined by GB/T 17713-2011 and the following ones are applicable to this document.

3.1 Minimum allowable values of energy efficiency for range hoods The minimum allowable value energy efficiency of the range hood under the specified test conditions.

3.2 Evaluating values of energy conservation for range hoods The minimum allowable value of energy efficiency of an energy-saving range hood under the specified test conditions.

3.3 Standby mode The status in which the range hood is connected to the power supply, and only provides restart, information or status display (including clock) functions, but does not provide any main functions.

Note: The restart function refers to a function that enables the appliance to switch to the main function mode by means of remote control, internal sensor or timing clock.

3.4 Off mode The status in which the range hood is connected to the power supply, but does not provide any standby mode function or main function.

Note: It is also regarded as the off mode when only the off-status indication (such as light-emitting diode) is provided.

3.5 Standby power The active power of the range hood in standby mode, in watts (W).

3.6 Off power The active power of the range hood in off mode, in watts (W).

4 Energy efficiency grades

The energy efficiency of range hoods is graded according to total pressure efficiency, standby power, off power, normal odour reduction factor, and grease emission limits. Its energy efficiency is divided into 5 grades (see Table 1), of which grade 1 has the highest energy efficiency. The energy efficiency value of products of each grade shall meet the requirements of Table 1. Table 1 - Energy efficiency grades for range hoods