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Minimum allowable values of the energy efficiency and energy efficiency grades for lithium bromide absorption chillers

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Contents

Foreword.....	3
1. Scope.....	4
2. Normative references.....	4
3. Terms and definitions	4
4. Technical requirements	5
5. Test methods.....	6
6. Inspection rules.....	6

Foreword

Article 4.2 in this Standard is mandatory; the rest are recommended.

This Standard is drafted based on rules given in GB/T 1.1-2009.

This Standard was proposed by the Resources Economization & Environmental Protection Department under the National Development and Reform Commission, and the Energy Conservation and Comprehensive Utilization Department under the Ministry of Industry and Information.

This Standard shall be under the jurisdiction of the National Technical Committee on Energy Fundamentals and Management of Standardization Administration of China (SAC/TC 20).

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Minimum Allowable Values of the Energy Efficiency and Energy Efficiency grades for Lithium Bromide Absorption Chillers

1. Scope

This Standard specifies the minimum allowable values of energy efficiency, evaluating values of energy conservation, energy efficiency grades, test methods, and inspection rules for lithium bromide absorption chillers.

This Standard is applicable to lithium bromide absorption chillers for air conditioning use or industry use, with steam as heat source, or with the direct combustion of fuel or fuel gas as heat source, but not applicable to chillers with 2 or more combined heat sources.

2. Normative references

The following documents are indispensable for application of this document. For the dated documents so quoted, only the dated versions apply to this document. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 18362 Direct-fired lithium bromide absorption water chiller (heater)

GB/T 18431 Steam and hot water type lithium bromide absorption water chiller

3. Terms and definitions

For the purpose of this Standard, the terms and definitions in GB/T 18362 and in GB/T 18431 shall apply.

3.1 Minimum allowable values of energy efficiency for lithium bromide absorption chillers

Under the specified working conditions, for the steam unit, it refers to the maximum allowable volume of steam that is consumed to make one unit of refrigerating capacity; for the direct-fired unit, it refers to the minimum value of performance coefficient.

3.2 Evaluating values of energy conservation for lithium bromide absorption chillers

5. Test methods

Test shall be conducted in accordance with the methods specified in GB/T 18341 or GB/T 18362, according to any one of the working conditions as specified in GB/T 18431 or GB/T 18362. The actual tested values shall be corrected to two decimal places.

6. Inspection rules

Take one sample from the same batch of products; test its consumed volume of steam to make one unit of refrigerating capacity or performance coefficient. If it fails to satisfy the requirements, take another two samples to conduct the test. The actual tested values shall all satisfy the requirements, otherwise, this batch of products are judged as unqualified.

For single product, test its consumed volume of steam to make one unit of refrigerating capacity or performance coefficient; if it fails to satisfy the requirements, this product is judged as unqualified.

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