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Absorption refrigerating machines

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Contents

Page

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Refrigeration and Air Conditioning Industry Association (JRAIA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 8622**: 2009 has been replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, or utility model right which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, and utility model right which have the said technical properties.

Absorption refrigerating machines

Introduction

This Japanese Industrial Standard was established in 1986 and has gone through four revisions up to the present. The most recent revision was implemented in 2009 and the revision at this time is to meet the demands for practical markings of part load value and markings of performance during the use of waste heat.

No corresponding international standard has been established at this point.

1 Scope

This Standard specifies absorption refrigerator, absorption chiller/heater and absorption heat pump (hereafter referred to as absorption refrigerating machine), each having a refrigerating capacity of 25 kW or over. The absorption refrigerating machine uses absorption refrigeration cycle through equipment like the generator (including high temperature generator and low temperature generator), condenser, absorber and evaporator. In order to cool or heat water, the machine uses water as refrigerant, uses lithium-bromide water solution as absorbent solution, and supplies driving heat source with the generator or high temperature generator.

NOTE 1 Driving heat sources are city gas, liquefied petroleum gas, oil, steam, driving heat source hot water, driving heat source exhaust gas, etc.

NOTE 2 Unless otherwise specified, the pressure described in this Standard refers to a gauge pressure.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7410 *Liquid-in-glass thermometers for testing of petroleum product*

JIS B 7411-1 *Glass thermometers for general — Part 1 : General measuring instruments*

JIS B 7505-1 *Aneroid pressure gauges — Part 1 : Bourdon tube pressure gauges*

JIS B 7551 *Variable area flowmeters*

JIS B 7554 *Electromagnetic flowmeters*

JIS B 7982 *Automated measuring systems and analyzers for nitrogen oxides in flue gas*

JIS B 7983 *Continuous analyzers for oxygen in flue gas*

JIS B 7987 *Continuous analyzers for carbon monoxide in flue gas*