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Safety code for small refrigerating equipment

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Foreword

This Japanese Industrial Standard has been 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 a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS B 8620**:2002), which has been technically revised.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

Safety code for small refrigerating equipment

1 Scope

This Japanese Industrial Standard specifies the safety code for the parts of small refrigerating equipment using a compressor, which receive the refrigerant pressure, in order to ensure the safety against the refrigerant pressure. Small refrigerating equipment refers to the refrigerating equipment of which the refrigerating capacity of one refrigerant circulation system per day is 0.2 t or over to and excluding 5 t, using carbon dioxide and inert fluorocarbon (including specific inert gas) whose saturation vapour pressure at the temperature of 35 °C is over 0.2 MPa up to and including 3 MPa as the refrigerant. However, the following shall be excluded.

a) Refrigerating equipment used at the steam temperature of −60 °C or lower

b) Air conditioners for automobiles

NOTE Unless otherwise specified, “pressure” in this Standard refers to “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 8240 *Construction of pressure vessels for refrigeration*

JIS B 8265 *Construction of pressure vessel—General principles*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1

refrigerating equipment

equipment intended for refrigeration, composed of a refrigerant facility and others (a motor for driving compressor, refrigerant controller, etc.)

Heat pump equipment is included.

3.2

refrigerant facility

part in refrigerating equipment, receiving the pressure due to the pass of refrigerant

A lubricant system receiving the refrigerant pressure is included.

NOTE A refrigerant facility consists of a compressor, pressure vessel, piping, valve, safety device and the like.