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**Small-size reciprocating air
compressors**

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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 Society of Industrial Machinery Manufacturers (JSIM)/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 8342**:1986 is replaced with this Standard.

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Small-size reciprocating air compressors

1 Scope

This Japanese Industrial Standard specifies the feed-oil type or non-feed-oil type single-acting air-cooled single-stage reciprocating air compressors having the maximum pressure of 0.2 MPa to 1.0 MPa and the single-acting air-cooled two-stage reciprocating air compressors having the maximum pressure of 0.7 MPa to 1.4 MPa, actuated with electric motors with a rated output of not more than 11 kW or internal combustion engines equivalent thereto, which can be used as the compressor main body by itself or as mounted on an air tank, or as housed in a soundproof cover, to be used as various types of air-supply source (hereafter referred to as “compressors”).

The gas handled in the compressors shall be air having a temperature of -5°C to 40°C at the atmosphere. The case where antifreezing measures are particularly required because of the temperature 0°C or lower shall be subject to the agreement between the parties concerned.

NOTE : The maximum pressure refers to the pressure under which the automatic start-stop apparatus (pressure switch), the capacity control apparatus (automatic unloader) or the electronic control device actuates.

2 Normative references

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

3 Types

The compressors shall be divided into the types as shown in table 1 by the lubricating system, number of stages, rated output of the electric driving motor and the maximum pressure of the compressors. The intermediate values in table 1 may be taken as the maximum pressure.