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(JEMA)

**Non-ducted air conditioners and heat
pumps — Testing and rating for
performance**

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In the event of any doubts arising as to the contents,
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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 Electrical Manufacturers' Association (JEMA) 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 8615-1** : 2013), which has been technically revised.

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JIS B 8615 series consists of the following 3 parts:

- JIS B 8615-1 *Non-ducted air conditioners and heat pumps — Testing and rating for performance*
- JIS B 8615-2 *Ducted air-conditioners and air-to-air heat pumps — Testing and rating for performance*
- JIS B 8615-3 *Multiple split-system air-conditioners and air-to-air heat pumps — Testing and rating for performance*

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Non-ducted air conditioners and heat pumps — Testing and rating for performance

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 5151** : 2017, Edition 3, and its Amendment 1 : 2020, with some modifications of the technical contents reflecting unique conditions in Japan. The amendment to the said International Standard has been incorporated into this Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies performance testing, the standard conditions and the test methods for determining the capacity and efficiency ratings of residential, commercial and industrial single-package and split-system air conditioners and heat pumps that are:

- factory-made, electrically driven and utilizing mechanical compression;
- utilizing single, multiple and variable capacity components.

This Standard is applicable to:

- non-ducted air-cooled air conditioners and non-ducted air-to-air heat pumps;
- ducted air conditioners and ducted heat pumps rated at less than 8 kW and intended to operate at an external static pressure of less than 25 Pa;
- air conditioners or heat pumps (multi-split air conditioners that simultaneously operate all indoor units at all time) utilizing one or more refrigeration systems, one outdoor unit and one or more indoor units, controlled by a single thermostat/controller.

This Standard is not applicable to:

- a) water-cooled air conditioners or water-source heat pumps;
- b) multi-split-system air conditioners and air-to-air heat pumps;
- c) mobile (windowless) units having a condenser exhaust duct;
- d) individual assemblies not constituting a complete refrigeration system;
- e) equipment using the absorption refrigeration cycle;
- f) ducted equipment except for those specified in this clause.

NOTE 1 For testing requirements for these categories of equipment, see **JIS B 8615-2** and/or **JIS B 8615-3**.