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ISO 5151:2017+A1:2022

DRAFT TANZANIA STANDARD

(Draft for comments only)

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

TANZANIA BUREAU OF STANDARDS

1 National Foreword

This draft Tanzania Standard is being prepared by the Energy Efficiency Technical Committee, under the supervision of the Electrotechnical Divisional Standards Committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard ISO 5151:2017+A1:2022, *Non-ducted air conditioners and heat pumps-Testing and rating for performance*, which has been prepared by the International Organization for Standardization (ISO).

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania Standards; Attention is drawn especially to the following:

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker; and
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

3 Scope

This draft Tanzania standard specifies performance testing, the standard conditions and the test methods for determining the capacity and efficiency ratings of air-cooled air conditioners and air-to-air heat pumps.

This draft Tanzania standard is applicable to the following equipment:

- non-ducted air-cooled air conditioners and non-ducted air-to-air heat pumps; or
- ducted air conditioners and/or ducted heat pumps rated at less than 8 kW and intended to operate at an external static pressure of less than 25 Pa.

It is also limited to:

- residential, commercial and industrial single-package and split-system air conditioners and heat pumps;
- factory-made, electrically driven and use mechanical compression;
- utilizing single, multiple and variable capacity components;
- multiple split-system utilizing one or more refrigeration systems, one outdoor unit and one or more indoor units, controlled by a single thermostat/controller.

The requirements of testing and rating contained in this document are based on the use of matched assemblies.

This draft Tanzania standard is not applicable to the rating and testing of the following:

- a) water-source heat pumps or water cooled air conditioners;
- b) multi-split-system air conditioners and air-to-air heat pumps (follow ISO 15042 for the testing of such equipment);
- 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 (follow ISO 13253 for the testing of such equipment).

