



DRAFT TANZANIA STANDARD

(Draft for comments only)

Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor.

TANZANIA BUREAU OF STANDARDS



1 National Foreword

This draft Tanzania Standard has been prepared by the TBS Electrical Equipment Technical Committee, under the supervision of the Electrotechnical Divisional Standards Committee (EDC)

This draft Tanzania Standard is identical to International Standard IEC 60335-2-89:2019 Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor, which has been prepared by the International Electrotechnical Commission.

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.
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”



HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –

SAFETY –Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 specifies safety requirements for electrically operated commercial refrigerating appliances and ice-makers that have an incorporated motor-compressor or that are supplied in two units for assembly as a single appliance in accordance with the instructions (split system).

NOTE 101 Examples of appliances that are within the scope of this standard are

- refrigerated display and storage cabinets;
- refrigerated trolley cabinets;
- service counters and self-service counters;
- blast chillers and blast freezers;
- commercial ice-makers.

As far as is practicable, this standard deals with the common hazards presented by these types of appliances including those that use flammable refrigerants and appliances employing R-744 refrigerant.

This International Standard is not applicable to appliances with a mass of flammable refrigerant exceeding the limits specified in 22.110 or to appliances with that use refrigerants with a toxicity classification of B according to ISO 817.

It does not cover those features of construction and operation of refrigerating appliances that are dealt with in ISO standards.

NOTE 102 Attention is drawn to the fact that



– for appliances intended to be used in vehicles or aboard ships or aircraft, additional requirements can be

necessary;

– in many countries, additional requirements are specified by national health authorities, the national authorities

responsible for the protection of labour, the national water supply authorities and similar authorities.

NOTE 103 This standard does not apply to

- appliances using flammable refrigerant in transcritical refrigeration systems;
- domestic refrigerating appliances (IEC 60335-2-24);
- split systems having a refrigerant charge of flammable refrigerant exceeding 150 g in any refrigerating circuit;
- industrial refrigerating systems;
- motor-compressors (IEC 60335-2-34);
- commercial dispensing appliances and vending machines (IEC 60335-2-75);
- commercial ice-cream appliances;
- cold temperature rooms;
- multiple refrigerated chambers with a remote motor-compressor.

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2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

IEC 60079-7:2015, Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

IEC 60079-7:2015/AMD1:2017 1,

IEC 60079-15:2017, Explosive atmospheres – Part 15: Equipment protection by type of protection "n"



IEC 60079-29-1, Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases

IEC 60335-2-34:2012, Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors

IEC 60335-2-34/AMD1:2015

IEC 60335-2-34/AMD2:20162

IEC 60335-2-34:2021, Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors

IEC 60730-2-6, Automatic electrical controls – Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

ISO 817:2014, Refrigerants – Designation and safety classification

ISO 817:2014/AMD1:2017

ISO 4126-2:2018, Safety devices for protection against excessive pressure – Bursting disc safety devices

ISO 5149-1:2014, Refrigerating systems and heat pumps – Safety and environmental requirements – Part 1: Definitions, classification and selection criteria

ISO 5149-1:2014/AMD1:2015

ISO 7010, Graphical symbols – Safety colours and safety signs – Registered safety signs

ISO 14903, Refrigerating systems and heat pumps – Qualification of tightness of components and joints