

TRINIDAD AND TOBAGO STANDARD

COMPULSORY

REQUIREMENTS FOR LABELLING – PART 13: LABELLING OF ELECTRICAL APPLIANCES

(2nd Revision)

PCTTS 76: PART 13:20XX
(Replaces TTS 76: Part 13: 2010)

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Public Comment

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NOTE In order to keep abreast of progress in the industries concerned, Trinidad and Tobago Standards are subject to periodic review. Suggestions for improvements are welcome.

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Committee

The Committee responsible for the formulation of this Trinidad and Tobago Standard is as follows:

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Public Comment

Foreword

This specification was declared a Trinidad and Tobago Standard with effect from ..., after the draft finalized by the Specification Committee for Air Conditioners had been approved by the Bureau.

The Trinidad and Tobago Bureau of Standards has recommended that this standard continue to be compulsory to prevent fraud or deception arising from misleading labelling and to protect the consumer or user against danger to health and safety.

This standard will be effective as a compulsory standard on a date to be notified by the Minister responsible for trade and industry in a Notice to be published in the Trinidad and Tobago Gazette, as required by the Standards Act.

This standard is the revision of the Trinidad and Tobago Standard TTS 76: Part 13:2010, *Requirements for Labelling - Part 13: Labelling of Domestic Electrical Appliances (1st Revision)*. It is one of a series of standards on labelling and applies to the labels placed directly on electrical appliances.

The purpose of this standard is to ensure that labels for electrical appliances provide invaluable product information in a clear, consistent and legible manner. The label information would allow consumers to make informed purchasing decisions, facilitate redress and assess the value or usefulness of the electrical appliance.

This revised version includes labelling requirements for appliances containing refrigerants such as refrigerators, freezers and air conditioning units, to support the national implementation of the Montreal Protocol. This is an international environmental agreement which establishes requirements for the phase-out of ozone-depleting refrigerants and thereby protects the stratospheric ozone layer.

While this standard covers the general labelling requirements for electrical appliances, there may be further labelling requirements for specific electrical appliances in other standards, in which case additional compliance will be necessary.

The required information has been kept to a minimum so that it can be accommodated on the appliance. Requirements for information which should be on the packaging of electrical appliances are also included.

TTS 76:Part 13:20XX is intended to be used by manufacturers, importers, retailers and users of electrical appliances.

In developing this standard considerable assistance was derived from the following:

- a) Government of the Republic of Trinidad and Tobago. *Electricity (Inspection) Act Chapter 54:72.*
- b) Trinidad and Tobago Electricity Commission. *Wiring for Light and Power (5th Edition)*

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1 Scope

This National Standard applies to the labelling requirements for all electrical appliances that are intended for sale (where such units are displayed, offered for sale or are at the point of sale) in Trinidad and Tobago.

It applies to appliances intended for use at the following nominal supply voltages:

- a) 115 volts, with a relative tolerance of $\pm 6\%$; or
- b) 230 volts, with a relative tolerance of $\pm 6\%$.

NOTE These nominal supply voltages have been declared by the Trinidad and Tobago Electricity Commission (T&TEC) in their publication entitled "Wiring for Light and Power". The Electricity Supply Rules made under Section 15 of the Electricity (Inspection) Act Chapter 54:72 provides for variations of six percent above or below the declared voltages.

This standard also specifies labelling requirements for the packaging of electrical appliances.

This standard does not apply to appliances designed exclusively for industrial purposes or appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

2 Normative references

The following referenced documents are indispensable to the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including amendments) applies.

American National Standards Institute (ANSI)

ANSI/ASHRAE Standard 34-2010, *Designation and Safety Classification of Refrigerants*

International Electrotechnical Commission (IEC)

IEC 60027, *Letter symbols to be used in Electrical Technology*

International Organization for Standardization (ISO)

ISO 817, *Refrigerants – Designation and safety classification*

ISO 7000/IEC 60417, *Graphical symbols for use on equipment*

Trinidad and Tobago Bureau of Standards

TTS 76: Part 1, *Requirements for labelling – Part 1: General principles*

TTS 76: Part 2, *Requirements for labelling – Part 2: Labelling of pre-packaged goods*

3 Terms and definitions

For purposes of this National Standard, the following terms and definitions shall apply.

3.1

country of origin

the country where the appliance was manufactured or the nature of the appliance was changed to a significant extent other than by packaging

3.2

electrical appliance

an item of electrical or electronic equipment, normally built in standardised sizes or types, which is installed as a unit to perform one or more functions but does not include electrical luminaries

EXAMPLE vacuum cleaners, washing machines, small kitchen appliances, water heaters, stoves, refrigerators, video equipment, audio equipment and computers.

NOTE This also refers to any appliance specified as an electrical appliance by the Trinidad and Tobago Bureau of Standards.

3.3

label

any mark, symbol, imprint, stamp or brand placed on or permanently affixed to an appliance

NOTE For the purpose of this standard, tickets and tags are not considered to be labels.

3.4

model

an electrical appliance that is assigned a unique name or number by the manufacturer to distinguish its design and functions from other products

3.5

rated frequency

the frequency assigned by the manufacturer which is expressed in hertz (Hz)

3.6

rated current

the root mean square (r.m.s) current assigned to the appliance by the manufacturer which is expressed in amperes (A)

3.7

rated voltage

the root mean square (r.m.s) voltage assigned by the manufacturer which is expressed in volts (V)

3.8

rated voltage range

the voltage range assigned by the manufacturer which is expressed by its lower and upper limits in root mean square (r.m.s.) values

3.9

rated power input

the power input assigned by the manufacturer which is expressed in watts (W)

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3.10

refrigerant

fluid used for heat transfer in a refrigerating system, which absorbs heat at a low temperature and a low pressure and rejects it at a higher temperature and a higher pressure usually involving changes of the phase of the fluid

4 General requirements

4.1 All labels shall be indelible, durable, legible and conspicuous, and shall be in accordance with TTS 76-1 and TTS 76-2.

4.2 The following information shall be marked on, or permanently affixed to appliances:

- a) the name or registered trade mark of the manufacturer or responsible local distributor;
- b) the country of origin;
- c) the model number or other indication of the model of the appliance;
- d) serial number where applicable;

NOTE Serial numbers are usually found on electrical appliances with timers (not including clocks), transformers, heating elements, and electronic components such as circuit boards.

- e) Indication of whether the electrical appliance was reconditioned, remanufactured or refurbished.
- f) the nature of the voltage supply to the appliance as appropriate, unless the rated frequency is marked as follows:
 - 1) a.c. or A.C. or the symbol \sim ;
 - 2) d.c. or D.C. or the symbol --- ; or
 - 3) a.c./d.c. or A.C./D.C. or the symbol $\sim \text{---}$.
- g) the rated voltage or rated voltage range;
- h) the rated current or the rated power input;
- i) a certification mark or safety certification mark; and
- j) a suitable hazard or caution warning.

4.3 The rated voltage or voltage range specified in item g) of Clause 4.2 shall be within the following limits:

- a) 115 volts, with a relative tolerance of $\pm 6\%$; or
- b) 230 volts, with a relative tolerance of $\pm 6\%$.

The rated frequency shall be 60 Hz.

4.4 If an outlet (supplied on or with the appliance) is provided to power other appliances, the following shall be marked on the outlet or in close proximity to that outlet:

- a) the voltage if different from the supply voltage;
- b) the rated current or the rated power; and
- c) the safety ground terminal if applicable.

5 Refrigerants

Appliances containing refrigerants shall bear an indication of the following items:

- a) common name or chemical name of the refrigerant in accordance with ISO 817 or the ANSI/ASHRAE Standard 34-2010.
- b) composition in accordance with ISO 817 or the ANSI/ASHRAE Standard 34-2010 (if applicable);
- c) any special handling requirements;
- d) flammability, toxicity and pressure characteristics either in words or symbols (where applicable); and
- e) any special hazards, warnings and precautions.

6 Caution markings

6.1 Caution markings intended to inform the user of a potential risk of injury to persons shall be prefixed by the signal word "CAUTION", "WARNING" or "DANGER". The signal word shall be more prominent than any other markings used on the appliance.

6.2 Where applicable, a caution marking intended to instruct a user shall be legible and visible from the position which presents maximum exposure to risk.

6.3 Where applicable, if the configuration of the appliance is such that it presents danger to the user or service personnel then a label shall be placed in a suitable area on the appliance to indicate such danger.

6.4 Where applicable, for servicing of the appliance, warning labels shall be located so as to be visible before or immediately upon removal of the protective shield of the area to be serviced.

7 Presentation of information

7.1 All information shall be presented using the English alphabet with or without accent signs. Where names and addresses are in a foreign language, it shall not be necessary to translate such names and addresses into the English Language but they shall be stated in a form using the English alphabet.

7.2 Letter symbols, graphical symbols or numerical symbols may be used. Letter symbols shall be in accordance with IEC 60027. Graphical symbols shall be in accordance with ISO 7000/IEC 60417.

8 Compliance

The certification mark or safety certification mark specified in item i) of Clause 4.2 shall be one which is recognised by the Trinidad and Tobago Bureau of Standards.

NOTE 1 In the event that there is no certification or safety certification mark, a certificate of conformity to a recognised standard may be accepted subject to the approval of the Trinidad and Tobago Bureau of Standards (TTBS).

NOTE 2 Any person may apply to TTBS to obtain a list of the certification marks which are recognised by TTBS.

NOTE 3 Any person may apply to TTBS to determine whether an appliance conforms to the following standards:

- i) IEC 60027; and
- ii) ISO 7000/IEC 60417.

9 Packaging

9.1 The functionality of the electrical appliance, brief product description and the necessary conditions for operation shall be marked on the packaging of the electrical appliance.

9.2 Any special handling instructions shall be placed on the packaging of the electrical appliance.

EXAMPLE "Place upright", "Fragile", "Do not use forklift", "Use no hooks".

9.3 There shall be an indication of whether the electrical appliance was reconditioned, remanufactured or refurbished on the packaging of the electrical appliance.