

Household and similar electric appliances - Methods for measuring the performance of tumble dryers intended for commercial use

EESTI STANDARDI EESSÕNA

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English Version

**Household and similar electric appliances - Methods for
measuring the performance of tumble dryers intended for
commercial use**

Appareils électrodomestiques et analogues - Méthodes de
mesure de l'aptitude à la fonction pour les sèche-linge à
tambour à usage commercial

Elektrische Geräte für den Hausgebrauch und ähnliche
Zwecke - Verfahren zur Messung der
Gebrauchseigenschaften für Wäschetrockner für den
gewerblichen Gebrauch

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European foreword

This document (EN 50594:2018) has been prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-04-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2021-04-23

This document supersedes CLC/TS 50594:2015.

This document is based on portions of EN 61121:2013.

The procedures described in this European Standard are modified substantially compared to the procedures described in EN 61121. Therefore, results of tests according to this European Standard cannot and are bound not to be compared to results of similar procedures of EN 61121.

Significant technical differences from EN 61121 are:

- a) test procedures for tumble dryers of any size on the market;
- b) test procedure for measuring power consumption also for steam heated and gas heated tumble dryers;
- c) the introduction of a new type of test load;
- d) the introduction of a new initial moisture content level.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

1 Scope

This European Standard is applicable to **tumble dryers** intended to be used by trained users e.g. in hotels, hospitals, factories, in light industry and on farms. It covers **tumble dryers** declared for commercial use in public areas and operated by lay persons e.g. in launderettes, apartment houses and communal laundry rooms. This European Standard covers **tumble dryers** which use electricity, gas or steam as a heating source.

The object is to state and define the principal performance characteristics of **tumble dryers** for commercial use of interest to users and to describe standard methods for measuring these characteristics.

NOTE It does not apply to **transfer tumble dryers** or **tumble dryers** only possible to operate with automatic loading and unloading.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 437:2003+A1:2009, *Test gases — Test pressures — Appliance categories*

CEN/TR 1749:2014, *European scheme for the classification of gas appliances according to the method of evacuation of the combustion products (types)*

EN 12953-10, *Shell boilers — Part 10: Requirements for feedwater and boiler water quality*

EN 50570:2013, *Household and similar electrical appliances — Safety — Particular requirements for commercial electric tumble dryers*

EN 50640:2018, *Clothes washing machines for commercial use — Methods for measuring the performance*

EN 60456:2016, *Clothes washing machines for household use — Methods for measuring the performance (IEC 60456:2010, modified)*

EN 60734, *Household electrical appliances — Performance — Water for testing (IEC 60734)*

EN 62053-21, *Electricity metering equipment (a.c.) — Particular requirements — Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21)*

ISO 80000-1:2009, *Quantities and units — Part 1: General*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1.1

tumble dryer

appliance in which textiles are dried by tumbling in a rotating drum, through which air is passed

3.1.2

air vented tumble dryer

tumble dryer that draws in fresh air which is passed over the textiles and where the resulting moist air is exhausted into the room or vented outside