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Tumble dryers for commercial use - Methods for measuring the performance

S.R. CLC/TS 50594:2015

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Tumble dryers for commercial use - Methods for measuring the performance

Elektrische Waschgeräte für den kommerziellen Einsatz -
Prüfverfahren zur Bestimmung der
Gebrauchseigenschaften

This Technical Specification was approved by CENELEC on 2015-01-26.

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Foreword

This document (CLC/TS 50594:2015) has been prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] 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.

This document is a new Technical Specification, but it is based on portions from EN 61121:2013.

This Technical Specification is the main body of a forthcoming European Standard for measuring the performance of non-household tumble dryers. The content of this Technical Specification will be added with the Annex ZZ when the details regarding Ecodesign regulations are defined.

The procedures described in this Technical Specification are modified substantially compared to the procedures described in EN 61121. Therefore, results of tests according to this Technical Specification 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) a test procedure for measuring power consumption also for steam heated and gas heated tumble dryers;
- c) the introduction of a new type of base load;
- d) the introduction of a new initial moisture level.

NOTE CLC/TS 50640:2015 is planned to be a European Standard for the energy measurement of gas heated laundry equipment.

A bilingual version of this publication may be issued at a later date.

1 Scope

This Technical Specification is applicable to **tumble dryers** for commercial use of the **automatic** and **non-automatic** type, incorporating an electric or steam heating device. It also includes **tumble dryers** which use gas as a heating source with a reference to appropriate EN gas standards.

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 dryers with automatic loading and unloading.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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*

CLC/TS 50640:2015, *Clothes washing machines for commercial use — Methods for measuring the performance*

EN 60456:2011, *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.

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

3.1.3

condenser tumble dryer

tumble dryer which includes a device for removing moisture from the air used for the drying process

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