

PD CLC/TS 50594:2015



BSI Standards Publication

Tumble dryers for commercial use — Methods for measuring the performance

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National foreword

This Published Document is the UK implementation of CLC/TS 50594:2015.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Tumble dryers for commercial use - Methods for measuring the performanceElektrische 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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Contents

Page

Foreword	5
1 Scope	6
2 Normative references	6
3 Terms, definitions and symbols.....	6
3.1 Terms and definitions	6
3.2 List of symbols	9
4 Requirements.....	10
4.1 General	10
4.2 Rated capacity	11
4.3 Dimensions	11
5 Test conditions, materials, equipment and instrumentation	12
5.1 General	12
5.2 Ambient conditions	12
5.2.1 Electricity supply.....	12
5.2.2 Water supply.....	12
5.2.3 Ambient temperature and humidity	13
5.3 Test materials	13
5.3.1 General.....	13
5.3.2 Test load	14
5.3.3 Detergent	14
5.4 Equipment.....	14
5.4.1 Equipment for normalization.....	14
5.4.2 Equipment for conditioning the test load	14
5.4.3 Equipment for wetting the test load prior to a test	14
5.4.4 Equipment for measurement.....	14
5.5 Instrumentation and accuracy	15
6 Preparation for testing	16
6.1 General	16
6.2 Test specifications from manufacturers	16
6.3 Installation of the tumble dryer	16
6.4 Preparation of the tumble dryer for a test series	17
6.5 Preparation of the tumble dryer for a test run	17
6.6 Preparation of test loads.....	17
6.6.1 General.....	17
6.6.2 Pre-treatment of new test load items prior to use.....	18
6.6.3 Requirements regarding the age of test load items.....	18
6.6.4 Normalization of test load items	18
6.6.5 Conditioning of test load items.....	18
6.6.6 Test load composition	19
6.6.7 Wetting.....	21
7 Performance measurements – General requirements.....	22
8 Tests for performance	23
8.1 General	23

8.2	Test procedure for performance tests	23
8.2.1	Test conditions, materials and preparation for testing	23
8.2.2	Programme.....	23
8.2.3	Test load	24
8.2.4	Test procedure.....	24
8.2.5	Validity of a test run	24
8.2.6	Validity of a test series.....	24
8.3	Measurements to determine water and energy consumption and programme time	25
8.3.1	General.....	25
8.3.2	Procedure.....	25
8.4	Measurements to determine condensation efficiency	25
8.4.1	General.....	25
8.4.2	Procedure.....	25
8.5	Measurements to determine exhaust air volume	26
8.6	Performance measurement at maximum exhaust duct pressure	26
8.7	Measurement of the textile drying temperature	26
9	Assessment of performance	26
9.1	General	26
9.2	Final moisture content of the load.....	26
9.3	Total energy.....	27
9.4	Corrected energy.....	27
9.5	Corrected water consumption	28
9.6	Corrected programme time	28
9.7	Condensation efficiency	29
9.8	Evaporation capacity.....	30
9.9	Exhaust air volume.....	30
10	Data to be reported	30
Annex A	(normative) Reference list	31
Annex B	(normative) Exhaust ducts for tumble dryer testing	32
Annex C	(informative) Flow diagrams	37
Annex D	(normative) Test report – Data to be reported	39
Annex E	(normative) Procedure to determine test load size where rated capacity is not declared	43
Annex F	(normative) Flexible initial moisture content method	44
Annex G	(normative) Performance testing of steam heated tumble dryers	46
Annex H	(informative) Performance testing of gas heated tumble dryers	54
Annex I	(informative) Measurement of exhaust air volume	55
Annex J	(normative) Measurement of the textile drying temperature	56
	Bibliography	58
	Figure B.1 — Exhaust duct bend	32
	Figure B.2 — Exhaust duct Type 2	34
	Figure C.1	37
	Figure C.2	38
	Figure G.1 — Schematic installation of the measurement equipment for steam heated tumble dryers (Alternative 1)	48

Figure G.2 — Schematic installation of the measurement equipment for steam heated tumble dryers (Alternative 2)..... 50

Table 1 — List of symbols 9

Table 2 — Specification of instruments 16

Table 3 — Number of items in the test load for various test load masses 19

Table 4 – Specifications for initial moisture content in the test load..... 22

Table 5 — Specification for final moisture content of the test load after drying in a cotton dry programme 23

Table B.1 — Equivalent tube length of a 90° bend 33

Table B.2 — Pressure drop values for different diameters and flows for a 15 m long duct 35

Table D.1 — Identification data 39

Table D.2 — Test measurements 40

Table D.3 — Test conditions and materials 42

Table J.1 — Specification of temperature logger suitable for temperature measurement for both washing and drying 56

Table J.2 — Number of temperature loggers to be used during a textile drying temperature measurement 57

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