



EUROPEAN COMMISSION

Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs

Single Market Policy, Regulation and Implementation
Standards for Growth

Brussels, 31.8.2015

A Notification under Article 12 of Regulation (EU) No 1025/2012¹

Subject matter related to

<input type="checkbox"/>	Annual Union Work Programme for European standardisation (Art. 12, point a)
<input checked="" type="checkbox"/>	Possible future standardisation requests to the European standardisation organisations (Art. 12, point b)
<input type="checkbox"/>	Formal objections to harmonised standards (Art. 12, point c)
<input type="checkbox"/>	Identifications of ICT technical specifications (Art. 12, point d)
<input type="checkbox"/>	Delegated acts to modify Annexes I or III of Regulation (EU) No 1025/2012 (Art. 12, point e)

Title of the initiative

Draft standardisation request as regards harmonised standards for non-household washing machines, dryers and dishwashers

Additional information

Legislative reference(s)	Directive 2010/30/EU of the European Parliament and of the Council on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products and Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products
EN reference(s)	
Status	Draft
Other information	

Commission contact point for this notification

ENER-ECODESIGN@ec.europa.eu

¹ OJ L 316, 14.11.2012, p. 12



EUROPEAN
COMMISSION

Brussels, **XXX**
[...](2015) **XXX** draft

COMMISSION IMPLEMENTING DECISION

of XXX

**on a standardisation request to the European Committee for Standardisation as regards
non-household washing machines, dryers and dishwashers in support of the
implementation of Directives 2009/125/EC and 2010/30/EU of the European Parliament
and of the Council**

(Text with EEA relevance)

COMMISSION IMPLEMENTING DECISION

of **XXX**

on a standardisation request to the European Committee for Standardisation as regards non-household washing machines, dryers and dishwashers in support of the implementation of Directives 2009/125/EC and 2010/30/EU of the European Parliament and of the Council

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council¹, and in particular Article 10(1) thereof,

Whereas:

- (1) Directive 2009/125/EC establishes the framework for the setting of Ecodesign requirements for energy-related products with the aim of ensuring the free movement of such products within the internal market. It contributes to the sustainable development by increasing energy efficiency and protecting the environment, and strengthening the security of supply.
- (2) Directive 2010/30/EU establishes a framework for the harmonisation of national measures on end-user information, particularly by means of labelling and standard product information, on the consumption of energy and where relevant other essential resources during use, and supplementary information concerning energy-related products, thereby allowing end-users to choose products that are more efficient.
- (3) According to Articles 9 and 10 of Directive 2009/125/EC, harmonised standards are to be used for the implementation of the Directive. If energy labelling requirements under Directive 2010/30/EU are introduced for the same products, the same standards for the measurement of their energy efficiency should be used also under that Directive.
- (4) The Consultation Forum established under Article 18 of Directive 2009/125/EC, composed of a balanced participation of Member State representatives and all interested parties including the European standardisation organisations, met on 29 November 2013 to discuss the Commission's plans for regulating the energy consumption, water consumption and functional performance of non-household washing machines, dryers and dishwashers. The Forum concluded that harmonised methods were lacking for the measurement of these parameters of the products

¹ OJ L 316, 14.11.2012, p. 12.

concerned, and that such methods should be first published in the form of harmonised standards. Comparable market data on their performance should then be collected by the Commission, with a view to establish the level of ecodesign or energy labelling requirements needed to improve their performance as foreseen by the two framework directives.

- (5) As it is impossible to develop ecodesign or energy labelling regulations for non-household washing machines, dryers and dishwashers due to a lack of comparable data on their performance, it is appropriate to request the European standardisation organisations to publish European standards with the necessary measurement methods before the related ecodesign or energy labelling regulations are adopted.
- (6) Measurement and calculation procedures for establishing energy performances and other environmental impacts under Directive 2009/125/EC and Directive 2010/30/EU are to be reliable, accurate and reproducible and have to take into account recognised 'state of the art' measurement and calculation methods, including, where available, harmonised standards adopted by the European standardisation bodies in accordance with the procedures laid down in Regulation (EU) No 1025/2012.
- (7) Point 2.3 of the annual Union work programme for European standardisation for 2015² mentions the intention to request harmonised standards in support of new measures (i.e. Commission Regulations or Commission Delegated Regulations) likely to be proposed on Ecodesign and/or Energy Labelling.
- (8) The Commission has established guidelines for the execution of standardisation requests and the European standardisation organisations have agreed to apply those guidelines when executing standardisation requests.
- (9) The European standardisation organisations, the European stakeholders organisations receiving Union financing and the Consultation Forum established under Article 18 of Directive 2009/125/EC have been consulted.
- (10) The European Committee for Standardisation (CEN), the European Committee for Electrotechnical Standardisation (Cenelec) and the European Telecommunications Standards Institute (ETSI) have indicated that the work covered by the request falls under the scope of CEN and Cenelec. Several CEN and Cenelec working groups and also partnerships outside the European standardisation organisations are already preparing draft standards in anticipation of the intended future regulations.
- (11) The measures provided for in this Decision are in accordance with the opinion of the Committee established by Article 22 of Regulation (EU) No 1025/2012,

HAS ADOPTED THIS DECISION:

Article 1

Requested standardisation activities

The European Committee for Standardisation (CEN) and the European Committee for Electrotechnical Standardisation (Cenelec) are requested to draft, in support of the implementation of Directives 2009/125/EC and 2010/30/EU of the European Parliament and of the Council as regards non-household washing machines, dryers and dishwashers, the harmonised standards for the measurement, calculation and labelling of the energy

² COM(2014)500 final

consumption, water consumption and functional performance of these products, as set out in Table 1 of Annex II. Those harmonised standards shall meet the requirements set out in Annex I.

Article 2

Establishment of the work programme

CEN and Cenelec shall prepare the work programme indicating all the requested deliverables, the responsible technical bodies and a timetable for the execution of the work in line with the deadlines set out in Annex II. These organisations shall submit the work programme to the Commission by xx Month 20xx [no later than three months after the notification of this Decision by the Commission;] *[please delete the words between brackets and indicate the right date]* and shall provide access to an overall project plan.

CEN and Cenelec may decide how many harmonised standards are needed for the measurement of the regulated product parameters in order to execute the request referred to in Article 1.

Article 3

Agreement on the work programme

In its work programme, CEN and Cenelec shall follow the priorities expressed by the Commission for the execution of the request referred to in Article 1.

CEN and Cenelec shall inform the Commission about any amendments to the work programme.

New subjects for harmonised standards may be added to the work programme, provided that Annex I includes requirements for such subjects, where the Commission has been consulted and has agreed to that addition, after having informed the Committee established by Article 22 of Regulation (EU) No 1025/2012.

Article 4

Reporting

CEN and Cenelec shall report annually to the Commission on the execution of the request referred to in Article 1. These organisations shall provide the Commission with the first annual report by xx.xx.20xx [by 13 months after notification of this Decision by the Commission; *please delete the words between brackets and indicate the right date*].

Article 5

Harmonised standards

Every harmonised standard developed on the basis of the request referred to in Article 1 shall refer to this Decision.

CEN and Cenelec shall include in every revised or amended harmonised standard information concerning significant changes that have been introduced by it.

After the Commission has adopted the relevant Commission Regulations and Commission Delegated Regulations concerning ecodesign and energy labelling requirements on non-household washing machines, dryers and dishwashers, CEN and Cenelec shall include in every new, revised or amended harmonised standard a clear and precise indication with regard to the relationship between its content and the corresponding requirements of those

regulations and shall provide to the Commission the titles of the requested harmonised standards in all the official languages of the Union.

Article 6

Validity

If this standardisation request is not accepted by CEN or Cenelec within one month following its receipt, that request may not constitute a basis for the drafting of harmonised standards.

Article 7

Addressee

This Decision is addressed to the European Committee for Standardisation.

Done at Brussels,

For the Commission

Miguel Arias Cañete

Member of the Commission



EUROPEAN
COMMISSION

Brussels, **XXX**
[...](2015) **XXX** draft

ANNEXES 1 to 2

ANNEXES

to the

Commission Implementing Decision
on a standardisation request to the European Committee for Standardisation as regards
non-household washing machines, dryers and dishwashers in support of the
implementation of Directives 2009/125/EC and 2010/30/EU of the European Parliament
and of the Council

Annex I

Requirements for the harmonised standards

1. GENERAL REQUIREMENTS

The requested harmonised standards shall incorporate relevant measurement and calculation methods with a view to supporting the adoption and application of potential future measures and delegated acts for non-household washing machines, dryers and dishwashers implementing Directives 2010/30/EU and 2009/125/EC. The grouping of the three product groups under this document does not prejudice the scope of any future regulations.

The measurement and calculation methods laid down in the harmonised standards shall be reliable, accurate and reproducible and shall take into account the generally recognised ‘state of the art’ measurement and calculation methods. These methods shall be laid down in new European standards for non-household washing machines, dryers and dishwashers, or in amended existing European and international standards, laying down procedures and methods for measuring and calculating the energy consumption of these units.

The prospective standards also have to include the necessary definitions of the product types and of the parameters that are to be measured or calculated.

2. SPECIFIC REQUIREMENTS FOR THE HARMONISED STANDARDS

2.1. Tasks covered by this request

CEN and CENELEC are requested:

- (1) To draw up a detailed work programme for harmonised standards, on the basis of the reference documents listed in Table 2 of Annex II, laying down procedures and methods of measuring and calculating the parameters described in this chapter 2 for non-household washing machines, dryers and dishwashers;
- (2) To indicate clearly in the work programme for harmonised standards which specific product parameters (among the ones referred to in chapter 2.2 and 2.3) are addressed by every specific standard;
- (3) To indicate in the work programme for harmonised standards whether suitable standards already exists, whether they have to be revised, or whether new standards have to be developed.

Where relevant, the working groups for non-household machines should coordinate their activities with the development of methods for household machines (for example, the development of a method for rinsing performance measurement of washer-extractors should take into account the on-going work in the household washing machines working group).

The work programme may take into account the fact that the amount of specialists available for working groups to develop standards is small because of the relatively small market size and limited number of companies (stakeholders).

The harmonised standards shall:

- (a) define parameters for the categorisation and description of the products involved;

- (b) define the parameters that have to be measured to establish the products' performance for the aspects requested above;
- (c) prescribe all the relevant test conditions (preparation of wash load, soiling strips, etc.) and establish measurement and where relevant calculation methods for the parameters defined according to b);
- (d) include a template for the test report.

2.2. Requirements for harmonised standards on non-household washing machines, dryers and dishwashers

Non-household equipment, in the case of non-household washing machines, dryers and dishwashers, is equipment that is intended for use other than in an individual household.

The following aspects should be covered by the requested harmonised standards for non-household washing machines, dryers and dishwashers:¹

- (1) for non-household washing machines (washer extractors, barrier washers and tunnel washers):
 - energy consumption, water consumption, washing performance, rinsing performance², dehydrating performance, cycle duration, washing temperature
- (2) for non-household tumble dryers (tumble dryers and pass-through tumble dryers):
 - energy consumption, dehydrating performance, cycle duration, drying temperature, condensation efficiency
- (3) for non-household dishwashers (water exchange dishwashers, one tank dishwashers, pots and pans dishwashers³ and multi tank dishwashers):
 - energy consumption, water consumption, cleaning performance, rinsing performance, dehydrating performance, cycle duration, temperature

Noting that:

- (a) If appropriate, the product groups can be segmented into smaller groups or according to different principles, as long as the full scope defined above is covered by the resulting standards. However, any overlap in the standardisation activities of the ESO's should be avoided as this might lead to double

¹ See Annex III for a definitions glossary.

² It should be noted that for household machines, work is currently on-going on a new method for measuring rinsing performance, as the existing method has proven to have a large variation in test results during similar conditions. This work could have relevance also for measuring rinsing performance of non-household washer extractors.

³ Although pots and pans dishwashing is only accountable for a small part of the non-household dishwashers market, the Commission considers that in view of the energy, water and cost savings that machine washing of pots and pans brings compared to manual washing, there is significant potential for an increasing market penetration of pots and pans dishwashers. In many smaller and medium sized businesses in the hospitality industry, machine washing would be a more cost-efficient alternative to the current process of soaking and manual cleaning of pots & pans. Therefore harmonised standards should be developed to measure their performance. A DIN working group is drafting a standard "Methoden zur Bestimmung des Energieverbrauchs von Großküchengeräten — Teil x: Topf- und Behälterspülmaschinen" and working number 18873-x already addresses specifically non-household dishwashers for pots and pans.

standardization and possible ambiguity in the interpretation of what test standards should be used.

- (b) Additional aspects can be covered where relevant.
- (c) As a rule, there should be a single set of measurement methods developed for any given product on the market (no alternative measurement methods should exist for the same parameters of the same product). However, for large or complex products, such as tunnel washers, pass-through dryers and multi-tank dishwashers, ESO's are requested to develop methods to assess performance at two levels: individual testing of defined components of the installation, and comprehensive testing of the operation of a particular installation (including physical tests, calculations on the basis of the design, or extrapolations from other similar installations as appropriate). Such methods should also take into account the needs of in-situ testing at the manufacturer's premises or at the customer's site.⁴

2.3. Requirements for the verification procedure for market surveillance purposes

The objectives of standards for procedures and methods for measurements and calculations are:

- (1) To ensure that the harmonised standards identify and control the sources of variability that influence measurement uncertainties to be considered for market surveillance purposes;
- (2) To provide values for measurement uncertainties for the purposes of the verification procedure for the measured parameters, taking into account the different sources of variability to be considered when a specific product is taken from the market and measured for market surveillance purposes;
- (3) To verify if, in order to reduce the impact of variability to the system, the standards should include specific criteria to be met by laboratories involved in the verification of the declared data (e.g. quality management system, qualification system, personnel training...).

2.4. Definitions

The following definitions aim to clarify the requirements formulated in Section 2.2. Other definitions may be used in the harmonised standards, as long as they cover the scope established by the requirements and definitions in this Annex.

- 1. 'Test conditions' mean the standard conditions under which the parameters of non-household washing machines, dryers and dishwashers are tested so as to make the results comparable. The ecodesign and performance parameters are proposed to be established under standard testing conditions, or, in case testing conditions are difficult to control, under recorded conditions. For appliances that users will compare

⁴ If the product does not come into existence before it is installed at the customers' site, surveillance authorities may request the technical file as mentioned regarding the technical documentation for the purposes of conformity assessment as requested for all products in the EC market. For such products where this information relating to a specific model has been obtained by calculation on the basis of design and/or extrapolation from other combinations, the details of such calculations and/or extrapolations, and of any tests undertaken to verify the accuracy of the calculations, including details of the mathematical model for calculating the performance of such combinations and details of the measurements taken to verify this model may be assessed by the authorities.

based on the test results, test conditions and the measurement methods need to be the same to allow a fair comparison and judgement of the results.

Definitions related to non-household washing machines

2. 'Washer Extractor' means a non-household washing machine consisting of a single drum, with means of extracting excess water from textiles, and which may be loaded and unloaded from a single side or from opposite sides.
3. 'Barrier Washer' means a washing machine or washer-extractor without direct contact between the loading and unloading positions (e.g. separated by a wall).
4. 'Tunnel Washer' means a non-household washing machine consisting of more than one drum, which each can perform a different stage of a washing programme, e.g. pre-washing, washing, rinsing and spin-extracting.
5. 'Washing Cycle' means the part of the operations during the cycle of a non-household washing machine during which textiles are cleaned by using water, detergents and agitation at a set temperature.
6. 'Rinsing Cycle' means the part of the operations during the cycle of a non-household washing machine during which the detergents are rinsed from the washed textiles.
7. 'Dehydrating Cycle' means the part of the operations during the cycle of a non-household washing machine during which residual water is removed from the washed textiles.
8. 'Water Consumption' means the water consumption over the washing, rinsing and dehydrating cycles [in l/ kg].
9. 'Energy Consumption' means the energy consumption over the washing, rinsing and dehydrating cycles, including electric, fuel and heat energy consumption [in kWh/kg]
10. 'Washing Performance' describes how effectively the washing machine removes soiling material from textiles.
11. 'Rinsing Performance' describes how effectively the washing machine removes detergents from the washed textiles.
12. 'Dehydrating Performance' describes how effectively the washing machine removes residual water from the washed textiles.

Definitions related to non-household tumble dryers

13. 'Tumble Dryer' means a textile dryer that dries textiles by passage of heated air in a rotating drum, which is loaded and unloaded from the same side.
14. 'Pass-through Tumble Dryer' means a textile dryer that dries textiles by passage of heated air in a rotating drum, and which is loaded from one side of the drum and unloaded from the opposite side of the drum.
15. 'Drying Cycle' means the process in which textiles are dried in a non-household dryer.
16. 'Energy Consumption' means the energy consumption over the drying cycle, including electric, fuel and heat energy consumption [in kWh/kg].
17. 'Dehydrating performance' describes how effectively the dryer removes moisture from the textiles.

18. 'Condensation efficiency' is the proportion of the water in the load that is condensed and led to a drain instead of being evaporated.

Definitions related to non-household dishwashers

19. 'Water Exchange Dishwasher' means a non-household dishwasher that requires input of fresh water for each cleaning cycle.
20. 'One tank Dishwasher' means a non-household dishwasher that is equipped with a single tank of water or liquid and which allows for several cleaning cycles before being replenished.
21. 'Pots and Pans Dishwasher' means a non-household dishwasher that is specifically designed for cleaning of pots and pans.
22. 'Multi-tank Dishwasher' means a non-household dishwasher that is equipped with multiple tanks of water or liquid and which allows for several cleaning cycles before being replenished.
23. 'Cleaning cycle' means the part of the operations during the cycle of a non-household dishwasher during which a specific load is cleaned by using water, detergents and agitation at a set temperature.
24. 'Rinsing cycle' means the part of the operations during the cycle of a non-household dishwasher during which the detergents are rinsed from the specific load.
25. 'Drying cycle' means the part of the operations during the cycle of a non-household dishwasher during which residual water is removed from the specific load.
26. 'Water Consumption' means the water consumption over the cleaning, rinsing and drying cycles [in l / unit of load].
27. 'Energy Consumption' means the energy consumption over the cleaning, rinsing and drying cycles, including electric, fuel and heat energy consumption [in kWh / unit of load].
28. 'Cleaning Performance' describes how effectively the dishwasher removes soiling material from the specific load.
29. 'Rinsing Performance' describes how effectively the dishwasher removes detergents from the specific load.
30. 'Drying Performance' describes how effectively the dishwasher removes residual moisture from the specific load

Annex II
Harmonised standards and deadlines for adoption

Reference information	Deadline for adoption ⁵
1. European standard(s) for the measurement, calculation and labelling of product parameters for non-household washer extractors	DD.MM.YYYY [16 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]
2. European standard(s) for the measurement, calculation and labelling of product parameters for non-household barrier washers	DD.MM.YYYY [16 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]
3. European standard(s) for the measurement, calculation and labelling of product parameters for non-household tunnel washers	DD.MM.YYYY [20 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]
4. European standard(s) for the measurement, calculation and labelling of product parameters for non-household tumble dryers	DD.MM.YYYY [16 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]
5. European standard(s) for the measurement, calculation and labelling of product parameters for non-household pass-through tumble dryers	DD.MM.YYYY [20 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]
6. European standard(s) for the measurement, calculation and labelling of product parameters for non-household water exchange dishwashers	DD.MM.YYYY [3 years and 8 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]

⁵ 'Adoption' refers to the moment where the relevant European standardisation organisation makes a standard available to its members or to the public.

<p>7. European standard(s) for the measurement, calculation and labelling of product parameters for non-household one tank dishwashers</p>	<p>DD.MM.YYYY [10 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]</p>
<p>8. European standard(s) for the measurement, calculation and labelling of product parameters for non-household pots and pans dishwashers</p>	<p>DD.MM.YYYY [3 years and 8 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]</p>
<p>9. European standard(s) for the measurement, calculation and labelling of product parameters for non-household multi tank dishwashers</p>	<p>DD.MM.YYYY [3 years and 8 months after notification of this Decision to the ESOs; <i>please insert correct date and then delete words between square brackets</i>]</p>

Table 2: Non-exhaustive list of reference documents

CLC/prTS 50640	“Washing machines for commercial use - Methods for measuring the performance”
ISO 9398	“Specifications for industrial laundry machines - Definitions and testing of capacity and consumption characteristics”
EN 60456:2011	“Clothes washing machines for household use - Methods for measuring the performance”
CLC/prTS 50594	“Tumble dryers for commercial use - Methods for measuring the performance”
prEN 50593	“Electric dishwashers for commercial use - Test methods for measuring the performance”
EN 60436	“Electric dishwashers for household use – Methods for measuring performance”
ISO 10472	Safety requirements for industrial laundry machinery
IEC 60335	Household and similar electrical appliances – Safety
IEC 60204-1:2005	Safety of machinery – Electrical equipment of machines
DIN 30682:1982	Gas-appliances for laundry-machinery
NF G45-106 1997	Laundry equipment: Drying and ironing machine, rotating dryers, spinner-washers, with atmospheric burners of output not exceeding 120 kW using gaseous fuels
EN 50242:2008-09, EN 60436:2008-09	Electric dishwashers for household use – Methods for measuring the performance
EN 61000-6-1	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-3	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN50570	Household and similar electrical appliances - Safety - Particular requirements for commercial electric tumble dryers

EN50571	Household and similar electrical appliances - Safety - Particular requirements for commercial electric washing machines
EN60335-2-58	Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines