



## TECHNICAL BOARD

CEN/BT by correspondence

For information and possible comments                      **Issue date:**                      2014-06-25

Simultaneous circulation to CENELEC/BT                       **Deadline:**                      **2014-07-22**

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### SUBJECT

**Draft standardization request on ecodesign and energy labelling of vacuum cleaners**

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### BACKGROUND

See Annex 1.

A corresponding document is circulated to CENELEC BT for comments.

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CEN Reference: [Annex 1 to BT N 9632](#)  
CENELEC Reference: [Annex 1 to BT148/DG9499/DC](#)

On 2014-06-18 CCMC received by email a draft standardization request on ecodesign and energy labelling of vacuum cleaners: *'M/XXX, Standardisation request addressed to the European Standardisation Organisations on standards concerning vacuum cleaners in support of implementation and review of Commission Delegated Regulation (EU) No 665/2013 of 3 May 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of vacuum cleaners and Commission Regulation (EU) No 666/2013 of 8 July 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for vacuum cleaners'* (see Annex 2).

This mandate will request CEN and CENELEC to develop Harmonized Standards for the ecodesign and energy labelling of vacuum cleaners. The requested standards shall be based on the four European Standards that already exist on this subject, and that are about to be cited in the OJEU under Regulations 665/2013 and 666/2013, by virtue of M/353 'Mandate for the elaboration and adoption of measurement standards for household appliances: vacuum cleaners' (Due to time constraints, the EC accepted to cite those as soon as possible without an Annex ZZ. The Annexes ZZ will be added later in the form of amendments.) The European Standards already existing are:

- **EN 60704-2-1:2001** 'Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for vacuum cleaners' – By CLC/TC 59X
- **EN 60312-1:2013** 'Vacuum cleaners for household use - Part 1: Dry vacuum cleaners - Methods for measuring the performance' – By CLC/TC 59X
- **EN 60335-2-69:2012** 'Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use' – By CLC/TC 61
- **EN 60335-2-2:2010** (together with A1:2013 and A11:2012) 'Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances' – By CLC/TC 61

The requested Harmonized Standards shall include the following specific topics:

- Requirements on the coverage of durability of the hose and operational motor lifetime

- Requirements on the coverage of water filter vacuum cleaners
- Requirements on the coverage of full size battery-operated vacuum cleaners
- Requirements on the coverage of measurement of energy consumption, dust pick-up and dust re-emission with a partly loaded rather than an empty receptacle

This draft standardization request is currently being circulated by the EC for comments to the members of the Consultation Forum on Ecodesign Horizontal Matters, in which CEN and CENELEC are represented.

CLC/TC 59X and CLC/TC 61, which will most probably be in charge of the response to the future mandate, are also being consulted separately on this draft mandate.

BT Members are kindly requested to provide their comments **by 2014-07-22** on:

- the **timeframe** proposed by the EC in Clause 5 as well as in Annex I;
- the **work** to be executed.

CEN Members **are invited to upload their comments to the BT Working Area – BT for commenting - [Drop-In Box for BT Members comments](#)**).

CENELEC Members **are invited to upload their comments on the Collaboration Tool under the relevant item.**



EUROPEAN COMMISSION  
ENTERPRISE AND INDUSTRY DIRECTORATE-GENERAL

Sustainable Growth and EU 2020  
**Standards for Boosting Competitiveness**

Date of the draft: xx.xx.201x<sup>1</sup>

## **ANNEX**

*[to a Commission Implementing Decision]*

**M/XXX<sup>2</sup>, Standardisation request addressed to the European Standardisation Organisations on standards concerning vacuum cleaners in support of implementation and review of Commission Delegated Regulation (EU) No 665/2013 of 3 May 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of vacuum cleaners and Commission Regulation (EU) No 666/2013 of 8 July 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for vacuum cleaners**

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<sup>1</sup> This date identifies versions during preparation and is removed from the final draft submitted to the Committee on Standards (Reg. (EU) No 1025/2012 Committee)

<sup>2</sup> The reference number is given by ENTR before submitting to the Committee on Standards.

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## **1. OBJECTIVES**

### **1.1. Requested standardisation activities**

The Commission requests pursuant to Article 10(1) of Regulation (EU) No 1025/2012<sup>3</sup> the European standardisation organisations<sup>4</sup> (ESOs) to revise harmonised standards, as defined in Article 2(1) point c) of Regulation (EU) No 1025/2012, in support of a number of elements of:

- Commission Delegated Regulation (EU) No 665/2013 of 3 May 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of vacuum cleaners<sup>5</sup>
- Commission Regulation (EU) No 666/2013 of 8 July 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for vacuum cleaners<sup>6</sup>

In particular, the ESOs are requested to revise harmonised standards for vacuum cleaners making them fit for purpose in the context of ecodesign and energy labelling in relation to the following aspects:

- durability of the hose and operational motor lifetime;
- water filter vacuum cleaners;
- full size battery operated vacuum cleaners;
- measurement of energy consumption, dust pick-up and dust re-emission with a partly loaded rather than an empty receptacle.

### **1.2. Public interests and policy objectives**

Commission Delegated Regulation 665/2013 has been adopted under Directive 2010/30/EU on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products. This Directive 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

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<sup>3</sup> OJ L 316, 14.11.2012, p. 12

<sup>4</sup> Article 2(8) of Regulation (EU) No 1025/2012,

<sup>5</sup> OJ L 192, 13.7.2013, p. 1

<sup>6</sup> OJ L 192, 13.7.2013, p. 24

supplementary information concerning energy-related products, thereby allowing end-users to choose more efficient products.

Commission Regulation 666/2013 has been adopted under Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products, which has 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 the level of protection of the environment, while at the same time increasing the security of supply.

These two Commission Regulations (referred to below as "the Regulations") require that the measurement and calculation procedures for establishing energy performances and other environmental impacts shall be reliable, accurate and reproducible and shall take into account the generally recognised state of the art, in order to ensure comparable measurement and calculation procedures for the product types in the scope of the Regulations and to facilitate market surveillance activities. The implementation of the Regulations is supported by four EN standards, [references of which have been published in the Official Journal of the European Union]<sup>7</sup>:

- EN 60312-1:2013 Vacuum cleaners for household use -Part 1: Dry vacuum cleaners -Methods for measuring the performance; *addressing annual energy consumption, dust pick up on carpet, dust pick up on hard floor, dust re-emission, durability of the hose and operational motor lifetime*
- EN 60704-2-1:2001 Household and similar electrical appliances – Test code for the determination of airborne acoustical noise Part 2-1: Particular requirements for vacuum cleaners; *addressing sound power level for household vacuum cleaners*
- EN 60335-2-2:2010 + A11:2012 Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water suction cleaning appliances; *addressing rated input power for household vacuum cleaners*
- EN 60335-2-69:2012 Household and similar electrical appliances – Safety – Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use; *addressing rated input power and sound power level for commercial vacuum cleaners*

However, the EN 60312-1:2013 standard does not yet sufficiently address water filter vacuum cleaners, for which the regulations will apply as from September 2017.

Further, the Regulations contain clauses to review some of its requirements in 2016, before those requirements become applicable from September 2017. These concern the requirements for the durability of the hose and for the operational motor lifetime. EN

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<sup>7</sup> [OJ reference]

60312-1:2013 contains measurements methods for both, but it is a question whether these are fit for the purpose of the ecodesign requirements.

Finally, the Regulations contain clauses to review in 2018 certain issues for potential inclusion in the Regulations: inclusion of full size battery-operated vacuum cleaners and the feasibility of setting requirements based on measurement with a partly loaded rather than an empty receptacle. EN 60312-1:2013 contains measurements methods for a loaded dust receptacle, but the method is not fit for purpose in the context of the Regulations.

## **2. ACCEPTANCE OF THE REQUEST**

The ESOs are asked to inform the Commission within one month after receipt of this request whether they accept it.

The acceptance reply may include a request for Union funding or may indicate if Union funding available for activities pursuant to Article 15 of Regulation (EU) No 1025/2012 is applied later and informing also on estimated amount needed and estimated date for a possible request. Such a funding request shall respect the deadlines set in this standardisation request and in the mandated work programme, as agreed with the Commission according to clause 5.4, for the execution of the standardisation work.

## **3. EXPIRY**

Where the standardisation request is not accepted by any of the ESOs, this request shall expire three (3) months after its notification to the ESOs.

## **4. DESCRIPTION OF THE REQUIREMENTS FOR THE REQUESTED DELIVERABLES AND FOR THE STANDARDISATION WORK**

### **4.1. Requirements for the harmonised standards**

#### *4.1.1. General requirements*

The requested harmonised standards shall be based on reliable, accurate and reproducible procedures and methods, which take into account the generally recognised state of the art. As a priority, the requested harmonised standards shall be based and built on the existing standards for vacuum cleaners, which lay down procedures and methods of measuring and calculation of the energy consumption, dust pick-up, dust re-emission, durability of the hose and operational motor lifetime.

The harmonised standards shall include the necessary definitions of the product types and their main characteristics and of the parameters to be measured and/or calculated.

#### *4.1.2. Requirements on the coverage of durability of the hose and operational motor lifetime*

The requested harmonised standards shall be updated where necessary to cover:

- measurement of durability of the hose in terms of a number of oscillations executed under strain after which the hose is still usable;



- measurement of operational motor lifetime in hours.

If current methods in the EN 60312-1:2013 are considered fit for purpose for any of these ecodesign requirements, no update is necessary for the methods concerned.

#### *4.1.3. Requirements on the coverage of water filter vacuum cleaners*

The requested harmonised standards shall be updated to cover annual energy consumption, dust pick-up on carpet, dust pick-up on hard floor and dust re-emission.

#### *4.1.4. Requirements on the coverage of full size battery-operated vacuum cleaners*

The requested harmonised standards shall be updated to cover full size battery-operated vacuum cleaners and shall include specific measurement methods for the energy consumption of their batteries.

#### *4.1.5. Requirements on the coverage of measurement of energy consumption, dust pick-up and dust re-emission with a partly loaded rather than an empty receptacle*

The requested harmonised standards shall be updated to include methods to measure energy consumption, dust pick-up and dust re-emission with a partly loaded receptacle that are fit for the purpose of ecodesign and energy labelling. The methods should have an accuracy (error margin) fit for the purpose of ecodesign and energy labelling. The determination of accuracy of the methods may require round robin or other testing.

## **4.2. Requirements for the standardisation work**

### *4.2.1. Project planning*

The Relevant ESO shall ensure that an appropriate and continuous overall project planning is in place for the execution of this standardisation request. A work plan which describes, among others things, tasks, milestones, estimated or allocated resources, estimated or actual deadlines and timeframes as well as contact points shall be made accessible to the Commission.

### *4.2.2. Provision of the work programme*

On the basis of the requirements given in this request (and according to Annex I to this request) the relevant ESO shall prepare **a preliminary work programme** indicating all requested work items, responsible technical bodies and a tentative timetable for the execution of the work.

### *4.2.3. Development of standards*

The **mandated work programme** as agreed with the Commission according to clause 5.4 will be the basis for the standardisation work.

The relevant ESO shall report annually to the Commission on the execution of the mandated work programme. The reporting shall, in particular, contain information on the progress of the tasks set out in this request and indicate any difficulties encountered during the work.

New work items can be added to the mandated work programme provided such work items are within the scope and objectives of this standardisation request.

The relevant ESO shall inform the Commission before a work item is added to or removed from the agreed work programme together with a rationale. Adding a new work item to the work programme is subject to the Commission's agreement with the exception of revisions to deliverables already covered by this standardisation request.

## **5. ARRANGEMENTS FOR THE EXECUTION OF THIS REQUEST**

### **5.1. General conditions for executing this standardisation request**

General conditions for the execution of the Commission's standardisation request apply during the standardisation work.

### **5.2. Project planning**

The **work plan** shall be made available for the Commission at the same time when communicating annual reports according to clause(s) 5.5.

### **5.3. Programming**

The **preliminary work programme** shall be sent to the Commission no later than **four (4)** months after the notification of this standardisation request by the Commission.

### **5.4. Agreement on the mandated work programme**

The Commission will inform relevant ESO no later than **one (1)** month after receiving the preliminary work programme on the work items to be included in the mandated work programme including any priorities to be observed during the work.

### **5.5. Reporting**

The relevant ESO shall give the first joint **annual report** 14 months after the notification of this standardisation request by the Commission and every 12 months afterwards.

Subsequent reporting shall be done in an annual basis and submitting a joint annual report which covers the execution of all eco-design related standardisation requests.

### **5.6. Other provisions**

The relevant ESO shall maintain continuous liaisons with the Commission service responsible for this standardisation request during the execution of the request.

Possible disagreements and disputes on the interpretations of the requirements given in this standardisation request shall be addressed to the Commission service responsible for this standardisation request and always informing the standardisation unit of the Enterprise and Industry Directorate General.

The relevant ESO shall provide the Commission with the titles of harmonised standards in all the official languages of the European Union.

**ANNEX I  
REQUESTED WORK PROGRAMME**

<b>Reference information</b> (title, subject matter, source document etc.)	<b>Publication</b>
<p><b>Durability of the hose and operational motor lifetime</b></p> <p>Adaptation of standard EN 60312:2013 and any other relevant standard.</p>	03/2016
<p><b>Water filter vacuum cleaners</b></p> <p>Adaptation of standard EN 60312:2013 and any other relevant standard.</p>	09/2016
<p><b>Full size battery operated vacuum cleaners</b></p> <p>Adaptation of standard EN 60312:2013 and any other relevant standard.</p>	03/2018
<p><b>Measurement of energy consumption, dust pick-up and dust re-emission with a partly loaded rather than an empty receptacle</b></p> <p>Adaptation of standard EN 60312:2013 and any other relevant standard.</p>	03/2018

## ANNEX II Title

### LIST OF REFERENCED STANDARDS

EN 60312-1:2013	<i>Vacuum cleaners for household use -Part 1: Dry vacuum cleaners -Methods for measuring the performance</i>
EN 60704-2-1:2001	<i>Household and similar electrical appliances – Test code for the determination of airborne acoustical noise Part 2-1: Particular requirements for vacuum cleaners</i>
EN 60335-2-2:2010 + A11:2012	<i>Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water suction cleaning appliances</i>
EN 60335-2-69:2012	<i>Household and similar electrical appliances – Safety – Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use</i>