

Texte zu EU-Regelungen zur umweltgerechten Produktgestaltung und zur Energieverbrauchskennzeichnung in der Beleuchtung – Zusammenstellung ^[1] des Umweltbundesamtes (UBA), Deutschland



Entwürfe der EU-Kommission vom 6. Oktober 2020
Stellungnahme des Herstellerverbandes APPLiA ^[2]
vom 3. November 2020
 – Produktinformation –

Hinweis: Bitte beachten Sie, daß der angehängte Text nur in Englisch verfaßt ist.

EN: Information on EU Lighting Regulations – Ecodesign and Energy Labelling – Compilation ^[1] of the Federal Environment Agency (UBA), Germany

The EU Commission's drafts of 6 October 2020

Comments by the Industry Association APPLiA ^[2] as of 3 November 2020
 – Product Information –

FR: Informations sur réglementations de l'UE concernant l'éclairage – l'écoconception et l'étiquetage énergétique – Compilation ^[1] de l'Agence Fédérale de l'Environnement (UBA), Allemagne

Les projets de la Commission Européenne du 6 octobre 2020

Commentaires de l'association de producteurs APPLiA ^[2]
du 3 novembre 2020
 – Informations sur les produits –

Indication : Veuillez noter que le présent texte n'est disponible qu'en anglais.

^[1] <https://www.eup-network.de/de/eup-netzwerk-deutschland/offenes-forum-eu-regelungen-beleuchtung/dokumente/texte/>

^[2] <https://www.applia-europe.eu/>

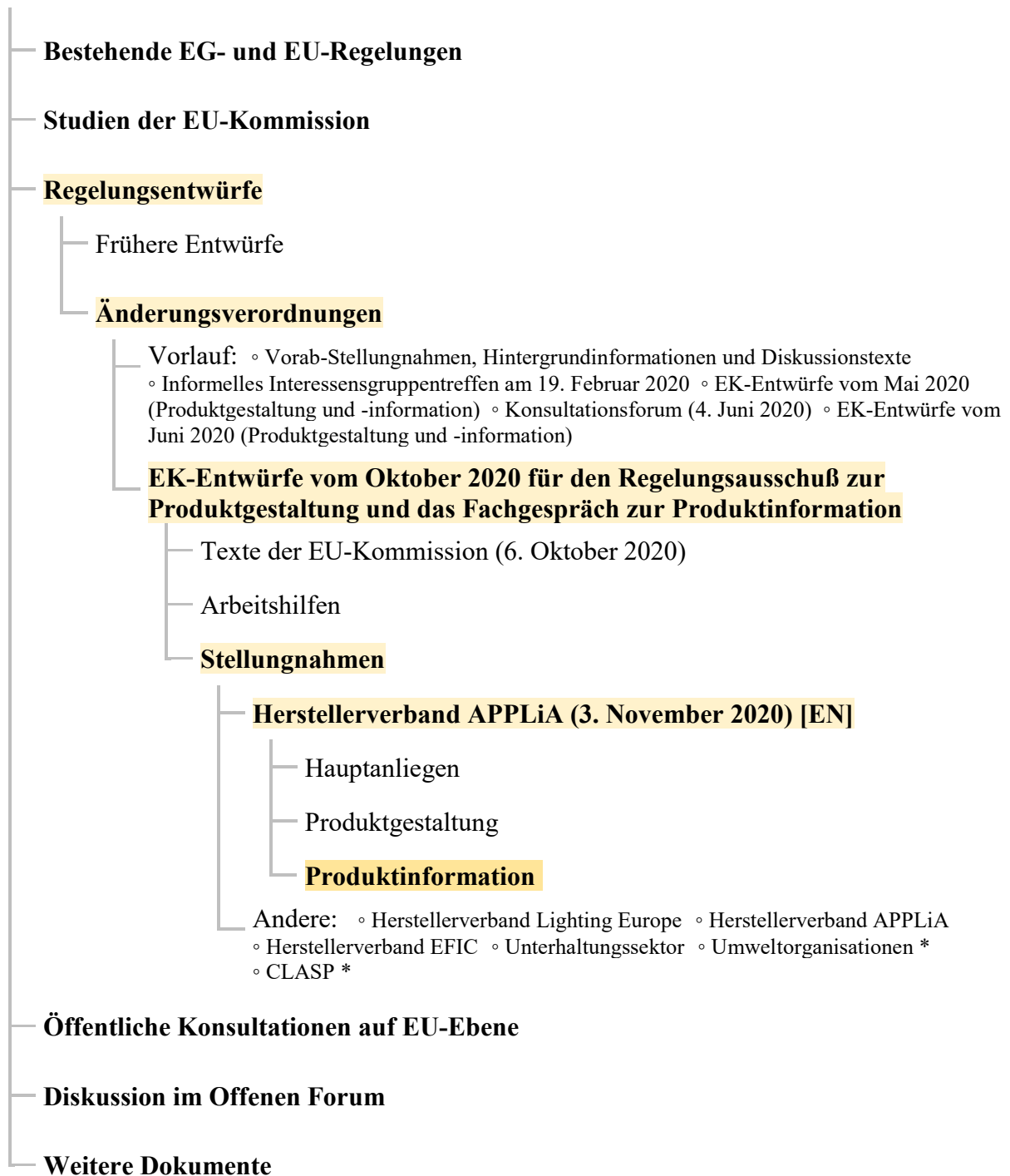
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Texte im Offenen Forum

(**abc** = vorliegender Text)



* Stand 18. November 2020: Dieser Text steht noch nicht zur Verfügung.

Abkürzungen: ● EG = Europäische Gemeinschaft ● EU = Europäische Union

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Documents in the Open Forum

(**abc** = text at hand)

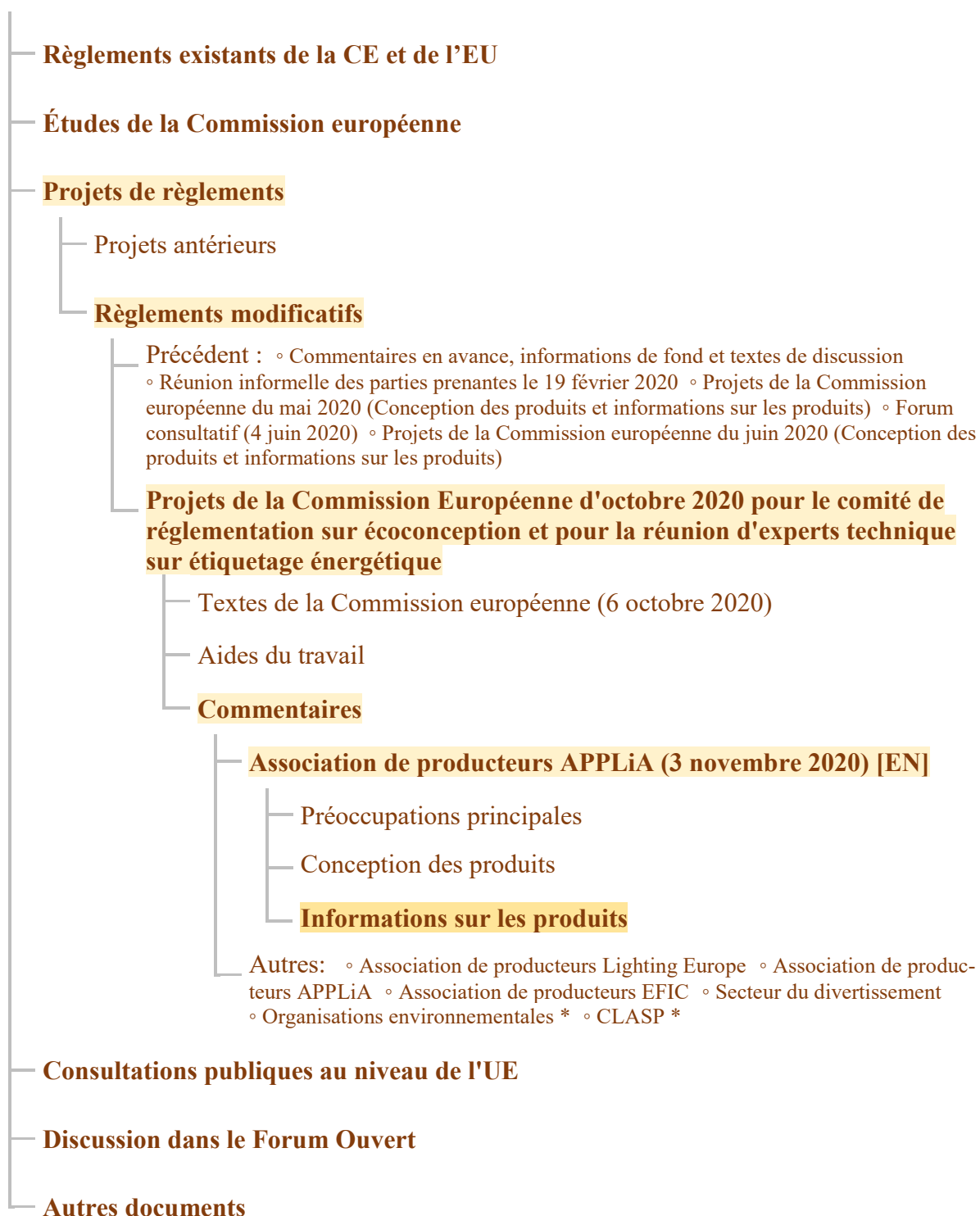


* Status as of 18 November 2020: This text is not yet available.

Abbreviations: ● EC = European Communities ● EU = European Union

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* État au 18 novembre 2020 : Ce texte n'est pas encore disponible.

Abréviations : ● CE = Communauté européenne ● UE = Union européenne

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The points on which APPLiA has commented are on marked by **(APPLiA)**.

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Ecodesign

(...)



Labelling

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Es folgt ein Originaltext, der aus zwei Teilen besteht, deren Seitennumerierung jeweils mit 1 beginnt. Zur besseren Orientierung wurde der Text vom Herausgeber durch einen Fußzeilentext sowie eine durchgehende Seitennumerierung ergänzt; siehe das Beispiel unten. Zwecks Unterscheidung wurden diese Ergänzungen in **{roter Schrift}** vorgenommen. Dabei verwendete Abkürzungen: • EK-Ew = Entwürfe der EU-Kommission • PI = Produktinformation

EN: This is followed by an original text made up of two parts, the page numbering of each part beginning with 1. For better orientation the text has been supplemented by the editor with a footer text and continuous page numbering; see the example below. For purposes of distinction, these additions have been made in **{red}**. Here used abbreviations: • EK-Ew = EU Commission's drafts • PI = Product information

FR: Ce qui suit est un texte original formé de deux parties, chacune d'entre elles ayant une numérotation de page commençant par 1. Pour une meilleure orientation, le texte a été complété par l'éditeur avec un texte de bas de page et une numérotation continue des pages ; voir l'exemple ci-dessous. À des fins de distinction, ces ajouts ont été faits en **{rouge}**. Abréviations utilisées dans ce cadre : • EK-Ew = Projets de la Commission européenne • PI = Informations sur les produits

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{EK-Ew 10/2020 - PI - APPLiA 50/57}		



Brussels, XXX
[...] (2020) XXX draft

COMMISSION DELEGATED REGULATION (EU) .../...

of XXX

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

(Text with EEA relevance)

This draft has not been adopted or endorsed by the European Commission. Any views expressed are the preliminary views of the Commission services and may not in any circumstances be regarded as stating an official position of the Commission.

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EXPLANATORY MEMORANDUM

1. CONTEXT OF THE DELEGATED ACT

In December 2019, the Commission adopted a package of energy labelling and ecodesign regulations imposing new labelling obligations for electronic displays, light sources, washing machines, washer-dryers, dishwashers and refrigerating appliances with a direct sales function.

One of the main changes from the previous energy labelling regulations on such products was to 'rescale' the label. In accordance with Article 11 of the Framework Regulation¹, product-specific delegated acts require suppliers to provide rescaled labels with products as of 1 November 2020 (i.e. 4 months before 1 March 2021, the main date of application, which is also the start of the 15-day 'change-over' period from the old to the new labels). Also from 1 November 2020, suppliers must enter the parameters of the product information sheet in the product database.

Following the publication of the new regulations in December 2019, it became clear that there were discrepancies between the wording of the different regulations.

These differences concern in particular the references to technical parameters and declared values, and how these affect what must be included in the technical documentation, what must be uploaded in the product database and to what the verification tolerances in each regulation should apply.

The Commission therefore proposes to add a definition of declared values, as well as to amend the annexes on technical documentation to make it clear that declared values should be included. Other technical amendments are also introduced to correct clerical errors, improve accuracy, clarify measurements and make technical adaptations to some parameters. These amendments will help ensure consistency with the ecodesign regulations on the same products.

Further minor technical amendments are proposed to improve accuracy, consistency and cross-referencing.

2. CONSULTATIONS PRIOR TO THE ADOPTION OF THE ACT

A stakeholder meeting was held on 12 February 2019 with representatives of industry, in particular electrical appliance manufacturers, Member States and European consumer and environmental NGOs.

The draft Regulation was discussed at a meeting of the Consultation Forum on 4 June 2020, after which written comments were submitted by 11 Member States, two environmental associations, one consumer association and 13 associations representing industry sectors. These were taken into account to the extent possible.

As the amendments proposed in this Regulation are considered minor, no impact assessment has been undertaken.

3. LEGAL ELEMENTS OF THE DELEGATED ACT

Commission Delegated Regulation (EU) 2019/2013 on the energy labelling of electronic displays is amended by adding, a definition of declared values, amending Annex VI on technical documentation and adding a new provision related to transitional methods.

¹ Regulation (EU) 2017/1369 of the European Parliament and of the Council of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU (OJ L 198, 28.7.2017, p. 1).

Commission Delegated Regulation (EU) 2019/2014 on the energy labelling of household washing machines and household washer-dryers is amended by adding a definition of declared values and technical clarifications in Annex IV on measurement methods and calculations, Annex V on the product information sheet, Annex VI on technical documentation, Annex VIII on the information to be provided in the case of distance selling through the internet and Annex IX on the verification procedure for market surveillance purposes.

Commission Delegated Regulation (EU) 2019/2015 on the energy labelling of light sources is amended by amending the definition of declared values, amending Annex II to clarify the size of the labels, clarifying the exemptions in Annex IV, making minor changes to the product information sheet table in Annex V and the technical documentation in Annex VI, and amending Annex IX (verification tolerances).

Commission Delegated Regulation (EU) 2019/2016 on the energy labelling of refrigerating appliances is amended by adding a definition of declared values, amending Annex IV (measurement methods and calculations), replacing the product information sheet table in Annex V and amending Annexes VI (technical documentation) and IX (verification tolerances).

Commission Delegated Regulation (EU) 2019/2017 on the energy labelling of household dishwashers is amended by adding a definition of declared values. Amendments are made to Annex II, Annex IV on measurement methods and calculations, Annex V on the product information sheet, Annex VI on technical documentation and Annex IX on the verification procedure for market surveillance purposes are amended with technical clarifications.

Commission Delegated Regulation (EU) 2019/2018 on the energy labelling of refrigerating appliances with a direct sales function is amended by adding a definition of declared values, and amending Annexes III (label), V (product information sheet), VI (technical documentation) and IX (verification tolerances)

The amendments will take effect 2 months after the proposed Regulation enters into force, in order to give economic operators time to adapt.

Legal basis

The Regulation implements the Energy Labelling Framework Regulation (EU) 2017/1369, in particular its Article 11(5) and Article 16. The Regulation is based on Article 194(2) of the Treaty on the Functioning of the European Union.

Subsidiarity principle

The adoption of varying energy labelling measures by individual Member States would create obstacles to the free movement of goods within the EU. Such measures (and any amendments to them) must therefore have the same content throughout the EU. In line with the principle of subsidiarity, it is thus appropriate for this measure to be adopted at EU level.

Proportionality principle

In accordance with the principle of proportionality, this measure does not go beyond what is necessary to achieve the objective. It clarifies existing requirements in order to improve their application.

Choice of instrument

The proposed form of action is an amending Commission Regulation, because only by amending the Commission Regulations adopted under the Energy Labelling Framework Regulation (EU) 2017/1369 can requirements be fully harmonised throughout the EU.

BUDGETARY IMPLICATION

The proposal has no implications for the EU budget.

ADDITIONAL INFORMATION

Review/revision/sunset clause

The proposal includes no review clause, because the Commission regulations to be amended already have review clauses, which remain unchanged.

European Economic Area

The proposed act concerns an EEA matter and should therefore extend to the EEA.

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COMMISSION DELEGATED REGULATION (EU) .../...

of **XXX**

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) 2017/1369 of the European Parliament and of the Council of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU², and in particular Article 11(5) and Article 16 thereof,

Whereas:

- (1) Regulation (EU) 2017/1369 empowers the Commission to adopt delegated acts.
- (2) Provisions on the energy labelling of electronic displays, household washing machines, light sources, household refrigerating appliances, household dishwashers and refrigerating appliances with a direct sales function were established by Commission Delegated Regulations (EU) 2019/2013³, (EU) 2019/2014⁴, (EU) 2019/2015⁵, (EU)

² OJ L 198, 28.7.2017, p. 1.

³ Commission Delegated Regulation (EU) 2019/2013 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of electronic displays and repealing Commission Delegated Regulation (EU) No 1062/2010, (OJ L 315, 5.12.2019, p. 1–28).

⁴ Commission Delegated Regulation (EU) 2019/2014 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household washing machines and household washer-dryers and repealing Commission Delegated Regulation (EU) No 1061/2010 and Commission Directive 96/60/EC (OJ L 315, 5.12.2019, p. 29–67).

⁵ Commission Delegated Regulation (EU) 2019/2015 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources and repealing Commission Delegated Regulation (EU) No 874/2012 (OJ L 315, 5.12.2019, p. 68–101).

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2019/2016⁶, (EU) 2019/2017⁷ and (EU) 2019/2018⁸ (hereafter the “amended Regulations”).

- (3) In order to avoid confusion for manufacturers and national market surveillance authorities about the values to be included in technical documentation, uploaded in the product database and in relation to verification tolerances, a definition of declared values should be added.
- (4) Technical documentation should be sufficient to allow market surveillance authorities to check the values published on the label and in the product information sheet. In accordance with Article 12 of Regulation (EU) 2017/1369, declared values of the model should be entered into the product database.
- (5) The relevant product parameters should be measured or calculated using reliable, accurate and reproducible methods. Those methods should take into account recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Regulation (EU) No 1025/2012 of the European Parliament and of the Council⁹.
- (6) For electronic displays, harmonised standards have not yet been developed, and relevant existing standards do not cover all necessary regulated parameters, notably as regards High Dynamic Range and Auto Brightness Control. Until the adoption of harmonised standards by the European standardisation bodies for those product groups, the transitional methods set out in this Regulation or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art, should be used in order to ensure the comparability of measurements and calculations.
- (7) Vertical static-air cabinets with non-transparent doors are professional refrigerating appliances and are defined in Commission Delegated Regulation (EU) 2015/1094¹⁰, and therefore should be excluded from Delegated Regulation (EU) 2019/2018.
- (8) The measures provided for in this Regulation were discussed by the Consultation Forum and with the Member States experts in accordance with Articles 14 and 17 of Regulation (EU) 2017/1369.

⁶ Commission Delegated Regulation (EU) 2019/2016 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances and repealing Commission Delegated Regulation (EU) No 1060/2010 (OJ L 315, 5.12.2019, p. 102–133).

⁷ Commission Delegated Regulation (EU) 2019/2017 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household dishwashers and repealing Commission Delegated Regulation (EU) No 1059/2010 (OJ L 315, 5.12.2019, p. 134–154).

⁸ Commission Delegated Regulation (EU) 2019/2018 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances with a direct sales function (OJ L 315, 5.12.2019, p. 155–186).

⁹ 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 Council (OJ L 316, 14.11.2012, p. 12).

¹⁰ Commission Regulation (EU) 2015/1095 of 5 May 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for professional refrigerated storage cabinets, blast cabinets, condensing units and process chillers (OJ L 177, 8.7.2015, p. 19).

- (9) Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) 2019/2018 should therefore be amended accordingly.

HAS ADOPTED THIS REGULATION:

Article 1

Amendments to Delegated Regulation (EU) 2019/2013

Delegated Regulation (EU) No 2019/2013 is amended as follows:

- (1) In Article 1(2), point (g) is replaced by the following:

‘(g) electronic displays that are components or sub-assemblies as defined in point 2 of Article 2 of Directive 2009/125/EC; the environmental performance of an electronic display placed on the market as a spare part cannot be assessed independently if any of the technical parameters to be included in the technical documentation cannot be measured as prescribed in this Regulation’;
- (2) Article 2 is amended as follows,
 - (a) point (10) is replaced by the following:

‘(10) ‘*HiNA*’ means High Network Availability as defined in Article 2 of Commission Regulation (EC) No 1275/2008 ⁽⁹⁾;’;
 - (b) point (17) is deleted;
- (3) in Article 3(1), point (b) is replaced by the following:

‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (4) Annexes I, III, IV V, VI and IX are amended as set out in Annex I to this Regulation.

Commented [A1]: APPLiA would like to clarify that with the proposed wording the exemption applies also when the display is a spare part of the display integrated in a product.

We understand that the environmental performance cannot be assessed since an integrated display will not have a separate mains connection and an AV signal input to allow for testing. Therefore, the spare part is also considered as component or sub-assembly and therefore, out of scope.

Further clarification in a guidance document would be much appreciate.

Commented [A2]: That is to ensure consistency in the wording among regulations

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Article 2

Amendments to Delegated Regulation (EU) 2019/2014

Delegated Regulation (EU) 2019/2014 is amended as follows:

- (1) in Article 3(1), point (b) is replaced by the following:

‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (2) Annexes I, IV, V, VI, VIII, IX and X are amended as set out in Annex II to this Regulation.

Article 3

Amendments to Delegated Regulation (EU) 2019/2015

Delegated Regulation (EU) 2019/2015 is amended as follows:

- (1) in Article 2, point (3) is replaced by the following:

‘(3) ‘containing product’ means a product containing one or more light sources, or separate control gears, or both, including but not limited to luminaires that can be taken apart to allow separate verification of the contained light source(s), household appliances containing light source(s), furniture (shelves, mirrors, display cabinets) containing light source(s);’;

Commented [A3]: APPLiA welcomes this definition. However, we noticed it is slightly different from the one proposed in the ED – we recommend align the two.

Deleted: . Examples of containing products are

in Article 2, point 23 is added

(23) ‘luminaire’ means an apparatus which distributes, filters or transforms the light transmitted from one or more light source and which includes all the parts necessary for supporting, fixing and protecting the light source and, where necessary, circuit auxiliaries together with the means for connecting them to the electric supply;

Commented [A4]: From (EU)2012/0874

- (2) in Article 3(1), point (b) is replaced by the following:
‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (3) Annexes I, III, IV, V, VI and IX are amended as set out in Annex III to this Regulation.

Article 4

Amendments to Delegated Regulation (EU) 2019/2016

Delegated Regulation (EU) 2019/2016 is amended as follows:

- (1) in Article 2, point (31) is replaced by the following:
‘(31) ‘mobile refrigerating appliance’ means a refrigerating appliance that can be used where there is no access to the mains electricity grid and that uses extra low-voltage electricity (< 120V DC) or fuel or both as the energy source for the refrigeration functionality, including a refrigerating appliance that, in addition to extra low voltage electricity or fuel, or both, can be electric mains operated via an external AC/DC converter to be purchased separately. An appliance placed on the market with an AC/DC converter is not a mobile refrigerating appliance;’;
- (2) in Article 3 point (b) of paragraph 1 is replaced by the following:
‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (3) Annexes I, IV, V, VI and IX are amended as set out in Annex IV to this Regulation.

Article 5

Amendments to Delegated Regulation (EU) 2019/2017

Delegated Regulation (EU) 2019/2017 is amended as follows:

- (1) In Article 3(1), point (b) is replaced by the following:
‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (2) Annexes I, II, IV, V, VI and IX are amended as set out in Annex V to this Regulation.

Article 6

Amendments to Delegated Regulation (EU) 2019/2018

Delegated Regulation (EU) 2019/2018 is amended as follows:

- (1) In Article 1(2), point (j) is replaced by the following:
‘(j) corner, curved and carousel cabinets;’;
- (2) in Article 2, point (15) is replaced by the following:

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‘(15) ‘corner, curved and carousel cabinets’ means a refrigerating appliance with a direct sales function used to achieve geometrical continuity between two linear cabinets that are at an angle to each other and/or that form a curve. A corner, curved and carousel cabinets do not have a recognisable longitudinal axis or length since it consists only of a filling shape (wedge or similar) and is not designed to function as a stand-alone refrigerated unit. The two ends of the corner cabinet are inclined at an angle of between 30 ° and 90 °;’;

- (3) in Article 3(1), point (b) is replaced by the following:
‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’
- (4) Annexes I, III, V, VI and IX are amended as set out in Annex VI to this Regulation.

Article 7

Transitional measures

Without prejudice to Article 8, the modifications introduced by Article 2(2), Article 4(3) and Article 5(2) to Annexes V and VI of Regulation (EU) 2019/2014, Regulation (EU) 2019/2016 and Regulation (EU) 2019/2017 respectively, shall not apply to models subject to one of the aforementioned delegated acts for which information was entered in the product database pursuant to Article 4(1) of Regulation (EU) 2017/1369 before XXX [the application date = i.e. Entry into Force date + 2 months].

For models covered by Regulation (EU) 2019/2014, Regulation (EU) 2019/2016 or Regulation (EU) 2019/2017, suppliers shall, prior to YYY [application date], be allowed to enter the information in the product database in accordance with Article 3(1)(b) and Article 3(1)(d) of the aforementioned delegated acts as amended by Article 2(2), Article 4(3) and Article 5(2) respectively.

Article 8

Entry into force and application

This Regulation shall enter into force on the third day following its publication in the Official Journal of the European Union.

Article 1(3), Article 2(2), Article 4(3), Article 5(2) and Article 6(4) shall apply from XXX [date – OP please insert date two months after entry into force]. Article 3(2) shall apply from 1 May 2021. Article 3(1) and (3) shall apply from 1 September 2021.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels,

For the Commission
The President
Ursula VON DER LEYEN

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Brussels, XXX
[...] (2020) XXX draft

ANNEXES 1 to 6

ANNEXES

to the

COMMISSION DELEGATED REGULATION

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

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ANNEX I

Annexes I, III, IV V, VI and IX to Delegated Regulation (EU) 2019/2013 are amended as follows:

- (1) in Annex I, the following point (29) is added:
‘(29) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) in Annex III, the following paragraph is added at the end of Point 10 of Point (f) of Part 2:
‘If the electronic display does not support HDR, the HDR pictogram and the letters of energy efficiency classes are not displayed. The screen pictogram, indicating screen size and resolution, shall be vertically centred in the area below the indication of the energy consumption.’;
- (3) Annex IV is amended as follows:
 - (a) a second paragraph is inserted as follows:
‘In the absence of existing relevant standards and until the publication of the references of the relevant harmonised standards in the Official Journal, the transitional testing methods set out in Annex IIIa to Commission Delegated Regulation (EU) 2019/2021 laying down ecodesign requirements for electronic displays, or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art, shall be used.’;
 - (b) at the end of the Annex, the following text is added:
‘Measurements of Standard Dynamic Range, screen luminance for Auto Brightness Control, Peak White luminance ratio shall be made as detailed in Table 1. The functioning of the forced menu shall be as detailed in Table 1, last row.

Table 1
References and qualifying notes

	Notes
P_{measured} Standard dynamic range (SDR) on-mode, “normal”	Power measurement notes <i>(See Section 1.3.7 of Annex IIIa for informative notes regarding the testing of Displays with a standardised DC input or a non-removable battery providing the primary power. For the purposes of these Transitional Measurement Methods a standardised DC input is solely one compatible with the various forms of USB power delivery.</i> Video Signals Notes The 10-minute Dynamic Broadcast video sequence described in existing relevant standards shall be replaced with an updated 10-minute Dynamic Broadcast video sequence. This is available for download at: https://circabc.europa.eu/ui/group/1582d77c-d930-4c0d-b163-4f67e1d42f5b/library/23ab249b-6ebe-4f45-9b0e-df07bc61a596?p=1&n=10&sort=modified_DESC [link to be updated] . Two files are available, in SD and HD. They are respectively titled “SD Dynamic Video Power.mp4”, and “HD Dynamic Video Power.mp4”. SD resolution is made available for the limited types of display that cannot accept or display higher resolution standards. It is recommended that the HD resolution file is used for all other display resolutions since this closely matches the average picture level (APL) of the current IEC HD dynamic broadcast test sequence described in existing relevant standards . Upscaling from HD to higher native resolution must be performed by the UUT and not an external device. The data signal from the downloaded file storage system to the UUT digital signal interface must be confirmed to provide peak white and full black video levels. If the file playback system has special picture

	optimisation features (e.g. deep blacks or enhanced colour processing) these should be disabled. For repeatability of measurement purposes, the file storage and playback system should be detailed as well as the type of digital interface with the UUT (e.g. HDMI, DVI etc.) The power measurement $P_{measured}$ is an average value from the full 10-minute length of the test pattern, taken with ABC disabled.
$P_{measured}$ High dynamic range (HDR) on-mode “normal” (auto mode switching to HDR)	No existing relevant standards can be used. Following the $P_{measured}$ (SDR) test sequence measurement two HDR test sequences shall be played. These 5-minute sequences are rendered in HD resolution only, in the common HDR standards of HLG and HDR10. Upscaling from HD to a higher native display resolution must be performed by the UUT and not an external device. These files are available for download at: https://circabc.europa.eu/ui/group/1582d77c-d930-4c0d-b163-4f67e1d42f5b/library/38df374d-f367-4b72-93d6-3f48143ad661?p=1&n=10&sort=modified_DESC [link to be updated] and have identical programme content. The files are respectively titled “HDR-HLG Power.mp4” and “HDR_HDR10 Power.mp4” It is essential that the UUT switch to the HDR display mode is confirmed in the picture settings menu before power data is logged. The integrated power measurement for each sequence (P_{av}) should be summed and halved for the calculation of the label HDR energy efficiency class and label HDR power declaration. An ABC allowance does not apply in HDR display mode. (Regulation (EU) 2019/2013 Annex III. 1. Label VII & VIII): Viz: Label VII, $P_{measured}$ for HDR EEI label $= 0.5 * (P_{av\ HLG} + P_{av\ HDR10})$ Label VIII declaration, kWh/1000h $= 0.5 * (P_{av\ HLG} + P_{av\ HDR10})$
Screen Luminance Measurement for automatic brightness control (ABC) control characteristics evaluation and any other peak white luminance measurement requirement.	No existing relevant standards can be used. A new variant of the “box and outline” test pattern providing a dynamic format with colour shall be used for all peak white display luminance measurements and not the 3-bar black and white pattern. A set of these variant test patterns, which combine the box and outline format and VESA L10 to L80 white measurement box format shall be used as described in Section 1.3.4. of Annex IIIa and may be downloaded at: https://circabc.europa.eu/ui/group/1582d77c-d930-4c0d-b163-4f67e1d42f5b/library/4f4b47a4-c078-49c4-a859-84421fc3cf5e?p=1 [link to be updated] They are contained in a sub folders labelled SD, HD and UHD. Each sub folder has eight peak white test patterns from L10 to L80. A resolution may be chosen according to the native resolution and signal compatibility of the UUT. The selection of pattern within the appropriate resolution should be based upon a) the minimum required white box dimensions for correct operation of the contact luminance measuring instrument and b) such that no power limiting effect is exhibited by the UUT (large areas of white may result in a reduction of peak white levels). Any upscaling must be performed by the UUT and not an external device. The data signal from the downloaded file storage system to the UUT digital signal interface must be confirmed to provide peak white and full black video levels and have no other video enhancement processing (e.g. deep blacks / colour enhancement) Both the storage system and signal interface type should be noted. For displays tested using the USB-C interface, the host machine shall not have a battery and must operate on its own ac power source (e.g. desktop computer, Blu-ray player, etc.).
Measurements related to ABC for “Allowances and adjustments for the purposes of the EEI calculation and functional requirements”	The methodology for ABC ambient light source set-up and luminance control as specified in existing standards shall not be used for the purposes of ABC related measurements for this Regulation. A preferred methodology is detailed in Section 1.3.5. of Annex IIIa.
Peak white luminance ratio	No existing relevant standards can be used. The “box and outline” test pattern selected for the ABC peak white luminance measurements (Section 2.3.4) shall be used to measure the peak white luminance of the “normal configuration” with ABC on. If this is less than 150 cd/m ² for monitors or 220 cd/m ² for other display products, then a further measurement must be made of the peak white luminance of the brightest pre-set configuration in the user menu (not the retail setting). ABC need not be on for the luminance ratio measurements but the status of the ABC (on or off) must apply to both measurements. Where ABC is on, the illuminance should be 100lux for both measurements. Care should be taken to ensure that the test pattern selected for peak white luminance measurement in the “normal configuration” does not cause luminance instability (see section 2.3.4) in the brightest pre-set configuration. A smaller peak white box pattern should be selected for both measurements if instability occurs.
Forced Menu and set-up menus	A UUT set up flow chart evaluating conformity with the set-up requirements of the Regulation is shown in Section 1.1 of Annex IIIa

’;

- (4) in Annex V, the following paragraph is added after Table 4:
‘Changes to the information provided in accordance with rows 1, 2, 21, 22, 23 and 24 in table 4 shall not be relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369’;
- (5) Annex VI is amended as follows:
- (a) points (1) to (5) are replaced by the following:
- ‘(1) a general description of the model allowing it to be unequivocally and easily identified, including a list of all equivalent models, including model identifiers;
 - (2) references to the harmonised standards applied or other measurement standards used;
 - (3) specific precautions to be taken when the model is assembled, installed, maintained or tested;
 - (4) the values for the technical parameters set out in Table 5; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;
 - (5) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 5;
 - (6) testing conditions if not described sufficiently in point (b);
 - (7) a list of all equivalent models, including model identifiers;
 - (8) the declared values of the parameters listed in Table 4 of Annex V if not covered by Table 5.

These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.’;

- (b) Table 5 is replaced by the following:

‘Table 5
Technical parameters of the model and declared values

		Parameter value and precision	Unit	Declared value
	General			
1	Supplier's name or trade mark	TEXT		
2	Supplier's model identifier	TEXT		
3	Energy efficiency class for Standard Dynamic Range (SDR)	[A/B/C/D/E/F/G]	A - G	
4	On mode power demand in Standard Dynamic Range (SDR)	XXX,X	W	
5	Energy efficiency class for High Dynamic Range (HDR), if implemented	[A/B/C/D/E/F/G] or n.a.	A - G	
6	On mode power demand in High Dynamic Range (HDR)	XXX,X	W	

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7	Off mode, power demand	X,X			W	
8	Standby mode power demand	X,X			W	
9	Networked standby mode power demand	X,X			W	
10	Electronic display category	[television/ monitor/ signage / other]			TEXT	
11	Size ratio	XX	:	XX		
12	Screen resolution (pixels)	X	×	X		
13	Screen diagonal	XXX,X			cm	
14	Screen diagonal	XX			inches	
15	Visible screen area	XXX,X			dm ²	
16	Panel technology used	TEXT				
17	Automatic Brightness Control (ABC) available	[YES/NO]				
18	Voice recognition sensor available	[YES/NO]				
19	Room presence sensor available	[YES/NO]				
20	Image refresh frequency rate	XXX			Hz	
21	Minimum guaranteed availability of software and firmware updates (from the date of end of the placement on the market, as from Annex II E, point 1 of Commission Regulation (EU) 2019/2021):	XX			Years	
22	Minimum guaranteed availability of spare parts (from the date of end of the placement on the market, as set out in Annex II D, point 1 of Commission Regulation (EU) 2019/2021):	XX			Years	
23	Minimum guaranteed product support (from the date of end of the placement on the market):	XX			Years	
	For On-mode					
24	Peak white luminance of the brightest on mode configuration	XXXX			cd/m ²	
25	Peak white luminance of the normal configuration	XXXX			cd/m ²	
26	Peak white luminance ratio (calculated) (Value row 25 above divided by value row 24 above multiplied by 100) <i>Alternatively</i> (Value of ‘Peak white luminance of the normal configuration’ divided by value of ‘Peak white luminance of the brightest on mode configuration’ multiplied by 100)	XX,X			%	
	For APD					
27	Length of time in on mode before the electronic display automatically switches to standby, off mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode.	XX:XX			mm:ss	

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28	For televisions: the length of time, following the last user interaction, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode;	XX:XX	mm:ss	
29	For televisions equipped with room presence sensor : the length of time, when no presence is detected, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode ;	XX:XX	mm:ss	
30	For electronic displays other than televisions and broadcast displays: the length of time, when no input is detected, before the electronic display automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off mode or standby mode ;	XX:XX	mm:ss	
	For ABC If available and activated by default			
31	Percentage of power reduction due to ABC action between the 100 lux and 12 lux ambient light conditions.	XX,X	%	
32	On mode power at 100 lux ambient light at the ABC sensor	XXX,X	W	
33	On mode power at 12 lux ambient light at the ABC sensor	XXX,X	W	
34	Screen luminance at 100 lux ambient light at the ABC sensor*	XXX	cd/m²	
35	Screen luminance at 60 lux ambient light at the ABC sensor*	XXX	cd/m²	
36	Screen luminance at 35 lux ambient at the ABC sensor*	XXX	cd/m²	
37	Screen luminance at 12 lux ambient light at the ABC sensor*	XXX	cd/m²	
	For Power Supply			
38	Power supply (internal or external, only if bundled with the display)	Standard reference (if any)	TEXT	
39	Input voltage	XXX,X	V	
40	Output voltage	XXX,X	V	
41	Input current (max)	XXX,X	A	
42	Output current (min)	XXX,X	A	

* the values of ABC luminance-related parameters are indicative, and the verification is against the applicable ABC-related requirements.*;

- (c) point (6) is renumbered as point (9)
 - (d) point (7) is renumbered as point (10)
 - (e) point (8) is renumbered as point (11)
- (6) Annex IX is amended as follows:
- (a) the first paragraph is replaced by the following:
 ‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;
 - (b) point (7) is replaced by the following:
 ‘(7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision is taken on the non-compliance of the model according to points 3, 6 or the second paragraph of this Annex.’;
 - (c) Table 6 is replaced by the following:

‘Table 6
Verification tolerances

Parameter	Verification tolerances
On mode power demand ($P_{measured}$, Watts)	The determined value* shall not exceed the declared value by more than 7 %.
Off mode, standby, and networked standby mode power demand in Watts, as applicable.	The determined value* shall not exceed the declared value by more than 0,10 Watt if the declared value is 1,00 Watt or less, or by more than 10 % if the declared value is more than 1,00 Watt.
Visible screen area	The determined value* shall not be lower than the declared value by more than 1 % or 0,1 dm ² , whichever is smaller.
The screen resolution in horizontal and vertical pixels	The determined value* shall not deviate from the declared value.
Peak white luminance	The determined value* shall not be lower than the declared value by more than 7 %.
Length of time in on mode before the electronic display automatically switches to standby, off mode, or another	The determined value* shall not exceed the declared value by more than 10 seconds.

condition which does not exceed the applicable power demand requirements for off mode or standby mode	
For televisions: the length of time, following the last user interaction, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode	The determined value* shall not exceed the declared value by more than 10 seconds.
For televisions equipped with room presence sensor: the length of time, when no presence is detected, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode	The determined value* shall not exceed the declared value by more than 10 seconds.
For electronic displays other than televisions and broadcast displays: the length of time, when no input is detected, before the electronic display automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off mode or standby mode	The determined value* shall not exceed the declared value by more than 10 seconds.
(*) In the case of three additional units tested as prescribed in point 4, the determined value means the arithmetic mean of the values determined for these three additional units.	

ANNEX II

Annexes I, IV, V, VI, VIII, IX and X to Delegated Regulation (EU) 2019/2014 are amended as follows:

- (1) in Annex I, the following point (33) is added:

‘(33) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) Annex IV is amended as follows:
 - (a) point 1 is replaced by the following:

‘1. RATED CAPACITY OF HOUSEHOLD WASHER-DRYERS

The rated capacity of household washer-dryers is the rated capacity of the wash and dry cycle.

If the household washer-dryer provides a continuous cycle, the rated capacity of the wash and dry cycle shall be the rated capacity for this cycle.

If the household washer-dryer does not provide a continuous cycle, the rated capacity of the wash and dry cycle shall be the lower value of the rated washing capacity of the eco 40-60 programme and the rated drying capacity of the drying cycle achieving cupboard dry status.’;
 - (b) points 3 and 4 are replaced by the following:

‘3. WASHING EFFICIENCY INDEX

The washing efficiency index of household washing machines and of the washing cycle of household washer-dryers (I_W) and the washing efficiency index of the complete cycle of household washer-dryers (J_W) shall be calculated using harmonised standards the reference numbers of which have been published for this purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art, and rounded to three decimal places.

For household washing machines with a rated capacity higher than 3 kg and for the washing cycle of household washer-dryers with a rated capacity higher than 3 kg, the I_W indicated on the Product Information Sheet shall be the lowest value between the washing efficiency index at rated washing capacity, half of the rated washing capacity, and quarter of the rated washing capacity.

For household washing machines with a rated capacity lower than or equal to 3 kg and for the washing cycle of household washer-dryers with a rated capacity lower than or equal to 3 kg, the I_W indicated on the Product Information Sheet shall be the washing efficiency index at rated washing capacity.

For household washer-dryers with a rated capacity higher than 3 kg, the J_W indicated on the Product Information Sheet shall be the lower value between the washing efficiency index at rated capacity and half of the rated capacity.

For household washer-dryers with a rated capacity lower than or equal to 3 kg, the J_W indicated on the Product Information Sheet shall be the washing efficiency index at rated capacity.

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4. RINSING EFFECTIVENESS

The rinsing effectiveness of household washing machines and of the washing cycle of household washer-dryers (I_R) and the rinsing effectiveness of the complete cycle of household washer-dryers (J_R) shall be calculated using harmonised standards, the reference numbers of which have been published for this purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible method based on the detection of the linear alkylbenzene sulfonate (LAS) marker, and rounded to one decimal place.

For household washing machines with a rated capacity higher than 3 kg and for the washing cycle of household washer-dryers with a rated capacity higher than 3 kg, the I_R indicated on the Product Information Sheet shall be the highest value between the rinsing effectiveness at rated washing capacity, half of the rated washing capacity, and quarter of the rated washing capacity.

For household washing machines with a rated capacity lower than, or equal to 3 kg and for the washing cycle of household washer-dryers with a rated capacity lower than, or equal to 3 kg, no value shall be indicated for I_R on the Product Information Sheet.

For household washer-dryers with a rated capacity higher than 3 kg, the J_R indicated on the Product Information Sheet shall be the higher value between the rinsing effectiveness at rated capacity and half of the rated capacity.

For household washer-dryers with a rated capacity lower than, or equal to 3 kg, no value shall be indicated for J_R on the Product Information Sheet.’;

- (c) in point 6, the first paragraph of point 2 is replaced by the following:
 - (a) ‘For household washer-dryers with a rated washing capacity lower than or equal to 3 kg, the weighted water consumption of the wash and dry cycle is the water consumption at rated capacity and rounded to the nearest integer.’;
- (d) point 7 is replaced by the following:

‘7. REMAINING MOISTURE CONTENT

‘The weighted remaining moisture content after washing (D) of a household washing machine and of the washing cycle of a household washer-dryer is calculated in percentage as follows and rounded to one decimal place:

$$D = \left[A \times D_{\text{full}} + B \times D_{\frac{1}{2}} + C \times D_{\frac{1}{4}} \right]$$

where:

D_{full} is the remaining moisture content for the eco 40-60 programme at rated washing capacity, in percentage and rounded to two decimal places;

$D_{1/2}$ is the remaining moisture content for the eco 40-60 programme at half of the rated washing capacity in percentage and rounded to two decimal places;

$D_{1/4}$ is the remaining moisture content for the eco 40-60 programme at a quarter of the rated washing capacity in percentage and rounded to two decimal places;

A, B and C are the weighting factors as described in point 2.1(c).’;

- (e) point 9 is replaced by the following:

Commented [A1]: The weighted is one decimal place – in the PIS however, it’s different.

‘9. LOW POWER MODES

Where applicable, the power consumption of the off mode (P_o), standby mode (P_{sm}) and delay start (P_{ds}) are measured. The measured values are expressed in W and rounded to two decimal places.

During measurements of the power consumption in low power modes, the following shall be checked and recorded:

- the display or not of information;
- the activation or not of a network connection.

If a household washing machine or a household washer-dryer provides for a wrinkle guard function, this operation shall be interrupted by opening the household washing machine or household washer-dryer door, or any other appropriate intervention 15 minutes before the measurement of energy consumption.’;

- (f) the following point 11 is added at the end:

‘11. SPIN SPEED

The spin speed of a household washing machine and of the washing cycle of a household washer-dryer shall be measured or calculated at the highest spin speed option for the eco 40-60 programme using harmonised standards the reference numbers of which have been published for this purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible methods, which take into account the generally recognised state-of-the-art, and rounded to the nearest integer.’;

- (3) Annex V is amended as follows:

- (a) Table 5 is replaced by the following:

‘Table 5

Content, order and format of the product information sheet

Supplier's name or trade mark ^{a,c} :				
Supplier's address ^{a,c} :				
Model identifier ^{a,c} :				
General product parameters:				
Parameter	Value	Parameter	Value	
Rated capacity ^b (kg)	x,x	Dimensions in cm a,c	Height	x
			Width	x
			Depth	x
Energy efficiency index ^b (EEI _w)	x,x	Energy efficiency class ^b	[A/B/C/D/E/F/G] ^d	

Washing efficiency index ^b	x,xxx		Rinsing effectiveness (g/kg) ^b	x,x
Energy consumption in kWh per cycle, based on the eco 40-60 programme. Actual energy consumption will depend on how the appliance is used.	x,xxx		Water consumption in litre per cycle, based on the eco 40-60 programme. Actual water consumption will depend on how the appliance is used and on the hardness of the water.	x
Maximum temperature inside the treated textile ^b (°C)	Rated capacity	x	Weighted remaining moisture content ^b (%)	x,x
	Half	x		
	Quarter	x		
Spin speed ^b (rpm)	Rated capacity	x	Spin-drying efficiency class ^b	[A/B/C/D/E/F/G] ^d
	Half	x		
	Quarter	x		
Programme duration ^b (h:min)	Rated capacity	x:xx	Type	[built-in/free-standing]
	Half	x:xx		
	Quarter	x:xx		
Airborne acoustical noise emissions in the spinning phase ^b (dB(A) re 1 pW)	x		Airborne acoustical noise emission class ^b (spinning phase)	[A/B/C/D] ^d
Off-mode (W) (if applicable)	x,xx		Standby mode (W) (if applicable)	x,xx
Delay start (W) (if applicable)	x,xx		Networked standby (W) (if applicable)	x,xx
Minimum duration of the guarantee offered by the supplier ^{a,c} :				
This product has been designed to release silver ions during the washing cycle a,c			[YES/NO]	
Additional information ^{a,c} :				
Weblink to the supplier's website, where the information in point 9 of Annex II to Commission Regulation (EU) 2019/2023 is found ^{a,c} :				

^a this item shall not be considered relevant for the purposes of Article 2(6) of Regulation (EU) 2017/1369.

Commented [A2]: Our understanding is that for energy and water it is meant the 'weighted' energy and water consumption – as it is stated in the PIS for Washer-Dryers

Commented [A3]: Align this to the Annex IV

Commented [A4]: this feature has no impact on the product performance so that footnotes a and c should apply too

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^b for the eco 40-60 programme.

^c changes to these items shall not be considered relevant for the purposes of paragraph 4 of Article 4 of Regulation (EU) 2017/1369.

^d if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.’;

(b) Table 6 is replaced by the following:

‘Table 6

Content, order and format of the product information sheet

Supplier’s name or trade mark^{a,d}:					
Supplier’s address ^{a,d}:					
Model identifier^{a,d}:					
General product parameters:					
Parameter	Value		Parameter	Value	
Rated capacity (kg)	Rated capacity ^c	x,x	Dimensions in cm ^{a,d}	Height	x
	Rated washing capacity ^b	x,x		Width	x
				Depth	x
Energy Efficiency Index	EEI _w ^b	x,x	Energy efficiency class	EEI _w ^b	[A/B/C/D/E/F/G] ^e
	EEI _{wd} ^c	x,x		EEI _{wd} ^c	[A/B/C/D/E/F/G] ^e
Washing efficiency index	I _w ^b	x,xxx	Rinsing effectiveness (g/ kg dry textile)	I _r ^b	x,x
	J _w ^c	x,xxx		J _r ^c	x,x
Energy consumption in kWh per cycle, for the washing cycle of the household washer-dryer, using the eco 40-60 programme at a combination of full and partial loads. Actual energy consumption will depend on how the appliance is used	x,xxx		Energy consumption in kWh per cycle, for the wash and dry cycle of the household washer-dryer at a combination of full and half loads. Actual energy consumption will depend on how the appliance is used	x,xxx	
Water consumption in litre per cycle, for the eco 40-60 programme at a combination of full and partial loads. Actual water consumption will depend on how the appliance is used and on the hardness of the water	x		Water consumption in litre per cycle, for the wash and dry cycle of the household washer-dryer at a combination of full and half loads. Actual water consumption will depend on how the appliance is used and on the hardness of the water	x	
Maximum temperature inside the treated textile (°C) for the washing cycle	Rated washing capacity	x	Maximum temperature inside the treated textile (°C) for the washing cycle	Rated capacity	x

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of the household washer-dryer, using the eco 40-60 programme	Half	x	of the household washer-dryer, using the wash and dry cycle		
	Quarter	x		Half	x
Spin speed (rpm) ^b	Rated washing capacity	x	Weighted remaining moisture content (%) ^b	x.xx	
	Half	x			
	Quarter	x			
Eco 40-60 programme duration (h:min)	Rated washing capacity	x:xx	Spin-drying efficiency class ^b	[A/B/C/D/E/F/G] ^c	
	Half	x:xx			
	Quarter	x:xx			
Airborne acoustical noise emissions during the spinning phase for the eco 40-60 washing cycle at rated washing capacity (dB(A) re 1 pW)	x		wash and dry cycle duration (h:min)	Rated capacity	x:xx
				Half	x:xx
Type	[built-in/free-standing]		Airborne acoustical noise emission class for the spinning phase for the eco 40-60 programme at rated washing capacity	[A/B/C/D] ^c	
Off-mode (W) (if applicable)	x,xx		Standby mode (W) (if applicable)	x,xx	
Delay start (W) (if applicable)	x,xx		Networked standby (W) (if applicable)	x,xx	

Minimum duration of the guarantee offered by the supplier^{a,d}:

This product has been designed to release silver ions during the washing cycle a,d	[YES/NO]
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Additional information^{a,d}:

Weblink to the supplier's website, where the information in point 9 of Annex II to Regulation (EU) 2019/2023 is found^{a,d}:

^a this item shall not be considered relevant for the purposes of Article 2(6) of Regulation (EU) 2017/1369.

^b for the eco 40-60 programme.

^c for the wash and dry cycle.

^d changes to these items shall not be considered relevant for the purposes of paragraph 4 of Article 4 of Regulation (EU) 2017/1369.

Commented [A5]: Align this to the Annex IV

Deleted: ^c

° if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.’;

(4) Annex VI is amended as follows:

(a) point 1 is replaced by the following:

‘1. For household washing machines, the technical documentation referred to in point 1(d) of Article 3 shall include the following elements:

(a) a general description of the model allowing it to be unequivocally and easily identified,▼

Deleted: including a list of all equivalent models, including model identifiers

(b) references to the harmonised standards applied or other measurement standards used;

(c) specific precautions to be taken when the model is assembled, installed, maintained or tested;

(d) the values for the technical parameters set out in Table 7; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;

(e) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 7;

(f) testing conditions if not described sufficiently in point (b);

(g) [a reference to the](#) equivalent models, including model identifiers;▼

Deleted: a list of all

(h) ▼

Deleted: the declared values of the parameters listed in Table 5 of Annex V if not covered by Table 7.

These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.

Table 7
Technical parameters of the model and their declared values for household washing machines

PARAMETER	DECLARED VALUE	UNIT
Rated capacity for the eco 40-60 programme, at 0,5 kg intervals (c)	X,X	kg
Energy consumption of the eco 40-60 programme at rated capacity ($E_{W,full}$)	X,XXX	kWh/cycle
Energy consumption of the eco 40-60 programme at half rated capacity ($E_{W,1/2}$)	X,XXX	kWh/cycle
Energy consumption of the eco 40-60 programme at quarter rated capacity ($E_{W,1/4}$)	X,XXX	kWh/cycle
Weighted energy consumption of the eco 40-60 programme (E_W) ¹ ▼	X,XXX	kWh/cycle

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Standard energy consumption of the eco 40-60 programme (SCE _w) ²	X,XXX	kWh/cycle
Energy Efficiency Index (EEI _w) ³	X,X	-
Water consumption of the eco 40-60 programme at rated capacity (W _{w,full})	X,X	L/cycle
Water consumption of the eco 40-60 programme at half rated capacity (W _{w,1/2})	X,X	L/cycle
Water consumption of the eco 40-60 programme at quarter rated capacity (W _{w,1/4})	X,X	L/cycle
Weighted water consumption (W _w) ⁴	X	L/cycle
Washing efficiency index of the eco 40-60 programme at rated capacity (I _w)	X,XXX	-
Washing efficiency index of the eco 40-60 programme at half rated capacity (I _w)	X,XXX	-
Washing efficiency index of the eco 40-60 programme at quarter rated capacity (I _w)	X,XXX	-
Rinsing effectiveness of the eco 40-60 programme at rated capacity (I _R)	X,X	g/kg
Rinsing effectiveness of the eco 40-60 programme at half rated capacity (I _R)	X,X	g/kg
Rinsing effectiveness of the eco 40-60 programme at quarter rated capacity (I _R)	X,X	g/kg
Programme duration of the eco 40-60 programme at rated capacity (t _w)	X:XX	h:min
Programme duration of the eco 40-60 programme at half rated capacity (t _w)	X:XX	h:min
Programme duration of the eco 40-60 programme at quarter rated capacity (t _w)	X:XX	h:min
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at rated capacity (T)	X	°C
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at half rated capacity (T)	X	°C

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Temperature reached for minimum 5 min inside the load during eco 40-60 programme at quarter rated capacity (T)	X	°C
Spin speed in the spinning phase of the eco 40-60 programme at rated capacity (S)	X	rpm
Spin speed in the spinning phase of the eco 40-60 programme at half rated capacity (S)	X	rpm
Spin speed in the spinning phase of the eco 40-60 programme at quarter rated capacity (S)	X	rpm
Weighted remaining moisture content (D) ⁵	X,X	%
Airborne acoustical noise emissions during eco 40-60 programme (spinning phase)	X	dB(A) re 1 pW
Power consumption in 'off mode' (P _o) (if applicable)	X,XX	W
Power consumption in 'standby mode' (P _{sm}) (if applicable)	X,XX	W
Does 'standby mode' include the display of information?	Yes/No	-
Power consumption in 'standby mode' (P _{sm}) in condition of networked standby (if applicable)	X,XX	W
Power consumption in 'delay start' (P _{ds}) (if applicable)	X,XX	W

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¹The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 2.1(c) carried out with the declared values at a quarter of the rated capacity, at half of the rated capacity and at rated capacity of this parameter

² The verification of the value of this parameter is only performed to verify the correctness of the calculation according to ANNEX IV 2.1 (b).

³ The value of this parameter is verified by verification of the values of the parameter EW and SCEw and by verification of the correctness of the calculation according to ANNEX IV 2.1(a).

⁴ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 6. (1) carried out with the declared values at a quarter of the rated capacity, at half of the rated capacity and at rated capacity of this parameter or by verifying the correctness of the calculation according to ANNEX IV 6. (2) carried out with the declared at half of the rated capacity and at rated capacity of this parameter.

⁵ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 7. carried out with the declared values at a quarter of the rated capacity, at half of the rated capacity and at rated capacity of this parameter.';

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(b) point 2 is replaced by the following:

‘2. For household washer-dryers, the technical documentation referred to in point 1(d) of Article 3 shall include the following elements:

- (a) a general description of the model allowing it to be unequivocally and easily identified, including a list of all equivalent models;
- (b) references to the harmonised standards applied or other measurement standards used;
- (c) specific precautions to be taken when the model is assembled, installed, maintained or tested;
- (d) the values for the technical parameters set out in Table 8; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;
- (e) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 8;
- (f) testing conditions if not described sufficiently in point (b);
- (g) [a reference to the](#) equivalent models, including model identifiers;
- (h) [a reference to the](#) equivalent models, including model identifiers;

These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12.5 of Regulation (EU) 2017/1369.

Table 8
Technical parameters of the model and their declared values for household washer-dryers

PARAMETER	DECLARED VALUE	UNIT
Rated capacity for the washing cycle, at 0,5 kg intervals (c)	X,X	kg
Rated capacity for the wash and dry cycle, at 0,5 kg intervals (d)	X,X	kg
Energy consumption of the eco 40-60 programme at rated washing capacity ($E_{W,full}$)	X,XXX	kWh/cycle
Energy consumption of the eco 40-60 programme at half of the rated washing capacity ($E_{W,1/2}$)	X,XXX	kWh/cycle
Energy consumption of the eco 40-60 programme at a quarter of the rated washing capacity ($E_{W,1/4}$)	X,XXX	kWh/cycle
Weighted energy consumption of the eco 40-60 programme (E_W) ¹	X,XXX	kWh/cycle
Standard energy consumption of the eco 40-60 programme (SCE_W) ²	X,XXX	kWh/cycle

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Energy Efficiency Index of the washing cycle (EEI_w) ³	X,X	-
Energy consumption of the wash and dry cycle at rated capacity ($E_{WD,full}$)	X,XXX	kWh/cycle
Energy consumption of the wash and dry cycle at half rated capacity ($E_{WD,1/2}$)	X,XXX	kWh/cycle
Weighted energy consumption of the wash and dry cycle (E_{WD}) ⁴	X,XXX	kWh/cycle
Standard energy consumption of the wash and dry cycle (SCE_{WD}) ⁵	X,XXX	kWh/cycle
Energy Efficiency Index of the wash and dry cycle (EEI_{WD}) ⁶	X,X	-
Water consumption of the eco 40-60 programme at rated washing capacity ($W_{w,full}$)	X,X	L/cycle
Water consumption of the eco 40-60 programme at half of the rated washing capacity ($W_{w,1/2}$)	X,X	L/cycle
Water consumption of the eco 40-60 programme at a quarter of the rated washing capacity ($W_{w,1/4}$)	X,X	L/cycle
Weighted water consumption of the washing cycle (W_w) ⁷	X	L/cycle
Water consumption of the wash and dry cycle at rated capacity ($W_{WD,full}$)	X,X	L/cycle
Water consumption of the wash and dry cycle at half rated capacity ($W_{WD,1/2}$)	X,X	L/cycle
Weighted water consumption of the wash and dry cycle (W_{WD}) ⁸	X	L/cycle
Washing efficiency index of the eco 40-60 programme at rated washing capacity (I_w)	X,XXX	-
Washing efficiency index of the eco 40-60 programme at half rated washing capacity (I_w)	X,XXX	-
Washing efficiency index of the eco 40-60 programme at quarter rated washing capacity (I_w)	X,XXX	-
Washing efficiency index of the wash and dry cycle at rated capacity (J_w)	X,XXX	-
Washing efficiency index of the wash and dry cycle at half rated capacity (J_w)	X,XXX	-

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Rinsing effectiveness of the eco 40-60 programme at rated washing capacity (I _R)	X,X	g/kg
Rinsing effectiveness of the eco 40-60 programme at half rated washing capacity (I _R)	X,X	g/kg
Rinsing effectiveness of the eco 40-60 programme at quarter rated washing capacity (I _R)	X,X	g/kg
Rinsing effectiveness of the wash and dry cycle at rated capacity (J _R)	X,X	g/kg
Rinsing effectiveness of the wash and dry cycle at half rated capacity (J _R)	X,X	g/kg
Programme duration of the eco 40-60 programme at rated washing capacity (t _w)	X:XX	h:min
Programme duration of the eco 40-60 programme at half rated washing capacity (t _w)	X:XX	h:min
Programme duration of the eco 40-60 programme at quarter rated washing capacity (t _w)	X:XX	h:min
Cycle duration of the wash and dry cycle at rated capacity (t _{WD})	X:XX	h:min
Cycle duration of the wash and dry cycle at half rated capacity (t _{WD})	X:XX	h:min
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at rated washing capacity (T)	X	°C
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at half rated washing capacity (T)	X	°C
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at quarter rated washing capacity (T)	X	°C
Temperature reached for minimum 5 min inside the load in the washing cycle during wash and dry cycle at rated capacity (T)	X	°C
Temperature reached for minimum 5 min inside the load in the washing cycle during wash and dry cycle at half rated capacity (T)	X	°C
Spin speed in the spinning phase of the eco 40-60 programme at rated washing capacity (S)	X	rpm

Spin speed in the spinning phase of the eco 40-60 programme at half rated washing capacity (S)	X	rpm
Spin speed in the spinning phase of the eco 40-60 programme at quarter rated washing capacity (S)	X	rpm
Weighted remaining moisture content after washing (D) ²	X,X	%
Final moisture content after drying	X,X	%
Airborne acoustical noise emissions during eco 40-60 programme (spinning phase)	X	dB(A) re 1 pW
Power consumption in 'off mode' (P _o) (if applicable)	X,XX	W
Power consumption in 'standby mode' (P _{sm}) (if applicable)	X,XX	W
Does 'standby mode' include the display of information?	Yes/No	-
Power consumption in 'standby mode' (P _{sm}) in condition of networked standby (if applicable)	X,XX	W
Power consumption in 'delay start' (P _{ds}) (if applicable)	X,XX	W

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¹ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 2.1(c) carried out with the declared values at a quarter of the rated washing capacity, at half of the rated washing capacity and at rated washing capacity of this parameter.

² The verification of the value of this parameter is only-performed to verify the correctness of the calculation according to ANNEX IV 2.1 (b).

³ The value of this parameter is verified by verification of the values of the parameters E_w and SCE_w and by verification of the correctness of the calculation according to ANNEX IV 2.1(a).

⁴ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 2.2(c) carried out with the declared values at half of the rated capacity and at rated capacity of this parameter.

⁵ The verification of the value of this parameter is only-performed to verify the correctness of the calculation according to ANNEX IV 2.2(b).

⁶ The value of this parameter is verified by verification of the values of the parameter E_{WD} and SCE_{WD} and by the verification of the correctness of the calculation according to ANNEX IV 2.2(a).

⁷ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 6. (1) carried out with the declared values at a quarter of the rated washing capacity, at half of the rated washing capacity and at rated washing capacity of this parameter.

⁸ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to

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ANNEX IV 6. (2) carried out with the declared values at half of the rated capacity and at rated capacity of this parameter.

⁹ The value of this parameter is verified according to ANNEX IX 2(c) of this Regulation by comparing it to the determined value and by verifying the correctness of the calculation according to ANNEX IV 7. carried out with the declared values at a quarter of the rated washing capacity, at half of the rated washing capacity and at rated washing capacity of this parameter.;

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(5) in Annex VIII, point 1 is replaced by the following:

'1. The appropriate label made available by suppliers in accordance with point 1(g) of Article 3 shall be shown on the display mechanism in proximity to the price of the product. The size shall be such that the label is clearly visible and legible and shall be proportionate to the size specified in Annex III. The label may be displayed using a nested display, in which case the image used for accessing the label shall comply with the specifications laid down in point 2 of this Annex. If a nested display is applied, the label shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the image.';

(6) Annex IX is amended as follows:

(a) the first paragraph is replaced by the following:

'The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.';

(b) point 7 is replaced by the following:

'(7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision is taken on the non-compliance of the model according to points 3, 6 or the second paragraph of this Annex.';

(c) Table 9 is replaced by the following:

Table 9
Verification tolerances

Parameter	Verification tolerances
$E_{W,full}$, $E_{W,1/2}$, $E_{W,1/4}$, $E_{WD,full}$, $E_{WD,1/2}$	The determined value* shall not exceed the declared value of $E_{W,full}$, $E_{W,1/2}$, $E_{W,1/4}$, $E_{WD,full}$ and $E_{WD,1/2}$, respectively, by more than 10 %.
Weighted energy consumption (E_W and E_{WD})	The determined value* shall not exceed the declared value of E_W , respectively E_{WD} , by more than 10 %.
$W_{W,full}$, $W_{W,1/2}$, $W_{W,1/4}$, $W_{WD,full}$, $W_{WD,1/2}$	The determined value* shall not exceed the declared value of $W_{W,full}$, $W_{W,1/2}$, $W_{W,1/4}$, $W_{WD,full}$ and $W_{WD,1/2}$, respectively, by more than 10 %.
Weighted water consumption (W_W and W_{WD})	The determined value* shall not exceed the declared value of W_W , respectively W_{WD} , by more than 10 %.

Washing efficiency index (I_w) at rated washing capacity, at half rated washing capacity and at quarter rated capacity; Washing Efficiency Index (and J_w) at rated capacity and half rated capacity	The determined value* shall not be less than the declared value of I_w , respectively J_w , by more than 8 %.
Rinsing effectiveness (I_R) at rated washing capacity, at half rated washing capacity and at quarter rated washing capacity. Rinsing effectiveness (J_R) at rated capacity and at half rated capacity.	The determined value* shall not exceed the declared value of I_R , respectively J_R , by more than 1,0 g/kg.
Programme duration at rated washing capacity, at half rated washing capacity and at quarter rated washing capacity. Cycle duration at rated capacity and at half rated capacity.	The determined value* of the programme or cycle duration shall not exceed the declared value by more than 5 % or by more than 10 minutes, whichever is smaller.
Maximum temperature inside the laundry (T) in the washing phase for all rated capacities.	The determined value shall not be less than the declared values of T by more than 5K and it shall not exceed the declared value of T by more than 5K.
Weighted remaining moisture content after washing (D)	The determined value* shall not exceed the declared value of D by more than 10 %.
Final moisture content after drying at rated capacity and at half rated capacity.	The determined value* shall not exceed 3,0 %.
Spin speed (S) at rated washing capacity, at half rated washing capacity and at quarter rated washing capacity.	The determined value* shall not be less than the declared value of S by more than 10 %.
Power consumption in off mode (P_o)	The determined value* of power consumption P_o shall not exceed the declared value by more than 0,10 W.
Power consumption in standby mode (P_{sm})	The determined value* of power consumption P_{sm} shall not exceed the declared value by more than 10 % if the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
Power consumption in delay start (P_{ds})	The determined value* of power consumption P_{ds} shall not exceed the declared value by more than 10 % if the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
Airborne acoustical noise emissions	The determined value* shall not exceed the declared value by more than 2 dB re 1 pW.

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* In the case of three additional units tested as prescribed in point 4, the determined value means the arithmetical mean of the values determined for these three additional units.’;

(7) in Annex X, point (f) is replaced by the following:

‘(f) the remaining moisture content after washing is calculated as the weighted average, according to each drum’s rated capacity;’

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ANNEX III

Annexes I, III, IV, V, VI and IX to Delegated Regulation (EU) 2019/2015 are amended as follows:

- (1) in Annex I, point (42) is replaced by the following:

‘(42) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) in Annex III, the third paragraph of point 1 is replaced by the following:

‘The label shall be:

 - for the standard-sized label, at least 36 mm wide and 72 mm high;
 - for the small-sized label (width less than 36 mm), at least 20 mm wide and 54 mm high.’;
- (3) Annex IV is amended as follows:
 - (a) in point 1, point (a) is replaced by the following:

‘(a) in radiological and nuclear medicine installations that are subject to radiation safety standards as set out in Council Directive 2013/59/EURATOM⁽¹⁾;

⁽¹⁾ Council Directive 2013/59/Euratom of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation (OJ L 13, 17.1.2014, p. 1).’;
 - (b) in point 3, the following point (1) is added:

‘(1) Incandescent light sources with blade contact-, metal lug-, cable-, litz wire-, metric thread-, pin base- or non-standard customised electrical interface, encasing made from quartz-glass tubes, specifically designed and marketed for industrial or professional electro-heating equipment (e.g. stretch blow-moulding process in PET-Industry, 3D-printing, photovoltaic and electronic manufacturing processes, drying or hardening of adhesives, inks, paints or coatings).’
 - (c) new point 4 is added:

4. Any light source within the scope of this Delegated Regulation shall be exempt from the requirements of this Regulation, with the exception of the requirements set out in Annex VI points (1) to (7a) and (8) to (13), if they are specifically designed to be used in, and exclusively marketed to be a spare part for, electric mains operated containing products (such as household appliances) whose primary function is not lighting, and fulfil all of the following conditions:

 - (a) intended for lighting compartment(s), cavity(ies) or drum(s) or area(s) in the immediate surrounding of the electric mains operated containing product; and
 - (b) be switched off by dedicated user interaction or at the latest automatically at the closing of the door(s) or lid(s) of the compartment(s), cavity(ies) or drum(s) or after the end of an active mode; and
 - (c) be automatically switched off after no more than 15 minutes in case the door(s) or lid(s) of the compartment(s), cavity(ies) or drum(s) remain open or in case of inactivity; and

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(d) when placed on the market as spare parts can be used only in the specific containing product(s), e.g. because of their special connector and/or geometrical shape, and that cannot be used individually by the end-user for other purposes.

For the light sources fulfilling the requirements set out above, the specific intended purpose shall be stated in the technical documentation for compliance assessment as per Annex VI of this Regulation and in all forms of packaging, product information and advertisement, together with a statement that the light source is not intended for use in other applications.

(4) Annex V is amended as follows:

(a) Table 3 is replaced by the following:

Table 3
Product information sheet

Supplier's name or trade mark^{as}:			
Supplier's address^{as}:			
Model identifier^{as}:			
Type of light source:			
Lighting technology used:	[HL/LFL T5 HE/ LFL T5 HO/CFLni/ other FL/ HPS/ MH/ other HID/ LED/ OLED/mixed/oth er]	Non-directional or directional:	[NDLS/DLS]
Light source cap-type (or other electric interface)	[free text]		
Mains or non-mains:	[MLS/NMLS]	Connected light source (CLS):	[yes/no]
Colour-tuneable light source:	[yes/no]	Envelope:	[no/second/non-clear]
High luminance light source:	[yes/no]		
Anti-glare shield:	[yes/no]	Dimmable:	[yes/only with specific dimmers/no]
Product parameters			
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	x	Energy efficiency class	[A/B/C/D/E/F/G] ^b
Useful luminous flux (Φ _{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	x in [sphere/wide cone/narrow cone]	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set	[x/x...x/x or x (or x...)]

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On-mode power (P_{on}), expressed in W		x,x	Standby power (P_{sb}), expressed in W and rounded to the second decimal	x,xx
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal		x,xx	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	[x/x...x]
Outer dimensions without separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)	Height	x	Spectral power distribution in the range 250 nm to 800 nm, at full-load	[graphic]
	Width	x		
	Depth	x		
Claim of equivalent power ^c		[yes/-]	If yes, equivalent power (W)	x
			Chromaticity coordinates (x and y)	0,xxx 0,xxx
Parameters for directional light sources:				
Peak luminous intensity (cd)		x	Beam angle in degrees, or the range of beam angles that can be set	[x/x...x]
Parameters for LED and OLED light sources:				
R9 colour rendering index value		x	Survival factor	x,xx
the lumen maintenance factor		x,xx		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ 1)		x,xx	Colour consistency in McAdam ellipses	x
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.		[yes/-] ^d	If yes then replacement claim (W)	x
Flicker metric (Pst LM)		x,x	Stroboscopic effect metric (SVM)	x,x

^a changes to these items shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369.

^b if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

^c '-': not applicable;

'yes': An equivalence claim involving the power of a replaced light source type may be given only:

- for directional light sources, if the light source type is listed in Table 4 and if the luminous flux of the light source in a 90 ° cone

(Φ_{90°) is not lower than the corresponding reference luminous flux in Table 4. The reference luminous flux shall be multiplied by the correction factor in Table 5. For LED light sources, it shall be in addition multiplied by the correction factor in Table 6;

- for non-directional light sources, the claimed equivalent incandescent light source power (rounded to 1 W) shall be that corresponding in Table 7 to the luminous flux of the light source.

The intermediate values of both the luminous flux and the claimed equivalent light source power (rounded to the nearest 1 W) shall be calculated by linear interpolation between the two adjacent values.

^d '-': not applicable;

'yes': Claim that a LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. This claim may be made only if:

- the luminous intensity in any direction around the tube axis does not deviate by more than 25 % from the average luminous intensity around the tube; and
- the luminous flux of the LED light source is not lower than the luminous flux of the fluorescent light source of the claimed wattage. The luminous flux of the fluorescent light source shall be obtained by multiplying the claimed wattage with the minimum luminous efficacy value corresponding to the fluorescent light source in Table 8; and
- the wattage of the LED light source is not higher than the wattage of the fluorescent light source it is claimed to replace.

The technical documentation file shall provide the data to support such claims.

^e [this item shall not be considered relevant for the purposes of Article 2\(6\) of Regulation \(EU\) 2017/1369](#);

- (b) Table 7 is replaced by the following:

'Table 7

Equivalence claims for non-directional light sources

Light source luminous flux Φ (lm)	Claimed equivalent incandescent light source power (W)
136	15
249	25
470	40
806	60
1 055	75
1 521	100

2 452	150
3 452	200

’;

(5) Annex VI is amended as follows:

(a) in point 1, point (e) is replaced by the following

‘(e) the declared values for the following technical parameters; these values are considered as the declared values for the purpose of the verification procedure in Annex IX:

- (1) useful luminous flux (Φ_{use}) in lm;
- (2) colour rendering index (CRI);
- (3) on-mode power (P_{on}) in W;
- (4) beam angle in degrees for directional light sources (DLS);
- (4a) peak luminous intensity in cd for directional light sources (DLS);
- (5) correlated colour temperature (CCT) in K;
- (6) standby power (P_{sb}) in W, including when it is zero;
- (7) networked standby power (P_{net}) in W for connected light sources (CLS);
- (7a) R9 colour rendering index value for LED and OLED light sources;
- (7b) survival factor for LED and OLED light sources;
- (7c) lumen maintenance factor for LED and OLED light sources;
- (7d) lifetime L70B50 for LED and OLED light sources;
- (8) displacement factor ($\cos \phi_1$) for LED and OLED mains light sources;
- (9) colour consistency in MacAdam ellipse steps for LED and OLED light sources;
- (10) luminance-HLLS in cd/mm^2 (only for HLLS)
- (11) flicker metric (PstLM) for LED and OLED light sources;
- (12) stroboscopic effect metric (SVM) for LED and OLED light sources;
- (13) excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:

Colour	Dominant wave-length range
Blue	440 nm — 490 nm
Green	520 nm — 570 nm
Red	610 nm — 670 nm’;

(b) the following point 2 is added:

‘2. The elements listed under point 1 shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.’;

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(6) Annex IX is amended as follows:

(a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;

(b) the following second paragraph is inserted:

‘Where a model has been designed to be able to detect it is being tested (e.g. by recognising the test conditions or test cycle), and to react specifically by automatically altering its performance during the test with the objective of reaching a more favourable level for any of the parameters specified in this Regulation or included in the technical documentation or included in any of the documentation provided, the model and all equivalent models shall be considered not compliant.’;

(c) the second paragraph of Point 1 is replaced by the following:

‘The Member State authorities shall verify 10 units of the light source model for point 2(c) of this Annex. The verification tolerances are laid down in Table 9 of this Annex.’;

(d) Table 9 is replaced by the following:

‘Table 9
Verification tolerances

Parameter	Sample size	Verification tolerances
Full-load on-mode power P_{on} [W]:		
$P_{on} \leq 2W$	10	The determined value shall not exceed the declared value by more than 0,20 W.
$2W < P_{on} \leq 5W$	10	The determined value shall not exceed the declared value by more than 10 %.
$5W < P_{on} \leq 25W$	10	The determined value shall not exceed the declared value by more than 5 %.
$25W < P_{on} \leq 100W$	10	The determined value shall not exceed the declared value by more than 5 %.
$100W < P_{on}$	10	The determined value shall not exceed the declared value by more than 2.5 %.
Displacement factor $[\theta-I]$	10	The determined value shall not be less than the declared value minus 0,1 units.
Useful luminous flux Φ_{use} [lm]	10	The determined value shall not be less than the declared value minus 10 %.
Standby power P_{sb} and networked standby power P_{net} [W]	10	The determined value shall not exceed the declared value by more than 0,10 W.

CRI and R9 [0-100]	10	The determined value shall not be less than the declared value by more than 2,0 units.
Flicker [<i>Pst LM</i>] and stroboscopic effect [<i>SV/M</i>]	10	The determined value shall not exceed the declared value by more than 0,1.
Colour consistency [<i>MacAdam ellips steps</i>]	10	The determined number of steps shall not exceed the declared number of steps. The centre of the MacAdam ellipse shall be the centre declared by the supplier with a tolerance of 0,005 units.
Beam angle (degrees)	10	The determined value shall not deviate from the declared value by more than 25 %.
Total mains efficacy η_{TM} [lm/W]	10	The determined value (quotient) shall not be less than the declared value minus 5 %.
Lumen maintenance factor (for LED and OLED)	10	The determined X_{LMF} % of the sample shall not be less than $X_{LMF, MIN}$ % according to the text in Annex V of Commission Regulation (EU) 2019/2020 ⁽¹⁾ .
Survival factor (for LED and OLED)	10	At least 9 light sources of the test sample must be operational after completing the endurance test in Annex V of Regulation (EU) 2019/2020.
Excitation purity [%]	10	The determined value shall not be less than the declared value minus 5 %.
Correlated colour temperature [K]	10	The determined value shall not deviate from the declared value by more than 10 %.
Peak luminous intensity [cd]	10	The determined value shall not deviate from the declared value by more than 25 %.
⁽¹⁾ Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 (see page 209 of this Official Journal).		

For light sources with linear geometry which are scalable but of very long length, such as LED strips or strings, verification testing of market surveillance authorities shall consider a length of 50 cm, or, if the light source is not scalable there, the nearest value to 50 cm. The light source supplier shall indicate which control gear is suitable for this length.

When verifying if a product is a light source, market surveillance authorities shall compare the measured values for chromaticity coordinates (x and y), luminous flux, luminous flux density, and colour rendering index directly with the limit values set out in the definition for light source of Article 2 of this Regulation, without applying any tolerances. If any of the 10 units in the sample satisfies the conditions for being a light source, the product model shall be considered to be a light source.

Light sources that allow the end-user to control, manually or automatically, directly or remotely, the luminous intensity, colour, correlated colour temperature, spectrum, and/or beam angle of the emitted light shall be evaluated using the reference

.

ANNEX IV

Annexes I, IV, V, VI and IX to Delegated Regulation (EU) 2019/2016 are amended as follows:

- (1) in Annex I, the following point (42) is added:
‘(42) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) in Annex II, Table 1 is replaced by the following:

‘Table 1

Energy efficiency classes of refrigerating appliances

Energy efficiency class	Energy efficiency index (EEI)
A	$EEI \leq 41$
B	$41 < EEI \leq 51$
C	$51 < EEI \leq 64$
D	$64 < EEI \leq 80$
E	$80 < EEI \leq 100$
F	$100 < EEI \leq 125$
G	$EEI > 125$

’;

- (3) in Annex IV, point 1 is amended as follows:
- (a) Paragraph (h) and (i) are replaced by the following:
- ‘(h) the freezing capacity of a compartment is calculated as 24 times the light load weight of that compartment, divided by the freezing time to bring the temperature of the light load from +25 to - 18 °C at an ambient temperature of 25 °C expressed in kg/24h and rounded to one decimal place;
- (i) for 4-star compartments, the freezing time to bring the temperature of the light load from +25 to - 18 °C at an ambient temperature of 25 °C shall be such that the resulting freezing capacity complies with the requirement in Annex I, point 4;’;
- (b) The following point (k) is added:
- ‘(k) the light load weight for each 4-star compartment shall be:
- 3,5 kg/100 l of the volume of the 4-star compartment evaluated, rounded up to the nearest 0,5 kg; and,
 - 2 kg for a 4-star compartment with a volume for which 3,5 kg/100 l leads to a value lower than 2 kg;
- in the case that the refrigerating appliance includes a combination of 3- and 4-star compartments, the sum of the light load weight(s) shall be increased so that the sum of the light load weights for all the 4-star compartments shall be:
- 3,5 kg/100 l of the total volume of all 4- and 3-star compartments, rounded up to the nearest 0,5 kg; and,

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- 2 kg for a total volume of all 4- and 3-star compartments for which 3,5 kg/100 l leads to a value lower than 2 kg.’;

(c) Table 4 is replaced as follows:

‘Table 4

The values of the modelling parameters per compartment type

Compartment type	r_c^a	N_c	M_c	C
Pantry	0,35	75	0,12	between 1,15 and 1,56 for combi appliances with 3-or 4-star compartments ^b , 1,15 for other combi appliances, 1,00 for other refrigerating appliances
Wine storage	0,60			
Cellar	0,60			
Fresh food	1,00			
Chill	1,10	138	0,12	
0-star & ice-making	1,20	138	0,15	
1-star	1,50			
2-star	1,80			
3-star	2,10			
Freezer (4-star)	2,10			

^a $r_c = (T_a - T_c)/20$; with $T_a = 24$ °C and T_c with values as set out in Table 3.

^b C for combi appliances with 3- or 4-star compartments is rounded to two decimal places and determined as follows:

where $frzf$ is the 3- or 4-star compartment volume V_{fr} as a fraction of V with $frzf = V_{fr}/V$:

- if $frzf \leq 0,3$ then $C = 1,3 + 0,87 \times frzf$;
- else if $0,3 < frzf < 0,7$ then $C = 1,87 - 1,0275 \times frzf$;
- else $C = 1,15$.

’;

(4) in Annex V, Table 6 is replaced by the following:

‘Table 6

Product information sheet

Supplier's name or trade mark ^{b,d} :			
Supplier's address ^{b,d} :			
Model identifier ^{b,d} :			
Type of refrigerating appliance:			
Low-noise appliance:	[yes/no]	Design type:	[built-in/freestanding]
Wine storage appliance:	[yes/no]	Other refrigerating appliance:	[yes/no]
General product parameters:			
Parameter	Value	Parameter	Value
Overall dimensions (millimetre) ^{b,d}	Height	Total volume (dm ³ or l)	x
	Width		
	Depth		

Commented [A14]: Manufacturers have already completed a set of data for products to be placed on the market as of the 1st of November 2020 based on a combi factor calculation as provided in the regulation. With a change in rounding the Standard Energy Efficiency and hereby the Energy Efficiency Index is affected in nearly all combi products, all these products need to be checked and, in most cases, revised. The absence of rounding in the calculation process does not pose a difficulty. For representation in the technical documentation rounding is required for the combi-factor, which may have given rise to the confusion.

We strongly recommend to not introduce this rounding rule at this point in time and instead keep using the not rounded intermediate result.

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EEI	x	Energy efficiency class	[A/B/C/D/E/F/G] ^e
Airborne acoustical noise emissions (dB(A) re 1 pW)	x	Airborne acoustical noise emission class	[A/B/C/D] ^e
Annual energy consumption (kWh/a)	x	Climate class:	[extended temperate/temperate/ subtropical/tropical]
Minimum ambient temperature (°C), for which the refrigerating appliance is suitable	x ^c	Maximum ambient temperature (°C), for which the refrigerating appliance is suitable	x ^c
Winter setting	[yes/no]		

Compartment Parameters:

Compartment type		Compartment parameters and values			
		Compartment Volume (dm ³ or l)	Recommended temperature setting for optimised food storage (°C) These settings shall not contradict the storage conditions set out in Annex IV, Table 3	Freezing capacity (kg/24 h)	Defrosting type (auto-defrost=A, manual defrost=M)
Pantry	[yes/no]	x,x	x	-	[A/M]
Wine storage	[yes/no]	x,x	x	-	[A/M]
Cellar	[yes/no]	x,x	x	-	[A/M]
Fresh food	[yes/no]	x,x	x	-	[A/M]
Chill	[yes/no]	x,x	x	-	[A/M]
0-star or ice-making	[yes/no]	x,x	x	-	[A/M]
1-star	[yes/no]	x,x	x	-	[A/M]
2-star	[yes/no]	x,x	x	-	[A/M]
3-star	[yes/no]	x,x	x	-	[A/M]
4-star	[yes/no]	x,x	x	x,x	[A/M]
2-star section	[yes/no]	x,x	x	-	[A/M]
Variable temperature compartment	compartment types	x,x	x	x,x (for 4-star compartments) or -	[A/M]

For 4-star compartments

Fast freeze facility	[yes/no]
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For wine storage appliances	
Number of standard wine bottles	x
Light source parameters^{a,b,d}:	
Type of light source	[Lighting technology]
Energy efficiency class	[A/B/C/D/E/F/G]
Minimum duration of the guarantee offered by the manufacturer^{b,d}:	
Additional information^d:	
Weblink to the supplier's website, where the information in point 4 of Annex II of Commission Regulation (EU) 2019/2019 ¹ , ^{b,d} is found:	

^a as determined in accordance with Commission Delegated Regulation (EU) 2019/2015².

^b changes to these items shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369.

^c if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

^d ~~this~~ item shall not be considered relevant for the purpose of Article 2(6) of Regulation (EU) 2017/1369. ';

(5) in Annex VI, point 1 is replaced by the following:

'1. The technical documentation referred to in point 1(d) of Article 3 shall include the following elements:

- (a) a general description of the model allowing it to be unequivocally and easily identified;
- (b) references to the harmonised standards applied or other measurement standards used;
- (c) specific precautions to be taken when the model is assembled, installed, maintained or tested;
- (d) the values for the technical parameters set out in Table 7; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;
- (e) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 7;
- (f) testing conditions if not described sufficiently in point (b);
- (g) ~~a reference to the~~ equivalent models, including model identifiers;
- (h)

These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.';

(6) In Annex VI, table 7 is replaced with the following table

¹ Commission Regulation (EU) 2019/2019 of 1 October 2019 laying down ecodesign requirements for refrigerating appliances pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulation (EC) No 643/2009 (see page 187 of this Official Journal).

² Commission Delegated Regulation (EU) 2019/2015 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources and repealing Commission Delegated Regulation (EU) No 874/2012 (see page 68 of this Official Journal).

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Commented [A16]: We recommend erasing point 1(h) and add to the technical documentation table the missing parameters useful for verification procedure contained in the Product Information Sheet.

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Table 7: Additional information to be included in the technical documentation

A general description of the refrigerating model, sufficient for it to be unequivocally and easily identified:

Product specifications:

General product specifications:

Parameter	Value	Parameter	Value
Annual energy consumption (kWh/a) ^{2(a)}	x	Auxiliary energy (kWh/a)	x
Standard annual energy consumption (kWh/a) ^{2(b)}	x,xx	EEI (%) ^{2(c)}	x
Temperature rise time (h)	x,xx	Combi parameter ^{2(d)}	x,xx
Door heat loss factor	x,xxx	Load factor	x,x
Anti-condensation heater type	[manual on-off/ambient/other/none]	Climate class	[extended temperate/temperate/subtropical/tropical]
Airborne acoustical noise emissions (dB(A) re 1 pW)	x		

Additional product specifications for refrigerating appliances, except for low noise refrigerating appliances:

Parameter	Value	Parameter	Value
Daily energy consumption at 16 °C (kWh/24h) ¹	x,xxx	Daily energy consumption at 32 °C (kWh/24h)	x,xxx
Incremental defrost and recovery energy consumption* at 16 °C (Wh)		Incremental defrost and recovery energy consumption* at 32 °C (Wh)	
Defrost interval* at 16 °C (h)		Defrost interval* at 32 °C (h)	

Additional product specifications for low noise refrigerating appliances:

Parameter	Value	Parameter	Value
Daily energy consumption at 25 °C (kWh/24h)	x,xxx	Defrost interval* at 25 °C (h)	x,x

Commented [A17]: APPLIA: We recommend removing Incremental defrost and recovery and defrost interval are removed (both at 16 and 32 °C) for the following reason:

The daily energy is calculated on the basis of the steady state energy and, for each defrost system, the incremental defrost energy and the defrost interval". As several of these elements are not included in the table, no calculation can be checked. Further, as these parameters are not included in the verification table, these parameters serve no further purpose and removal from Table 7 is recommended. COPY/PASTE FROM PP

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For wine storage appliances

Number of standard wine bottles	x	Internal humidity (%)	[range]
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Compartment specifications:

Compartment parameters and values								
Compartment type	Target temperature (°C)	Compartment volume (dm³ or l)	Freezing capacity (kg/24 h)	Thermodynamic parameter (r_c)	N_c	M_c	Defrost factor (A_c)	Built-in factor (B_c)
Pantry	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
Wine storage	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
Cellar	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
Fresh food	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
Chill	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
0-star or ice making	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
1-star	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
2-star	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
3-star	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
4-star	x	x,x	x,x	x,xx	x	x,xx	x,xx	x,xx
2-star section	x	x,x	=	x,xx	x	x,xx	x,xx	x,xx
Variable temperature compartment	x	x,x	x,x (for 4-star compartments) or -	x,xx	x	x,xx	x,xx	x,xx
Total volume (dm³ or l)		x						

¹ the value of this parameter is not subject to verification according to ANNEX IX 2(c)

^{2(a)} The value of this parameter is verified according to ANNEX IX 2(c) by comparing it to the determined value, and by verifying the correctness of the calculation according to Annex IV carried out with the declared values.

^{2(b)} The value of this parameter is verified by verification of V and V_c according to ANNEX IX 2(c) and by verifying the correctness of the calculation according to Annex IV with the declared values.

^{2(c)} This value of this parameter is verified by verification of AE and SAE, and by verification of the correctness of the calculation according to ANNEX IV 5.

^{2(d)} The value of this parameter is verified by verification of V and V_c according to ANNEX IX 2(c) and by verifying the correctness of the calculation according to Annex IV table 4 with the declared values.

^{2(f)} The value of this parameter is verified by verification of V_c according to ANNEX IX 2(c) and by verifying the correctness of the calculation according to Annex IV.4a with the declared values.

(7) Annex IX is amended as follows:

(a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;

(b) point (7) is replaced as follows:

‘(7) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision is taken on the non-compliance of the model according to points 3, 6 or the second paragraph of this Annex.’;

(c) Table 8 is replaced by the following:

‘Table 8
Verification tolerances for measured parameters

Parameters	Verification tolerances
Total volume and compartment volume	The determined value ^a shall not be more than 3 % or 1 litre lower — whichever is the greater value — than the declared value.
Freezing capacity	The determined value ^a shall not be more than 10 % lower than the declared value.
<i>E</i> ₃₂	The determined value ^a shall not be more than 10 % higher than the declared value.
Annual energy consumption	The determined value ^a shall not be more than 10 % higher than the declared value.
Internal humidity of wine storage appliances (%)	The determined value ^a shall not differ from the declared range by more than 10 %.
Airborne acoustical noise emissions	The determined value ^a shall not be more than 2 dB(A) re 1 pW more than the declared value.

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Temperature rise time	The determined value ^a shall not be more than 15 % lower
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(a) ~~in the case of three additional units tested as prescribed in point 4, the determined value means the arithmetic mean of the values determined for these three additional units~~

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ANNEX V

Annexes I, II, IV, V, VI and IX to Delegated Regulation (EU) 2019/2017 are amended as follows:

- (1) in Annex I, the following point (24) is added:
- ‘(24) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (7) in Annex II, the title of Table 1 is replaced by the following: ‘Energy efficiency classes of household dishwashers’;
- (8) in Annex IV, points 2, 3 and 4 are replaced by the following:

‘2. CLEANING PERFORMANCE INDEX

For the calculation of the cleaning performance index (I_C) of a household dishwasher model, the cleaning performance of the eco programme is compared to the cleaning performance of a reference dishwasher.

The I_C is calculated as follows and rounded to three decimal places:

$$I_C = \exp(\ln I_C)$$

and

$$\ln I_C = (1/n) \cdot \sum_{i=1}^n \ln(C_{T,i}/C_{R,i})$$

where:

$C_{T,i}$ is the cleaning performance of the eco programme of the household dishwasher under test for one test run (i), rounded to three decimal places;

$C_{R,i}$ is the cleaning performance of the reference dishwasher for one test run (i), rounded to three decimal places;

n is the number of test runs.

3. DRYING PERFORMANCE INDEX

For the calculation of the drying performance index (I_D) of a household dishwasher model, the drying performance of the eco programme is compared to the drying performance of the reference dishwasher.

The I_D is calculated as follows and rounded to three decimal places:

$$I_D = \exp(\ln I_D)$$

and

$$\ln I_D = (1/n) \cdot \sum_{i=1}^n \ln(I_{D,i})$$

where:

$I_{D,i}$ is the drying performance index of the eco programme of the household dishwasher under test for one test run (i);

n is the number of combined cleaning and drying test runs.

The $I_{D,i}$ is calculated as follows and rounded to three decimal places:

$$\ln I_{D,i} = \ln(D_{T,i} / D_{R,i})$$

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where:

$D_{T,i}$ is the average drying performance score of the eco programme of the household dishwasher under test for one test run (i), rounded to three decimal places;

$D_{R,i}$ is the target drying score of the reference dishwasher, rounded to three decimal places.

4. LOW POWER MODES

Where applicable, the power consumption of the off mode (Po), standby mode (Psm) and delay start (Pds) are measured. The measured values are expressed in W and rounded to two decimal places.

During measurements of the power consumption in low power modes, the following shall be checked and recorded:

- the display or not of information;
- the activation or not of a network connection.’;

(9) in Annex V, Table 3 is replaced by the following:

‘Table 3

Content, order and format of the product information sheet

Supplier's name or trade mark ^{a,f} :				
Supplier's address ^{a,c} :				
Model identifier ^{a,g} :				
General product parameters:				
Parameter	Value	Parameter	Value	
Rated capacity ^b (ps)	x	Dimensions in cm ^h	Height	x
			Width	x
			Depth	x
EEI ^b	x,x	Energy efficiency class ^b	[A/B/C/D/E/F/G] ^d	
Cleaning performance index ^b	x,xxx	Drying performance index ^b	x,xxx	
Energy consumption in kWh [per cycle], based on the eco programme using cold water fill. Actual energy consumption will depend on how the appliance is used.	x,xxx	Water consumption in litres [per cycle], based on the eco programme. Actual water consumption will depend on how the appliance is used and on the hardness of the water.	x,x	
Programme duration ^b (h:min)	x:xx	Type	[built-in/free-standing]	

Airborne acoustical noise emissions ^a (dB(A) re 1 pW)	x	Airborne acoustical noise emission class ^b	[A/B/C/D] ^d
Off-mode (W) (if applicable)	x,xx	Standby mode (W) (if applicable)	x,xx
Delay start (W) (if applicable)	x,xx	Networked standby (W) (if applicable)	x,xx

Minimum duration of the guarantee offered by the supplier^{a,c}:

Additional information^a:

Weblink to the supplier's website, where the information in point 6 of Annex II to Commission Regulation (EU) 2019/2022 is found^{a,c}:

^a This item shall not be considered relevant for the purposes of Article 2(6) of Regulation (EU) 2017/1369

^b for the eco programme.

^c changes to these items shall not be considered relevant for the purposes of paragraph 4 of Article 4 of Regulation (EU) 2017/1369.

^d if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

;

(2) in Annex VI, point 1 is replaced by the following:

‘1. The technical documentation referred to in point 1(d) of Article 3 shall include the following elements:

- (a) a general description of the model allowing it to be unequivocally and easily identified;
- (b) references to the harmonised standards applied or other measurement standards used;
- (c) specific precautions to be taken when the model is assembled, installed, maintained or tested;
- (d) the values for the technical parameters set out in Table 4; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;
- (e) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 4;
- (f) testing conditions if not described sufficiently in point (b);
- (g) [a reference to the](#) equivalent models, including model identifiers;
- (h) ↓

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Deleted: the declared values of the parameters listed under Annex V if not covered by Table 4.

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These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.

Table 4
Technical parameters of the model and their declared values for household dishwashers

PARAMETER	DECLARED VALUE	UNIT
<u>Rated capacity</u>	<u>X</u>	<u>ps</u>
Eco programme energy consumption (EPEC) rounded to three decimal places	X,XXX	kWh/cycle
Standard programme energy consumption (SPEC) rounded to three decimal places	X,XXX	kWh/cycle
Energy Efficiency Index (EEI)	X,X	-
Eco programme water consumption (EPWC) rounded to one decimal place	X,X	l/cycle
Cleaning performance index (I _c)	X,XXX	-
Drying performance index (I _d)	X,XXX	-
Duration of the eco programme (T _i) rounded to the nearest minute	X:XX	h:min
Power consumption in off-mode (P _o) rounded to two decimal places (if applicable)	X,XX	W
Power consumption in standby mode (P _{sm}) rounded to two decimal places (if applicable)	X,XX	W
Does standby mode include the display of information?	Yes/No	-
Power consumption in standby mode (P _{sm}) in condition of networked standby (if applicable), rounded to two decimal places	X,XX	W
Power consumption in delay start (P _{ds}) (if applicable) rounded to two decimal places	X,XX	W
Airborne acoustical noise emissions	X	dB(A) re 1 pW

Commented [A21]: If point 1(h) is erased, the place setting must be added to the technical documentation

(3) Annex IX is amended as follows:

(a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product

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information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;

- (b) point (7) is replaced as follows:

’(7)The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision is taken on the non-compliance of the model according to points 3, 6 or the second paragraph of this Annex.’.

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ANNEX VI

Annexes I, III, IV, V, VI and IX to Delegated Regulation (EU) 2019/2018 are amended as follows:

- (1) in Annex I, the following point (28) is added:

‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) in Annex III, Point 1.2, paragraph VIII, the first indent under the first item is replaced by the following:

‘- the temperature at the top: the maximum measured product temperature of the compartment(s) with chilled operating temperatures, in degrees Celsius (°C) and rounded to the first decimal place, as set out in Table 4;’;
- (3) in Annex IV, Table 4, the following is added:

Cate	Tem	Hig	Low	Hig	V

Vert	M0	$\leq +$	\geq	n.a.	1
Hori	M0	$\leq +$	\geq	n.a.	1

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- ’.
- (4) in Table 10 of Annex V, the cells on ‘light source parameters’ are be replaced by:
- ‘

Light source parameters^{a,b}:	
Type of light source	[Lighting technology]
Energy efficiency class	[A/B/C/D/E/F/G]

- ’.
- (5) in Annex VI, point 1 is replaced by the following
- ‘1. The technical documentation referred to in point 1(d) of Article 3 shall include the following elements:
- (a) a general description of the model allowing it to be unequivocally and easily identified, including a list of all equivalent models, including model identifiers;
 - (b) references to the harmonised standards applied or other measurement standards used;
 - (c) specific precautions to be taken when the model is assembled, installed, maintained or tested;
 - (d) the values for the technical parameters set out in Table 11; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;
 - (e) the details and the results of calculations performed in accordance with Annex IV, if not covered sufficiently in Table 11;
 - (f) testing conditions if not described sufficiently in point (b);
 - (g) a list of all equivalent models, including model identifiers;
 - (h) the declared values of the parameters listed under annex V if not covered by Table 11.

These elements shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to article 12(5) of Regulation (EU) 2017/1369.’;

- (6) Annex IX is amended as follows:
- (a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;
 - (b) point (7) is replaced by the following:

‘(7)The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay

after a decision being taken on the non-compliance of the model according to points 3, 6 or the second paragraph of this Annex. '.

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