COMMISSION DELEGATED REGULATION (EU) 2021/340

of 17 December 2020

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) 2019/2018 with regard to energy labelling requirements for electronic displays, household washing machines and household washer-dryers, light sources, refrigerating appliances, household dishwashers, 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/EU ([1]), 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 and household washer-dryers, light sources, refrigerating appliances, household dishwashers and refrigerating appliances with a direct sales function were established by Commission Delegated Regulations (EU) 2019/2013 ([2]), (EU) 2019/2014 ([3]), (EU) 2019/2015 ([4]), (EU) 2019/2016 ([5]), (EU) 2019/2017 ([6]) and (EU) 2019/2018 ([7]) (thereafter 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.

([1]) OJ L 198, 28.7.2017, p. 1.

([2]) 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).

([3]) 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).

([4]) 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).

([5]) 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).

([6]) 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).

([7]) 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).

(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 Council ([8]).

(6) Products containing light sources from which these light sources cannot be removed for verification without damaging one or more of them, should be tested as light sources for compliance assessment and verification.

(7) 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 Automatic 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.

(8) Vertical static-air cabinets with non-transparent doors are professional refrigerating appliances and are defined in Commission Delegated Regulation (EU) 2015/1094 ([9]), and therefore should be excluded from Delegated Regulation (EU) 2019/2018.

(9) The terminology and testing methods of use in Regulation (EU) 2019/2018 are consistent with the terminology and testing methods adopted in EN 16901, EN 16902, EN 50597 and EN ISO 23953-2 and EN 16838.

(10) 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.

(11) 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) 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;';

([8]) 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).

([9]) Commission Delegated Regulation (EU) 2015/1094 of 5 May 2015 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of professional refrigerated storage cabinets (OJ L 177, 8.7.2015, p. 2).

(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 (*);

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(*) Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment (OJ L 339, 18.12.2008, p. 45).';

(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, II, III, IV, V, VI and IX are amended as set out in Annex I to this Regulation.

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);';

(2) Article 3 is amended as follows:

(a) in paragraph 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;';

(b) in paragraph 1, point (i) is replaced by the following:

'(i) by way of derogation from Article 11(13)(b) of Regulation (EU) 2017/1369, upon request by dealers and in accordance with Article 4(e), printed labels to rescale products are provided as a sticker, of the same size as the one which already exists.';

(c) the following paragraph 1a is inserted:

'1a. By way of derogation from Article 11(13)(a) of Regulation (EU) 2017/1369, the supplier shall, when placing a light source on the market, provide it with the existing label until 31 August 2021 and with the rescaled label from 1 September 2021. The supplier may choose to already provide light sources placed on the market during the period from 1 July to 31 August 2021 with the rescaled label, if no light sources belonging to the same model or equivalent models were placed on the market before 1 July 2021. In that case, the dealer shall not offer those light sources for sale before 1 September 2021. The supplier shall notify the dealer concerned of that consequence as soon as possible, including when it includes such light sources in its offers to dealers.';

(3) in Article 4, point (e) is replaced by the following:

'(e) by way of derogation from Article 11(13) of Regulation (EU) 2017/1369, existing labels on light sources at points of sale are replaced by the rescaled labels in such a way as to cover the existing label, including when printed on or attached to the package, within eighteen months after the date of application of this Regulation, and rescaled labels are not displayed before that date.';

(4) the last paragraph of Article 10 is amended as follows:

'It shall apply from 1 September 2021. However, point 1(b) of Article 3 shall apply from 1 May 2021, and point 2(a) of Article 3 shall apply from 1 March 2022.';

(5) 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 (< 120 V 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) in Article 11, the last paragraph is replaced by the following:

'It shall apply from 1 March 2021. However, Article 10 shall apply from 25 December 2019, point 1(a), (b) and (c) of Article 3 shall apply from 1 November 2020, and the obligation to provide the energy efficiency class for the light source parameters referred to in Annex V, Table 6 shall apply from 1 March 2022.';

(4) Annexes I, II, 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) Article 2 is amended as follows:

(a) point (15) is replaced by the following:

'(15) "corner/curved cabinet" 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 cabinet 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/curved cabinet are inclined at an angle of between 30° and 90°;';

(b) point (25) is added:

'(25) "carousel cabinet" means a round/circular shape supermarket cabinet which can be installed as a standalone unit or as a unit connecting two linear supermarket cabinets. Carousel cabinets can also be equipped with a turning system which makes visible the display of foodstuff at 360°.';

(c) point (26) is added:

'(26) "supermarket cabinet" means a refrigerating appliance with a direct sales function intended for the sale and display of foodstuffs and other items in retail applications, such as in supermarkets. Beverage coolers, refrigerated vending machines, gelato-scooping cabinets and ice-cream freezers are not considered supermarket cabinets.';

(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) in Article 9, the last paragraph is replaced by the following:

'It shall apply from 1 March 2021, with the exception of the obligation to provide the energy efficiency class for the light source parameters referred to in in Annex V, Table 10, part 5, which shall apply from 1 March 2022.';

(5) Annexes I, III, IV, V, VI and IX are amended as set out in Annex VI to this Regulation.

Article 7

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(4), Article 2(2), Article 4(4), Article 5(2) and Article 6(5) shall apply from 1 May 2021. Article 3(2)(a) shall apply from 1 May 2021. Article 3(2)(c) shall apply from 1 July 2021. Article 3(1), 3(2)(b), 3(3), and 3(5) shall apply from 1 September 2021.

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

Done at Brussels, 17 December 2020.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

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

(1) in Annex I, the following points (29) and (30) are added:

'(29) *"declared values"* means the values provided by the supplier for the stated, calculated or measured technical parameters, pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Article 3(1)(d) and Annex VI of this Regulation, for the verification of compliance by the Member State authorities;

(30) *"guarantee"* means any undertaking by the retailer or supplier to the consumer to:

(a) reimburse the price paid; or

(b) replace, repair or handle the electronic displays in any way if they do not meet the specifications set out in the guarantee statement or in the relevant advertising.';

(2) at the end of point B of Annex II the following paragraph is added:

'The declared values of the on mode power ($P_{measured}$) and viewing surface area (A) as listed in Table 5 of Annex VI shall be used for the EEI calculation.';

(3) 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.';

(4) 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 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, High Dynamic Range, screen luminance for Automatic Brightness Control, Peak White luminance ratio and other luminance measurements shall be made as detailed in Annex III, Table 3a of Commission Regulation (EU) 2019/2021';

(5) in Annex V Table 4 is replaced as follows:

	'**Parameter**	**Parameter value and precision**	**Unit**	**Notes**
1.	Supplier's name or trade mark ([2]) ([3]).		TEXT	
	Supplier's address ([2]) ([3]) ([4]).			Information as from the supplier registration in the product database.
2.	Model identifier ([2])		TEXT	
3.	Energy efficiency class for standard Dynamic Range (SDR)	[A/B/C/D/E/F/G]		
4.	On mode power demand in Standard Dynamic Range (SDR)	X,X	W	Rounded to the first decimal place for power values below 100 W and rounded to the first integer for power values equal or above 100 W.

5.	Energy efficiency class (HDR)	[A/B/C/D/E/F/G] or n.a.				If the product database automatically generates the definitive content of this cell, the supplier shall not enter this data. Value set to "n.a." (not applicable) if HDR not implemented.
6.	On mode power demand in High Dynamic Range (HDR), if implemented			X,X	W	Rounded to the first decimal place for power values below 100 W, and rounded to the integer for power values from 100 W (value set to 0 (zero) if "not applicable").
7.	Off mode, power demand, if applicable			X,X	W	
8.	Standby mode power demand, if applicable			X,X	W	
9.	Networked standby mode power demand, if applicable			X,X	W	
10.	Electronic display category	[television/monitor/signage/other]				Select one.
11.	Size ratio	X	:	Y	integer	E.g. 16:9, 21:9, etc.
12.	Screen resolution	X	×	Y	pixels	Horizontal and vertical pixels
13.	Screen diagonal			X,X	cm	Rounded to one decimal place.
14.	Screen diagonal			X	inches	Optional, in inches rounded to the nearest integer.
15.	Visible screen area			X,X	dm^2	Rounded to one decimal place
16.	Panel technology used	TEXT				E.g. LCD/LED LCD/QLED LCD/OLED/MicroLED/QDLED/SED/FED/EPD, etc.
17.	Automatic Brightness Control (ABC) available	[YES/NO]				Must be activated as default (if YES).
18.	Voice recognition sensor available	[YES/NO]				
19.	Room presence sensor available	[YES/NO]				Must be activated as default (if YES).
20.	Image refresh frequency rate (default)			X	Hz	

21.	Minimum guaranteed availability of software and firmware updates (from the date of end of the placement on the market ([2]) ([3])		X	Years	As set out in Annex II E, point 1 of Commission Regulation (EU) 2019/2021 ([1])
22.	Minimum guaranteed availability of spare parts (from the date of end of the placement on the market) ([2]) ([3])		X	Years	As set out in Annex II E, point 1 of Commission Regulation (EU) 2019/2021
23.	Minimum guaranteed product support ([2]) ([3])		X	Years	As set out in Annex II E, point 1 of Commission Regulation (EU) 2019/2021
	Minimum duration of the general guarantee offered by the supplier ([2]) ([3])		X	Years	
24.	Power supply type		Internal/External/Standardised external		Select one.
25.	External power supply (non-standardised and included in the product box)				
	i			TEXT	Description
	ii	Input voltage	X	V	
	iii	Output voltage	X,X	V	
26.	External standardised power supply (or suitable one if not included in the product box)				
	i	Supported standard name or list		TEXT	
	ii	Required output voltage	X,X	V	
	iii	Required delivered current (minimum)	X,X	A	
	iv	Required current frequency	XX	Hz	

([1]) Commission Regulation (EU) 2019/2021 of 1 October 2019 laying down ecodesign requirements for electronic displays pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EC) No 642/2009 (See page 241 of this Official Journal).
([2]) This item shall not be considered relevant for the purposes of Article 2(6) of Regulation (EU) 2017/1369.
([3]) Changes to this item shall not be considered relevant for the purposes of paragraph 4 of Article 4 of Regulation (EU) 2017/1369.
([4]) The supplier shall not enter these data for each model if automatically provided by the database.'

(6) 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;

(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;

(6) testing conditions if not described sufficiently in point (2);

(7) equivalent models, if any, 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 of Regulation (EU) 2017/1369.';

(b) Table 5 is replaced by the following:

'Table 5

Technical parameters of the model and declared values

	Parameter	Parameter value and precision			Unit	Declared value
	General					
1	Supplier's name or trade mark	TEXT				
2	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	
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 (normal configuration)	XXX	Hz	
21	Minimum guaranteed availability of software and firmware updates (from the date of end of the placement on the market (as set out in 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 E, 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, as set out Annex II E, point 1 of Commission Regulation (EU) 2019/2021):	XX	Years	
	Minimum duration of the general guarantee offered by the supplier	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 as 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 Auto Power Down (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	

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/m^2	
35	Screen luminance at 60 lux ambient light at the ABC sensor (*)	XXX	cd/m^2	
36	Screen luminance at 35 lux ambient light at the ABC sensor (*)	XXX	cd/m^2	
37	Screen luminance at 12 lux ambient light at the ABC sensor (*)	XXX	cd/m^2	

For Power Supply

38	Power supply type	Internal/External		
39	Standard references (if relevant)		TEXT	
40	Input voltage	XXX,X	V	

41	Output voltage	XXX,X	V	
42	Input current (max)	XXX,X	A	
43	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);

(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 supplier 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) in the third paragraph, the words 'When verifying' are replaced by 'As part of verifying';

(c) 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.';

(d) 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.
Visible screen diagonal in centimetres	The determined value (*) shall not be different from the declared value by more than 1 cm.
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 8 %.
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	The determined value (*) shall not exceed the declared value by more than 5 seconds.

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 5 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 5 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 5 seconds.

(*) In the case that the determined value for a single unit does not comply, the model and all equivalent models shall be considered not to comply with this Regulation.

(**) 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, pursuant to Article 3(3) of Regulation (EU) 2017/1369, and in accordance with Article 3(1)(d) and Annex VI of this Regulation, for the verification of compliance by the Member State authorities.';

(2) Annex IV is amended as follows:

(a) the following is added after the first paragraph:

'Where a parameter is declared pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Annex VI Table 7 for household washing machines or Annex VI Table 8 for household washer-dryers, its declared value shall be used by the supplier for the calculations in this Annex.';

(b) 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.';

(c) 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.

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.';

(d) in point 6, the first paragraph of point 2 is replaced by the following:

'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.';

(e) 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:

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

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).';

(f) point 9 is replaced by the following:

'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, 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 the power consumption.';

(g) 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]:

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 at a combination of full and partial loads. 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 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
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	**[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 ([1]) is found:

([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]) changes to this item 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.

([1]) Commission Regulation (EU) 2019/2023 of 1 October 2019 laying down ecodesign requirements for household washing machines and household washer-dryers pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EU) No 1015/2010 (see page 285 of this Official Journal).';

(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]):

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] ([c])
	EEI_{WD} ([c])	x,x		EEI_{WD} ([c])	[A/B/C/D/E/F/G] ([c])

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 of the household washer-dryer, using the eco 40-60 programme	Rated washing capacity	x	Maximum temperature inside the treated textile (°C) for the washing cycle of the household washer-dryer, using the wash and dry cycle	Rated capacity	x
	Half	x			
	Quarter	x		Half	x
Spin speed (rpm) [b]	Rated washing capacity	x	Weighted remaining moisture content (%) [b]	x,x	
	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] [e]	
	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] [e]
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	**[YES/NO]**

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] 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 this item shall not be considered relevant for the purposes of paragraph 4 of Article 4 of Regulation (EU) 2017/1369.
[e] 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;

(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;

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

(g) equivalent models, if any, 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 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 ($E_{W,½}$)	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)	X,XXX	kWh/cycle
Standard energy consumption of the eco 40-60 programme (SCE_W)	X,XXX	kWh/cycle
Energy Efficiency Index (EEI_W)	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 ($W_{W,½}$)	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)	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

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)	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'

(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;

(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;

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

(g) equivalent models, if any, 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 ($E_{W,½}$)	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)	X,XXX	kWh/cycle
Standard energy consumption of the eco 40-60 programme (SCE_W)	X,XXX	kWh/cycle
Energy Efficiency Index of the washing cycle (EEI_W)	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 ($E_{WD,½}$)	X,XXX	kWh/cycle
Weighted energy consumption of the wash and dry cycle (E_{WD})	X,XXX	kWh/cycle
Standard energy consumption of the wash and dry cycle (SCE_{WD})	X,XXX	kWh/cycle
Energy Efficiency Index of the wash and dry cycle (EEI_{WD})	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 ($W_{W,½}$)	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)	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 ($W_{WD,½}$)	X,X	L/cycle
Weighted water consumption of the wash and dry cycle (W_{WD})	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	-
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)	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'

(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 supplier 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) in the third paragraph, the words 'When verifying' are replaced by 'As part of verifying';

(c) 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.';

(d) Table 9 is replaced by the following:

'Table 9

Verification tolerances

Parameter	Verification tolerances
$E_{W,full}$, $E_{W,½}$, $E_{W,1/4}$, $E_{WD,full}$, $E_{WD,½}$	The determined value (*) shall not exceed the declared value of $E_{W,full}$, $E_{W,½}$, $E_{W,1/4}$, $E_{WD,full}$ and $E_{WD,½}$, 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 and E_{WD} respectively, by more than 10 %.
$W_{W,full}$, $W_{W,½}$ $W_{W,1/4,}$ $W_{WD,full}$, $W_{WD,½}$	The determined value (*) shall not exceed the declared value of $W_{W,full}$, $W_{W,½}$ $W_{W,1/4,}$ $W_{WD,full}$ and $W_{WD,½}$, 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 and W_{WD} respectively, by more than 10 %.
Washing efficiency index (I_W and J_W) at all relevant loads	The determined value (*) shall not be less than the declared value of I_W and J_w respectively, by more than 8 %.
Rinsing effectiveness (I_R and J_R) at all relevant loads	The determined value (*) shall not exceed the declared value of I_R and J_R respectively, by more than 1,0 g/kg.
Programme or cycle duration (t_W and t_{WD}) at all relevant loads	The determined value (*) of the programme or cycle duration shall not exceed the declared value of t_W and t_{WD} respectively by more than 5 % or by more than 10 minutes, whichever is smaller.
Maximum temperature inside the laundry (T) during the washing cycle at all relevant loads	The determined value (*) shall not be less than the declared value 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 all relevant loads	The determined value (*) shall not exceed 3,0 %.
Spin speed (S) at all relevant loads	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(A) re 1 pW.

(*) 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;'.

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, pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Article 3(1)(d) and Annex VI of this Regulation, for the verification of compliance by the Member State authorities.';

(2) Annex III is modified as follows:

(a) 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.';

(b) bullet 6 of point 2.3(e) is replaced by the following:

'6. the rectangular border of the label and the internal dividers shall have a weight of 0,5 pt and the colour shall be 100 % black';

(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 (l) is added:

'(l) 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 exclusively 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) the following point (4) is added:

'(4) Light sources specifically designed and exclusively marketed for products in the scope of Commission Regulations (EU) 2019/2023, (EU) 2019/2022, (EU) No 932/2012 and (EU) 2019/2019, shall be exempt from the requirements of points 1(e)(7b), 1(e)(7c) and 1(e)(7d) of Annex VI to this Regulation.';

(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 [a], [c]:
Supplier's address [a], [c]:
Model identifier [c]:
Type of light source:

Lighting technology used:	[HL/LFL T5 HE/LFL T5 HO/CFLni/other FL/HPS/MH/other HID/LED/OLED/ mixed/other]	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/1 000 h), **rounded up to the nearest integer**	x	Energy efficiency class	[A/B/C/D/E/F/G] [b]
Useful luminous flux (Φuse), 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…)]**
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 [a], [c] 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 φ1)	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 (Φ90°) 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 (in watt, rounded to the integer) 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 (in watt, rounded to the integer) 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 purpose 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) indicative lifetime L70B50 for LED and OLED light sources;

(8) displacement factor (cos φ1) 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.';

(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 supplier 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.

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.';

(b) in the third paragraph, the words 'When verifying' are replaced by 'As part of verifying';

(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) point 3 is replaced by the following:

'3. If the results referred to in point 2(a), (b) or (c) are not achieved, the model and all equivalent models shall be considered not to comply with this Regulation.';

(e) 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 [0-1]	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 [*Pst LM*] and stroboscopic effect [*SVM*]	10	The determined value shall not exceed the declared value by more than 0,1 or by more than 10 % if the declared value is more than 1,0
Colour consistency [*MacAdam ellips steps*]	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 control setting.'

ANNEX IV

Annexes I, II, 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, pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Article 3(1)(d) and Annex VI of this Regulation, 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 ≤ 41
B	41 < EEI ≤ 51
C	51 < EEI ≤ 64
D	64 < EEI ≤ 80
E	80 < EEI ≤ 100
F	100 < EEI ≤ 125
G	EEI > 125'

(3) in Annex IV, point 1 is amended as follows:

(a) the following is added after the first paragraph:

'Where a parameter is declared pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Table 7 of Annex VI, its declared value shall be used by the supplier for the calculations in this Annex.';

(b) 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;';

(c) 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 weights 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

— 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.';

(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 [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	x	Total volume (dm^3 or l)	x
	Width	x		
	Depth	x		
EEI		x	Energy efficiency class	[A/B/C/D/E/F/G] [c]
Airborne acoustical noise emissions (dB(A) re 1 pW)		x	Airborne acoustical noise emission class	[A/B/C/D] [d]
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]

For wine storage appliances

Number of standard wine bottles	x

Light source parameters ([a]), ([b]):

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 ([b]), ([d]):

Weblink to the supplier's website, where the information in point 4 of Annex II of Commission Regulation (EU) 2019/2019 ([1]) is found:

([a]) as determined in accordance with Commission Delegated Regulation (EU) 2019/2015 ([2]).
([b]) changes to this item 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.

([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).';

(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;

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

(g) equivalent models, if any, 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 of Regulation (EU) 2017/1369.

Table 7

Technical parameters of the model and their declared values for refrigerating appliances

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

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

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

Parameter	Value
Daily energy consumption at 32 °C (kWh/24h)	x,xxx

Additional product specifications for low noise refrigerating appliances:

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

Additional product specifications for wine storage appliances

Parameter	Value	Parameter	Value
Internal humidity (%)	[range]	Number of bottles	X

If the refrigerating appliance contains multiple compartments of the same type, the lines for these compartments shall be repeated. If a certain compartment type is not present, the compartment parameters' values shall be "-".

Compartment specifications:

	Compartment parameters and values							
Compartment type	Target temperature (°C)	Compartment volume (dm^3 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	+17	x,x	-	0,35	75	0,12	1,00	x,xx
Wine storage	+12	x,x	-	0,60	75	0,12	1,00	x,xx
Cellar	+12	x,x	-	0,60	75	0,12	1,00	x,xx
Fresh food	+4	x,x	-	1,00	75	0,12	1,00	x,xx
Chill	+2	x,x	-	1,10	138	0,12	1,00	x,xx
0-star or ice making	0	x,x	-	1,20	138	0,15	x,xx	x,xx
1-star	-6	x,x	-	1,50	138	0,15	x,xx	x,xx
2-star	-12	x,x	-	1,80	138	0,15	x,xx	x,xx
3-star	-18	x,x	-	2,10	138	0,15	x,xx	x,xx
4-star	-18	x,x	x,x	2,10	138	0,15	x,xx	x,xx
2-star section	-12	x,x	-	2,10	138	0,15	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
The sum of the volumes of the chill compartment(s) and the unfrozen compartment(s) [l or dm^3]		x						
The sum of the volumes of the frozen compartment(s) [l or dm^3]		x'						

(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 supplier 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) in the third paragraph, the words 'When verifying' are replaced by 'As part of verifying';

(c) 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.';

(d) 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.
E_{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.
Temperature rise time	The determined value [a] shall not be more than 15 % lower than the declared value.

[a] 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.'

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, pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Article 3(1)(d) and Annex VI of this Regulation, for the verification of compliance by the Member State authorities.';

(2) in Annex II, the title of Table 1 is replaced by the following: 'Energy efficiency classes of household dishwashers';

(3) Annex IV is amended as follows:

(a) the following is added after the first paragraph:

'Where a parameter is declared pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Table 4 of Annex VI, its declared value shall be used by the supplier for the calculations in this Annex.';

(b) 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

$$\ln I_C = (1/n) \times \Sigma^{n}_{i=1} \ln (C_{T,i}/C_{R,i})$$

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

$$\ln I_D = (1/n) \times \Sigma^{n}_{i=1} \ln(I_{D,i})$$

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:

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

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;

$D_{R,t}$ 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 (P_o), standby mode (P_{sm}) and delay start (P_{ds}) are measured, 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.';

(4) 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]) ([c]):

Supplier's address ([a]) ([c]):

Model identifier ([a]):

General product parameters:

Parameter	Value	Parameter	Value	
Rated capacity ([b]) (ps)	x	Dimensions in cm ([a]) ([c])	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 ([b]) (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]), ([c]):

Weblink to the supplier's website, where the information in point 6 of Annex II to Commission Regulation (EU) 2019/2022 ([1]) is found:

([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 this item 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.

([1]) Commission Regulation (EU) 2019/2022 of 1 October 2019 laying down ecodesign requirements for household dishwashers pursuant to Directive 2009/125/EC of the European Parliament and of the Council amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EU) No 1016/2010 (see page 267 of this Official Journal).';

(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 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;

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

(g) equivalent models, if any, 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 of Regulation (EU) 2017/1369.

Table 4

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

PARAMETER	DECLARED VALUE	UNIT
Rated capacity in place settings	X	-
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_t) 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'

(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 supplier 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) in the third paragraph, the words 'When verifying' are replaced by 'As part of verifying';

(c) 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.'.

ANNEX VI

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

(1) in Annex I, point (18) is replaced by the following:

'(18) "declared values" means the values provided by the supplier for the stated, calculated or measured technical parameters, pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Article 3(1)(d) and Annex VI of this Regulation, for the verification of compliance by the Member State authorities.';

(2) Annex IV is modified as follows:

(a) the following is added after the first paragraph:

'Where a parameter is declared pursuant to Article 3(3) of Regulation (EU) 2017/1369 and in accordance with Table 11 of Annex VI, its declared value shall be used by the supplier for the calculations in this Annex.';

(b) in Table 4, part (a), the following lines are added:

'Vertical and combined refrigerator supermarket cabinets	M0	≤ + 4	≥ – 1	n.a.	1,30
Horizontal refrigerator supermarket cabinets	M0	≤ + 4	≥ – 1	n.a.	1,13'

(c) the first note at the end of Table 4 is replaced as follows:

'(*) For multi-temperature vending machines, T_V shall be the average of T_{V1} (the maximum measured product temperature in the warmest compartment) and T_{V2} (the maximum measured product temperature in the coldest compartment), rounded to one decimal.';

(d) Table 10 of Annex V is replaced by the following:

'Table 10

Product information sheet

Supplier's name or trademark [b], [c]:	
Supplier's address [b], [c]:	
Model identifier [c]:	
Use:	Display and sale
Type of refrigerating appliance with a direct sales function: [Beverage coolers/Ice-cream freezers/Gelato-scooping cabinet/supermarket cabinet/refrigerated vending machines]	
Cabinet family code, according to the harmonised standards or other reliable, accurate and reproducible methods in accordance with Annex IV.	For example: [HC1/…/HC8], [VC1/…/VC4]
Product specific parameters (Beverage coolers: fill in point 1, ice-cream freezers: fill in point 2, Gelato-scooping cabinet: fill in point 3, supermarket cabinet: fill in point 4, refrigerated vending machines: fill in point 5. If the refrigerating appliance with a direct sales function contains compartments working at different temperatures, or a compartment that can be set to different temperatures, the lines shall be repeated for each compartment or temperature setting):	

1. **Beverage coolers:**

Gross volume (dm^3 or L)	Ambient conditions for which the appliance is suitable (according to Table 6)	
	Warmest temperature (°C)	Relative humidity (%)
x	x	x

2. **Ice-cream freezers with [transparent lid/non-transparent lid]:**

Net volume (dm^3 or L)	Ambient conditions for which the appliance is suitable (according to Table 8)			
	Temperature range (°C)		Relative humidity range (%)	
	minimum	maximum	minimum	maximum
x	x	x	x	x

3. **Gelato-scooping cabinet**

Total display area (m^2)	Temperature class (according to Table 4(b))
x,xx	[G1/G2/G3/L1/L2/L3/S]

4. **[Integral/Remote] [horizontal/vertical (other than semi-vertical)/semi-vertical/combined] supermarket cabinet, roll-in: [yes/no]:**

Total display area (m^2)	Temperature class (according to Table 4(a))
x,xx	[refrigerator: [M2/H1/H2/M1]/freezer: [L1/L2/L3]]

5. **Refrigerated vending machines, [refrigerated closed fronted for cans and bottles where the products are held in stacks/refrigerated glass fronted for [can and bottle, confectionery & snack/entirely for perishable foodstuffs]/multi-temperature for [fill in the type of foodstuffs it is intended for]/combination machines consisting of different categories of machine in the same housing and powered by one chiller for [fill in the type of foodstuffs it is intended for]]:**

Volume (dm^3 or L)	Temperature class (according to Table 4(c))
x	category [1/2/3/4/6]

General product parameters:

Parameter	**Value**	**Parameter**	**Value**
Annual energy consumption (kWh/a) [d]	x,xx	Recommended temperature(s) for optimised food storage (°C) (These settings shall not contradict the temperature conditions set out in Annex IV, Table 4, 5 or 6, as applicable)	x
EEI	x,x	Energy efficiency class	[A/B/C/D/E/F/G] [c]

Light source parameters [a], [b]:

Type of light source	[Lighting technology]
Energy efficiency class	[A/B/C/D/E/F/G]

Minimum duration of the guarantee offered by the supplier [b], [e]

Additional information ([b]), ([e]):

The weblink to the supplier's website, where the information in point 3 of Annex II of Commission Regulation (EU) 2019/2024 ([1]) is found:

([a]) as determined in accordance with Commission Delegated Regulation (EU) 2019/2015 ([2]).
([b]) changes to this item shall not be considered relevant for the purposes of paragraph 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]) if the refrigerating appliance with a direct sales function has different compartments working at different temperatures, the annual energy consumption of the integrated unit shall be provided. If separate refrigeration systems provide cooling for separate compartments of the same unit, the energy consumption associated with each sub-system shall also be provided where possible.
([e]) this item shall not be considered relevant for the purposes of Article 2(6) of Regulation (EU) 2017/1369.

_____

([1]) Commission Regulation (EU) 2019/2024 of 1 October 2019 laying down ecodesign requirements for refrigerating appliances with a direct sales function pursuant to Directive 2009/125/EC of the European Parliament and of the Council (see page 313 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).';

(3) 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 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;

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

(g) equivalent models, if any, 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 Article 12(5) of Regulation (EU) 2017/1369.

Table 11

Technical parameters of the model and their declared values for refrigerating appliances with a direct sales function

A general description of the refrigerating appliance with direct sales function model, sufficient for it to be unequivocally and easily identified:

Product specifications

General product specifications:

Parameter	Value	Parameter	Value
Annual energy consumption (kWh/a)	x,xx	Standard annual energy consumption (kWh/a)	x,xx

Daily energy consumption (kWh/24h)	x,xxx	Ambient conditions	[Set 1/Set 2]
M	x,x	N	x,xxx
Temperature coefficient (C)	x,xx	Y	x,xx
P	x,xx	Target temperature (Tc) (°C)*	x,x
Climate class factor (CC)*	x,xx		

Additional information:

The references of the harmonised standards or other reliable accurate and reproducible methods applied:

Where appropriate, identification and signature of the person empowered to bind the supplier:

A list of equivalent models, including model identifiers:

* Only for beverage coolers and ice-cream freezers

Additional product specifications for beverage coolers:

Parameter		Value
Gross volume (dm^3 or L)		x
Ambient conditions for which the appliance is suitable (according to Table 6)	Warmest temperature (°C)	x
	Relative humidity (%)	x

Additional product specifications for ice-cream freezers with [transparent lid/non-transparent lid]:

Parameter			Value
Net volume (dm^3 or L)			x
Ambient conditions for which the appliance is suitable (according to Table 8)	Temperature range (°C)	Minimum	x
		Maximum	x
	Relative humidity range (%)	Minimum	x
		Maximum	x

Additional product specifications for gelato-scooping cabinet

Parameter	Value
Total display area (m^2)	x,xx
Temperature class	XY

Additional product specifications for supermarket cabinet

Parameter	Value
Total display area (m^2)	x,xx
Temperature class	XY

Additional product specifications for refrigerated vending machines:	
Parameter	Value
Temperature class	XY
Volume (dm^3 or L)	x’

(4) 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 supplier 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) in the third paragraph, the words ‘When verifying’ are replaced by ‘As part of verifying’;

(c) 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.’.