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► **B** 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

(Text with EEA relevance)

(OJ L 315, 5.12.2019, p. 29)

Corrected by:

► **C1** Corrigendum, OJ L 50, 24.2.2020, p. 19 (2019/2014)

**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****(Text with EEA relevance)***Article 1***Subject matter and scope**

1. This Regulation establishes requirements for the labelling of, and the provision of supplementary product information on, electric mains-operated household washing machines and electric mains-operated household washer-dryers including those which can also be powered by batteries, and including built-in household washing machines and built-in household washer-dryers.
2. This Regulation shall not apply to
  - (a) washing machines and washer-dryers in the scope of Directive 2006/42/EC;
  - (b) battery-operated household washing machines and battery-operated household washer-dryers that can be connected to the mains through an AC/DC converter purchased separately;
  - (c) household washing machines with a rated capacity lower than 2 kg and household washer-dryers with a rated washing capacity lower than or equal to 2 kg.

*Article 2***Definitions**

For the purposes of this Regulation, the following definitions shall apply:

- (1) ‘mains’ or ‘electric mains’ means the electricity supply from the grid of 230 ( $\pm 10$  %) volts of alternating current at 50 Hz;
- (2) ‘automatic washing machine’ means a washing machine where the load is fully treated by the washing machine without the need for user intervention at any point during the programme;
- (3) ‘household washing machine’ means an automatic washing machine which cleans and rinses household laundry by using water, chemical, mechanical and thermal means, which also has a spin extraction function, and which is declared by the manufacturer in the Declaration of Conformity as

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complying with Directive 2014/35/EU of the European Parliament and of the Council <sup>(1)</sup> or with Directive 2014/53/EU of the European Parliament and of the Council <sup>(2)</sup>;

- (4) ‘household washer-dryer’ means a household washing machine which, in addition to the functions of an automatic washing machine, in the same drum includes a means for drying the textiles by heating and tumbling, and which is declared by the manufacturer in the Declaration of Conformity as complying with Directive 2014/35/EU or with Directive 2014/53/EU;
- (5) ‘built-in household washing machine’ means a household washing machine that is designed, tested and marketed exclusively:
- (a) to be installed in cabinetry or encased (top and/or bottom, and sides) by panels;
  - (b) to be securely fastened to the sides, top or floor of the cabinetry or panels; and
  - (c) to be equipped with an integral factory-finished face or to be fitted with a custom front panel;
- (6) ‘built-in household washer-dryer’ means a household washer-dryer that is designed, tested and marketed exclusively:
- (a) to be installed in cabinetry or encased (top and/or bottom, and sides) by panels;
  - (b) to be securely fastened to the sides, top or floor of the cabinetry or panels; and
  - (c) to be equipped with an integral factory-finished face or to be fitted with a custom front panel;
- (7) ‘multi-drum household washing machine’ means a household washing machine equipped with more than one drum, whether in separate units or in the same casing;
- (8) ‘multi-drum household washer-dryer’ means a household washer-dryer equipped with more than one drum, whether in separate units or in the same casing;
- (9) ‘point of sale’ means a location where household washing machines or household washer-dryers, or both, are displayed or offered for sale, hire or hire-purchase.

For the purposes of the annexes, additional definitions are set out in Annex I.

<sup>(1)</sup> Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (OJ L 96, 29.3.2014, p. 357).

<sup>(2)</sup> Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC (OJ L 153, 22.5.2014, p. 62).

**▼B***Article 3***Obligations of suppliers**

1. Suppliers shall ensure that:
  - (a) each household washing machine and household washer-dryer is supplied with a printed label in the format as set out in Annex III and, for a multi-drum household washing machine or a multi-drum household washer-dryer, in accordance with Annex X;
  - (b) the parameters of the product information sheet, as set out in Annex V, are entered into the product database;
  - (c) if specifically requested by the dealer of household washing machines and household washer-dryers, the product information sheet shall be made available in printed form;
  - (d) the content of the technical documentation, set out in Annex VI, is entered into the product database;
  - (e) any visual advertisement for a specific model of household washing machine or household washer-dryer contains the energy efficiency class and the range of energy efficiency classes available on the label in accordance with Annex VII and Annex VIII;
  - (f) any technical promotional material concerning a specific model of household washing machine or household washer-dryer, including on the internet, which describes its specific technical parameters includes the energy efficiency class of that model and the range of energy efficiency classes available on the label, in accordance with Annex VII;
  - (g) an electronic label in the format and containing the information as set out in Annex III is made available to dealers for each model of household washing machine and of household washer-dryer;
  - (h) an electronic product information sheet, as set out in Annex V, is made available to dealers for each model of household washing machine and of household washer-dryer.
2. The energy efficiency class and the acoustic airborne noise emission class are defined in Annex II and shall be calculated in accordance with Annex IV.

*Article 4***Obligations of dealers**

Dealers shall ensure that:

- (a) each household washing machine or household washer-dryer, at the point of sale, including at trade fairs, bears the label provided by suppliers in accordance with point 1(a) of Article 3, with the label being displayed for built-in appliances in such a way as to be clearly visible, and for all other appliances in such a way as to be clearly visible on the outside on the front or top of the household washing machine or household washer-dryer;

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- (b) in the case of distance selling and sale through the internet, the label and product information sheet are provided in accordance with Annexes VII and VIII;
- (c) any visual advertisement for a specific model of household washing machine or household washer-dryer contains the energy efficiency class of that model and the range of energy efficiency classes available on the label, in accordance with Annex VII;
- (d) any technical promotional material concerning a specific model of household washing machine or household washer-dryer, including on the internet, which describes its specific technical parameters, includes the energy efficiency class of that model and the range of energy efficiency classes available on the label, in accordance with Annex VII.

*Article 5***Obligations of internet hosting platforms**

Where a hosting service provider as referred to in Article 14 of Directive 2000/31/EC allows the direct selling of household washing machines or household washer-dryers through its internet website, the service provider shall enable the showing of the electronic label and electronic product information sheet provided by the dealer on the display mechanism in accordance with the provisions of Annex VIII and shall inform the dealer of the obligation to display them.

*Article 6***Measurement methods**

The information to be provided pursuant to Articles 3 and 4 shall be obtained by reliable, accurate and reproducible measurement and calculation methods, which take into account the recognised state-of-the-art measurement and calculation methods set out in Annex IV.

*Article 7***Verification procedure for market surveillance purposes**

Member States shall apply the procedure laid down in Annex IX when performing the market surveillance checks referred to in paragraph 3 of Article 8 of Regulation (EU) 2017/1369.

*Article 8***Review**

The Commission shall review this Regulation in the light of technological progress and present the results of this review including, if appropriate, a draft revision proposal, to the Consultation Forum no later than 25 December 2025.

The review shall in particular assess the following:

- (a) the improvement potential with regard to the energy consumption, functional and environmental performance of household washing machines and household washer-dryers;

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- (b) the appropriateness of maintaining two scales for the energy performance of household washer-dryers;
- (c) the effectiveness of existing measures in achieving changes of end-user behaviour in purchasing more energy and resource efficient appliances and using more energy and resource efficient programmes;
- (d) the possibility to address circular economy objectives.

*Article 9***Repeal**

Regulation (EU) No 1061/2010 is repealed as of 1 March 2021.

Directive 96/60/EC is repealed as of 1 March 2021.

*Article 10***Transitional measures**

As from 25 December 2019 until 28 February 2021, the product fiche required under point (b) of Article 3 of Regulation (EU) No 1061/2010 may be made available on the product database established by Article 12 of Regulation (EU) 2017/1369 instead of being provided in printed form. In this case the supplier shall ensure that if specifically requested by the dealer, the product fiche shall be made available in printed form.

As from 25 December 2019 until 28 February 2021, the fiche required under paragraph 3 of Article 2 of Directive 96/60/EC may be made available on the product database established by Article 12 of Regulation (EU) 2017/1369 instead of being provided in printed form. In this case the supplier shall ensure that if specifically requested by the dealer, the fiche shall be made available in printed form.

*Article 11***Entry into force and application**

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

It shall apply from 1 March 2021. However, Article 10 shall apply from 25 December 2019 and points 1(a) and 1(b) of Article 3 shall apply from 1 November 2020.

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

*ANNEX I***Definitions applicable for the annexes**

The following definitions shall apply:

- (1) 'Energy Efficiency Index' (EEL) means the ratio of the weighted energy consumption to the standard cycle energy consumption;
- (2) 'programme' means a series of operations that are pre-defined and which are declared by the supplier as suitable for washing, drying or continuously washing and drying certain types of textile;
- (3) 'washing cycle' means a complete washing process as defined by a selected programme, consisting of a series of different operations including washing, rinsing, and spinning;
- (4) 'drying cycle' means a complete drying process as defined by the required programme, consisting of a series of different operations including heating and tumbling;
- (5) 'complete cycle' means a washing and drying process, consisting of a washing cycle and a drying cycle;
- (6) 'continuous cycle' means a complete cycle without interruption of the process and with no need for user intervention at any point during the programme;
- (7) 'quick response' (QR) code means a matrix barcode included on the energy label of a product model that links to that model's information in the public part of the product database;
- (8) 'rated capacity' means the maximum mass in kilogram stated by the supplier at 0,5 kg intervals of dry textiles of a particular type, which can be treated in one washing cycle of a household washing machine, or in one complete cycle of a household washer-dryer respectively, on the selected programme, when loaded in accordance with the supplier's instructions;
- (9) 'rated washing capacity' means the maximum mass in kilogram stated by the supplier at 0,5 kg intervals of dry textiles of a particular type, which can be treated in one washing cycle of a household washing machine, or in one washing cycle of a household washer-dryer respectively, on the selected programme, when loaded in accordance with the supplier's instructions;
- (10) 'rated drying capacity' means the maximum mass in kilogram stated by the supplier at 0,5 kg intervals of dry textiles of a particular type, which can be treated in one drying cycle of a household washer-dryer on the selected programme, when loaded in accordance with the supplier's instructions;
- (11) 'eco 40-60' means the name of the programme declared by the supplier as able to clean normally soiled cotton laundry declared to be washable at 40 °C or 60 °C, together in the same washing cycle, and to which the information on the energy label and in the product information sheet relates;
- (12) 'rinsing effectiveness' means the concentration of the residual content of linear alkylbenzene sulfonate (LAS) in the treated textiles after the washing cycle of a household washing machine or household washer-dryer ( $I_R$ ) or the complete cycle of a household washer-dryer ( $J_R$ ), expressed in gram per kilogram of dry textile;

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- (13) ‘weighted energy consumption ( $E_W$ )’ means the weighted average of the energy consumption of the washing cycle of a household washing machine or of a household washer-dryer for the eco 40-60 programme at rated washing capacity, and at half and at a quarter of the rated washing capacity, expressed in kilowatt hour per cycle;
- (14) ‘weighted energy consumption ( $E_{WD}$ )’ means the weighted average of the energy consumption of the household washer-dryer for the wash and dry cycle at rated capacity and at half of the rated capacity, expressed in kilowatt hour per cycle;
- (15) ‘standard cycle energy consumption’ (SCE) means the energy consumption taken as a reference, as a function of the rated capacity of a household washing machine or of a household washer-dryer, expressed in kilowatt hour per cycle;
- (16) ‘weighted water consumption ( $W_W$ )’ means the weighted average of the water consumption of the washing cycle of a household washing machine or of a household washer-dryer for the eco 40-60 programme at rated washing capacity, and at half and at a quarter of the rated washing capacity, expressed in litre per cycle;
- (17) ‘weighted water consumption ( $W_{WD}$ )’ means the weighted average of the water consumption of a household washer-dryer for the wash and dry cycle at rated capacity and at half of the rated capacity, expressed in litre per cycle;
- (18) ‘remaining moisture content’ means for household washing machines and for the washing cycle of household washer-dryers, the amount of moisture contained in the load at the end of the washing cycle;
- (19) ‘final moisture content’ means for household washer-dryers the amount of moisture contained in the load at the end of the drying cycle;
- (20) ‘cupboard dry’ means the status of treated textiles dried in a drying cycle to a final moisture content of 0 %;
- (21) ‘programme duration’ ( $t_W$ ) means the length of time beginning with the initiation of the programme selected, excluding any user programmed delay, until the end of the programme is indicated and the user has access to the load.
- (22) ‘cycle duration’ ( $t_{WD}$ ) means, for the complete cycle of a household washer-dryer, the length of time beginning with the initiation of the programme selected for the washing cycle, excluding any user programmed delay, until the end of the drying cycle is indicated and the user has access to the load;
- (23) ‘off mode’ means a condition in which the household washing machine or the household washer-dryer is connected to the mains and is not providing any function; the following shall also be considered as off mode:
- (a) a condition providing only an indication of off mode;
  - (b) a condition providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2014/30/EU of the European Parliament and of the Council <sup>(1)</sup>;

<sup>(1)</sup> Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (OJ L 96, 29.3.2014, p. 79).



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- (24) ‘standby mode’ means a condition where the household washing machine or the household washer-dryer is connected to the mains and provides only the following functions, which may persist for an indefinite time:
- (a) reactivation function or reactivation function and a mere indication of enabled reactivation function, and/or
  - (b) reactivation function through a connection to a network; and/or
  - (c) information or status display, and/or
  - (d) detection function for emergency measures;
- (25) ‘network’ means a communication infrastructure with a topology of links, an architecture, including the physical components, organisational principles, communication procedures and formats (protocols);
- (26) ‘wrinkle guard function’ means an operation of the household washing machine or of the household washer-dryer after completion of a programme to prevent excessive wrinkle building in the laundry;
- (27) ‘delay start’ means a condition where the user has selected a specified delay to the beginning or end of the cycle of the selected programme;
- (28) ‘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 household washing machine and the household washer-dryer in any way if they do not meet the specifications set out in the guarantee statement or in the relevant advertising;
- (29) ‘display mechanism’ means any screen, including tactile screen, or other visual technology used for displaying internet content to users;
- (30) ‘nested display’ means visual interface where an image or data set is accessed by a mouse click, mouse roll-over or tactile screen expansion of another image or data set;
- (31) ‘tactile screen’ means a screen responding to touch, such as that of a tablet computer, slate computer or a smartphone;
- (32) ‘alternative text’ means text provided as an alternative to a graphic allowing information to be presented in non-graphical form where display devices cannot render the graphic or as an aid to accessibility such as input to voice synthesis applications.

**▼ B***ANNEX II***A. Energy efficiency classes**

The energy efficiency class of a household washing machine and of the washing cycle of a household washer-dryer shall be determined on the basis of its Energy Efficiency Index ( $EEI_w$ ) as set out in Table 1.

The  $EEI_w$  of a household washing machine and of the washing cycle of a household washer-dryer shall be calculated in accordance with Annex IV.

*Table 1***Energy efficiency classes of household washing machines and of the washing cycle of household washer-dryers**

Energy Efficiency Class	Energy Efficiency Index ( $EEI_w$ )
A	$EEI_w \leq 52$
B	$52 < EEI_w \leq 60$
C	$60 < EEI_w \leq 69$
D	$69 < EEI_w \leq 80$
E	$80 < EEI_w \leq 91$
F	$91 < EEI_w \leq 102$
G	$EEI_w > 102$

The energy efficiency class of the complete cycle of a household washer-dryer shall be determined on the basis of its Energy Efficiency Index ( $EEI_{WD}$ ) as set out in Table 2.

The  $EEI_{WD}$  of the complete cycle of a household washer-dryer shall be calculated in accordance with Annex IV.

*Table 2***Energy efficiency classes of the complete cycle of a household washer-dryer**

Energy Efficiency Class	Energy Efficiency Index ( $EEI_{WD}$ )
A	$EEI_{WD} \leq 37$
B	$37 < EEI_{WD} \leq 45$
C	$45 < EEI_{WD} \leq 55$
D	$55 < EEI_{WD} \leq 67$
E	$67 < EEI_{WD} \leq 82$
F	$82 < EEI_{WD} \leq 100$
G	$EEI_{WD} > 100$

**B. Spin-drying efficiency classes**

The spin-drying efficiency class of a household washing machine and of the washing cycle of a household washer-dryer shall be determined on the basis of the remaining moisture content (D) as set out in Table 3.

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The D of a household washing machine and of the washing cycle of a household washer-dryer shall be calculated in accordance with Annex IV.

*Table 3*

**Spin-drying efficiency classes**

Spin-drying efficiency class	Remaining moisture content (D) (%)
A	$D < 45$
B	$45 \leq D < 54$
C	$54 \leq D < 63$
D	$63 \leq D < 72$
E	$72 \leq D < 81$
F	$81 \leq D < 90$
G	$D \geq 90$

**C. Acoustic airborne noise emission classes**

The acoustic airborne noise emission class of a household washing machine and of a washing cycle of a household washer-dryer shall be determined on the basis of the acoustic airborne noise emissions as set out in Table 4.

*Table 4*

**Acoustic airborne noise emission classes**

Phase	Acoustic airborne noise emission class	Noise (dB)
Spinning	A	$n < 73$
	B	$73 \leq n < 77$
	C	$77 \leq n < 81$
	D	$n \geq 81$

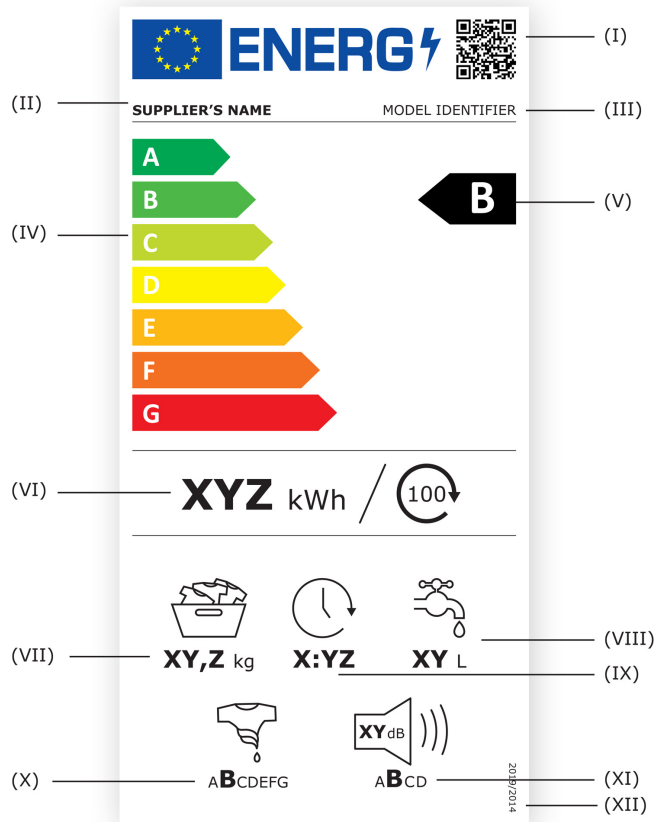
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## ANNEX III

## A. Label for household washing machines

## 1. LABEL FOR HOUSEHOLD WASHING MACHINES

## 1.1. Label



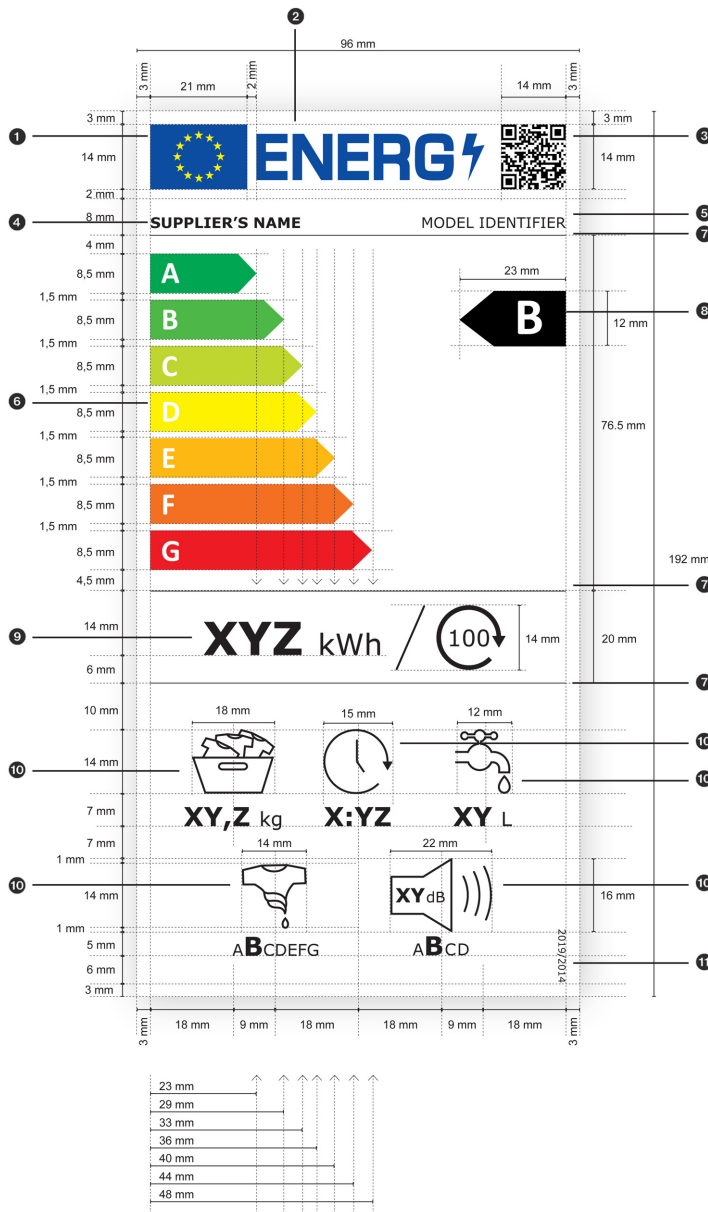
## 1.2. The following information shall be included in the label:

- I. QR code;
- II. supplier's name or trade mark;
- III. supplier's model identifier;
- IV. scale of energy efficiency classes from A to G;
- V. the energy efficiency class determined in accordance with Annex II;
- VI. weighted energy consumption per 100 cycles in kWh, rounded to the nearest integer in accordance with Annex IV;
- VII. rated capacity, in kg, for the eco 40-60 programme;
- VIII. weighted water consumption per cycle in litres, rounded to the nearest integer in accordance with Annex IV;
- IX. duration of the eco 40-60 programme at rated capacity in h:min rounded to the nearest minute;
- X. Spin-drying efficiency class, determined in accordance with point B of Annex II;
- XI. airborne acoustic noise emissions of the spinning phase, expressed in dB(A) re 1 pW and rounded to the nearest integer, and airborne acoustic noise emission class, determined in accordance with point C of Annex II;
- XII. the number of this Regulation, that is '2019/2014'.

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## 2. LABEL DESIGN FOR HOUSEHOLD WASHING MACHINES

The design of the label shall be as in the figure below.



Whereby:

- The label shall be at least 96 mm wide and 192 mm high. Where the label is printed in a larger format, its content shall nevertheless remain proportionate to the specifications above.
- The background of the label shall be 100 % white.
- The typefaces shall be Verdana and Calibri.
- The dimensions and specifications of the elements constituting the label shall be as indicated in the label design for household washing machines.
- Colours shall be CMYK – cyan, magenta, yellow and black, following this example: 0,70,100,0: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black.

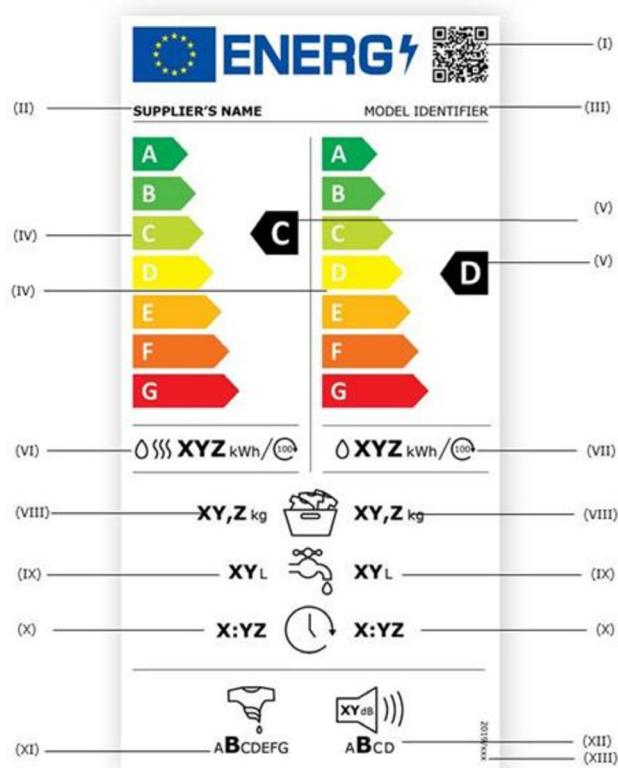
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- (f) The label shall fulfil all the following requirements (numbers refer to the figure above):
- ① the colours of the EU logo shall be as follows:
    - the background: 100,80,0,0;
    - the stars: 0,0,100,0;
  - ② the colour of the energy logo shall be: 100,80,0,0;
  - ③ the QR code shall be 100 % black;
  - ④ the supplier's name shall be 100 % black and in Verdana Bold, 9 pt;
  - ⑤ the model identifier shall be 100 % black and in Verdana Regular 9 pt;
  - ⑥ the A to G scale shall be as follows:
    - the letters of the energy efficiency scale shall be 100 % white and in Calibri Bold 19 pt; the letters shall be centred on an axis at 4,5 mm from the left side of the arrows;
    - the colours of the A to G scale arrows shall be as follows:
      - A-class: 100,0,100,0;
      - B-class: 70,0,100,0;
      - C-class: 30,0,100,0;
      - D-class: 0,0,100,0;
      - E-class: 0,30,100,0;
      - F-class: 0,70,100,0;
      - G-class: 0,100,100,0;
  - ⑦ the internal dividers shall have a weight of 0,5 pt and the colour shall be 100 % black;
  - ⑧ the letter of the energy efficiency class shall be 100 % white and in Calibri Bold 33 pt. The energy efficiency class arrow and the corresponding arrow in the A to G scale shall be positioned in such a way that their tips are aligned. The letter in the energy efficiency class arrow shall be positioned in the centre of the rectangular part of the arrow which shall be 100 % black;
  - ⑨ the value of the weighted energy consumption per 100 cycles shall be in Verdana Bold font 28 pt; 'kWh' shall be in Verdana Regular font, 18 pt; the number '100' in the icon representing 100 cycles shall be in Verdana Regular 14 pt. The value and unit shall be centred and 100 % black;
  - ⑩ the pictograms shall be as shown as in the label design and as follows:
    - the pictograms' lines shall have a weight of 1,2 pt and they and the texts (numbers and units) shall be 100 % black;
    - the texts under the 3 top pictograms shall be in Verdana Bold 16 pt with the units in Verdana Regular 12 pt, they shall be centred under the pictograms;
    - the spin-drying energy efficiency pictogram: the range of spin-drying energy efficiency classes (A to G) shall be centred under the pictogram, with the letter of the applicable spin-drying energy efficiency class in Verdana Bold 16 pt and the other letters of the spin-drying energy efficiency classes in Verdana Regular 10 pt;

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— the airborne acoustical noise emission pictogram: the number of decibels in the loudspeaker shall be in Verdana Bold 12 pt, with the unit 'dB' in Verdana Regular 9 pt; the range of noise classes (A to D) shall be centred under the pictogram, with the letter of the applicable noise class in Verdana Bold 16 pt and the other letters of the noise classes in Verdana Regular 10 pt;

- 11 the number of the regulation shall be 100 % black and in Verdana Regular 6 pt.

**B. Label for household washer-dryer****1. LABEL FOR HOUSEHOLD WASHER-DRYERS****1.1. Label:****▼C1****▼B**

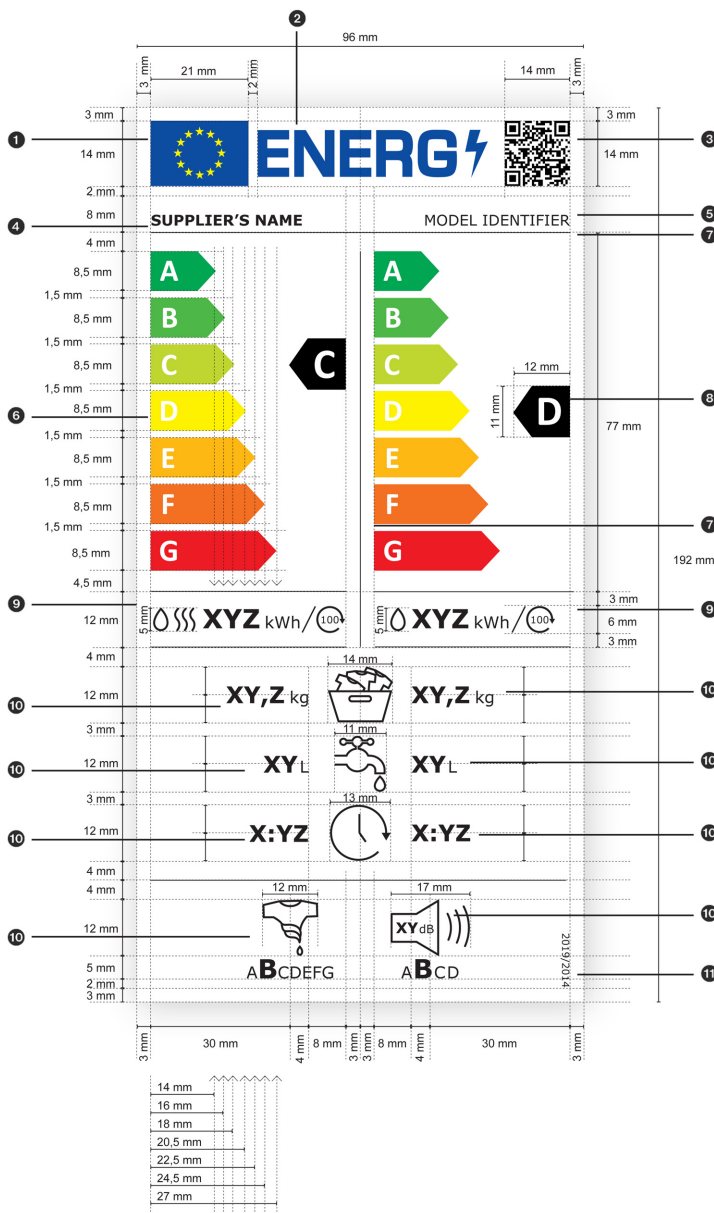
1.2. The following information shall be included in the label:

- I. QR code;
- II. supplier's name or trade mark;
- III. supplier's model identifier;
- IV. scales of energy efficiency classes from A to G for the complete cycle (on the left side) and for the washing cycle (on the right side);
- V. the energy efficiency class for the complete cycle (on the left side) determined in accordance with Annex II; and for the washing cycle (on the right side) determined in accordance with Annex II;
- VI. weighted energy consumption per 100 cycles in kWh, rounded to the nearest integer in accordance with Annex IV, for the complete cycle (on the left side);
- VII. weighted energy consumption per 100 cycles in kWh, rounded to the nearest integer in accordance with Annex IV for the washing cycle (on the right side);

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- VIII. rated capacity for the complete cycle (on the left side) and for the washing cycle (on the right side);
- IX. weighted water consumption per cycle in litre, rounded to the nearest integer in accordance with Annex IV for the complete cycle (on the left side) and for the washing cycle (on the right side);
- X. cycle duration at rated capacity for the complete cycle (on the left side) and for the washing cycle (on the right side);
- XI. Spin-drying efficiency class, determined in accordance with point B of Annex II;
- XII. airborne acoustic noise emission class of the spinning phase of the eco 40-60 programme and value in dB(A) re 1 pW and rounded to the nearest integer;
- XIII. the number of this Regulation, that is ‘2019/2014’.

2. LABEL DESIGN FOR HOUSEHOLD WASHER-DRYERS





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Whereby:

- (a) The label shall be at least 96 mm wide and 192 mm high. Where the label is printed in a larger format, its content shall nevertheless remain proportionate to the specifications above.
- (b) The background of the label shall be 100 % white.
- (c) The typefaces shall be Verdana and Calibri.
- (d) The dimensions and specifications of the elements constituting the label shall be as indicated in the label design for household washer dryers.
- (e) Colours shall be CMYK – cyan, magenta, yellow and black, following this example: 0,70,100,0: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black.
- (f) The label shall fulfil all the following requirements (numbers refer to the figure above):
  - ❶ the colours of the EU logo shall be as follows:
    - the background: 100,80,0,0;
    - the stars: 0,0,100,0;
  - ❷ the colour of the energy logo shall be: 100,80,0,0;
  - ❸ the QR code shall be 100 % black;
  - ❹ the supplier's name shall be 100 % black and in Verdana Bold, 9 pt;
  - ❺ the model identifier shall be 100 % black and in Verdana Regular 9 pt;
  - ❻ the A to G scales shall be as follows:
    - the letters of the energy efficiency scales shall be 100 % white and in Calibri Bold 19 pt; the letters shall be centred on an axis at 4 mm from the left side of the arrows;
    - the colours of the A to G scale arrows shall be as follows:
      - A-class: 100,0,100,0;
      - B-class: 70,0,100,0;
      - C-class: 30,0,100,0;
      - D-class: 0,0,100,0;
      - E-class: 0,30,100,0;
      - F-class: 0,70,100,0;
      - G-class: 0,100,100,0;
  - ❼ the internal dividers shall have a weight of 0,5 pt and the colour shall be 100 % black;
  - ❽ the letter of the energy efficiency class shall be 100 % white and in Calibri Bold 26 pt. The energy efficiency class arrow and the corresponding arrow in the A to G scale shall be positioned in such a way that their tips are aligned. The letter in the energy efficiency class arrow shall be positioned in the centre of the rectangular part of the arrow which shall be 100 % black;

**▼ B**

- 9 the value of the weighted energy consumption per 100 cycles shall be in Verdana Bold 16 pt; 'kWh' shall be in Verdana Regular 10 pt; the number '100' in the pictogram representing 100 cycles shall be in Verdana Regular 6 pt. The text shall be centred and 100 % black;
- 10 the pictograms shall be as shown as in the label designs and as follows:
  - the pictograms' lines shall have a weight of 1,2 pt and they and the texts (numbers and units) shall be 100 % black;
  - the texts at the right and left of the pictograms shall be in Verdana Bold 14 pt with the unit in Verdana Regular 10 pt;
  - the spin-drying energy efficiency pictogram: the range of spin-drying energy efficiency classes (A to G) shall be centred under the pictogram, with the letter of the applicable spin-drying energy efficiency class in Verdana Bold 16 pt and the other letters of the spin-drying energy efficiency classes in Verdana Regular 10 pt;
  - the airborne acoustical noise emission pictogram: the number of decibels in the loudspeaker shall be in Verdana Bold 9 pt, with the unit 'dB' in Verdana Regular 7 pt; the range of noise classes (A to D) shall be centred under the pictogram, with the letter of the applicable noise class in Verdana Bold 16 pt and the other letters of the noise classes in Verdana Regular 10 pt;
- 11 the number of the regulation shall be 100 % black and in Verdana Regular 6 pt.

*ANNEX IV***Measurement methods and calculations**

For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made 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 takes into account the generally recognised state-of-the-art, and in line with the following provisions.

The eco 40-60 programme shall be used for the measurement and calculation of the energy consumption, Energy Efficiency Index ( $EEl_w$ ), maximum temperature, water consumption, remaining moisture content, programme duration, washing efficiency, rinsing effectiveness, spin-drying efficiency and airborne acoustical noise emissions in the spinning phase for household washing machines and the washing cycle of household washer-dryers. The energy consumption, maximum temperature, water consumption, remaining moisture content, programme duration, washing efficiency and rinsing effectiveness shall be measured concurrently.

The wash and dry cycle shall be used for the measurement and calculation of the energy consumption, Energy Efficiency Index ( $EEl_{wD}$ ), maximum temperature in the washing phase, water consumption, final moisture content, cycle duration, washing efficiency and rinsing effectiveness for household washer-dryers. The energy consumption, maximum temperature, water consumption, final moisture content, cycle duration, washing efficiency and rinsing effectiveness shall be measured concurrently.

When measuring the parameters of this annex for the eco 40-60 programme and for the wash and dry cycle, the highest spin speed option for the eco 40-60 programme shall be used at rated capacity, at half of the rated capacity and, where relevant, at a quarter of the rated capacity.

For household washing machines with a rated capacity lower than or equal to 3 kg and for household washer-dryers with a rated washing capacity lower than or equal to 3 kg, the parameters for the eco 40-60 programme and for the wash and dry cycle shall be measured at rated capacity only.

The duration of the eco 40-60 programme ( $t_w$ ) at rated washing capacity, at half of the rated washing capacity and at a quarter of the rated washing capacity, and the duration of the wash and dry cycle ( $t_{wD}$ ) at rated capacity and at half of the rated capacity, are expressed in hours and minutes and rounded to the nearest minute.

Airborne acoustical noise emissions are measured in dB(A) with respect to 1 pW and rounded to the nearest integer.

**1. RATED CAPACITY OF HOUSEHOLD WASHER-DRYERS**

The rated capacity of household washer-dryers shall be measured, using the wash and dry cycle.

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

If the household washer-dryer does not provide a continuous cycle, the rated capacity of the wash and dry cycle shall be the lower value of the rated washing capacity of the eco 40-60 programme and the rated drying capacity of the drying cycle achieving cupboard dry status.

**▼ B**

## 2. ENERGY EFFICIENCY INDEX

2.1. *Energy Efficiency Index (EEI<sub>W</sub>) of household washing machines and the washing cycle of household washer-dryers*

For the calculation of the EEI<sub>W</sub>, the weighted energy consumption of the eco 40-60 programme at the rated washing capacity, half of the rated washing capacity and a quarter of the rated washing capacity is compared to its standard energy consumption.

(a) The EEI<sub>W</sub> is calculated as follows, and is rounded to one decimal place:

$$EEI_W = (E_W / SCE_W) \times 100$$

where:

E<sub>W</sub> is the weighted energy consumption of the household washing machine or the washing cycle of the household washer-dryer;

SCE<sub>W</sub> is the standard cycle energy consumption of the household washing machine or the washing cycle of the household washer-dryer.

(b) The SCE<sub>W</sub> is calculated in kWh per cycle and rounded to three decimal places as follows:

$$SCE_W = -0,0025 \times c^2 + 0,0846 \times c + 0,3920$$

where c is the rated capacity of the household washing machine or the rated washing capacity of the household washer-dryer for the eco 40-60 programme.

(c) The E<sub>W</sub> is calculated in kWh per cycle as follows and rounded to three decimal places:

**▼ C1**

$$E_W = A \times E_{W,\text{full}} + B \times E_{W,\frac{1}{2}} + C \times E_{W,\frac{1}{4}}$$

**▼ B**

where:

E<sub>W,full</sub> is the energy consumption of the household washing machine or of the washing cycle of the household washer-dryer for the eco 40-60 programme at the rated washing capacity and rounded to three decimal places;

E<sub>W,½</sub> is the energy consumption of the household washing machine or of the washing cycle of the household washer-dryer for the eco 40-60 programme at half of the rated washing capacity and rounded to three decimal places;

E<sub>W,¼</sub> is the energy consumption of the household washing machine or of the washing cycle of the household washer-dryer for the eco 40-60 programme at a quarter of the rated washing capacity and rounded to three decimal places;

A is the weighting factor for rated washing capacity and rounded to three decimal places;

B is the weighting factor for half of the rated washing capacity and rounded to three decimal places;

C is the weighting factor for a quarter of the rated washing capacity and rounded to three decimal places.

For household washing machines with a rated capacity lower than or equal to 3 kg and for household washer-dryers with a rated washing capacity lower than or equal to 3 kg, A shall be equal to 1; B and C shall be equal to 0.

**▼B**

For other household washing machines and household washer-dryers, the values of the weighting factors depend on the rated capacity according to the following equations:

$$A = -0,0391 \times c + 0,6918$$

$$B = -0,0109 \times c + 0,3582$$

$$C = 1 - (A + B)$$

where  $c$  is the rated capacity of the household washing machine or the rated washing capacity of the household washer dryer.

- (d) The weighted energy consumption per 100 cycles of the household washing machine or of the washing cycle of the household washer-dryer is calculated as follows and rounded to the nearest integer:

$$E_W \times 100$$

2.2. *Energy Efficiency Index (EEI<sub>WD</sub>) of the complete cycle of household washer-dryers*

For the calculation of the EEI<sub>WD</sub> of a household washer-dryer model, the weighted energy consumption of the wash and dry cycle at the rated capacity and half of the rated capacity is compared to its standard cycle energy consumption.

- (a) The EEI<sub>WD</sub> is calculated as follows, and is rounded to one decimal place:

$$EEI_{WD} = (E_{WD}/SCE_{WD}) \times 100$$

where:

$E_{WD}$  is the weighted energy consumption of the complete cycle of the household washer-dryer;

$SCE_{WD}$  is the standard cycle energy consumption of the complete cycle of the household washer-dryer.

- (b) The  $SCE_{WD}$  is calculated in kWh per cycle and rounded to three decimal places as follows:

$$SCE_{WD} = -0,0502 \times d^2 + 1,1742 \times d - 0,644$$

where  $d$  is the rated capacity of the household washer-dryer for the wash and dry cycle.

- (c) For household washer-dryers with a rated washing capacity lower than or equal to 3 kg, the  $E_{WD}$  is the energy consumption at rated capacity and rounded to three decimal places.

For other household washer-dryers, the  $E_{WD}$  is calculated in kWh per cycle as follows and rounded to three decimal places:

**▼C1**

$$E_{WD} = \frac{[3 \times E_{WD,full} + 2 \times E_{WD,1/2}]}{5}$$

**▼B**

where:

$E_{WD,full}$  is the energy consumption of the household washer-dryer for the wash and dry cycle at rated capacity and rounded to three decimal places;

$E_{WD,1/2}$  is the energy consumption of the household washer-dryer for the wash and dry cycle at half the rated capacity and rounded to three decimal places.

**▼B**

- (d) The weighted energy consumption per 100 cycles of the complete cycle of the washer-dryer is calculated as follows and rounded to the nearest integer:

$$E_{WD} \times 100$$

### 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 two decimal places.

### 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.

### 5. MAXIMUM TEMPERATURE

The maximum temperature reached for 5 minutes inside the laundry being treated in household washing machines and in the washing cycle of household washer-dryers shall be determined 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, and rounded to the nearest integer.

### 6. WEIGHTED WATER CONSUMPTION

- (1) The weighted water consumption ( $W_w$ ) of a household washing machine or the washing cycle of a household washer-dryer is calculated in litres and rounded to the nearest integer:

$$W_w = (A \times W_{w,full} + B \times W_{w,1/2} + C \times W_{w,1/4})$$

where:

$W_{w,full}$  is the water consumption of the household washing machine or of the washing cycle of a household washer-dryer for the eco 40-60 programme at rated washing capacity, in litres and rounded to one decimal place;

$W_{w,1/2}$  is the water consumption of the household washing machine or of the washing cycle of a household washer-dryer for the eco 40-60 programme at half of the rated washing capacity, in litres and rounded to one decimal place;

$W_{w,1/4}$  is the water consumption of the household washing machine or of the washing cycle of a household washer-dryer for the eco 40-60 programme at a quarter of the rated washing capacity, in litres and rounded to one decimal place;

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

- (2) For household washer-dryers with a rated washing capacity lower than or equal to 3 kg, the weighted water consumption is the water consumption at rated capacity and rounded to the nearest integer.

**▼ B**

For other household washer-dryers, the weighted water consumption ( $W_{WD}$ ) of the wash and dry cycle of a household washer-dryer is calculated as follows and rounded to the nearest integer:

**▼ C1**

$$W_{WD} = \frac{[3 \times W_{WD,full} + 2 \times W_{WD,\frac{1}{2}}]}{5}$$

**▼ B**

where:

$W_{WD,full}$  is the water consumption of the wash and dry cycle of a household washer-dryer at rated capacity, in litres and rounded to one decimal place;

$W_{WD,\frac{1}{2}}$  is the water consumption of the wash and dry cycle of a household washer-dryer at half of the rated capacity, in litres and rounded to one decimal place.

## 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 the nearest whole percent:

**▼ C1**

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

**▼ B**

where:

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

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

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

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

## 8. FINAL MOISTURE CONTENT

For the drying cycle of a household washer-dryer, cupboard dry status corresponds to 0 % final moisture content, which is the thermodynamic equilibrium of the load with the ambient air conditions of temperature (tested at  $20 \pm 2$  °C) and relative humidity (tested at  $65 \pm 5$  %).

The final moisture content is calculated in accordance with the harmonised standards the reference numbers of which have been published for this purpose in the *Official Journal of the European Union* and rounded to one decimal place.

## 9. LOW POWER MODES

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

**▼B**

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

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

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

#### 10. ACOUSTIC AIRBORNE NOISE EMISSION

The acoustic airborne noise emission of the spinning phase of household washing machines and household washer-dryers shall be calculated for the eco 40-60 programme at rated washing capacity, 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.





## ANNEX V

## Product information sheet

## 1. Household washing machines

Pursuant to point 1(b) of Article 3, the supplier shall enter into the product database the information as set out in Table 5.

The user manual or other literature provided with the product shall clearly indicate the link to the model in the product database as a human-readable Uniform Resource Locator (URL) or as QR code or by providing the product registration number.

Table 5

## Content, order and format of the product information sheet

<b>Supplier's name or trade mark:</b>					
<hr/>					
<b>Supplier's address <sup>(b)</sup>:</b>					
<hr/>					
<b>Model identifier:</b>					
<hr/>					
<b>General product parameters:</b>					
Parameter	Value		Parameter	Value	
Rated capacity <sup>(a)</sup> (kg)	x,x		Dimensions in cm	Height	x
				Width	x
				Depth	x
EEI <sub>w</sub> <sup>(a)</sup>	x,x		Energy efficiency class <sup>(a)</sup>	[A/B/C/D/E/F/G] <sup>(c)</sup>	
Washing efficiency index <sup>(a)</sup>	x,xx		Rinsing effectiveness (g/kg) <sup>(a)</sup>	x,x	
Energy consumption in kWh per cycle, based on the eco 40-60 programme. Actual energy consumption will depend on how the appliance is used.	x,xxx		Water consumption in litre per cycle, based on the eco 40-60 programme. Actual water consumption will depend on how the appliance is used and on the hardness of the water.	x	
Maximum temperature inside the treated textile <sup>(a)</sup> (°C)	Rated capacity	x	Remaining moisture content <sup>(a)</sup> (%)	Rated capacity	x
	Half	x		Half	x
	Quarter	x		Quarter	x

**▼ B**

Spin speed <sup>(a)</sup> (rpm)	Rated capacity	x	Spin-drying class <sup>(a)</sup>	efficiency	[A/B/C/D/E/F/G] <sup>(c)</sup>
	Half	x			
	Quarter	x			
Programme duration <sup>(a)</sup> (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 <sup>(a)</sup> (dB(A) re 1 pW)	x		Airborne acoustical noise emission class <sup>(a)</sup> (spinning phase)		[A/B/C/D] <sup>(c)</sup>
Off-mode (W)	x,xx		Standby mode (W)		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 <sup>(b)</sup>:**

<b>This product has been designed to release silver ions during the washing cycle</b>	[YES/NO]
---	----------

**Additional information:**

Weblink to the supplier's website, where the information in point 9 of Annex II to Commission Regulation (EU) 2019/2023 <sup>(1)</sup> <sup>(b)</sup> is found:

<sup>(a)</sup> for the eco 40-60 programme.

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

<sup>(c)</sup> if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

**2. Household washer-dryers**

Pursuant to point 1(b) of Article 3, the supplier shall enter into the product database the information as set out in Table 6.

The user manual or other literature provided with the product shall clearly indicate the link to the model in the product database as a human-readable Uniform Resource Locator (URL) or as QR code or by providing the product registration number.

<sup>(1)</sup> 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

## Content, order and format of the product information sheet

<b>Supplier's name or trade mark:</b>					
<b>Supplier's address (c):</b>					
<b>Model identifier:</b>					
<b>General product parameters:</b>					
Parameter	Value		Parameter	Value	
Rated capacity (kg)	Rated capacity (b)	x,x	Dimensions in cm	Height	x
	Rated washing capacity (a)	x,x		Width	x
				Depth	x
Energy Efficiency Index	EEI <sub>W</sub> (a)	x,x	Energy efficiency class	EEI <sub>W</sub> (a)	[A/B/C/D/E/F/G] (d)
	EEI <sub>WD</sub> (b)	x,x		EEI <sub>WD</sub> (b)	[A/B/C/D/E/F/G] (d)
Washing efficiency index	I <sub>W</sub> (a)	x,xx	Rinsing effectiveness (g/kg dry textile)	I <sub>R</sub> (a)	x,x
	J <sub>W</sub> (b)	x,xx		J <sub>R</sub> (b)	x,x
Energy consumption in kWh per kg 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 kg 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) (a)	Rated washing capacity	x	Remaining moisture content (%) (a)	Rated washing capacity	x
	Half	x		Half	x
	Quarter	x		Quarter	x

▼C1

**▼ B**

Spin speed (rpm) <sup>(a)</sup>	Rated washing capacity	x	Spin-drying efficiency class <sup>(a)</sup>	[A/B/C/D/E/F/G] <sup>(d)</sup>	
	Half	x			
	Quarter	x			
Eco 40-60 programme duration (h:min)	Rated washing capacity	x:xx	wash and dry cycle duration (h:min)	Rated capacity	x:xx
	Half	x:xx		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		Airborne acoustical noise emission class for the spinning phase for the eco 40-60 programme at rated washing capacity	[A/B/C/D] <sup>(d)</sup>	
Type	[built-in/free-standing]				
Off-mode (W)	x,xx		Standby mode (W)	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 <sup>(c)</sup>:**

**This product has been designed to release silver ions during the washing cycle**

[YES/NO]

**Additional information:**

Weblink to the supplier's website, where the information in point 9 of Annex II to Regulation (EU) 2019/2023 is found <sup>(b)</sup>:

<sup>(a)</sup> for the eco 40-60 programme

<sup>(b)</sup> for the wash and dry cycle

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

<sup>(d)</sup> if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.



## ANNEX VI

## Technical documentation

1. For household washing machines, the technical documentation referred to in point 1(d) of Article 3 shall include:
  - (a) information as set out in point 1 of Annex V;
  - (b) information as set out in Table 7; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;

Table 7

## Information to be included in the technical documentation for household washing machines

PARAMETER	UNIT	VALUE
Rated capacity for the eco 40-60 programme, at 0,5 kg intervals (c)	kg	X,X
Energy consumption of the eco 40-60 programme at rated capacity ( $E_{W,full}$ )	kWh/cycle	X,XXX
Energy consumption of the eco 40-60 programme at half rated capacity ( $E_{W,1/2}$ )	kWh/cycle	X,XXX
Energy consumption of the eco 40-60 programme at quarter rated capacity ( $E_{W,1/4}$ )	kWh/cycle	X,XXX
Weighted energy consumption of the eco 40-60 programme ( $E_W$ )	kWh/cycle	X,XXX
Standard energy consumption of the eco 40-60 programme ( $SCE_W$ )	kWh/cycle	X,XXX
Energy Efficiency Index ( $EEI_W$ )	—	X,X
Water consumption of the eco 40-60 programme at rated capacity ( $W_{W,full}$ )	L/cycle	X,X
Water consumption of the eco 40-60 programme at half rated capacity ( $W_{W,1/2}$ )	L/cycle	X,X
Water consumption of the eco 40-60 programme at quarter rated capacity ( $W_{W,1/4}$ )	L/cycle	X,X
Weighted water consumption ( $W_W$ )	L/cycle	X
Washing efficiency index of the eco 40-60 programme at rated capacity ( $I_W$ )	—	X,XX
Washing efficiency index of the eco 40-60 programme at half rated capacity ( $I_W$ )	—	X,XX
Washing efficiency index of the eco 40-60 programme at quarter rated capacity ( $I_W$ )	—	X,XX
Rinsing effectiveness of the eco 40-60 programme at rated capacity ( $I_R$ )	g/kg	X,X
Rinsing effectiveness of the eco 40-60 programme at half rated capacity ( $I_R$ )	g/kg	X,X
Rinsing effectiveness of the eco 40-60 programme at quarter rated capacity ( $I_R$ )	g/kg	X,X

▼B

PARAMETER	UNIT	VALUE
Programme duration of the eco 40-60 programme at rated capacity ( $t_w$ )	h:min	X:XX
Programme duration of the eco 40-60 programme at half rated capacity ( $t_w$ )	h:min	X:XX
Programme duration of the eco 40-60 programme at quarter rated capacity ( $t_w$ )	h:min	X:XX
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at rated capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at half rated capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at quarter rated capacity (T)	°C	X
Spin speed in the spinning phase of the eco 40-60 programme at rated capacity (S)	rpm	X
Spin speed in the spinning phase of the eco 40-60 programme at half rated capacity (S)	rpm	X
Spin speed in the spinning phase of the eco 40-60 programme at quarter rated capacity (S)	rpm	X
Remaining moisture content for the eco 40-60 programme at rated capacity ( $D_{full}$ )	%	X
Remaining moisture content for the eco 40-60 programme at half rated capacity ( $D_{1/2}$ )	%	X
Remaining moisture content for the eco 40-60 programme at quarter rated capacity ( $D_{1/4}$ )	%	X
Weighted remaining moisture content (D)	%	X
Airborne acoustical noise emissions during eco 40-60 programme (spinning phase)	dB(A) re 1 pW	X
Power consumption in 'off mode' ( $P_o$ )	W	X,XX
Power consumption in 'standby mode' ( $P_{sm}$ )	W	X,XX
Does 'standby mode' include the display of information?	—	Yes/No
Power consumption in 'standby mode' ( $P_{sm}$ ) in condition of networked standby (if applicable)	W	X,XX
Power consumption in 'delay start' ( $P_{ds}$ ) (if applicable)	W	X,XX

- (c) where appropriate, the references of the harmonised standards applied;
- (d) where appropriate, the other technical standards and specifications used;
- (e) the details and the results of calculations performed in accordance with Annex IV;
- (f) a list of all equivalent models including the model identifier.

**▼B**

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

- (a) information as set out in point 2 of Annex V;
- (b) information as set out in Table 8; these values are considered as the declared values for the purpose of the verification procedure in Annex IX;

Table 8

**Information to be included in the technical documentation for household washer-dryers**

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

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PARAMETER	UNIT	VALUE
Weighted water consumption of the wash and dry cycle ( $W_{WD}$ )	L/cycle	X
Washing efficiency index of the eco 40-60 programme at rated washing capacity ( $I_w$ )	—	X,XX
Washing efficiency index of the eco 40-60 programme at half rated washing capacity ( $I_w$ )	—	X,XX
Washing efficiency index of the eco 40-60 programme at quarter rated washing capacity ( $I_w$ )	—	X,XX
Washing efficiency index of the wash and dry cycle at rated capacity ( $J_w$ )	—	X,XX
Washing efficiency index of the wash and dry cycle at half rated capacity ( $J_w$ )	—	X,XX
Rinsing effectiveness of the eco 40-60 programme at rated washing capacity ( $I_R$ )	g/kg	X,X
Rinsing effectiveness of the eco 40-60 programme at half rated washing capacity ( $I_R$ )	g/kg	X,X
Rinsing effectiveness of the eco 40-60 programme at quarter rated washing capacity ( $I_R$ )	g/kg	X,X
Rinsing effectiveness of the wash and dry cycle at rated capacity ( $J_R$ )	g/kg	X,X
Rinsing effectiveness of the wash and dry cycle at half rated capacity ( $J_R$ )	g/kg	X,X
Programme duration of the eco 40-60 programme at rated washing capacity ( $t_w$ )	h:min	X:XX
Programme duration of the eco 40-60 programme at half rated washing capacity ( $t_w$ )	h:min	X:XX
Programme duration of the eco 40-60 programme at quarter rated washing capacity ( $t_w$ )	h:min	X:XX
Cycle duration of the wash and dry cycle at rated capacity ( $t_{WD}$ )	h:min	X:XX
Cycle duration of the wash and dry cycle at half rated capacity ( $t_{WD}$ )	h:min	X:XX
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at rated washing capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at half rated washing capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load during eco 40-60 programme at quarter rated washing capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load in the washing cycle during wash and dry cycle at rated capacity (T)	°C	X
Temperature reached for minimum 5 min inside the load in the washing cycle during wash and dry cycle at half rated capacity (T)	°C	X



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PARAMETER	UNIT	VALUE
Spin speed in the spinning phase of the eco 40-60 programme at rated washing capacity (S)	rpm	X
Spin speed in the spinning phase of the eco 40-60 programme at half rated washing capacity (S)	rpm	X
Spin speed in the spinning phase of the eco 40-60 programme at quarter rated washing capacity (S)	rpm	X
Remaining moisture content for the eco 40-60 programme at rated washing capacity ( $D_{full}$ )	%	X
Remaining moisture content for the eco 40-60 programme at half rated washing capacity ( $D_{1/2}$ )	%	X
Remaining moisture content for the eco 40-60 programme at quarter rated washing capacity ( $D_{1/4}$ )	%	X
Weighted remaining moisture content after washing (D)	%	X
Final moisture content after drying	%	X,X
Airborne acoustical noise emissions during eco 40-60 programme (spinning phase)	dB(A) re 1 pW	X
Power consumption in 'off mode' ( $P_o$ )	W	X,XX
Power consumption in 'standby mode' ( $P_{sm}$ )	W	X,XX
Does 'standby mode' include the display of information?	—	Yes/No
Power consumption in 'standby mode' ( $P_{sm}$ ) in condition of networked standby (if applicable)	W	X,XX
Power consumption in 'delay start' ( $P_{ds}$ ) (if applicable)	W	X,XX

- (c) where appropriate, the references of the harmonised standards applied;
- (d) where appropriate, the other technical standards and specifications used;
- (e) the details and the results of calculations performed in accordance with Annex IV;
- (f) a list of all equivalent models including the model identifier.
3. Where the information included in the technical documentation for a particular household washing machine or household washer-dryer model has been obtained by any of the following methods, or both:
- from a model that has the same technical characteristics relevant for the technical information to be provided but is produced by a different supplier,
  - by calculation on the basis of design or extrapolation from another model of the same or a different supplier,

the technical documentation shall include the details of such calculation, the assessment undertaken by suppliers to verify the accuracy of the calculation and, where appropriate, the declaration of identity between the models of different suppliers.



## ANNEX VII

**Information to be provided in visual advertisements, in technical promotional material in distance selling and in telemarketing, except distance selling on the internet**

1. In visual advertisements for household washing machines or household washer-dryers, for the purposes of ensuring conformity with the requirements laid down in point 1(e) of Article 3 and point (c) of Article 4, the energy efficiency class and the range of energy efficiency classes available on the label shall be shown as set out in point 4 of this Annex.
2. In technical promotional material for household washing machines or household washer-dryers, for the purposes of ensuring conformity with the requirements laid down in point 1(f) of Article 3 and point (d) of Article 4, the energy efficiency class and the range of energy efficiency classes available on the label shall be shown as set out in point 4 of this Annex.
3. Any paper-based distance selling of household washing machines or household washer-dryers must show the energy efficiency class and the range of energy efficiency classes available on the label as set out in point 4 of this Annex.
4. The energy efficiency class and the range of energy efficiency classes shall be shown, as indicated in Figure 1, with:
  - (a) for household washing machines: an arrow, containing the letter of the energy efficiency class in 100 % white, Calibri Bold and in a font size at least equivalent to that of the price, when the price is shown;
  - (b) for household washer-dryers: an arrow, containing the letter of the energy efficiency class for the complete cycle in 100 % white, Calibri Bold and in a font size at least equivalent to that of the price, when the price is shown;
  - (c) the colour of the arrow matching the colour of the energy efficiency class;
  - (d) the range of available energy efficiency classes in 100 % black; and,
  - (e) the size shall be such that the arrow is clearly visible and legible. The letter in the energy efficiency class arrow shall be positioned in the centre of the rectangular part of the arrow, with a border of 0,5 pt in 100 % black placed around the arrow and the letter of the energy efficiency class.

By way of derogation, if the visual advertisement, technical promotional material or paper-based distance selling is printed in monochrome, the arrow can be in monochrome in that visual advertisement, technical promotional material or paper-based distance selling.

Figure 1

**Coloured/monochrome left/right arrow, with range of energy efficiency classes indicated**

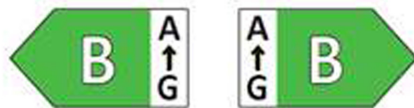


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5. Telemarketing-based distance selling must specifically inform the customer of the energy efficiency classes of the product and of the range of energy efficiency classes available on the label, and that the customer can access the label and the product information sheet through the product database website, or by requesting a printed copy.
6. For all the situations mentioned in points 1 to 3 and 5, it must be possible for the customer to obtain, on request, a printed copy of the label and the product information sheet.

**▼B***ANNEX VIII***Information to be provided in the case of distance selling through the internet**

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 IV. 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 nested display is applied, the label shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the image.
2. The image used for accessing the label in the case of nested display, as indicated in Figure 2, shall:
  - (a) for household washing machines: be an arrow in the colour corresponding to the energy efficiency class of the product on the label;
  - (b) for household washer-dryers: be an arrow in the colour corresponding to the energy efficiency class of the complete cycle on the label;
  - (c) indicate the energy efficiency class of the product on the arrow in 100 % white, Calibri Bold and in a font size equivalent to that of the price;
  - (d) have the range of available energy efficiency classes in 100 % black; and,
  - (e) have one of the following two formats, and its size shall be such that the arrow is clearly visible and legible. The letter in the energy efficiency class arrow shall be positioned in the centre of the rectangular part of the arrow, with a visible border in 100 % black placed around the arrow and the letter of the energy efficiency class:

*Figure 2***Coloured left/right arrow, with range of energy efficiency classes indicated**

3. In the case of nested display, the sequence of display of the label shall be as follows:
  - (a) the images referred to in point 2 of this Annex shall be shown on the display mechanism in proximity to the price of the product;
  - (b) the images shall link to the label set out in Annex III;
  - (c) the label shall be displayed after a mouse click, mouse roll-over or tactile screen expansion on the image;
  - (d) the label shall be displayed by pop up, new tab, new page or inset screen display;
  - (e) for magnification of the label on tactile screens, the device conventions for tactile magnification shall apply;

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- (f) the label shall cease to be displayed by means of a close option or other standard closing mechanism;
  - (g) the alternative text for the graphic, to be displayed on failure to display the label, shall be the energy efficiency classes of the product in a font size equivalent to that of the price.
4. The electronic product information sheet made available by suppliers in accordance with point 1(h) 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 product information sheet is clearly visible and legible. The product information sheet may be displayed using a nested display or by referring to the product database, in which case the link used for accessing the product information sheet shall clearly and legibly indicate 'Product information sheet'. If a nested display is used, the product information sheet shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the link.

*ANNEX IX***Verification procedure for market surveillance purposes**

The verification tolerances set out in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the supplier as an allowed tolerance to establish the values in the technical documentation. The values and classes on the label or in the product information sheet shall not be more favourable for the supplier than the values reported 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.

When verifying the compliance of a product model with the requirements laid down in this Regulation, the authorities of Member States shall apply the following procedure:

1. The Member State authorities shall verify one single unit of the model.
2. The model shall be considered to comply with the applicable requirements if:
  - (a) the values given in the technical documentation pursuant to Article 3(3) of Regulation (EU) 2017/1369 (declared values), and, where applicable, the values used to calculate these values, are not more favourable for the supplier than the corresponding values given in the test reports; and
  - (b) the values published on the label and in the product information sheet are not more favourable for the supplier than the declared values, and the indicated energy efficiency class, the airborne acoustical noise emission class and the spin drying efficiency class are not more favourable for the supplier than the class determined by the declared values; and
  - (c) when the Member State authorities test the unit of the model, the determined values (the values of the relevant parameters as measured in testing and the values calculated from these measurements) comply with the respective verification tolerances as given in Table 9.
3. If the results referred to in points 2(a) or (b) are not achieved, the model and all equivalent models shall be considered not to comply with this Regulation.
4. If the result referred to in point 2(c) is not achieved, the Member State authorities shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more equivalent models.
5. The model shall be considered to comply with the applicable requirements if for these three units, the arithmetical mean of the determined values complies with the respective tolerances given in Table 9.
6. If the result referred to in point 5 is not achieved, the model and all equivalent models shall be considered not to comply with this Regulation.
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 and 6.

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The Member State authorities shall use the measurement and calculation methods set out in Annex IV.

The Member State authorities shall only apply the verification tolerances that are set out in Table 9 and shall only use the procedure described in points 1 to 7 for the requirements referred to in this Annex. For the parameters in Table 9, no other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

*Table 9*  
**Verification tolerances**

Parameter	Verification tolerances
$E_{W,full}$ , $E_{W,1/2}$ , $E_{W,1/4}$ , $E_{WD,full}$ , $E_{WD,1/2}$	The determined value (*) shall not exceed the declared value of $E_{W,full}$ , $E_{W,1/2}$ , $E_{W,1/4}$ , $E_{WD,full}$ and $E_{WD,1/2}$ , respectively, by more than 10 %.
Weighted energy consumption ( $E_W$ and $E_{WD}$ )	The determined value (*) shall not exceed the declared value of $E_W$ , respectively $E_{WD}$ , by more than 10 %.
$W_{W,full}$ , $W_{W,1/2}$ , $W_{W,1/4}$ , $W_{WD,full}$ , $W_{WD,1/2}$	The determined value (*) shall not exceed the declared value of $W_{W,full}$ , $W_{W,1/2}$ , $W_{W,1/4}$ , $W_{WD,full}$ and $W_{WD,1/2}$ , respectively, by more than 10 %.
Weighted water consumption ( $W_W$ and $W_{WD}$ )	The determined value (*) shall not exceed the declared value of $W_W$ , respectively $W_{WD}$ , by more than 10 %.
Washing efficiency index ( $I_W$ and $J_W$ )	The determined value (*) shall not be less than the declared value of $I_W$ , respectively $J_W$ , by more than 8 %.
Rinsing effectiveness ( $I_R$ and $J_R$ )	The determined value (*) shall not exceed the declared value of $I_R$ , respectively $J_R$ , by more than 1,0 g/kg.
programme or cycle duration	The determined value (*) of the programme or cycle duration shall not exceed the declared value by more than 5 % or by more than 10 minutes, whichever is smaller.
Maximum temperature inside the laundry (T)	The determined value (*) shall not be less than the declared values of T by more than 5K and it shall not exceed the declared value of T by more than 5K.
$D_{full}$ , $D_{1/2}$ , $D_{1/4}$	The determined value (*) shall not exceed the declared value of $D_{full}$ , $D_{1/2}$ and $D_{1/4}$ , respectively, by more than 10 %.
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	The determined value (*) shall not exceed 3,0 %.
Spin speed (S)	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.

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Parameter	Verification tolerances
Power consumption in standby mode ( $P_{sm}$ )	The determined value (*) of power consumption $P_{sm}$ shall not exceed the declared value by more than 10 % if the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
Power consumption in delay start ( $P_{ds}$ )	The determined value (*) of power consumption $P_{ds}$ shall not exceed the declared value by more than 10 % if the declared value is higher than 1,00 W, or by more than 0,10 W if the declared value is lower than or equal to 1,00 W.
Airborne acoustical noise emissions	The determined value (*) shall not exceed the declared value by more than 2 dB re 1 pW.

(\*) 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 X***Multi-drum household washing machines and multi-drum household washer-dryers**

The provisions of Annexes II and III, following the measurement and calculation methods set out in Annex IV, shall apply to any drum with a rated capacity higher than or equal to 2 kg of multi-drum household washing machines and to any drum with a rated washing capacity higher than or equal to 2 kg of multi-drum household washer-dryers.

The provisions of Annexes II and III shall apply to each of the drums independently, except when the drums are built in the same casing and can, in the eco 40-60 programme or in the wash and dry cycle, only operate simultaneously. In the latter case, these provisions shall apply to the multi-drum household washing machine or to the multi-drum household washer-dryer as a whole, as follows:

- (a) the rated washing capacity is the sum of the rated washing capacities of each drum; for multi-drum household washer-dryers, the rated capacity is the sum of the rated capacities of each drum;
- (b) the energy and water consumption of the multi-drum household washing machine and of the washing cycle of the multi-drum household washer-dryer is the sum of the energy consumption, or water consumption, of each drum;
- (c) the energy and water consumption of the complete cycle of the multi-drum household washer-dryer is the sum of the energy consumption, or water consumption, of each drum;
- (d) the Energy Efficiency Index ( $EEI_w$ ) is calculated using the rated washing capacity and energy consumption; for multi-drum household washer-dryers, the Energy Efficiency Index ( $EEI_{WD}$ ) is calculated using the rated capacity and energy consumption;
- (e) the duration is the duration of the longest eco 40-60 programme, or wash and dry cycle, operating in each drum;
- (f) the residual moisture content after washing is calculated as the weighted average, according to each drum's rated capacity;
- (g) for household multi-drum washer-dryers, the final moisture content after drying is measured individually for each drum;
- (h) the measurement of low power modes, of the acoustic airborne noise emissions and the acoustic airborne noise emissions class apply to the whole household washing machine.

The product information sheet and the technical documentation shall include and present jointly the information required under Annex V and Annex VI, respectively, for all the drums to which the provisions of this annex apply.

The provisions of Annexes VII and VIII apply to each of the drums to which the provisions of this annex apply.

The verification procedure set out in Annex IX applies to the multi-drum household washing machine and to the multi-drum household washer-dryer as a whole, with the verification tolerances applying to each of the parameters determined in application of this annex.