

**DRAFT ANNEXES**

**OF**

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

**supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household dishwashers**

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## **ANNEX I**

### **Definitions**

In addition to the definitions laid down in article 2, the following definitions shall apply for the purpose of this Regulation:

- (1) 'place settings' means a defined set of crockery, glass and cutlery for use by one person;
- (2) 'rated capacity' means the maximum number of place settings together with the serving pieces, as stated by the supplier, which can be treated in a household dishwasher on the programme selected, when loaded in accordance with the supplier's instructions;
- (3) 'programme time' means the time that elapses from the initiation of the programme until the completion of the programme, excluding any end-user-programmed delay;
- (4) 'ECO programme or cycle' means the most efficient cleaning programme or cycle, in terms of combined energy and water consumption, that is suitable to clean normally soiled tableware, and to which the information in the label and the product information sheet relates;
- (5) 'off mode' is defined as in Regulation (EC) No 1275/2008;
- (6) 'left-on mode' means the lowest power consumption mode that may persist for an indefinite time after completion of the programme and unloading of the household dishwasher without any further intervention by the user;
- (7) 'equivalent household dishwasher' means a model of household dishwasher placed on the market with the same rated capacity, technical and performance characteristics, energy and water consumption and airborne acoustical noise emissions as another model of household dishwasher placed on the market under a different model number by the same supplier;
- (8) 'end-user' means a consumer buying or expected to buy a household dishwasher;
- (9) 'display mechanism' means any screen, including tactile screen, or other visual technology used for displaying internet content to users;
- (10) '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;
- (11) 'tactile screen' means a screen responding to touch, such as that of a tablet computer, slate computer or a smartphone;
- (12) '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.

## ANNEX II

### A. Energy efficiency classes

The energy efficiency class of a household dishwasher shall be determined on the basis of its Energy Efficiency Index (EEI) as set out in Table 1.

The Energy Efficiency Index (EEI) of a household dishwasher shall be calculated in accordance with Annex III.

*Table 1*  
*Energy efficiency classes*



<b>Energy efficiency class</b>	<b>Energy Efficiency Index</b>
A (most efficient)	$EEI < 34$
B	$34 \leq EEI < 38$
C	$38 \leq EEI < 43$
D	$43 \leq EEI < 48$
E	$48 \leq EEI < 53$
F	$53 \leq EEI < 58$
G (least efficient)	$EEI \geq 58$


### B. Acoustic airborne noise emission classes

The acoustic airborne noise emission class of a household dishwasher shall be determined on the basis of the acoustic airborne noise emissions as set out in Table 2.

The acoustic airborne emissions of a household dishwasher shall be determined in accordance with state-of-the-art of the recommended standard

*Table 2*  
*Acoustic airborne noise emission classes*

<b>Energy efficiency class</b>	<b>Noise (dB)</b>
Light 	$n < 38$ dB
Medium 	$38 \leq n < 47$

Loud 	$n \geq 47$
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### ANNEX III

#### **Method for calculating the Energy Efficiency Index**

For the calculation of the Energy Efficiency Index (EEI) of a household dishwasher model, the ECO Cycle Energy Consumption (CEC) of the household dishwasher is compared to its Standard Cycle Energy Consumption (SCEC).

- (a) The Energy Efficiency Index (EEI) is calculated as follows and rounded to one decimal place:

$$EEI = \frac{CEC}{SCEC} \times 100$$

CEC = ECO Cycle Energy Consumption of the household dishwasher, and rounded to three decimal places;

SCEC = Standard Cycle Energy Consumption of the household dishwasher, and rounded to three decimal places.

- (b) The Standard Cycle Energy Consumption (SCEC) is calculated in kWh/cycle as follows:

- (i) for household dishwashers with rated capacity  $ps \geq 11$ :

$$SCEC = 0.025 \times ps + 1.350$$

- (ii) for household dishwashers with rated capacity  $ps \leq 10$ :

$$SCEC = 0.090 \times ps + 0.450$$

where:

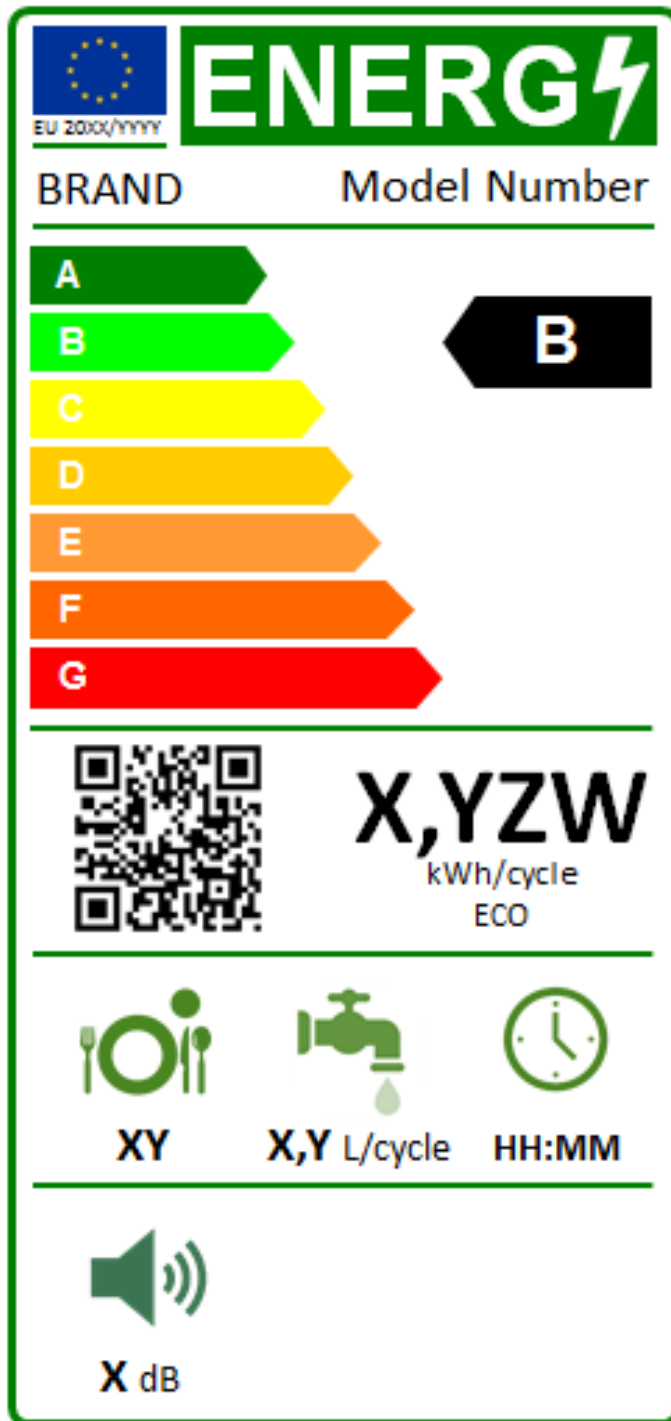
ps = number of place settings

ANNEX IV

Label

1. LABEL

(1) Label



I, II

III

X, IV

VII, V, VI

VIII, IX

(2) The following information shall be included in the label:

- I. supplier's name or trade mark;
- II. supplier's model identifier, where 'model identifier' means the code, usually alphanumeric, which distinguishes a specific household dishwasher model from other models with the same trade mark or supplier's name;
- III. the energy efficiency class determined in accordance with point 1 of Annex VI; the head of the arrow containing the energy efficiency class of the household dishwasher shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. ECO cycle energy consumption (CEC) in kWh per cycle, rounded to three decimal places ;
- V. ECO cycle water consumption (CWC) in litres per cycle, rounded to one decimal place;
- VI. the duration of the ECO cycle in hh:mm rounded to the nearest minute;
- VII. rated capacity in standard place settings, for the ECO cycle;
- VIII. airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer.;
- IX. the airborne noise emission class, determined in accordance with point B of Annex I;
- X. the QR code with access to the product information sheet.

(3) The design of the label shall be in accordance with point 2 of the Annex IV.

## 2. LABEL DESIGN

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

Whereby

- (a) The label shall be at least 110 mm wide and 220 mm high. Where the label is printed in a larger format, its content must nevertheless remain proportionate to the specifications above.
- (b) The background shall be white.
- (c) Colours shall be CMYK — cyan, magenta, yellow and black, following this example: 00-70-X-00: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black.
- (d) The label shall fulfil all of the following requirements (numbers refer to the figure above):
  1. **EU label border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.
  2. EU logo — colours: X-80-00-00 and 00-00-X-00.
  3. Energy logo: colour: X-00-00-00. Pictogram as depicted; EU logo and energy logo (combined): width: 92 mm, height: 17 mm.
  4. Sub-logos border: 1 pt — colour: Cyan 100 % — length: 92,5 mm.
  5. A-G scale  
— **Arrow:** height: 7 mm, gap: 0,75 mm — colours:  
Highest class: X-00-X-00,

- Second class: 70-00-X-00,  
Third class: 30-00-X-00,  
Fourth class: 00-00-X-00,  
Fifth class: 00-30-X-00,  
Sixth class: 00-70-X-00,  
Last class: 00-X-X-00.
- **Text:** Calibri bold 18 pt, capitals and white; ‘+’ symbols: Calibri bold 12 pt, capitals, white, aligned on a single row.
6. **Energy efficiency class**  
— Arrow: width: 26 mm, height: 14 mm, 100 % black.  
— Text: Calibri bold 29 pt, capitals and white; ‘+’ symbols: Calibri bold 18 pt, capitals, white, aligned on a single row.
7. **Energy**  
— Text: Calibri regular 11 pt, capitals, 100 % black.
8. **Annual energy consumption**  
— Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.  
— Value: Calibri bold 37 pt, 100 % black;  
— Second line: Calibri regular 17 pt, 100 % black.
9. **Annual water consumption**  
— Pictogram as depicted  
— Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.  
— Value: Calibri bold 24 pt, 100 % black;  
— Second line: Calibri regular 16 pt, 100 % black.
10. **Drying efficiency class**  
— Pictogram as depicted  
— Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.  
— Value: Calibri regular 16 pt, horizontal scale 75 %, 100 % black and Calibri Bold 22 pt, horizontal scale 75 %, 100 % black.
11. **Rated capacity**  
— Pictogram as depicted  
— Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.  
— Value: Calibri bold 24 pt, 100 % black;  
— Second line: Calibri regular 16 pt, 100 % black.
12. **Noise emissions**  
— Pictogram as depicted  
— Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.  
— Value: Calibri bold 24 pt, 100 % black; and Calibri regular 16 pt, 100 % black.
13. **Supplier’s name or trade mark**
14. **Supplier’s model identifier**
15. The supplier’s name or trademark and model identifier should fit in a space of 92 × 15 mm.
16. **Numbering and year of the Regulation:** Calibri bold 9 pt, 100 % black.



## ANNEX V

### **Product information sheet**

1. The information in the product information sheet of household dishwashers shall be provided in the following order and shall be included in the product brochure or other literature provided with the product:
  - (a) supplier's name or trade mark;
  - (b) supplier's model identifier, meaning the code, usually alphanumeric, which distinguishes a specific household dishwasher model from other models with the same trade mark or supplier's name;
  - (c) rated capacity, in standard place settings, for the ECO cycle;
  - (d) energy efficiency class, in accordance with Annex VI;
  - (e) ECO cycle energy consumption (CEC) in kWh per cycle, rounded to three decimal places. It shall be described as 'Energy consumption "W,XYZ" kWh per cycle, based on the ECO cycle using cold water fill. Actual energy consumption will depend on how the appliance is used';
  - (f) the power consumption in off-mode and left-on mode ( $P_o$  and  $P_l$ ) in W, rounded to the nearest integer; and in a condition providing networked standby, the power consumption in networked standby ( $P_n$ ) in W, rounded to the nearest integer;
  - (g) 'left-on mode' duration, in minutes and rounded to the nearest integer;
  - (h) ECO cycle water consumption (CWC), in litres per cycle, rounded to one decimal place. 'Water consumption "X,Y" litres per cycle, based on the ECO cycle. Actual water consumption will depend on how the appliance is used and on the hardness of the water;
  - (i) indication that the 'ECO programme' is the standard cleaning cycle to which the information in the label and the product information sheet relates, that this programme is suitable to clean normally soiled tableware, and that it is the most efficient programme in terms of combined energy and water consumption;
  - (j) programme time for the ECO cycle, in hh:mm and rounded to the nearest minute;
  - (k) airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer;
  - (l) if the household dishwasher is intended to be built-in, an indication to this effect.
2. One product information sheet may cover a number of household dishwasher models supplied by the same supplier.
3. The information contained in the product information sheet may be given in the form of a copy of the label, either in colour or in black and white. Where this is the case, the information listed in point 1 not already displayed on the label shall also be provided.

## ANNEX VI

### **Technical documentation**

1. The technical documentation referred to in Article 3(d) shall include:
  - (a) the name and address of the supplier;
  - (b) a general description of the dishwasher model, sufficient for it to be unequivocally and easily identified;
  - (c) where appropriate, the references of the harmonised standards applied;
  - (d) where appropriate, the other technical standards and specifications used;
  - (e) identification and signature of the person empowered to bind the supplier;
  - (f) technical parameters for measurements as follows:
    - (i) energy consumption;
    - (ii) water consumption;
    - (iii) programme time;
    - (iv) drying efficiency;
    - (v) power consumption in 'off-mode';
    - (vi) power consumption of the 'networked standby';
    - (vii) power consumption in 'left-on mode';
    - (viii) 'left-on mode' duration;
    - (ix) airborne acoustical noise emissions;
  - (g) the results of calculations performed in accordance with Annex VII.
2. Where the information included in the technical documentation file for a particular household dishwasher model has been obtained by calculation on the basis of design, or extrapolation from other equivalent household dishwashers, or both, the documentation shall include details of such calculations or extrapolations, or both, and of tests undertaken by suppliers to verify the accuracy of the calculations undertaken. The information shall also include a list of all other equivalent household dishwasher models where the information was obtained on the same basis.

## ANNEX VII

### **Information to be provided in the case of distance selling, except distance selling on the Internet**

1. Any paper based distance selling must show the energy class and the range of available efficiency classes as following the example below, with the colour of the arrow matching the letter of the energy class:



It must be possible for the customer to access the full label and the product information sheet through a free access website, or to request a printed copy.

2. Telemarketing based distance selling must specifically inform the customer of the energy class of the product and the range of energy classes available on the label, and that they can access the full label and the product information sheet through a free access website, or to request a printed copy.

## ANNEX VIII

### **Information to be provided in the case of sale, hire or hire-purchase through the internet**

1. For the purpose of points 2 to 5 of this Annex the following definitions shall apply:
  - (a) ‘display mechanism’ means any screen, including tactile screen and visual technology used for displaying internet content to end-users;
  - (b) ‘nested display’ means visual interface where an image or data set is accessed by mouse click, mouse roll-over or tactile screen expansion of another image or data set;
  - (c) ‘tactile screen’ means a screen responding to touch, such as that of a tablet computer, slate computer or a smartphone;
  - (d) ‘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.
2. The appropriate label made available by suppliers in accordance with Article 3(g) 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 point 2 of 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 3 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.
3. The image used for accessing the label in the case of nested display shall:
  - (a) be an arrow in the colour corresponding to the energy efficiency class of the product on the label;
  - (b) indicate on the arrow energy efficiency class of the product in white in a font size equivalent to that of the price; and
  - (c) have one of the following two formats:



4. In the case of nested display, the sequence of display of the label shall be as follows:
  - (a) the image referred to in point 3 of this Annex shall be shown on the display mechanism in proximity to the price of the product;
  - (b) the image shall link to the label;
  - (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;

- (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 class of the product in a font size equivalent to that of the price.
5. The appropriate product information sheet made available by suppliers in accordance with Article 3(h) 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, in which case the link used for accessing the product information sheet shall clearly and legibly indicate 'Product information sheet'. If 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

### *Product compliance verification by market surveillance authorities*

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 fiche shall not be more favourable for the supplier than the values reported in the technical documentation.

When verifying the compliance of a product model with the requirements laid down in this Regulation, for the requirements referred to in this Annex, the authorities of the 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 fiche are not more favourable for the supplier than the declared values, and the indicated energy efficiency class is 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 3.
- (3) If the results referred to in points 2(a) or (b) are not achieved, the model and all models that have been listed as equivalent household dishwasher models in the supplier's technical documentation 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 different models that have been listed as equivalent models in the supplier's technical documentation.
- (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 3.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household dishwasher models in the supplier's technical documentation 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.

Member States' authorities shall use measurement procedures which take into account the generally recognised, state-of-the-art, reliable, accurate and reproducible measurement methods, including methods set out in documents whose reference numbers have been

published for that purpose in the *Official Journal of the European Union*. The Member State authorities shall use the measurement and calculation methods set out in Annex III.

The Member State authorities shall only apply the verification tolerances that are set out in Table 3 and shall only use the procedure described in points 1 to 7 for the requirements referred to in this Annex. No other tolerances, such as those set out in harmonised standards or in any other measurement method, shall be applied.

Table 3

Measured parameter	Verification tolerances
ECO cycle energy consumption (CEC)	The determined value shall not exceed the declared value of CEC by more than 5 %. Where three additional units need to be selected, the arithmetic mean of the determined values of these three units shall not exceed the declared value of CEC by more than 3 %.
ECO cycle water consumption (CWC)	The determined value shall not exceed the declared value of CWC by more than 5 %. Where three additional units need to be selected, the arithmetic mean of the determined values of these three units shall not exceed the declared value of CWC by more than 3 %.
Programme time ( $T_t$ )	The determined value shall not exceed the declared values $T_t$ by more than 5 %.
Power consumption in off mode and left-on mode ( $P_o$ and $P_l$ )	The determined values of power consumption $P_o$ and $P_l$ of more than 0.50 W shall not exceed the declared values of $P_o$ and $P_l$ by more than 10 %. The determined values of power consumption $P_o$ and $P_l$ of less than or equal to 0.50 W shall not exceed the declared values of $P_o$ and $P_l$ by more than 0.050 W.
Power consumption in modes before the initiation of the cleaning programme ( $P_b$ )	The determined values of power consumption $P_b$ of more than 1W shall not exceed the declared values of $P_b$ by more than 10%. The determined values of power consumption $P_b$ of less than or equal to 1 W shall not exceed the declared values of $P_b$ by more than 0.10W
Power consumption in networked-standby mode ( $P_n$ )	The determined values of power consumption $P_n$ of more than 2W shall not exceed the declared values of $P_n$ by more than 10%. The determined values of power consumption $P_n$ of less than or equal to 2 W shall not exceed the declared values of $P_n$ by more than 0.20W
Duration of left-on mode ( $T_l$ )	The determined value shall not exceed the declared value of $T_l$ by more than 10 %.
Airborne acoustical noise emissions	The measured value shall meet the rated value.

## ANNEX X

### **Displaying the energy class and the range of efficiency classes in visual advertisements and in promotional material**

1. For the purposes of ensuring conformity with the requirements laid down in Article 3(1)(e) and Article 4(1)(c), the energy class and the range of efficiency classes available on the label shall be shown on visual advertisements as follows, with the colour of the arrow matching the letter of the energy class:



2. For the purposes of ensuring conformity with the requirements laid down in Article 3(1)(f) and Article 4(1)(d) the energy class and the range of efficiency classes available on the label shall be shown in promotional material as follows, with the colour of the arrow matching the letter of the energy class

