

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 washing machines and washer-dryers,

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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) ‘Washing cycle’ means a complete washing process as defined by the required programme, consisting of a series of different operations (wash, rinse, spin);
- (2) ‘Drying cycle’ means a complete drying process as defined by the required programme, consisting of a series of different operations (heat, cool down);
- (3) ‘Complete operation cycle’ means a washing and drying process, consisting of a washing and a drying cycle;
- (4) ‘Continuous operation cycle’ means a complete operation cycle without interruption of the process or additional action by an operator;
- (5) ‘Rated capacity’ means the maximum mass in kilograms stated by the manufacturer at 0.5 kg intervals of dry textiles of a particular type, which can be treated in one complete cycle of a household washing machine or a household washer-drier respectively on the selected programme, when loaded in accordance with the manufacturer’s instructions;
- (6) ‘Rated washing capacity’ means the maximum mass in kilograms stated by the manufacturer at 0.5 kg intervals of dry textiles of a particular type, which can be washed in one complete cycle of a household washing machine on the selected programme, when loaded in accordance with the manufacturer’s instructions;
- (7) ‘Rated drying capacity’ means the maximum mass in kilograms stated by the manufacturer at 0.5 kg intervals of dry textiles of a particular type, which can be dried in one complete drying cycle of a household washer-drier on the selected programme, when loaded in accordance with the manufacturer’s instructions;
- (8) ‘Rated washing-drying capacity’ means the maximum mass in kilograms stated by the manufacturer at 0.5 kg intervals of dry textiles of a particular type, which can be washed and dried in one continuous operation cycle of a household washer-dryer on the selected programme, when loaded in accordance with the manufacturer’s instructions;
- (9) ‘Remaining moisture content’ means for household washing machines the amount of moisture contained in the load at the end of the spinning phase, and for household washer-dryers the amount of moisture contained in the load at the end of the drying phase;
- (10) ‘Partial load’ means part of the full rated capacity of a household washing machine or household washer-dryer for a given programme, e.g. half or a quarter of the load;
- (11) ‘Off-mode’ means a condition where the machine is switched off using appliance controls or switches accessible to and intended for operation by the user during normal use to attain the lowest power consumption that may persist for an indefinite time while the machine is connected to a mains power source and used in accordance with the manufacturer’s instructions; where there are no controls or switches

accessible to the user, 'off-mode' means the condition reached after the machine reverts to a steady-state power consumption on its own;

- (12) '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 machine without any further intervention of the user;
- (13) 'Equivalent washing machine or washer-dryer' means a model of household washing machine, or a household washer-dryer respectively, placed on the market with the same rated capacity, technical and performance characteristics, energy and water consumption and airborne acoustical noise emissions during washing, spinning, or drying as another model of household washing machine, or household washer-dryer respectively, placed on the market under a different model? number by the same manufacturer;
- (14) 'end-user' means a consumer buying or expected to buy a household washing machine or a household washer-dryer;
- (15) 'display mechanism' means any screen, including tactile screen, or other visual technology used for displaying internet content to users;
- (16) '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;
- (17) 'tactile screen' means a screen responding to touch, such as that of a tablet computer, slate computer or a smartphone;
- (18) '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 washing machine and of the washing cycle of a household washer-dryer shall be determined on the basis of its Energy Efficiency Index (EEI) as set out in Annex III(1)(A). The energy efficiency class of a household washer-dryer shall be determined on the basis of its Energy Efficiency Index (EEI) as set out in Annex III(1)(B) .

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)
A (most efficient)	$EEI < 30$
B	$30 \leq EEI < 43$
C	$43 \leq EEI < 59$
D	$59 \leq EEI < 80$
E	$80 \leq EEI < 105$
F	$105 \leq EEI < 135$
G (least efficient)	$EEI \geq 135$

Table 2: Energy efficiency classes of household washer-dryers

Energy Efficiency Class	Energy Efficiency Index (C)
A	$C < 0.29$
B	$0.29 \leq C < 0.37$
C	$0.37 \leq C < 0.48$
D	$0.48 \leq C < 0.58$
E	$0.58 \leq C < 0.71$
F	$0.71 \leq C < 0.86$
G	$C \geq 0.86$

B. Spin-drying efficiency classes

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

The remaining moisture content (D) of a household washing machine and of the washing cycle of household washer-dryers shall be determined in accordance with point 3 of Annex III.

Table 3: Spin-drying efficiency classes

Spin-drying efficiency class	Remaining moisture content (%)
A (most efficient)	$D < 45$
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 (least efficient)	$D \geq 90$

C. Acoustic airborne noise emission classes

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

The acoustic airborne noise emissions of a household washing machine and of the washing cycle of household washer-dryers shall be determined in accordance with state-of-the-art of the recommended standard.

The acoustic airborne noise emission class of a household washer-dryer shall be determined on the basis of the acoustic airborne noise emissions as set out in Table 5.

The acoustic airborne noise emission class of a household washer-dryer shall be determined in accordance with state-of-the-art of the recommended standard.

Table 4: Acoustic airborne noise emission classes for washing machines

Phase	Acoustic airborne noise emission class	Noise (dB)
Washing	Light	$n < 51$
	Medium	$51 \leq n < 57$
	Loud	$n \geq 57$
Spinning	Light	$n < 74$
	Medium	$74 \leq n < 77$
	Loud	$n \geq 77$

Table 5: Acoustic airborne noise emission classes for washer-dryers

Phase	Acoustic airborne noise emission class	Noise (dB)
Washing	Light	$n < 51$
	Medium	$51 \leq n < 57$
	Loud	$n \geq 57$
Spinning	Light	$n < 74$
	Medium	$74 \leq n < 77$
	Loud	$n \geq 77$
Drying	Light	$n < 59$
	Medium	$59 \leq n < 64$
	Loud	$n \geq 64$

ANNEX III

Measurement and calculation methods

1. CALCULATION OF THE ENERGY EFFICIENCY INDEX

A. *Energy Efficiency Index of household washing machines and the washing cycle of household washer-dryers*

For the calculation of the Energy Efficiency Index (EEI) of a household washing machine model or the washing cycle of a household washer-dryer model, the weighted energy consumption of the 'cotton 40°C' programme at full and partial loads is compared to its standard energy consumption.

(a) The Energy Efficiency Index (EEI) is calculated as follows, and is rounded to one decimal place¹:

$$EEI = \frac{E_t}{SCE_c} \times 100$$

where:

E_t = weighted cycle energy consumption of the household washing machine or the washing cycle of the household washer-dryer;

SCE_c = standard cycle energy consumption of the household washing machine or the washing cycle of the household washer-dryer.

(b) The standard cycle energy consumption (SEC_c) is calculated in kWh per cycle and rounded to two decimal places as follows:

$$SCE_{c, 40C} = 0.08702 \times c + 0.18964$$

where:

c is the rated capacity of the household washing machine or the rated washing capacity of the washer-dryer for the cotton 40 °C programme.

(c) The weighted energy consumption (E_t) is calculated in kWh per cycle as follows and rounded to three decimal places:

$$E_t = A \times E_{t,40,full} + B \times E_{t,40,\frac{1}{2}load} + C \times E_{t,40,\frac{1}{4}}$$

where:

¹ Numbers shall be rounded to the nearest number in accordance with B.3 Rule B of ISO 80000-1:2009. If the rounding takes place to the right of the comma, the omitted places shall not be filled with zeros.

$E_{t,40,full}$ is the energy consumption of the cotton 40 °C programme at full rated washing capacity;

$E_{t,40,1/2}$ is the energy consumption of the cotton 40 °C programme at half rated washing capacity;

$E_{t,40,1/4}$ is the energy consumption of the cotton 40 °C programme at a quarter of the rated washing capacity;

A is the weighting loading factor for the full rated washing capacity;

B is the weighting loading factor for the half rated washing capacity;

C is the weighting loading factor for a quarter of rated washing capacity.

The values of the weighting loading factors are as follows:

Table 6. Weighting loading factors depending on the rated capacity of the washing machine

Rated capacity (kg)	A	B	C
$c \leq 5$ kg	0,343	0,428	0,229
$5 \text{ kg} < c \leq 10$ kg	0,286	0,428	0,286
> 10 kg	0,229	0,428	0,343

B. Energy Efficiency Index of the complete operation cycle of household washer-dryers

For the calculation of the Energy Efficiency Index (C) of the complete operation cycle of a household washer-dryer, the energy consumption of the 'cotton 40 °C' programme in combination with a drying cycle to cupboard dry at full and half load is compared to the standard cycle energy consumption. Should the washer-dryer offer a continuous operation cycle, this shall be used. If not the segmented operation cycle shall be used.

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

$$C = \frac{E_t}{c}$$

where:

E_t is cycle energy consumption of the household washer-dryer;

c is the rated washing-drying capacity of a complete operation cycle or the rated drying capacity of a segmented operation cycle of the household washer-dryer.

- (b) The weighted energy consumption (E_t) is calculated in kWh per cycle as follows and rounded to three decimal places:

$$E_t = \frac{[3 \times E_{t,40,full} + 2 \times E_{t,40,1/2load}]}{5}$$

where:

$E_{t,40,full}$ is the energy consumption of the complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at rated washing-drying capacity; or at rated drying capacity if a segmented operation cycle is used;

$E_{t,40,1/2}$ is the energy consumption of the complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at half rated washing-drying capacity; or at half rated drying capacity if a segmented operation cycle is used.

2. CALCULATION OF THE WEIGHTED WATER CONSUMPTION

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

$$W_t = (A \times W_{t,40,full} + B \times W_{t,40,1/2} + C \times W_{t,40,1/4})$$

where:

$W_{t,40,full}$ = Water consumption of the cotton 40 °C' programme at full rated washing capacity;

$W_{t,40,1/2}$ = Water consumption of the cotton 40 °C' programme at half rated washing capacity;

$W_{t,40,1/4}$ = Water consumption of the cotton 40 °C' programme at a quarter of the rated washing capacity;

A, B and C are the weighting loading factors as described in Annex III(1)(A).

- (2) The weighted water consumption (W_t) of a complete operation cycle of a household washer-dryer is calculated as follows and rounded to the nearest integer:

$$W_t = (3 \times W_{t,40,full} + 2 \times W_{t,40,1/2})/5$$

where:

$W_{t,40,full}$ = Water consumption of the complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at rated washing-drying capacity; or at rated drying capacity if a segmented operation cycle is used;

$W_{t,40,1/2}$ = Water consumption of the complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at half rated washing-drying capacity; or at half rated drying capacity if a segmented operation cycle is used.

3. CALCULATION OF THE WEIGHTED REMAINING MOISTURE CONTENT

- (1) The weighted remaining moisture content (D) of a household washing machine and the washing cycle of a household washer-dryer is calculated in percentage as follows and rounded to the nearest whole percent:

$$D = (A \times D_{40,\text{full}} + B \times D_{40,1/2} + C \times D_{40,1/4})$$

where:

$D_{40,\text{full}}$ = Residual moisture content of the 'cotton 40 °C' programme at full rated washing capacity;

$D_{40,1/2}$ = Residual moisture content of the 'cotton 40 °C' programme at half rated washing capacity;

$D_{40,1/4}$ = Residual moisture content of the 'cotton 40 °C' programme at a quarter of the rated washing capacity;

A, B and C are the weighting loading factors as described in Annex III(1)A.

- (2) The weighted remaining moisture content (D) of a complete operation cycle of a household washer-dryer is calculated in percentage as follows and rounded to the nearest whole percent:

$$D = (3 \times D_{40,\text{full}} + 2 \times D_{40,1/2})/5$$

where:

$D_{40,\text{full}}$ = Residual moisture content of complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at rated washing-drying capacity; or at rated drying capacity if a segmented operation cycle is used;

$D_{40,1/2}$ = Residual moisture content of complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at half rated washing-drying capacity; or at half rated drying capacity if a segmented operation cycle is used.

4. CALCULATION OF THE WEIGHTED DURATION OF THE PROGRAMME TIME

- (1) The weighted duration (t) of a household washing machine and the washing cycle of a household washer-dryer is calculated in minutes as follows and rounded to the nearest integer (minute):

$$t_c = A \times t_{t,40,\text{full}} + B \times t_{t,40,\frac{1}{2}\text{load}} + C \times t_{t,40,\frac{1}{4}\text{load}}$$

where:

$t_{t,40\text{ full}}$ is the duration of the 40°C cotton programme at rated washing capacity, in minutes and rounded to the nearest minute;

$t_{t,40\ 1/2\text{load}}$ is the duration of the 40°C cotton programme at half rated washing capacity, in minutes and rounded to the nearest minute;

$t_{t,40\ 1/4\text{load}}$ is the the duration of the 40°C cotton programme at quarter of the rated washing capacity, in minutes and rounded to the nearest minute;

A, B and C are the weighting loading factors as described in Annex III(1)A.

- (2) The weighted duration (t) of a complete operation cycle of a household washer-dryer is calculated in minutes as follows and rounded to the nearest integer (minute):

$$t_c = \frac{[3 \times t_{t,40,full} + 2 \times t_{t,40,\frac{1}{2}load}]}{5}$$

where:

$t_{t,40, full}$ is duration of a complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at rated washing-drying capacity or at rated drying capacity if a segmented operation cycle is used, in minutes and rounded to the nearest minute;

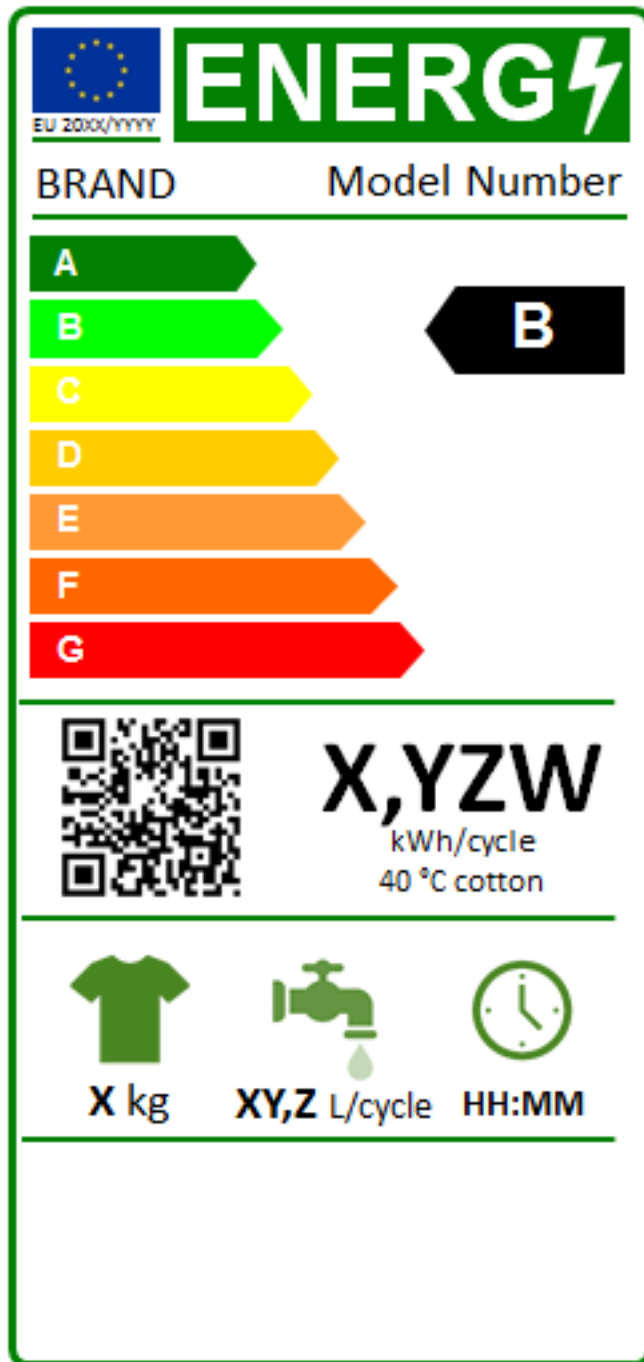
$t_{t, 40, \frac{1}{2} load}$ is duration of a complete operation cycle ('cotton 40 °C' programme in combination with drying to cupboard dry) of a household washer-dryer, at half rated washing-drying capacity or at half rated drying capacity if a segmented operation cycle is used, in minutes and rounded to the nearest minute.

ANNEX IV

A. Label for household washing machines and for the washing cycle for household washer-dryers

1. LABEL FOR HOUSEHOLD WASHING MACHINES AND FOR THE WASHING CYCLE OF HOUSEHOLD WASHER-DRYERS

Label:



I, II

III

VIII, IV

VII, V, VI

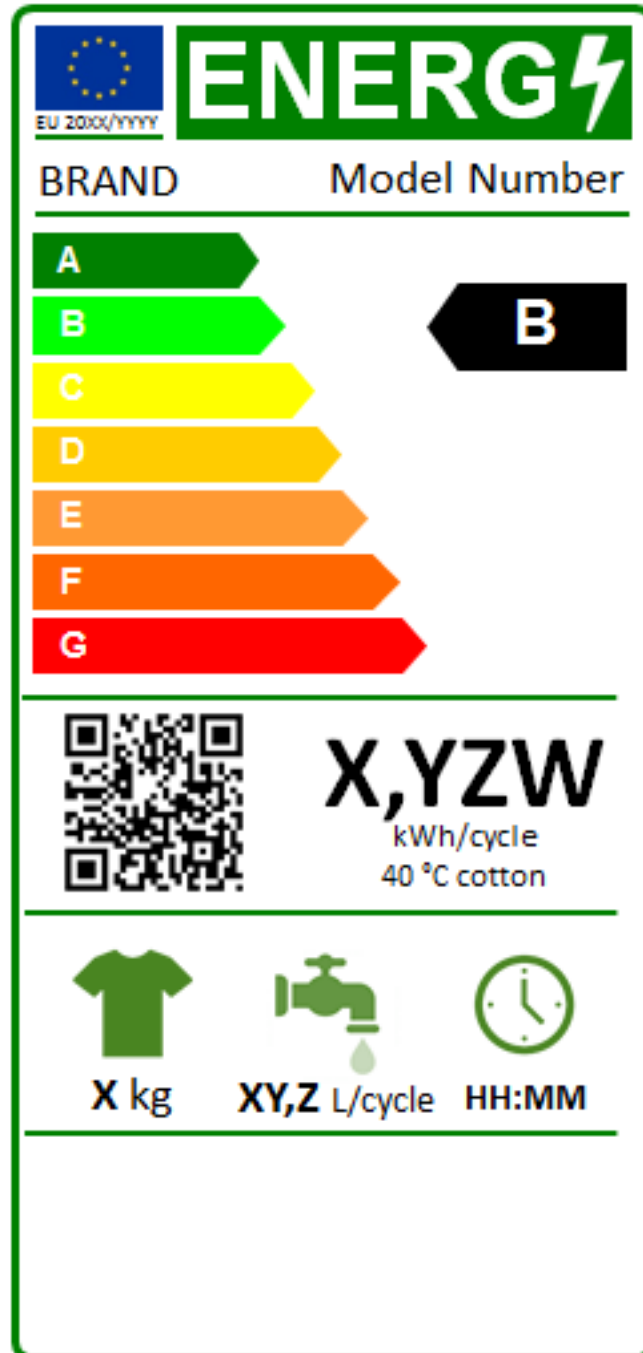
The following information shall be included in the label for household washing machines and for the washing cycle of household washer-dryers:

- I. supplier's name or trade mark;
- II. supplier's model identifier, meaning the code, usually alphanumeric, which distinguishes a specific household washing machine model from other models with the same trade mark or supplier's name;
- III. the (energy) efficiency class determined in accordance with Annex II; the head of the arrow containing the energy efficiency class shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. weighted energy consumption per cycle (E_t) in kWh per cycle, rounded to two decimal places in accordance with point 1 of Annex III;
- V. weighted water consumption per cycle (W_t), in litres per cycle, rounded to the nearest integer in accordance with point 2 of Annex III;
- VI. weighted time programme duration (t_t), expressed in hour:minutes per cycle, rounded to the nearest minute in accordance with point 4 of Annex III
- VII. rated capacity, in kg, for the 40 °C cotton programme at rated washing capacity,
- VIII. the QR code with access to the product information sheet

The design of the label shall be in accordance with point 2.A of Annex IV.

2. LABEL DESIGN FOR HOUSEHOLD WASHING MACHINES AND FOR THE WASHING CYCLE OF HOUSEHOLD WASHER-DRYERS

The design of the label for household washing machines shall be as in the figure below.



Whereby:

- (a) The label must 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 + 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. **Weighted annual energy consumption**
 - Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 - Value: Calibri bold 42 pt, 100 % black;
 - Second line: Calibri regular 17 pt, 100 % black.
 9. **Weighted 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. **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.
 11. **Spin-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.
 12. **Airborne acoustical noise emissions**
 - Pictograms 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

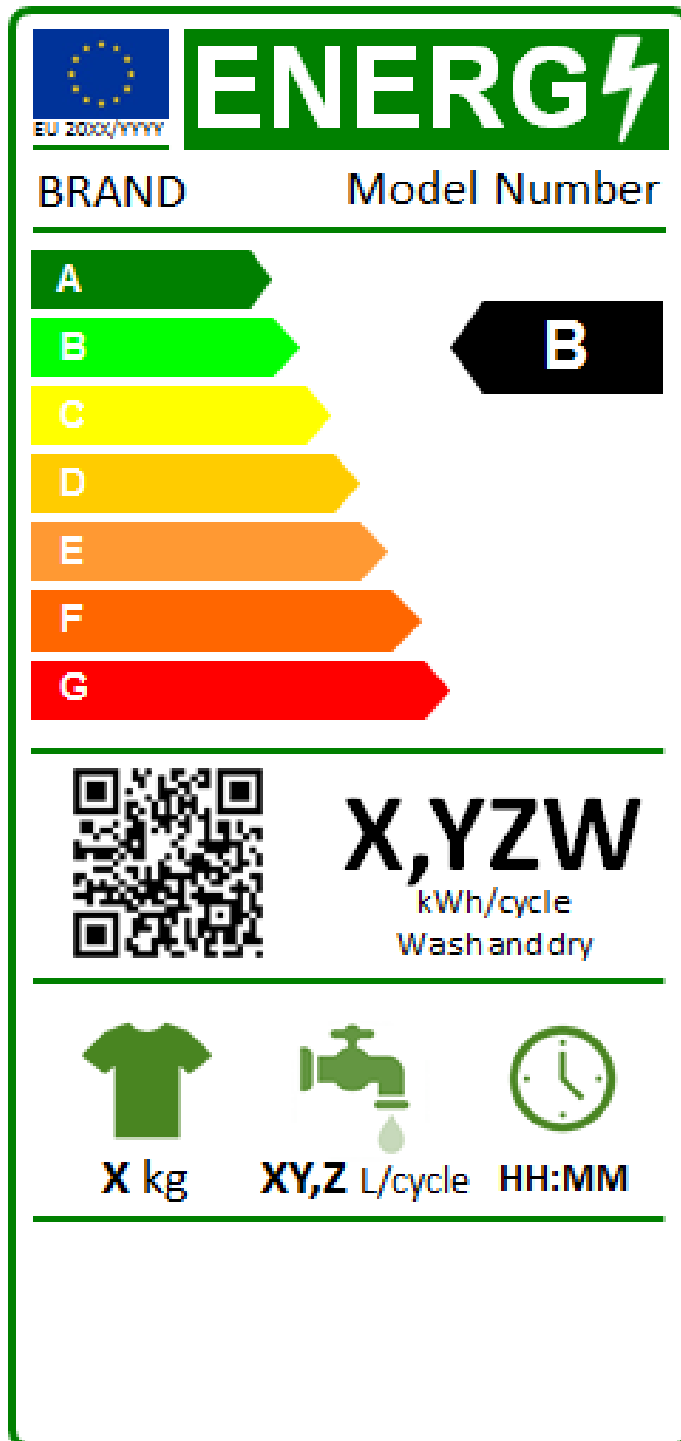
15. The supplier's name or trademark and model identifier should fit in a space of 92×15 mm.

16. Numbering of the Regulation: Calibri bold 12 pt, 100 % black.

B. Label for household washer-dryers

1. LABEL FOR HOUSEHOLD WASHER-DRYERS

Label:



I, II

III

VIII, IV

VII, V, VI

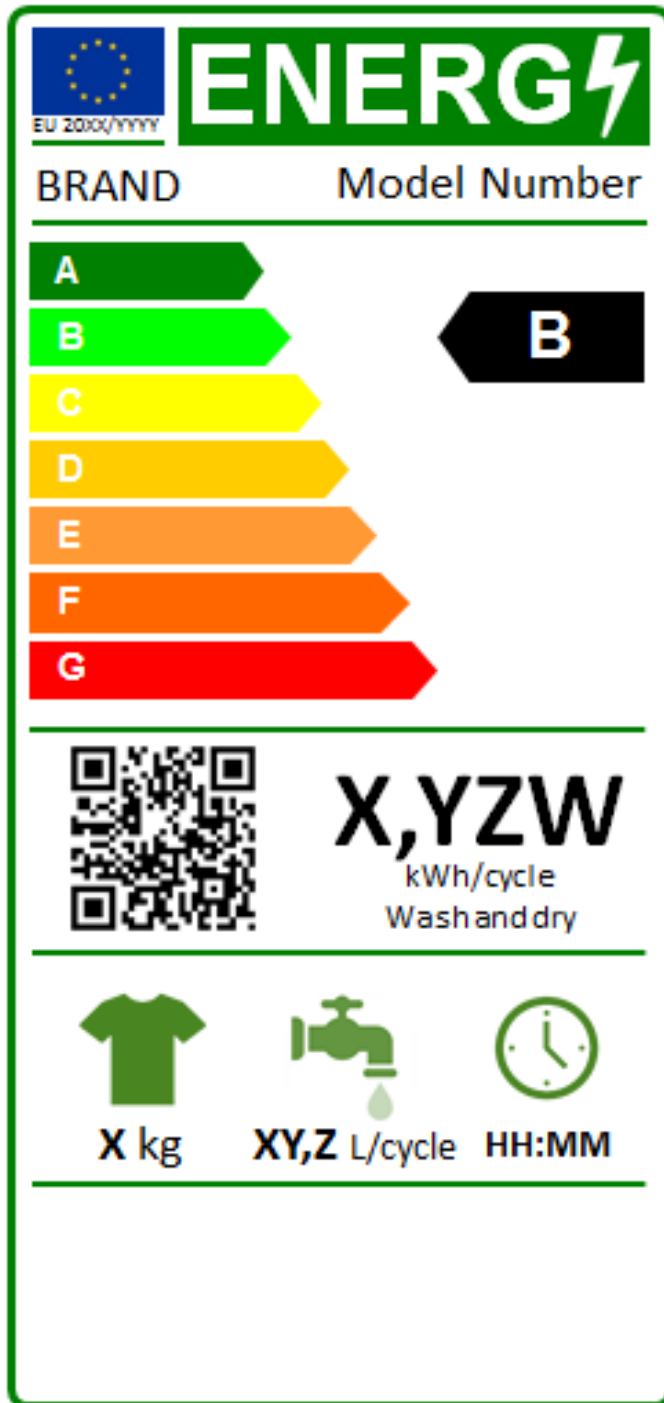
The following information shall be included in the label for household washer-dryers:

- I. supplier's name or trade mark;
- II. supplier's model identifier, meaning the code, usually alphanumeric, which distinguishes a specific household washing machine model from other models with the same trade mark or supplier's name;
- III. the energy efficiency class determined in accordance with Annex II; the head of the arrow containing the energy efficiency class shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. weighted energy consumption per cycle (E_t) in kWh per cycle, rounded to two decimal places in accordance with point 1 of Annex III;
- V. weighted water consumption per cycle (W_t), in litres per cycle, rounded to the nearest integer in accordance with point 2 of Annex III;
- VI. weighted time programme duration (t_t), expressed in hour:minutes per cycle, rounded to the nearest minute in accordance with point 4 of Annex III
- VII. rated washing-drying capacity, in kg, for a complete operation cycle (the 40 °C cotton programme in combination with drying to cupboard dry) or rate drying capacity if a segmented operation cycle is used,
- VIII. the QR code with access to the product information sheet.

The design of the label shall be in accordance with point B.2 of this Annex.

2. LABEL DESIGN FOR HOUSEHOLD WASHER-DRYERS

The design of the label for household washer-dryers shall be as in the figure below.



Whereby:

- The label must 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.
- 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):
17. **EU label border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 18. **EU logo:** colours: X-80-00-00 and 00-00-X-00.
 19. **Energy logo:** colour: X-00-00-00.
Pictogram as depicted: EU logo + energy logo (combined): width: 92 mm, height: 17 mm.
 20. **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 92,5 mm.
 21. **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.
 22. **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.
 23. **Energy**
 - Text: Calibri regular 11 pt, capitals, 100 % black.
 24. **Weighted annual energy consumption**
 - Border: 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 - Value: Calibri bold 42 pt, 100 % black;
 - Second line: Calibri regular 17 pt, 100 % black.
 25. **Weighted 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.
 26. **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.
 27. **Spin-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.
 28. **Airborne acoustical noise emissions**
 - Pictograms 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.

29. Supplier's name or trade mark

30. Supplier's model identifier

31. The supplier's name or trademark and model identifier should fit in a space of 92×15 mm.

32. **Numbering of the Regulation:** Calibri bold 12 pt, 100 % black.

ANNEX V

Product information sheet

1. The information in the product information sheet of household washing machines or of the washing cycle of the household washer-dryers 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 washing machine or household washer-dryer model from other models with the same trade mark or supplier's name;
 - c. rated washing capacity in kg for the 40 °C cotton programme;
 - d. energy efficiency class determined in accordance with Annex III for household washing machines and for the washing cycle of household washer-dryers;
 - e. weighted energy consumption (E_i) per cycle in kWh per cycle, rounded to two decimal places; it shall be described as: 'Energy consumption "X,YZW" kWh per cycle, for cotton 40 °C programme at a combination of full and partial loads. Actual energy consumption will depend on how the appliance is used';
 - f. the energy consumption ($E_{t,60,full}$, $E_{t,40,full}$, $E_{t,40,1/2}$, $E_{t,40,1/4}$) of the 60 °C cotton programme at rated washing capacity and of the 40 °C cotton programme at rated washing capacity, half rated washing capacity and a quarter of the rated washing capacity;
 - g. the energy consumption, water consumption, time programme duration and noise emissions of the washing and spinning phases of the most energy consuming washing programme at rated washing capacity;
 - h. weighted power consumption of the on-mode, the power consumption of the off mode and of any mode before starting the washing cycle, in watts rounded to the nearest integer;
 - i. the duration of the left-on mode (T_i) in minutes;
 - j. weighted water consumption (W_C) in litres per cycle, rounded to the nearest integer; it shall be described as: 'Water consumption "X,Y" litres per cycle, for cotton programmes at 40 °C at a combination of full and partial loads. Actual water consumption will depend on how the appliance is used';
 - k. weighted duration (t) in hours:minutes per cycle, rounded to the nearest minute; it shall be described as: 'The average duration of cotton 40 °C programme is "hh:mm". Actual duration will depend on how the appliance is used.';
 - l. spin-drying efficiency class determined in accordance with Annex II, expressed as 'spin-drying efficiency class "X" on a scale from G (least efficient) to A (most efficient)'; this may be expressed by other means provided it is clear that the scale is from G (least efficient) to A (most efficient);
 - m. maximum spin speed attained for the 40 °C cotton programme at full or partial loads, whichever is the lower, and remaining moisture content attained for the 40 °C cotton programme at full or partial loads, whichever is the greater;
 - n. household washing machines:
 - i. indication that the '40 °C cotton programme' is the washing programmes to which the information in the label and the product information sheet relates, that this programme are suitable to clean normally soiled cotton laundry

- ii. the programme time of the '40 °C cotton programme' at full and partial loads in hours:minutes and rounded to the nearest minute;
 - o. airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer during the washing and spinning phases for the 40 °C cotton programme at rated washing capacity;
 - p. airborne acoustical noise emissions class for the washing and spinning phases for the 40 °C cotton programme at rated washing capacity in accordance with Annex II;
 - q. if the household washing machine is intended to be built-in, an indication to this effect.
2. The information in the product information sheet of household washer-dryers 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 washing machine or household washer-dryer model from other models with the same trade mark or supplier's name;
 - c. rated washing-drying capacity in kg of cotton for the complete operation cycle at cotton 40°C programme in combination with drying to cupboard dry status or rated drying capacity to cupboard dry status if a segmented operation cycle is used
 - d. energy efficiency class determined in accordance with Annex III;
 - e. weighted energy consumption (E_t) per cycle in kWh per kg, rounded to two decimal places; it shall be described as: 'Energy consumption "X,YZW" kWh per kg per cycle, for an average complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry at full and half loads. Actual energy consumption will depend on how the appliance is used';
 - f. the energy consumption ($E_{t,full}$ and $E_{t, half}$) of a complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry at rated washing-drying capacity and at half rated washing-drying capacity or at drying capacity and half drying capacity if a segmented operation cycle is used ;
 - g. weighted power consumption of the on-mode, the power consumption of the off mode and of any mode before starting the complete operation cycle, in watts rounded to the nearest integer;
 - h. the duration of the left-on mode (T_1) if the household washer-dryer is equipped with a power management system;
 - i. weighted water consumption (W_C) in litres per cycle, rounded to the nearest integer; it shall be described as: 'Water consumption "X,Y" litres per cycle, for complete operation cycles at cotton 40 °C programme in combination with drying at cupboard dry at full and partial loads. Actual water consumption will depend on how the appliance is used and on the hardness of the water.'
 - j. weighted duration (t) in hours:minutes per cycle, rounded to the nearest minute; it shall be described as: 'The average duration of a complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry is "hh:mm". Actual duration will depend on how the appliance is used';
 - k. Household washer-dryers:
 - i. indication that the complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry is the programme to which the information in the label and the product information sheet relates,

- that the programme is suitable to wash&dry normally soiled cotton laundry;
- ii. the programme time of the complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry at full and partial load in hours:minutes and rounded to the nearest minute;
 1. airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer during the washing, spinning and drying phases for the complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry at rated washing-drying capacity or at rated drying capacity;
 - m. airborne acoustical noise emissions class for the washing, spinning and drying phases for the complete operation cycle at cotton 40 °C programme in combination with drying at cupboard dry at rated washing-drying capacity or at rated drying capacity in accordance with Annex II;
 - n. if the household washer-dryer is intended to be built-in, an indication to this effect.
3. One product information sheet may cover a number of household washing machines or household washer-dryer models supplied by the same supplier.
 4. 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 or in point 2 not already displayed on the label shall also be provided.

ANNEX VI

Technical documentation

1. The technical documentation referred to in Article 3(c) shall include:
 - (a) the name and address of the supplier;
 - (b) a general description of the washing machine or washer-dryer 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) an indication stating whether the household washing machine or household washer-dryer model releases or not silver ions during the washing cycle as follows: 'This product may release/does not release silver ions during the washing cycle.';
 - (g) technical parameters for measurements as follows:
 - i. energy consumption;
 - ii. programme time;
 - iii. water consumption;
 - iv. power consumption in 'off-mode';
 - v. power consumption in 'left-on mode';
 - vi. 'left-on mode' duration;
 - vii. remaining moisture content;
 - viii. airborne acoustical noise emissions;
 - ix. maximum spin speed;
 - (h) the results of calculations performed in accordance with Annex III.
2. Where the information included in the technical documentation file for a particular household washing machine or household washer-dryer model has been obtained by calculation on the basis of design, or extrapolation from other equivalent household washing machines (household washer-dryers, respectively) 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 washing machine or household washer-dryer 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(1)(f) 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 A.2 of Annex VI for household washing machines and the washing cycle of the household washer-dryer and point B.2 of Annex IV for household washer-dryers. 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.

The appropriate product information sheet made available by suppliers in accordance with Article 3(1)(g) 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 7.
- (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 washing machine or washer-dryer 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 7.
- (6) If the result referred to in point 5 is not achieved, the model and all models that have been listed as equivalent household washing machine or washer-dryer 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 7 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 7: Verification tolerances for measured parameters

Measured parameter	Verification tolerances
Energy consumption	The measured value shall not be greater than the rated value of E_t by more than 10 %. 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 the energy consumption by more than 6%.
Programme time	The measured value shall not be longer than the rated values T_t by more than 10 %.
Water consumption	The measured value shall not be greater than the rated value of W_t by more than 10 %.
Remaining moisture content	The measured value shall not be greater than the rated value of D by more than 10 %.
Spin speed	The measured value shall not be less than the rated value by more than 10 %.
Power consumption in off mode and left-on mode (P_o and P_l)	The measured value 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 measured 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 measured 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 the left-on mode	The measured value shall not be longer than the rated 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:

