

Official Journal

of the European Union

L 314



English edition

Legislation

Volume 53

30 November 2010

Contents

II *Non-legislative acts*

REGULATIONS

- ★ **Commission Delegated Regulation (EU) No 1059/2010 of 28 September 2010 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household dishwashers ⁽¹⁾ 1**
- ★ **Commission Delegated Regulation (EU) No 1060/2010 of 28 September 2010 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household refrigerating appliances ⁽¹⁾ 17**
- ★ **Commission Delegated Regulation (EU) No 1061/2010 of 28 September 2010 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household washing machines ⁽¹⁾ 47**
- ★ **Commission Delegated Regulation (EU) No 1062/2010 of 28 September 2010 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of televisions ⁽¹⁾ 64**

Price: EUR 4

⁽¹⁾ Text with EEA relevance

EN

Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

The titles of all other acts are printed in bold type and preceded by an asterisk.

II

(Non-legislative acts)

REGULATIONS

COMMISSION DELEGATED REGULATION (EU) No 1059/2010

of 28 September 2010

supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household dishwashers**(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

Having regard to Directive 2010/30/EU of the European Parliament and of the Council of 19 May 2010 on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products ⁽¹⁾ and in particular Article 10 thereof,

Whereas:

- (1) Directive 2010/30/EU requires the Commission to adopt delegated acts as regards the labelling of energy-related products representing significant potential for energy savings and having a wide disparity in performance levels with equivalent functionality.
- (2) Provisions on the energy labelling of household dishwashers were established by Commission Directive 97/17/EC of 16 April 1997 implementing Council Directive 92/75/EEC with regard to energy labelling of household dishwashers ⁽²⁾.
- (3) The electricity used by household dishwashers accounts for a significant share of total household electricity demand in the Union. In addition to the energy efficiency improvements already achieved, the scope for further reducing the energy consumption of household dishwashers is substantial.

- (4) Directive 97/17/EC should be repealed and new provisions should be laid down by this Regulation in order to ensure that the energy label provides dynamic incentives for suppliers to further improve the energy efficiency of household dishwashers and to accelerate the market transformation towards energy-efficient technologies.
- (5) The information provided on the label should be obtained through reliable, accurate and reproducible measurement procedures, which take into account the recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services ⁽³⁾.
- (6) This Regulation should specify a uniform design and content for the label for household dishwashers.
- (7) In addition, this Regulation should specify requirements as to the technical documentation and the fiche for household dishwashers.
- (8) Moreover, this Regulation should specify requirements as to the information to be provided for any form of distance selling, advertisements and technical promotional materials for household dishwashers.

⁽¹⁾ OJ L 153, 18.6.2010, p. 1.⁽²⁾ OJ L 118, 7.5.1997, p. 1.⁽³⁾ OJ L 204, 21.7.1998, p. 37.

- (9) It is appropriate to provide for a review of the provisions of this Regulation taking into account technological progress.
- (10) In order to facilitate the transition from Directive 97/17/EC to this Regulation, it is appropriate to provide that household dishwashers labelled in accordance with this Regulation are to be considered compliant with Directive 97/17/EC.
- (11) Directive 97/17/EC should therefore be repealed,
- HAS ADOPTED THIS REGULATION:
- (5) 'programme' means a series of operations that are pre-defined and are declared as suitable by the supplier for specified levels of soil or type of load, or both, and together form a complete cycle;
- (6) '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;
- (7) 'cycle' means a complete cleaning, rinsing, and drying process, as defined for the selected programme;

Article 1

Subject matter and scope

This Regulation establishes requirements for the labelling of and the provision of supplementary product information on electric mains-operated household dishwashers and electric mains-operated dishwashers that can also be powered by batteries, including those sold for non-household use and built-in household dishwashers.

Article 2

Definitions

In addition to the definitions laid down in Article 2 of Directive 2010/30/EU, the following definitions shall apply for the purpose of this Regulation:

- (1) 'household dishwasher' means a machine which cleans, rinses, and dries dishware, glassware, cutlery and cooking utensils by chemical, mechanical, thermal, and electric means and which is designed to be used principally for non-professional purposes;
- (2) 'built-in household dishwasher' means a household dishwasher intended to be installed in a cabinet, a prepared recess in a wall or a similar location, requiring furniture finishing;
- (3) 'place settings' means a defined set of crockery, glass and cutlery for use by one person;
- (4) '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;
- (8) 'off-mode' means a condition where the household dishwasher is switched off using appliance controls or switches accessible to and intended for operation by the end-user during normal use to attain the lowest power consumption that may persist for an indefinite time while the household dishwasher is connected to a power source and used in accordance with the supplier's instructions; where there is no control or switch accessible to the end-user, 'off-mode' means the condition reached after the household dishwasher reverts to a steady-state power consumption on its own;
- (9) '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 end-user;
- (10) '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 commercial code number by the same supplier;
- (11) 'end-user' means a consumer buying or expected to buy a household dishwasher;
- (12) 'point of sale' means a location where household dishwashers are displayed or offered for sale, hire or hire-purchase.

*Article 3***Responsibilities of suppliers**

Suppliers shall ensure that:

- (a) each household dishwasher is supplied with a printed label in the format and containing information as set out in Annex I;
- (b) a product fiche, as set out in Annex II, is made available;
- (c) the technical documentation as set out in Annex III is made available on request to the authorities of the Member States and to the Commission;
- (d) any advertisement for a specific model of household dishwasher contains the energy efficiency class, if the advertisement discloses energy-related or price information;
- (e) any technical promotional material concerning a specific model of household dishwasher which describes its specific technical parameters includes the energy efficiency class of that model.

*Article 4***Responsibilities of dealers**

Dealers shall ensure that:

- (a) each household dishwasher, at the point of sale, bears the label provided by suppliers in accordance with Article 3(a) on the outside of the front or top of the household dishwasher, in such a way as to be clearly visible;
- (b) household dishwashers offered for sale, hire or hire-purchase where the end-user cannot be expected to see the household dishwasher displayed, are marketed with the information provided by suppliers in accordance with Annex IV;
- (c) any advertisement for a specific model of household dishwasher contains a reference to its energy efficiency class, if the advertisement discloses energy-related or price information;
- (d) any technical promotional material concerning a specific model of household dishwasher which describes its specific technical parameters includes a reference to the energy efficiency class of that model.

*Article 5***Measurement methods**

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

*Article 6***Verification procedure for market surveillance purposes**

Member States shall apply the procedure laid down in Annex V when assessing the conformity of the declared energy efficiency class, the annual energy consumption, annual water consumption, drying efficiency index, programme time, power consumption in off-mode and left-on mode, duration of the left-on mode and airborne acoustical noise emissions.

*Article 7***Revision**

The Commission shall review this Regulation in the light of technological progress no later than four years after its entry into force. The review shall in particular assess the verification tolerances set out in Annex V.

*Article 8***Repeal**

Directive 97/17/EC shall be repealed from 20 December 2011.

*Article 9***Transitional provisions**

1. Articles 3(d), (e), 4(b), (c) and (d) shall not apply to printed advertisement and printed technical promotional material published before 30 March 2012.
2. Household dishwashers placed on the market before 30 November 2011 shall comply with the provisions set out in Directive 97/17/EC.
3. If an implementing measure for Directive 2009/125/EC of the European Parliament and of the Council⁽¹⁾ with regards to ecodesign requirements for household dishwashers was adopted, household dishwashers which comply with the provisions of this implementing measure with respect to the cleaning efficiency requirements and with the provisions of this Regulation, and which are placed on the market or offered for sale, hire or hire-purchase before 20 December 2011 shall be regarded as complying with the requirements of Directive 97/17/EC.

⁽¹⁾ OJ L 285, 31.10.2009, p. 10.

*Article 10***Entry into force and application**

This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

It shall apply from 20 December 2011. However, Articles 3(d), (e), 4(b), (c) and (d) shall apply from 20 April 2012.

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

Done at Brussels, 28 September 2010.

For the Commission

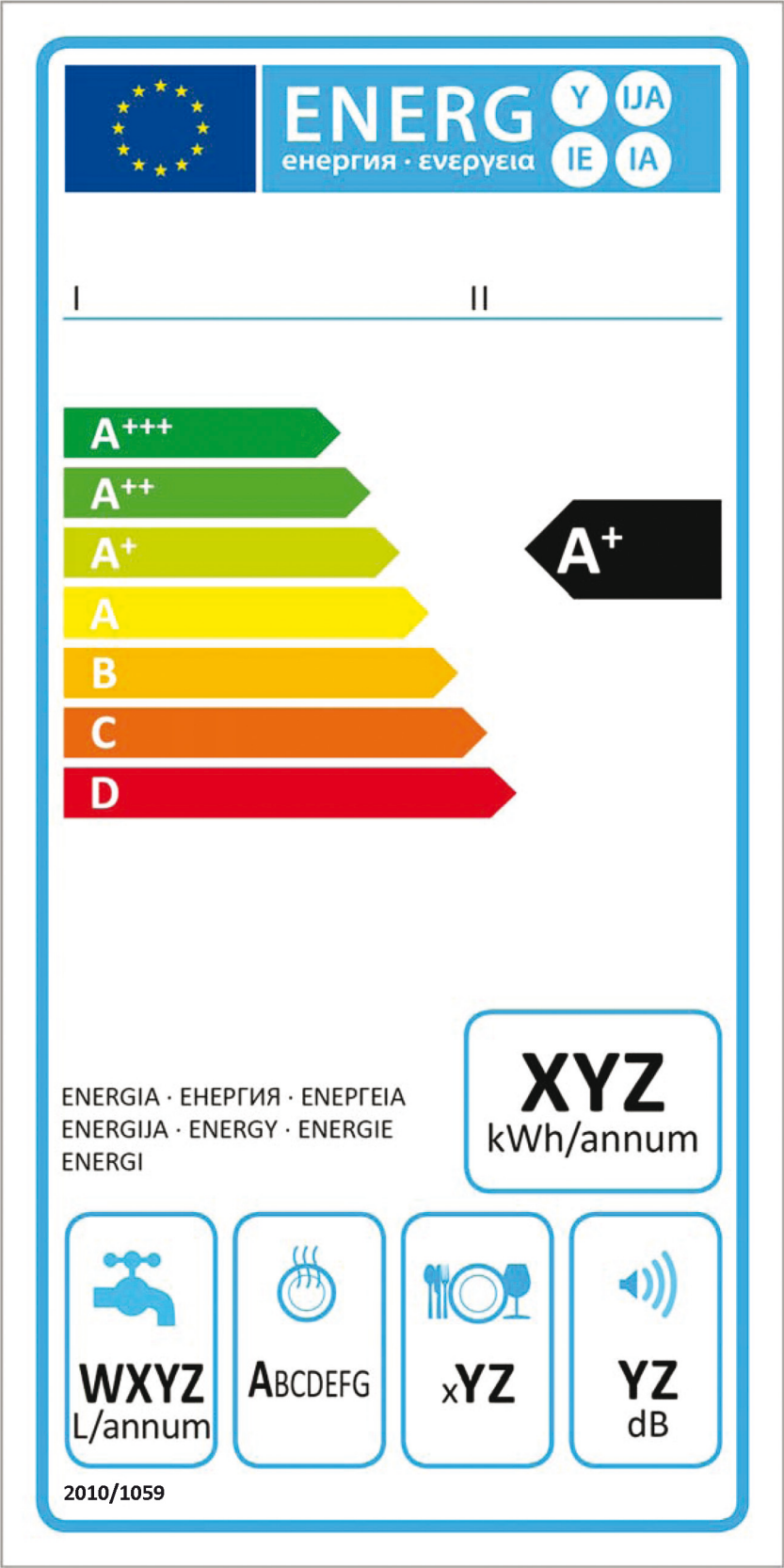
The President

José Manuel BARROSO

ANNEX I

Label

1. LABEL



I
II

III

IV

V
VI
VII
VIII

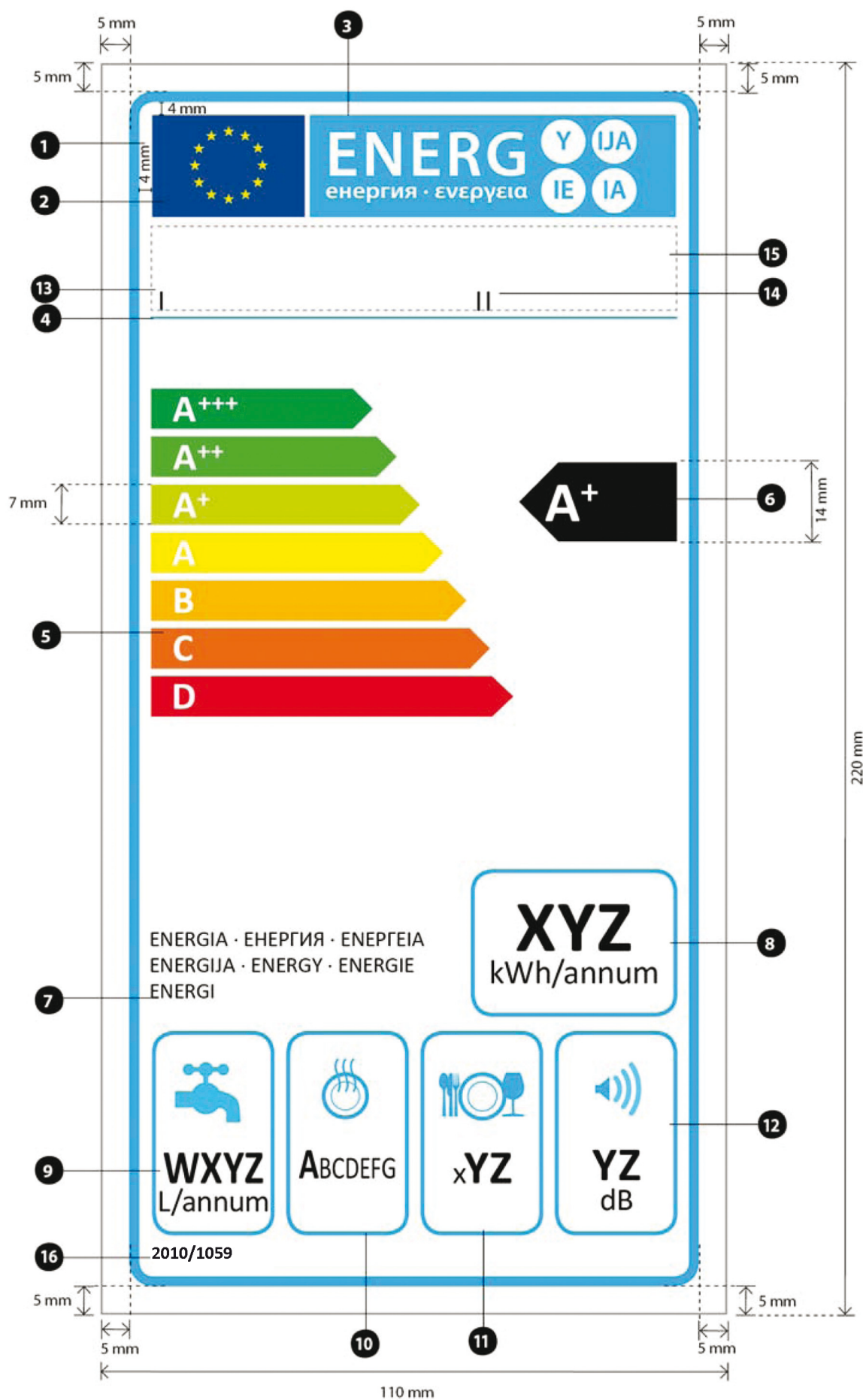
(1) The following information shall be included in the label:

- 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. annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer and calculated in accordance with point 1(b) of Annex VII;
 - V. annual water consumption (AW_C) in litres per year, rounded up to the nearest integer and calculated in accordance with point 3 of Annex VII;
 - VI. the drying efficiency class determined in accordance with point 2 of Annex VI;
 - VII. rated capacity in standard place settings, for the standard cleaning cycle;
 - VIII. airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer.
- (2) The design of the label shall be in accordance with point 2. By way of derogation, where a model has been granted an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council ⁽¹⁾, a copy of the EU Ecolabel may be added.

2. LABEL DESIGN

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

⁽¹⁾ OJ L 27, 30.1.2010, p. 1.



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):

❶ **Border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.

❷ **EU logo** — colours: X-80-00-00 and 00-00-X-00.

❸ **Energy logo:** colour: X-00-00-00. Pictogram as depicted; EU logo and energy logo (combined): width: 92 mm, height: 17 mm.

❹ **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 92,5 mm.

❺ **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.

❻ **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.

❼ **Energy**

— **Text:** Calibri regular 11 pt, capitals, 100 % black.

❽ **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; and 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; and 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 of the Regulation: Calibri bold 9 pt, 100 % black.

ANNEX II

Product fiche

1. The information in the product fiche of the household dishwasher 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 standard cleaning cycle;
 - (d) energy efficiency class, in accordance with point 1 of Annex VI;
 - (e) where the household dishwasher has been awarded an 'EU Ecolabel' under Regulation (EC) No 66/2010, this information may be included;
 - (f) annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer and calculated in accordance with point 1(b) of Annex VII. It shall be described as 'Energy consumption "X" kWh per year, based on 280 standard cleaning cycles using cold water fill and the consumption of the low power modes. Actual energy consumption will depend on how the appliance is used.';
 - (g) the energy consumption (E_t) of the standard cleaning cycle;
 - (h) the power consumption in off-mode and left-on mode (P_o and P_l);
 - (i) annual water consumption (AW_C), in litres per year, rounded up to the nearest integer and calculated in accordance with point 3 of Annex VII; it shall be described as: 'Water consumption "X" litres per year, based on 280 standard cleaning cycles. Actual water consumption will depend on how the appliance is used.';
 - (j) drying efficiency class determined in accordance with point 2 of Annex VI expressed as 'Drying efficiency class "X" on a scale from G (least efficient) to A (most efficient)'. Where this information is provided in a table, this may be expressed by other means provided it is clear that the scale is from G (least efficient) to A (most efficient);
 - (k) indication that the 'standard programme' is the standard cleaning cycle to which the information in the label and the fiche 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;
 - (l) programme time for the standard cleaning cycle, in minutes and rounded to the nearest integer;
 - (m) the duration of the left-on mode (T_l) if the household dishwasher is equipped with a power management system;
 - (n) airborne acoustical noise emissions expressed in dB(A) re 1 pW and rounded to the nearest integer;
 - (o) if the household dishwasher is intended to be built-in, an indication to this effect.
 2. One fiche may cover a number of household dishwasher models supplied by the same supplier.
 3. The information contained in the fiche 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 III

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 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 in 'left-on mode'*;
 - (vii) *'left-on mode' duration*;
 - (viii) *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 IV

Information to be provided in the cases where end-users cannot be expected to see the product displayed

1. The information referred to in Article 4(b) shall be provided in the following order:
 - (a) the energy efficiency class, as defined in point 1 of Annex VI;
 - (b) the rated capacity in standard place settings for the standard cleaning cycle;
 - (c) the annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer and calculated in accordance with point 1(b) of Annex VII;
 - (d) the annual water consumption (AW_C) in litres per year, rounded up to the nearest integer and calculated in accordance with point 3 of Annex VII;
 - (e) the drying efficiency class in accordance with point 2 of Annex VI;
 - (f) airborne acoustical noise emissions in dB(A) re 1 pW and rounded to the nearest integer;
 - (g) if the model is intended to be built-in, an indication to this effect.
 2. Where other information contained in the product fiche is also provided, it shall be in the form and order specified in Annex II.
 3. The size and font in which all the information referred in this Annex is printed or shown shall be legible.
-

ANNEX V

Verification procedure for market surveillance purposes

For the purposes of checking conformity with the requirements laid down in Articles 3 and 4, Member State authorities shall test a single household dishwasher. If the measured parameters do not meet the values declared by the supplier within the ranges set out in Table 1, the measurements shall be made on three more household dishwashers. The arithmetic mean of the measured values of these three household dishwashers shall meet the values declared by the supplier within the range defined in Table 1, except for the energy consumption, where the measured value shall not be greater than the rated value of E_t by more than 6 %.

Otherwise, the model and all other equivalent household dishwasher models shall be considered not to comply with the requirements laid down in Articles 3 and 4.

Member State authorities shall use reliable, accurate and reproducible measurement procedures, which take into account the generally recognised state-of-the-art measurement methods, including methods set out in documents, the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

Table 1

Measured parameter	Verification tolerances
Annual energy consumption	The measured value shall not be greater than the rated value (*) of AE_C by more than 10 %.
Water consumption	The measured value shall not be greater than the rated value of W_t by more than 10 %.
Drying efficiency index	The measured value shall not be less than the rated value of I_D by more than 19 %.
Energy consumption	The measured value shall not be greater than the rated value of E_t by more than 10 %.
Programme time	The measured value shall not be longer than the rated values T_t by more than 10 %.
Power consumption in off-mode and left-on mode	The measured value of power consumption P_o and P_l of more than 1,00 W shall not be greater than the rated value by more than 10 %. The measured value of power consumption P_o and P_l of less than or equal to 1,00 W shall not be greater than the rated value by more than 0,10 W.
Duration of left-on mode	The value measured 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.
(*) 'Rated value' means a value declared by the supplier.	

ANNEX VI

Energy efficiency classes and drying efficiency classes**1. 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 point 1 of Annex VII.

Table 1
Energy efficiency classes

Energy efficiency class	Energy Efficiency Index
A+++ (most efficient)	$EEI < 50$
A++	$50 \leq EEI < 56$
A+	$56 \leq EEI < 63$
A	$63 \leq EEI < 71$
B	$71 \leq EEI < 80$
C	$80 \leq EEI < 90$
D (least efficient)	$EEI \geq 90$

2. DRYING EFFICIENCY CLASSES

The drying efficiency class of a household dishwasher shall be determined on the basis of its Drying Efficiency Index (*I_D*) as set out in Table 2.

The Drying Efficiency Index (*I_D*) shall be calculated in accordance with point 2 of Annex VII.

Table 2
Drying efficiency classes

Drying efficiency class	Drying Efficiency Index
A (most efficient)	$I_D > 1,08$
B	$1,08 \geq I_D > 0,86$
C	$0,86 \geq I_D > 0,69$
D	$0,69 \geq I_D > 0,55$
E	$0,55 \geq I_D > 0,44$
F	$0,44 \geq I_D > 0,33$
G (least efficient)	$0,33 \geq I_D$

ANNEX VII

Method for calculating the Energy Efficiency Index, the Drying Efficiency Index and water consumption**1. CALCULATION OF THE ENERGY EFFICIENCY INDEX**

For the calculation of the Energy Efficiency Index (*EEl*) of a household dishwasher model, the annual energy consumption of the household dishwasher is compared to its standard annual energy consumption.

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

$$EEI = \frac{AE_C}{SAE_C} \times 100$$

where:

AE_C = annual energy consumption of the household dishwasher;

SAE_C = standard annual energy consumption of the household dishwasher.

(b) The annual energy consumption (AE_C) is calculated in kWh/year as follows and rounded to two decimal places:

(i)

$$AE_C = E_t \times 280 + \frac{\left[P_o \times \frac{525\,600 - (T_t \times 280)}{2} + P_l \times \frac{525\,600 - (T_t \times 280)}{2} \right]}{60 \times 1\,000}$$

where:

E_t = energy consumption for the standard cycle, in kWh and rounded to three decimal places;

P_l = power in 'left-on mode' for the standard cleaning cycle, in W and rounded to two decimal places;

P_o = power in 'off-mode' for the standard cleaning cycle, in W and rounded to two decimal places;

T_t = programme time for the standard cleaning cycle, in minutes and rounded to the nearest minute;

280 = total number of standard cleaning cycles per year;

(ii) Where the household dishwasher is equipped with a power management system, with the household dishwasher reverting automatically to 'off-mode' after the end of the programme, AE_C is calculated taking into consideration the effective duration of 'left-on mode', according to the following formula:

$$AE_C = E_t \times 280 + \frac{\{(P_l \times T_l \times 280) + P_o \times [525\,600 - (T_t \times 280) - (T_l \times 280)]\}}{60 \times 1\,000}$$

where:

T_l = measured time in 'left-on mode' for the standard cleaning cycle, in minutes and rounded to the nearest minute;

280 = total number of standard cleaning cycles per year.

(c) The standard annual energy consumption (SAE_C) is calculated in kWh/year as follows and rounded to two decimal places:

(i) for household dishwashers with rated capacity $ps \geq 10$ and width > 50 cm:

$$SAE_C = 7,0 \times ps + 378$$

- (ii) for household dishwashers with rated capacity $ps \leq 9$ and household dishwashers with rated capacity $9 < ps \leq 11$ and width ≤ 50 cm:

$$SAE_C = 25,2 \times ps + 126$$

where:

ps = number of place settings.

2. CALCULATION OF THE DRYING EFFICIENCY INDEX

For the calculation of the Drying Efficiency Index (I_D) of a household dishwasher model, the drying efficiency of the household dishwasher is compared to the drying efficiency of a reference dishwasher, where the reference dishwasher shall have the characteristics indicated in the generally recognised state-of-the-art measurement methods, including methods set out in documents, the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

- (a) The Drying Efficiency Index (I_D) is calculated as follows and rounded to two decimal places:

$$\ln I_D = \frac{1}{n} \times \sum_{i=1}^n \ln \left(\frac{D_{T,i}}{D_{R,i}} \right)$$

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

where:

$D_{T,i}$ = drying efficiency of the household dishwasher under test for one test cycle (i);

$D_{R,i}$ = drying efficiency of the reference dishwasher for one test cycle (i);

n = number of test cycles, $n \geq 5$.

- (b) The drying efficiency (D) is the average of the wet score of each load item after completion of a standard cleaning cycle. The wet score is calculated as shown in Table 1:

Table 1

Number of water traces (W_T) or wet streak (W_S)	Total wet area (A_w) in mm ²	Wet score
$W_T = 0$ and $W_S = 0$	Not applicable	2 (most efficient)
$1 < W_T \leq 2$ or $W_S = 1$	$A_w < 50$	1
$2 < W_T$ or $W_S = 2$ or $W_S = 1$ and $W_T = 1$	$A_w > 50$	0 (least efficient)

3. CALCULATION OF THE ANNUAL WATER CONSUMPTION

The annual water consumption (AW_C) of a household dishwasher is calculated, in litres and rounded up to the nearest integer, as:

$$AW_C = W_t \times 280$$

where:

W_t = water consumption for the standard cleaning cycle, in litres and rounded to one decimal place.

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Whereas:

(1) Directive 2010/30/EU requires the Commission to adopt delegated acts as regards the labelling of energy-related products representing significant potential for energy savings and having a wide disparity in performance levels with equivalent functionality.

(2) Provisions on the energy labelling of household refrigerating appliances were established by Commission Directive 94/2/EC of 21 January 1994 implementing Council Directive 92/75/EEC with regard to energy labelling of household electric refrigerators, freezers and their combinations ⁽²⁾.

(3) The electricity used by household refrigerating appliances accounts for a significant share of total household electricity demand in the Union. In addition to the energy efficiency improvements already achieved, the scope for further reducing the energy consumption of household refrigerating appliances is substantial.

(4) Directive 94/2/EC should be repealed and new provisions should be laid down by this Regulation in order to ensure that the energy label provides dynamic incentives for manufacturers to further improve the energy efficiency of household refrigerating appliances and to accelerate the market transformation towards energy-efficient technologies.

(5) The combined effect of the provisions set out in this Regulation, and in Commission Regulation (EC) No 643/2009 of 22 July 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for household refrigerating appliances ⁽³⁾, could amount to annual electricity savings of 6 TWh by 2020 ⁽⁴⁾, compared to the situation if no measures were taken.

(6) There is also an opportunity for energy savings for products in the growing markets of absorption-type refrigerating appliances and wine storage appliances. Those appliances should therefore be included in the scope of this Regulation.

(7) Absorption-type refrigerating appliances are noiseless, but consume significantly more energy than compression-type appliances. In order for end-users to make an informed decision, information on airborne acoustical noise emissions of household refrigerating appliances should be included on the label.

(8) The information provided on the label should be obtained through reliable, accurate and reproducible measurement procedures that take into account the recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services ⁽⁵⁾.

(9) This Regulation should specify a uniform design and content for the label for household refrigerating appliances.

(10) In addition, this Regulation should specify requirements as to the technical documentation and the fiche for household refrigerating appliances.

⁽¹⁾ OJ L 153, 18.6.2010, p. 1.

⁽²⁾ OJ L 45, 17.2.1994, p. 1.

⁽³⁾ OJ L 191, 23.7.2009, p. 53.

⁽⁴⁾ When measured according to Cenelec standard EN 153, February 2006/EN ISO 15502, October 2005.

⁽⁵⁾ OJ L 204, 21.7.1998, p. 37.

- (11) Moreover, this Regulation should specify requirements as to the information to be provided for any form of distance selling, advertisements and technical promotional materials for household refrigerating appliances.
- (12) It is appropriate to provide for a review of the provisions of this Regulation taking into account technological progress.
- (13) In order to facilitate the transition from Directive 94/2/EC to this Regulation, household refrigerating appliances labelled in accordance with this Regulation should be considered compliant with Directive 94/2/EC.
- (14) Directive 94/2/EC should therefore be repealed,

HAS ADOPTED THIS REGULATION:

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 refrigerating appliances with a storage volume between 10 and 1 500 litres.
2. This Regulation shall apply to electric mains-operated household refrigerating appliances, including those sold for non-household use or for the refrigeration of items other than foodstuffs and including built-in appliances.
- It shall also apply to electric mains-operated household refrigerating appliances that can be battery-operated.
3. This Regulation shall not apply to:
- (a) refrigerating appliances that are primarily powered by energy sources other than electricity, such as liquefied petroleum gas (LPG), kerosene and bio-diesel fuels;
 - (b) battery-operated refrigerating appliances that can be connected to the mains through an AC/DC converter, purchased separately;
 - (c) custom-made refrigerating appliances, made on a one-off basis and not equivalent to other refrigerating appliance models;
 - (d) refrigerating appliances for tertiary sector application where the removal of refrigerated foodstuffs is electronically sensed and that information can be automatically transmitted

through a network connection to a remote control system for accounting;

- (e) appliances where the primary function is not the storage of foodstuffs through refrigeration, such as stand-alone ice-makers or chilled drinks dispensers.

Article 2

Definitions

In addition to the definitions laid down in Article 2 of Directive 2010/30/EU, the following definitions shall apply:

- (1) 'foodstuffs' means food, ingredients, beverages including wine, and other items primarily intended for consumption which require refrigeration at specified temperatures;
- (2) 'household refrigerating appliance' means an insulated cabinet, with one or more compartments, intended for refrigerating or freezing foodstuffs, or for the storage of refrigerated or frozen foodstuffs for non-professional purposes, cooled by one or more energy-consuming processes, including appliances sold as building kits to be assembled by the end-user;
- (3) 'built-in appliance' means a fixed refrigerating appliance intended to be installed in a cabinet, in a prepared recess in a wall or similar location, and requiring furniture finishing;
- (4) 'refrigerator' means a refrigerating appliance intended for the preservation of foodstuffs with at least one compartment suitable for the storage of fresh food and/or beverages, including wine;
- (5) 'compression-type refrigerating appliance' means a refrigerating appliance in which refrigeration is effected by means of a motor-driven compressor;
- (6) 'absorption-type refrigerating appliance' means a refrigerating appliance in which refrigeration is effected by an absorption process using heat as the energy source;
- (7) 'refrigerator-freezer' means a refrigerating appliance with at least one fresh-food storage compartment and at least one compartment suitable for the freezing of fresh food and the storage of frozen foodstuffs under three-star storage conditions (the food-freezer compartment);

- (8) 'frozen-food storage cabinet' means a refrigerating appliance with one or more compartments suitable for the storage of frozen foodstuffs;
- (9) 'food freezer' means a refrigerating appliance with one or more compartments suitable for freezing foodstuffs with temperatures ranging from ambient temperature down to -18°C , and which is also suitable for the storage of frozen foodstuffs under three-star storage conditions; a food freezer may also include two-star sections and/or compartments within the compartment or cabinet;
- (10) 'wine storage appliance' means a refrigerating appliance that has no compartment other than one or more wine storage compartments;
- (11) 'multi-use appliance' means a refrigerating appliance that has no compartment other than one or more multi-use compartments;
- (12) 'equivalent household refrigerating appliance' means a household refrigerating appliance model placed on the market with the same gross and storage volumes, same technical, efficiency and performance characteristics, and same compartment types as another household refrigerating appliance model placed on the market under a different commercial code number by the same manufacturer;
- (13) 'end-user' means a consumer buying or expected to buy a household refrigerating appliance;
- (14) 'point of sale' means a location where household refrigerating appliances are displayed or offered for sale, hire or hire-purchase.
- (d) any advertisement for a specific model of household refrigerating appliance contains the energy efficiency class, if the advertisement discloses energy-related or price information;
- (e) any technical promotional material concerning a specific model of household refrigerating appliance which describes its specific technical parameters includes the energy efficiency class of that model.

Article 4

Responsibilities of dealers

Dealers shall ensure that:

- (a) each household refrigerating appliance at the point of sale bears the label provided by suppliers in accordance with Article 3(a) on the outside of the front or top of the appliance, in such a way as to be clearly visible;
- (b) household refrigerating appliances offered for sale, hire or hire purchase where the end-user cannot be expected to see the product displayed, are marketed with the information to be provided by the suppliers in accordance with Annex V;
- (c) any advertisement for a specific model of household refrigerating appliance contains its energy efficiency class, if the advertisement discloses energy-related or price information;
- (d) any technical promotional material concerning a specific model of household refrigerating appliance, which describes its specific technical parameters, includes the energy efficiency class of that model.

The definitions set out in Annex I shall also apply.

Article 3

Responsibilities of suppliers

Suppliers shall ensure that:

- (a) each household refrigerating appliance is supplied with a printed label in the format and containing information as set out in Annex II;
- (b) a product fiche, as set out in Annex III, is made available;
- (c) the technical documentation as set out in Annex IV is made available on request to the authorities of Member States and to the Commission;

Article 5

Measurement methods

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

Article 6

Verification procedure for market surveillance purposes

Member States shall apply the procedure laid down in Annex VII when assessing the conformity of the declared energy efficiency class, the annual energy consumption, the fresh and frozen food volumes, the freezing capacity and the airborne acoustical noise emissions.

*Article 7***Revision**

The Commission shall review this Regulation in the light of technological progress no later than four years after its entry into force. The review shall in particular assess the verification tolerances set out in Annex VII and the possibilities for removing or reducing the values of the correction factors set out in Annex VIII.

*Article 8***Repeal**

Directive 94/2/EC is repealed from 30 November 2011.

*Article 9***Transitional provisions**

1. Articles 3(d), (e), 4(b), (c) and (d) shall not apply to printed advertisement and printed technical promotional material published before 30 March 2012.

2. Household refrigerating appliances placed on the market before 30 November 2011 shall comply with the provisions set out in Directive 94/2/EC.

3. Household refrigerating appliances which comply with the provisions of this Regulation and which are placed on the market or offered for sale, hire or hire-purchase before 30 November 2011 shall be regarded as complying with the requirements of Directive 94/2/EC.

*Article 10***Entry into force and application**

1. This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

2. It shall apply from 30 November 2011. However, Articles 3(d), (e), 4(b), (c) and (d) shall apply from 30 March 2012.

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

Done at Brussels, 28 September 2010.

For the Commission

The President

José Manuel BARROSO

ANNEX I

Definitions applicable for the purposes of Annexes II to IX

For the purposes of Annexes II to IX, the following definitions shall apply:

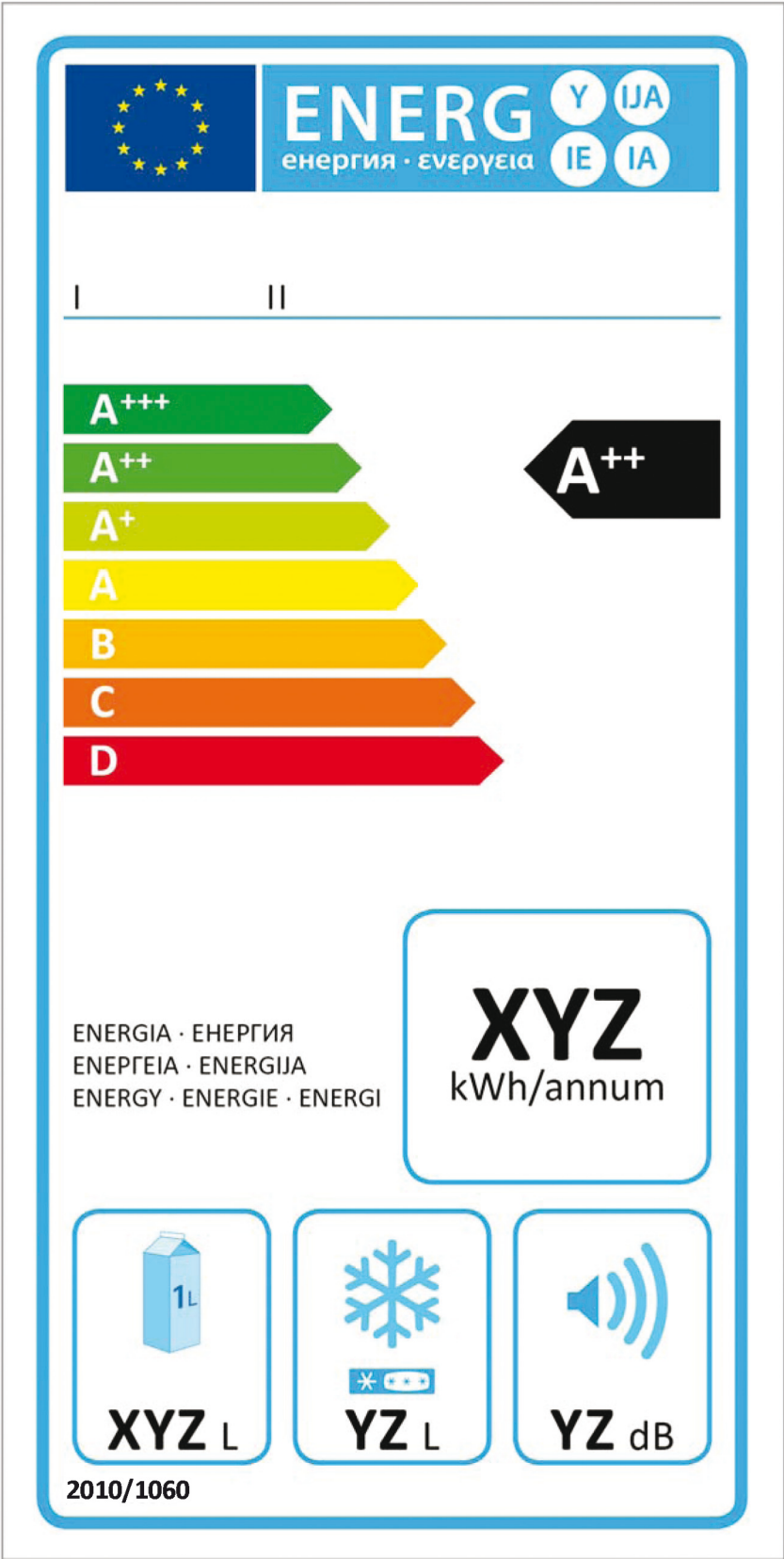
- (a) 'frost-free system' means a system automatically operated to prevent the permanent formation of frost, where cooling is provided by forced air circulation, the evaporator or evaporators are defrosted by an automatic defrost system, and the water from defrosting is disposed of automatically;
- (b) 'frost-free compartment' means any compartment defrosted by a frost-free system;
- (c) 'refrigerator-cellar' means a refrigerating appliance where at least one fresh-food storage compartment and one cellar compartment, but no frozen-food storage, chill or ice-making compartments, are present;
- (d) 'cellar' means a refrigerating appliance where only one or more cellar compartments are present;
- (e) 'refrigerator-chiller' means a refrigerating appliance where at least a fresh-food storage compartment and a chill compartment, but no frozen-food storage compartments, are present;
- (f) 'compartments' means any of the compartments listed in points (g) to (n);
- (g) 'fresh-food storage compartment' means a compartment designed for the storage of unfrozen foodstuffs, which may itself be divided into sub-compartments;
- (h) 'cellar compartment' means a compartment intended for the storage of particular foodstuffs or beverages at a temperature warmer than that of a fresh-food storage compartment;
- (i) 'chill compartment' means a compartment intended specifically for the storage of highly perishable foodstuffs;
- (j) 'ice-making compartment' means a low-temperature compartment intended specifically for the freezing and storage of ice;
- (k) 'frozen-food storage compartment' means a low-temperature compartment intended specifically for the storage of frozen foodstuffs and classified according to temperature as follows:
 - (i) 'one-star compartment': a frozen-food storage compartment in which the temperature is not warmer than -6°C ;
 - (ii) 'two-star compartment': a frozen-food storage compartment in which the temperature is not warmer than -12°C ;
 - (iii) 'three-star compartment': a frozen-food storage compartment in which the temperature is not warmer than -18°C ;
 - (iv) 'food freezer compartment' (or 'four-star compartment'): a compartment suitable for freezing at least 4,5 kg of foodstuffs per 100 l of storage volume, and in no case less than 2 kg, from ambient temperature down to -18°C over a period of 24 hours, which is also suitable for the storage of frozen food under three-star storage conditions, and may include two-star sections within the compartment;
 - (v) '0-star compartment': a frozen-food storage compartment in which the temperature is $< 0^{\circ}\text{C}$ and which can also be used for the freezing and storage of ice but is not intended for the storage of highly perishable foodstuffs;

- (l) 'wine storage compartment' means a compartment exclusively designed either for short-term wine storage to bring wines to the ideal drinking temperature or for long-term wine storage to allow wine to mature, with the following features:
- (i) continuous storage temperature, either pre-set or set manually according to the manufacturer's instructions, in the range from + 5 °C to + 20 °C;
 - (ii) storage temperature(s) within a variation over time of less than 0,5 K at each declared ambient temperature specified by the climate class for household refrigerating appliances;
 - (iii) active or passive control of the compartment humidity in the range from 50 % to 80 %;
 - (iv) constructed to reduce the transmission of vibration to the compartment, whether from the refrigerator compressor or from any external source;
- (m) 'multi-use compartment' means a compartment intended for use at two or more of the temperatures of the compartment types and capable of being set by the end-user to continuously maintain the operating temperature range applicable to each compartment type according to the manufacturer's instructions; however, where a feature can shift temperatures in a compartment to a different operating temperature range for a period of limited duration only (such as a fast-freeze facility), the compartment is not a 'multi-use compartment' as defined by this Regulation;
- (n) 'other compartment' means a compartment, other than a wine storage compartment, intended for the storage of particular foodstuffs at a temperature warmer than + 14 °C;
- (o) 'two-star section' means part of a food-freezer, a food-freezer compartment, a three-star compartment or a three-star frozen-food storage cabinet which does not have its own individual access door or lid and in which the temperature is not warmer than – 12 °C;
- (p) 'chest freezer', means a food freezer in which the compartment(s) is (are) accessible from the top of the appliance or which has both top-opening type and upright type compartments but where the gross volume of the top-opening type compartment(s) exceeds 75 % of the total gross volume of the appliance;
- (q) 'top-opening type' or 'chest type' means a refrigerating appliance with its compartment(s) accessible from the top of the appliance;
- (r) 'upright type' means a refrigerating appliance with its compartment(s) accessible from the front of the appliance;
- (s) 'fast freeze' means a reversible feature to be activated by the end-user according to the manufacturer's instructions, which decreases the storage temperature of the freezer or freezer compartment to achieve faster freezing of unfrozen foodstuffs;
- (t) 'model identifier' means the code, usually alphanumeric, which distinguishes a specific refrigerating appliance model from other models with the same trade mark or supplier's name.
-

ANNEX II

Label

1. LABEL FOR HOUSEHOLD REFRIGERATING APPLIANCES CLASSIFIED IN ENERGY EFFICIENCY CLASSES A+++ TO C



I
II

III

IV

V
VI
VII

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

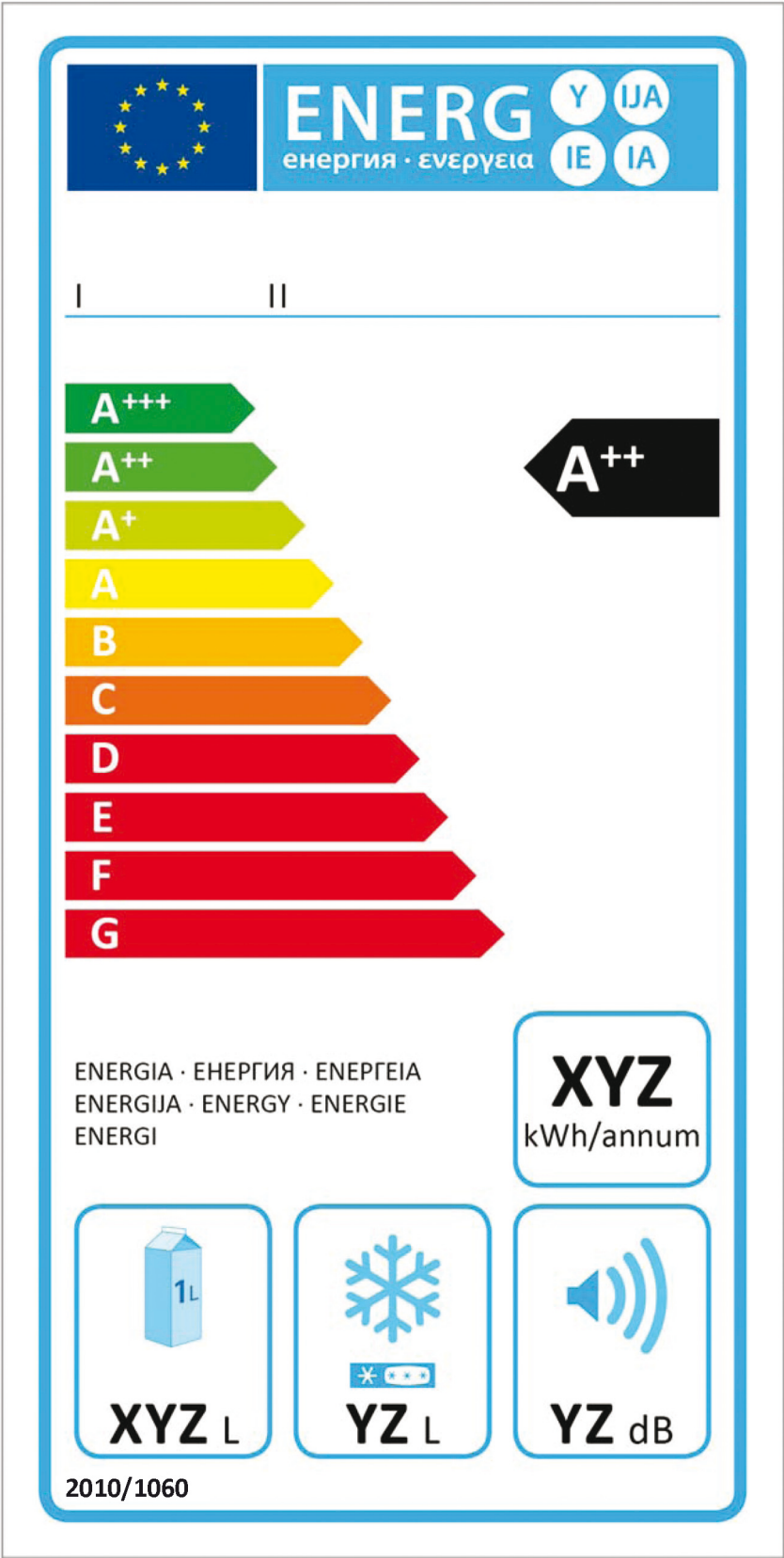
- I. supplier's name or trade mark;
- II. supplier's model identifier;
- III. the energy efficiency class determined in accordance with Annex IX; the head of the arrow containing the energy efficiency class of the household refrigerating appliance shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. annual energy consumption (AE_c) in kWh per year, rounded up to the nearest integer and calculated in accordance with point 3(2) of Annex VIII;
- V. sum of the storage volumes of all compartments that do not merit a star rating (i.e. operating temperature > -6 °C), rounded to the nearest integer;
- VI. sum of the storage volumes of all frozen-food storage compartments that merit a star rating (i.e. operating temperature ≤ -6 °C), rounded to the nearest integer and star rating of the compartment with the highest share of that sum; where the household refrigerating appliances has no frozen-food storage compartment(s) the supplier shall declare ' - L ' instead of a value and leave the position for star rating blank;
- VII. airborne acoustical noise emissions expressed in dB(A) re1 pW, rounded to the nearest integer.

However, for wine storage appliances, points V and VI are replaced by the rated capacity in number of standard bottles of 75 centilitres that may be fitted in the appliance in accordance with the manufacturer's instructions.

(2) The design of the label shall be in accordance with point 3(1) of this Annex. By way of derogation, where a model has been awarded an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council ⁽¹⁾, a copy of the EU Ecolabel may be added.

⁽¹⁾ OJ L 27, 30.1.2010, p. 1.

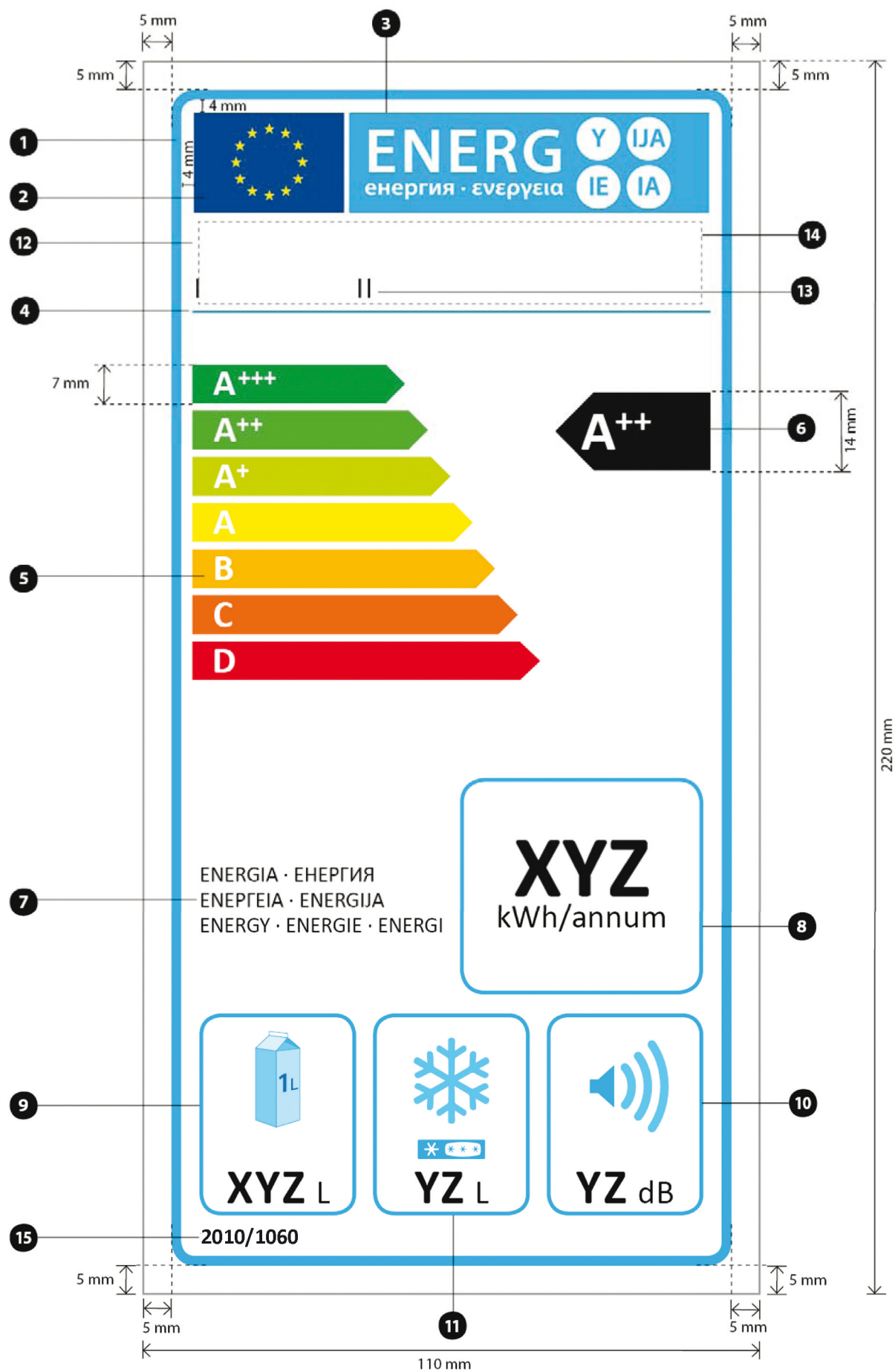
2. LABEL FOR HOUSEHOLD REFRIGERATING APPLIANCES CLASSIFIED IN ENERGY EFFICIENCY CLASSES D TO G



- (1) The information listed in point 1(1) shall be included in this label.
- (2) The design of the label shall be in accordance with point 3(2) of this Annex. By way of derogation, where a model has been awarded an 'EU Ecolabel' under Regulation (EC) No 66/2010, a copy of the EU Ecolabel may be added.

3. LABEL DESIGN

- (1) For household refrigerating appliances classified in energy efficiency classes A+++ to C, except for wine storage appliances, the design of the label shall be as the following:



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 shall nevertheless remain proportionate to the specifications above.
- (b) The background of the label 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):

❶ **EU label border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.

❷ **EU logo** — colours: X-80-00-00 and 00-00-X-00.

❸ **Energy label:** colour: X-00-00-00.

Pictogram as depicted: EU logo + energy label: width: 92 mm, height: 17 mm.

❹ **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 92,5 mm.

❺ **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 19 pt, capitals and white; '+' symbols: Calibri bold 13 pt, capitals, white, aligned on a single row.

❻ **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 and aligned on a single row.

❼ **Energy**

— **Text:** Calibri regular 11 pt, capitals, black.

8 Annual energy consumption:

- **Border:** 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 45 pt, 100 % black.
- **Second line:** Calibri regular 17 pt, 100 % black.

9 Storage volumes of all compartments that do not merit a star rating:

- **Border:** 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 25 pt, 100 % black. Calibri regular 17 pt, 100 % black.

10 Airborne acoustical noise emissions:

- **Border:** 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 25 pt, 100 % black.
Calibri regular 17 pt, 100 % black.

11 Storage volumes of all frozen-food storage compartments that merit a star rating:

- **Border:** 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 25 pt, 100 % black.
Calibri regular 17 pt, 100 % black.

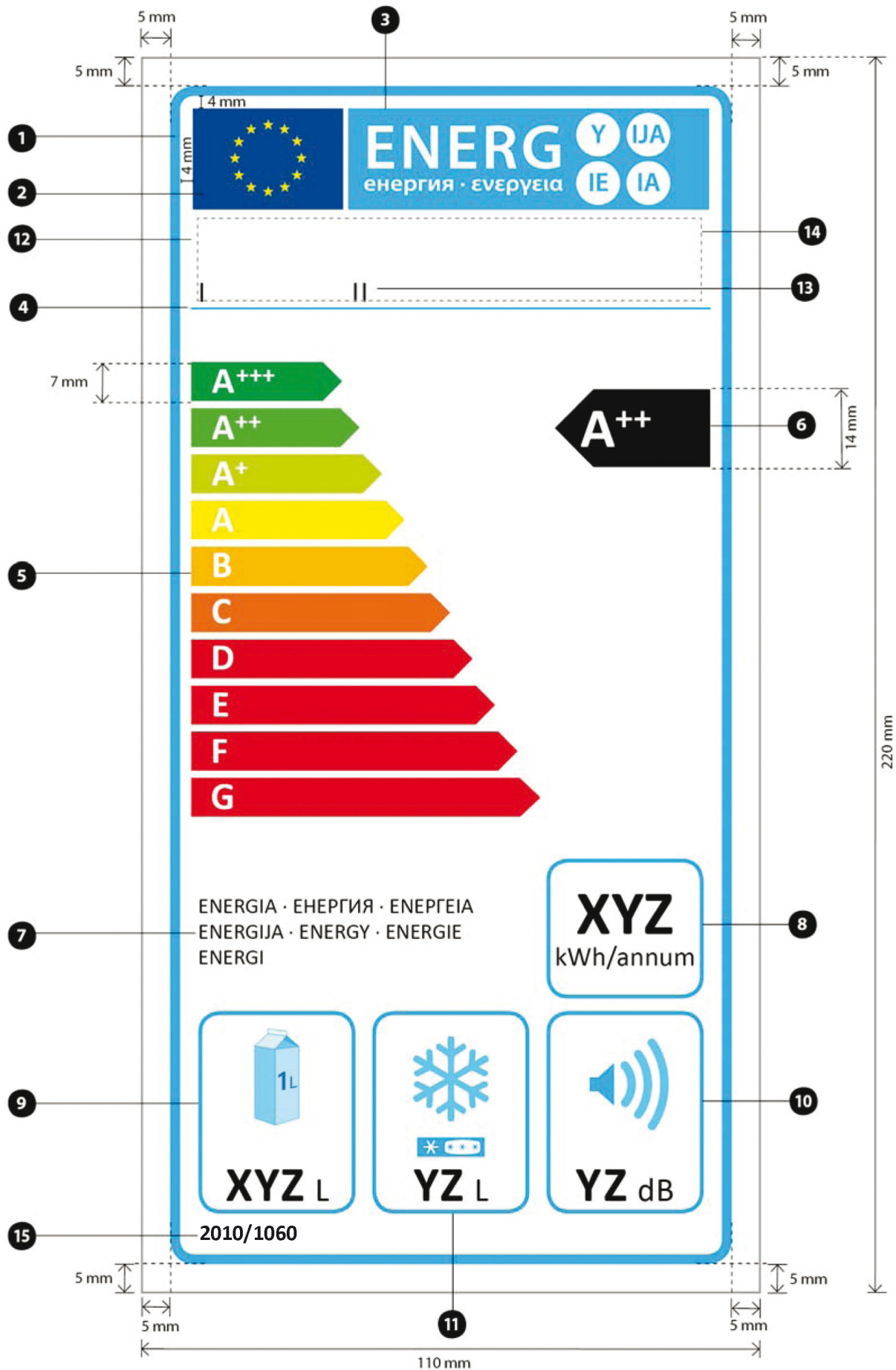
12 Supplier's name or trademark**13 Supplier's model identifier**

- 14** The supplier's name or trademark and model identifier should fit in a space of 90 x 15 mm.

15 Numbering of the Regulation:

Text: Calibri bold 11 pt.

- (2) For household refrigerating appliances classified in energy efficiency classes D to G, except for wine storage appliances, the design of the label shall be the following:



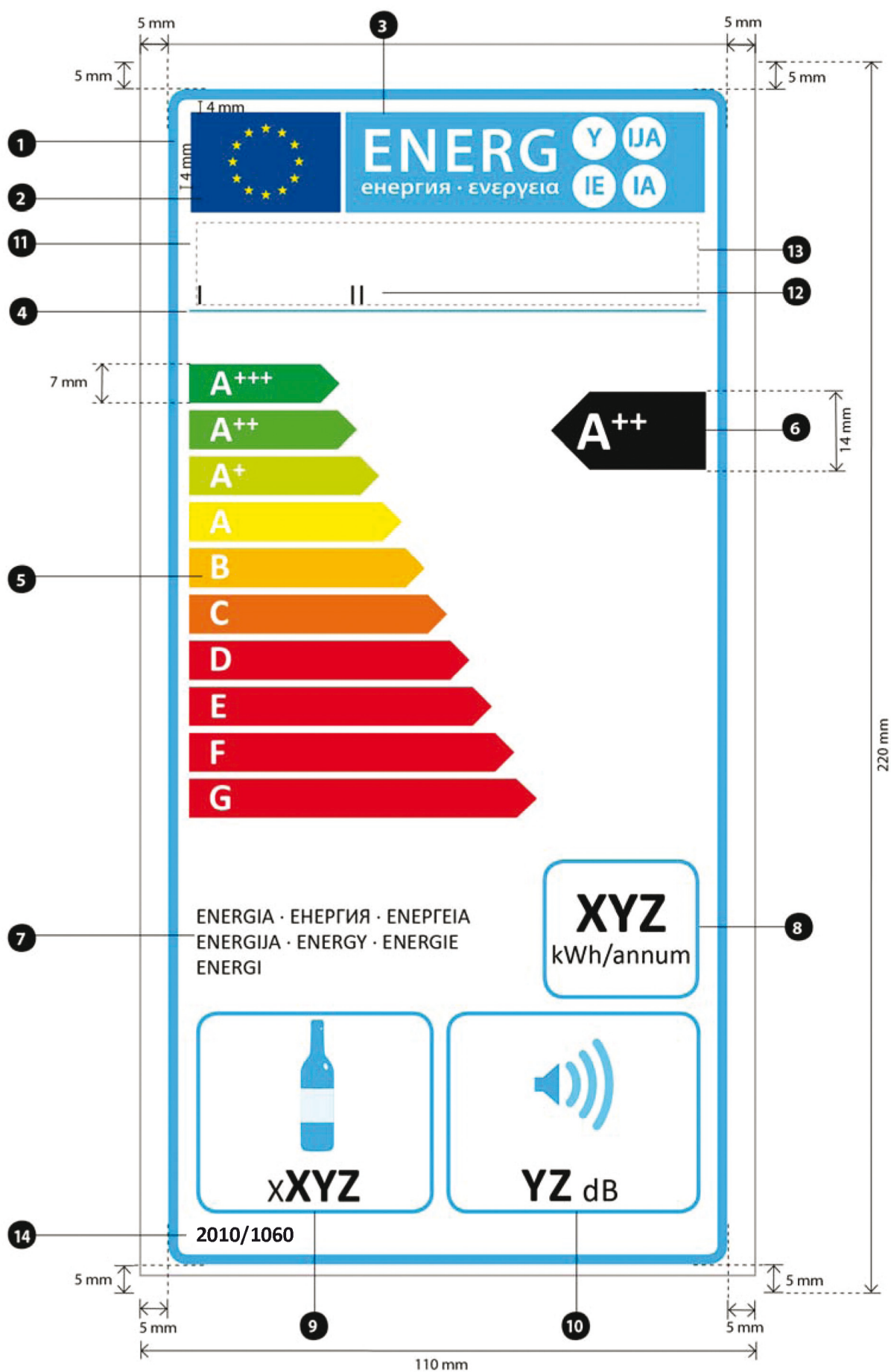
Whereby:

The design of the label shall be in accordance with point 3(1) of this Annex except for Number 8 where the following applies:

8 Annual energy consumption:

- **Border:** 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 32 pt, 100 % black.
- **Second line:** Calibri regular 14 pt, 100 % black.

(3) For wine storage appliances, the design of the label shall be the following:



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 shall nevertheless remain proportionate to the specifications above.
- (b) The background of the label 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):

❶ **EU label border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.

❷ **EU logo** — colours: X-80-00-00 and 00-00-X-00.

❸ **Energy label:** colour: X-00-00-00.

Pictogram as depicted: EU logo + energy label: width: 92 mm, height: 17 mm.

❹ **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 92,5 mm.

❺ **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(es): 00-X-X-00.

— **Text:** Calibri bold 19 pt, capitals and white; '+' symbols: Calibri bold 13 pt, capitals, white, aligned on a single row.

❻ **Energy efficiency class**

— **Arrow:** width: 26 mm, height: 14 mm, 100 % black;

— **Text:** Calibri bold 29 pt, capitals, white; '+' symbols: Calibri bold 18 pt, capitals, white, aligned on a single row.

❼ **Energy**

— **Text:** Calibri regular 11 pt, capitals, black.

⑧ Annual energy consumption:

- **Border:** 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 30 pt, 100 % black.
- **Second line:** Calibri regular 14 pt, 100 % black.

⑨ Rated capacity in number of standard wine bottles:

- **Border:** 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 28 pt, 100 % black.
Calibri regular 15 pt, 100 % black.

⑩ Airborne acoustical noise emissions:

- **Border:** 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- **Value:** Calibri bold 25 pt, 100 % black.
Calibri regular 17 pt, 100 % black.

⑪ Supplier's name or trademark**⑫ Supplier's model identifier****⑬** The suppliers' name or trade mark and model identifier should fit in a space of 90 × 15 mm**⑭ Numbering of the Regulation:**

Text: Calibri bold 11 pt.

ANNEX III

Product Fiche

1. The information in the product fiche 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 as defined in Annex I, point (t);
 - (c) category of the household refrigerating appliance model in accordance with point 1 of Annex VIII;
 - (d) energy efficiency class of the model in accordance with Annex IX;
 - (e) where the model has been awarded an 'EU Ecolabel award' under Regulation (EC) No 66/2010, this information may be included;
 - (f) annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer and calculated in accordance with point 3(2) of Annex VIII. It shall be described as: 'Energy consumption "XYZ" kWh per year, based on standard test results for 24 hours. Actual energy consumption will depend on how the appliance is used and where it is located';
 - (g) storage volume of each compartment and applicable star rating in accordance with point 1(1)VI of Annex II, if any;
 - (h) the design temperature of 'other compartments' within the meaning of point (n) of Annex I. For wine storage compartments, the coldest storage temperature, either pre-set in the compartment or capable of being set by an end-user and capable of being maintained continuously according to the manufacturer's instructions, shall be given;
 - (i) the mention 'frost-free' for the relevant compartment(s), as defined in point (b) of Annex I;
 - (j) 'power cut safe "X" h' defined as 'temperature rise time';
 - (k) 'freezing capacity' in kg/24 h;
 - (l) 'climate class' in accordance with point 1, Table 3 of Annex VIII, and expressed as: 'Climate class: W [*climate class*]. This appliance is intended to be used at an ambient temperature between "X" [*lowest temperature*] °C and "X" [*highest temperature*] °C';
 - (m) airborne acoustical noise emissions expressed in dB(A) re1 pW, rounded to the nearest integer;
 - (n) if the model is intended to be a built-in appliance, an indication to this effect;
 - (o) for wine storage appliances, the following information: 'This appliance is intended to be used exclusively for the storage of wine'. This point shall not apply to household refrigerating appliances that are not specifically designed for wine storage but may nevertheless be used for this purpose, nor to household refrigerating appliances that have a wine storage compartment combined with any other compartment type.
 2. One fiche may cover a number of refrigerating appliances models supplied by the same supplier.
 3. The information contained in the fiche 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 IV

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 refrigerating appliance 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, established in accordance with Annex VIII:
 - (i) overall dimensions;
 - (ii) overall space required in use;
 - (iii) total gross volumes(s);
 - (iv) storage volume(s) and total storage volume(s);
 - (v) star rating(s) of the frozen-food storage compartment(s);
 - (vi) defrosting type;
 - (vii) storage temperature;
 - (viii) energy consumption;
 - (ix) temperature rise time;
 - (x) freezing capacity;
 - (xi) power consumption;
 - (xii) wine storage compartment humidity;
 - (xiii) airborne acoustical noise emissions;
 - (g) the results of calculations performed in accordance with Annex VIII.
 2. Where the information included in the technical documentation file for a particular household refrigerating appliance model has been obtained by calculation on the basis of design, or extrapolation from other equivalent refrigerating appliances, 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 refrigerating appliance models where the information was obtained on the same basis.
-

ANNEX V

Information to be provided in the cases where end-users cannot be expected to see the product displayed

1. The information referred to in Article 4(b) shall be provided in the following order:
 - (a) the energy efficiency class of the model as defined in Annex IX;
 - (b) the annual energy consumption in kWh per year, rounded up to the nearest integer and calculated in accordance with point 3(2) of Annex VIII;
 - (c) the storage volume of each compartment and applicable star rating in accordance with point 1(1)VI of Annex II, if any;
 - (d) the 'climate class' in accordance with point 1, Table 3 of Annex VIII;
 - (e) airborne acoustical noise emissions expressed in dB(A) re1 pW, rounded to the nearest integer;
 - (f) if the model is intended to be built-in, an indication to this effect;
 - (g) for wine storage appliances the following information: 'This appliance is intended to be used exclusively for the storage of wine'. This point shall not apply to household refrigerating appliances that are not specifically designed for wine storage but may nevertheless be used for this purpose, nor to household refrigerating appliances that have a wine storage compartment combined with any other compartment type.
 2. Where other information contained in the product fiche is also provided, it shall be in the form and order specified in Annex III.
 3. The size and font in which all the information referred in this Annex is printed or shown shall be legible.
-

ANNEX VI

Measurements

1. For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements shall be made using a reliable, accurate and reproducible measurement procedure that takes into account the generally recognised state-of-the-art measurement methods, including methods set out in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

2. GENERAL CONDITIONS FOR TESTING

The following general conditions for testing apply:

- (1) if anti-condensation heaters that can be switched on and off by the end-user are provided, they shall be switched on and — if adjustable — set at maximum heating;
- (2) if 'through-the-door devices' (such as ice or chilled water/drinks dispensers) which can be switched on and off by the end-user are provided, they shall be switched on during the energy consumption measurement but not operated;
- (3) for multi-use appliances and compartments, the storage temperature during the measurement of energy consumption shall be the nominal temperature of the coldest compartment type as claimed for continuous normal use according to the manufacturer's instructions;
- (4) the energy consumption of a household refrigerating appliance shall be determined in the coldest configuration, according to the manufacturer's instructions for continuous normal use for any 'other compartment' as defined in Annex VIII, Table 5.

3. TECHNICAL PARAMETERS

The following parameters shall be established:

- (a) 'overall dimensions', which are measured to the nearest millimetre;
 - (b) 'overall space required in use', which is measured to the nearest millimetre;
 - (c) 'total gross volumes(s)', which is measured to the nearest whole number of cubic decimetres or litres;
 - (d) 'storage volume(s) and total storage volume(s)', which is measured to the nearest whole number of cubic decimetres or of litres;
 - (e) 'defrosting type';
 - (f) 'storage temperature';
 - (g) 'energy consumption' which is expressed in kilowatt hours per 24 hours (kWh/24h), to three decimal places;
 - (h) 'temperature rise time';
 - (i) 'freezing capacity';
 - (j) 'wine storage compartment humidity', which is expressed as a percentage rounded to the nearest integer; and
 - (k) 'airborne acoustical noise emissions'.
-

ANNEX VII

Verification procedure for market surveillance purposes

For the purposes of checking conformity with the requirements laid down in Articles 3 and 4, Member State authorities shall test a single household refrigerating appliance. If the measured parameters do not meet the values declared by the supplier within the ranges defined in Table 1, the measurements shall be made on three more household refrigerating appliances. The arithmetical mean of the measured values of these three household refrigerating appliances shall meet the requirements within the ranges defined in Table 1.

Otherwise, the model and all other equivalent household refrigerating appliance models shall be considered not to comply.

In addition to the procedure set out in Annex VI, Member State authorities shall use reliable, accurate and reproducible measurement procedures, which take into account the generally recognised state-of-the-art, including methods set out in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

Table 1

Measured parameter	Verification tolerances
Rated gross volume	The measured value shall not be less than the rated value (*) by more than 3 % or 1 l, whichever is the greater value.
Rated storage volume	The measured value shall not be less than the rated value by more than 3 % or 1 l, whichever is the greater value. Where the volumes of the cellar compartment and fresh food storage compartment are adjustable, relative to one another by the user, this measurement uncertainty applies when the cellar compartment is adjusted to its minimum volume.
Freezing capacity	The measured value shall not be less than the rated value by more than 10 %.
Energy consumption	The measured value shall not be greater than the rated value (E_{24h}) by more than 10 %.
Wine storage appliances	The value measured for the relative humidity shall not exceed the nominal range by more than 10 %.
Airborne acoustical noise emissions	The measured value shall meet the rated value.

(*) 'Rated value' means a value that is declared by the manufacturer.

ANNEX VIII

Classification of household refrigerating appliances, method for calculating the equivalent volume and the Energy Efficiency Index

1. CLASSIFICATION OF HOUSEHOLD REFRIGERATING APPLIANCES

Household refrigerating appliances are classified into categories as listed in Table 1.

Each category is defined by the specific compartment composition as specified in Table 2 and is independent of the number of doors and/or drawers.

*Table 1***Household refrigerating appliances categories**

Category	Designation
1	Refrigerator with one or more fresh-food storage compartments
2	Refrigerator-cellar, Cellar and Wine storage appliances
3	Refrigerator-chiller and Refrigerator with a 0-star compartment
4	Refrigerator with a one-star compartment
5	Refrigerator with a two-star compartment
6	Refrigerator with a three-star compartment
7	Refrigerator-freezer
8	Upright freezer
9	Chest freezer
10	Multi-use and other refrigerating appliances

Household refrigerating appliances that cannot be classified in categories 1 to 9 because of compartment temperature are classified in category 10.

Table 2

Household refrigerating appliance classification and relevant compartment composition

Nominal temperature (for the EEI) (°C)	Design T	+ 12	+ 12	+ 5	0	0	− 6	− 12	− 18	− 18	Category (number)
Compartment types	Other	Wine storage	Cellar	Fresh food storage	Chill	0-star/Ice making	one-star	two-star	three-star	four-star	
Appliance category	Compartments composition										
REFRIGERATOR WITH ONE OR MORE FRESH-FOOD STORAGE COMPARTMENTS	N	N	N	Y	N	N	N	N	N	N	1
REFRIGERATOR-CELLAR, CELLAR and WINE STORAGE APPLIANCE	O	O	O	Y	N	N	N	N	N	N	2
	O	O	Y	N	N	N	N	N	N	N	
	N	Y	N	N	N	N	N	N	N	N	
REFRIGERATOR-CHILLER and REFRIGERATOR WITH A 0-STAR COMPARTMENT	O	O	O	Y	Y	O	N	N	N	N	3
	O	O	O	Y	O	Y	N	N	N	N	
REFRIGERATOR WITH A ONE-STAR COMPARTMENT	O	O	O	Y	O	O	Y	N	N	N	4
REFRIGERATOR WITH A TWO-STAR COMPARTMENT	O	O	O	Y	O	O	O	Y	N	N	5
REFRIGERATOR WITH A THREE-STAR COMPARTMENT	O	O	O	Y	O	O	O	O	Y	N	6
REFRIGERATOR-FREEZER	O	O	O	Y	O	O	O	O	O	Y	7
UPRIGHT FREEZER	N	N	N	N	N	N	N	O	(Y) ⁽⁴⁾	Y	8
CHEST FREEZER	N	N	N	N	N	N	N	O	N	Y	9
MULTI-USE AND OTHER APPLIANCES	O	O	O	O	O	O	O	O	O	O	10

Notes:

Y = the compartment is present; N = the compartment is not present; O = the presence of the compartment is optional;

^(*) also includes three-star frozen-food cabinets.

Household refrigerating appliances are classified in one or more climate classes as specified in Table 3.

Table 3
Climate classes

Class	Symbol	Ambient average temperature °C
Extended temperate	SN	+ 10 to + 32
Temperate	N	+ 16 to + 32
Subtropical	ST	+ 16 to + 38
Tropical	T	+ 16 to + 43

The refrigerating appliance shall be capable of maintaining the required storage temperatures in the different compartments simultaneously and within the permitted temperature deviations (during the defrost cycle) as specified in Table 4 for the different types of household refrigerating appliances and for the appropriate climate classes.

Multi-use appliances and compartments shall be capable of maintaining the required storage temperatures of the different compartment types where these temperatures can be set by the end-user according to the manufacturer's instructions.

Table 4
Storage temperatures

Storage temperatures (°C)							
Other compartment	Wine storage compartment	Cellar compartment	Fresh-food storage compartment	Chill compartment	One-star compartment	Two-star compartment/section	Food freezer and three-star compartment/cabinet
t_{om}	t_{wma}	t_{cm}	$t_{1m}, t_{2m}, t_{3m}, t_{ma}$	t_{cc}	t^*	t^{**}	t^{***}
> + 14	+ 5 ≤ $t_{wma} \leq + 20$	+ 8 ≤ $t_{cm} \leq + 14$	0 ≤ $t_{1m}, t_{2m}, t_{3m} \leq + 8$; $t_{ma} \leq + 4$	- 2 ≤ $t_{cc} \leq + 3$	≤ - 6	≤ - 12 ^(a)	≤ - 18 ^(a)

Notes:

- t_{om} : storage temperature of the other compartment.
- t_{wma} : storage temperature of the wine storage compartment with a variation of 0,5 K.
- t_{cm} : storage temperature of the cellar compartment.
- t_{1m}, t_{2m}, t_{3m} : storage temperatures of the fresh-food compartment.
- t_{ma} : average storage temperature of the fresh-food compartment.
- t_{cc} : instantaneous storage temperature of the chill compartment.
- t^*, t^{**}, t^{***} : maximum temperatures of the frozen-food storage compartments.
- storage temperature for the ice-making compartment and for the '0-star' compartment is below 0 °C.
- ^(a) for frost-free household refrigerating appliances during the defrost cycle, a temperature deviation of no more than 3 K during a period of 4 hours or 20 % of the duration of the operating cycle, whichever is the shorter, is allowed.

2. CALCULATION OF THE EQUIVALENT VOLUME

The equivalent volume of a household refrigerating appliance is the sum of the equivalent volumes of all compartments. It is calculated in litres and rounded to the nearest integer as:

$$V_{eq} = \left[\sum_{c=1}^{c=n} V_c \times \frac{(25 - T_c)}{20} \times FF_c \right] \times CC \times BI$$

where:

- n is the number of compartments,
- V_c is the storage volume of the compartment(s),
- T_c is the nominal temperature of the compartment(s) as set out in Table 2,
- $\frac{(25-T_c)}{20}$ is the thermodynamic factor as set in Table 5,
- FF_c , CC and BI are volume correction factors as set out in Table 6.

The thermodynamic correction factor $\frac{(25-T_c)}{20}$ is the temperature difference between the nominal temperature of a compartment T_c (defined in Table 2) and the ambient temperature under standard test conditions at + 25 °C, expressed as a ratio of the same difference for a fresh-food compartment at + 5 °C.

The thermodynamic factors for the compartments described in Annex I, points (g) to (n), are set out in Table 5.

Table 5

Thermodynamic factors for refrigerating appliance compartments

Compartment	Nominal temperature	$(25-T_c)/20$
Other compartment	Design temperature	$\frac{(25-T_c)}{20}$
Cellar compartment/Wine storage compartment	+ 12 °C	0,65
Fresh-food storage compartment	+ 5 °C	1,00
Chill compartment	0 °C	1,25
Ice-making compartment and 0-star compartment	0 °C	1,25
One-star compartment	– 6 °C	1,55
Two-star compartment	– 12 °C	1,85
Three-star compartment	– 18 °C	2,15
Food freezer compartment (four-star compartment)	– 18 °C	2,15

Notes:

- (i) for multi-use compartments, the thermodynamic factor is determined by the nominal temperature as given in Table 2 of the coldest compartment type capable of being set by the end-user and maintained continuously according to the manufacturer's instructions;
- (ii) for any two-star section (within a freezer) the thermodynamic factor is determined at $T_c = -12$ °C;
- (iii) for other compartments the thermodynamic factor is determined by the coldest design temperature capable of being set by the end-user and maintained continuously according to the manufacturer's instructions.

Table 6

Value of the correction factors

Correction factor	Value	Conditions
FF (frost-free)	1,2	For frost-free frozen-food storage compartments
	1	Otherwise
CC (climate class)	1,2	For T class (tropical) appliances
	1,1	For ST class (subtropical) appliances
	1	Otherwise
BI (built-in)	1,2	For built-in appliances under 58 cm in width
	1	Otherwise

Notes:

- (i) FF is the volume correction factor for frost-free compartments;
- (ii) CC is the volume correction factor for a given climate class. If a refrigerating appliance is classified in more than one climate class, the climate class with the highest correction factor is used for the calculation of the equivalent volume;
- (iii) BI is the volume correction factor for built-in appliances.

3. CALCULATION OF THE ENERGY EFFICIENCY INDEX

For the calculation of the Energy Efficiency Index (*EEL*) of a household refrigerating appliance model, the annual energy consumption of the household refrigerating appliance is compared to its standard annual energy consumption.

- (1) The Energy Efficiency Index (*EEL*) is calculated and rounded to the first decimal place, as:

$$EEL = \frac{AE_C}{SAE_C} \times 100$$

where:

AE_C = annual energy consumption of the household refrigerating appliance

SAE_C = standard annual energy consumption of the household refrigerating appliance.

- (2) The annual energy consumption (AE_C) is calculated in kWh/year and rounded to two decimal places, as:

$$AE_C = E_{24h} \times 365$$

where:

E_{24h} is the energy consumption of the household refrigerating appliance in kWh/24h and rounded to three decimal places.

- (3) The standard annual energy consumption (SAE_C) is calculated in kWh/year and rounded to two decimal places, as:

$$SAE_C = V_{eq} \times M + N + CH$$

where:

V_{eq} is the equivalent volume of the household refrigerating appliance

CH is equal to 50 kWh/year for household refrigerating appliances with a chill compartment with a storage volume of at least 15 litres

the M and N values are given in Table 7 for each household refrigerating appliance category.

Table 7

M and N values by household refrigerating appliance category

Category	M	N
1	0,233	245
2	0,233	245
3	0,233	245
4	0,643	191
5	0,450	245
6	0,777	303
7	0,777	303
8	0,539	315
9	0,472	286
10	(*)	(*)

(*) Note: for Category 10 household refrigerating appliances the M and N values depend on the temperature and star rating of the compartment with the lowest storage temperature capable of being set by the end-user and maintained continuously according to the manufacturer's instructions. When only an 'other compartment' as defined in Table 2 and Annex I, point (n), is present, the M and N values for Category 1 are used. Appliances with three-star compartments or food-freezer compartments are considered to be refrigerator-freezers.

ANNEX IX

Energy efficiency classes

The energy efficiency class of a household refrigerating appliance shall be determined on the basis of its Energy Efficiency Index (*EEI*) as set out in Table 1 from 20 December 2011 until 30 June 2014 and Table 2 from 1 July 2014.

The Energy Efficiency Index of a household refrigerating appliance shall be determined in accordance with point 3 of Annex VIII.

Table 1

Energy efficiency classes until 30 June 2014

Energy efficiency class	Energy Efficiency Index
A+++ (most efficient)	$EEI < 22$
A++	$22 \leq EEI < 33$
A+	$33 \leq EEI < 44$
A	$44 \leq EEI < 55$
B	$55 \leq EEI < 75$
C	$75 \leq EEI < 95$
D	$95 \leq EEI < 110$
E	$110 \leq EEI < 125$
F	$125 \leq EEI < 150$
G (least efficient)	$EEI \geq 150$

Table 2

Energy efficiency classes from 1 July 2014

Energy efficiency class	Energy Efficiency Index
A+++ (most efficient)	$EEI < 22$
A++	$22 \leq EEI < 33$
A+	$33 \leq EEI < 42$
A	$42 \leq EEI < 55$
B	$55 \leq EEI < 75$
C	$75 \leq EEI < 95$
D	$95 \leq EEI < 110$
E	$110 \leq EEI < 125$
F	$125 \leq EEI < 150$
G (least efficient)	$EEI \geq 150$

COMMISSION DELEGATED REGULATION (EU) No 1061/2010**of 28 September 2010****supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of household washing machines****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

Having regard to Directive 2010/30/EU of the European Parliament and of the Council of 19 May 2010 on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products ⁽¹⁾, and in particular Article 10 thereof,

Whereas:

- (1) Directive 2010/30/EU requires the Commission to adopt delegated acts as regards the labelling of energy-related products representing significant potential for energy savings and having a wide disparity in performance levels with equivalent functionality.
- (2) Provisions on the energy labelling of household washing machines were established by Commission Directive 95/12/EC of 23 May 1995 implementing Council Directive 92/75/EEC with regard to energy labelling of household electric washing machines ⁽²⁾.
- (3) The electricity used by household washing machines accounts for a significant share of total household electricity demand in the Union. In addition to the energy efficiency improvements already achieved, the scope for further reducing the energy consumption of household washing machines is substantial.
- (4) Directive 95/12/EC should be repealed and new provisions should be laid down by this Regulation in order to ensure that the energy label provides dynamic incentives for suppliers to further improve the energy efficiency of household washing machines and to accelerate the market transformation towards energy-efficient technologies.

- (5) Household combined washer-driers fall within the scope of Commission Directive 96/60/EC of 19 September 1996 implementing Council Directive 92/75/EEC with regard to energy labelling of household combined washer-driers ⁽³⁾ and should therefore be excluded from the scope of this Regulation. However, considering that they offer similar functionalities to household washing machines, a revision of Directive 96/60/EC should take place as soon as possible.
- (6) The information provided on the label should be obtained through reliable, accurate and reproducible measurement procedures, which take into account the recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services ⁽⁴⁾.
- (7) This Regulation should specify a uniform design and content for the label for household washing machines.
- (8) In addition, this Regulation should specify requirements as to the technical documentation and the fiche for household washing machines.
- (9) Moreover, this Regulation should specify requirements as to the information to be provided for any form of distance selling, advertisements and technical promotional materials for household washing machines.
- (10) It is appropriate to provide for a review of the provisions of this Regulation taking into account technological progress.
- (11) In order to facilitate the transition from Directive 95/12/EC to this Regulation, provisions should be made that household washing machines labelled in accordance with this Regulation should be considered as compliant with Directive 95/12/EC.

⁽¹⁾ OJ L 153, 18.6.2010, p. 1.

⁽²⁾ OJ L 47, 24.2.1996, p. 35.

⁽³⁾ OJ L 266, 18.10.1996, p. 1.

⁽⁴⁾ OJ L 204, 21.7.1998, p. 37.

(12) Directive 95/12/EC should therefore be repealed,

HAS ADOPTED THIS REGULATION:

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 washing machines that can also be powered by batteries, including those sold for non-household use and built-in household washing machines.

2. This Regulation shall not apply to household combined washer-driers.

Article 2

Definitions

In addition to the definitions laid down in Article 2 of Directive 2010/30/EU, the following definitions shall apply for the purposes of this Regulation:

- (1) 'household washing machine' means an automatic washing machine which cleans and rinses textiles using water, which also has a spin extraction function and which is designed to be used principally for non-professional purposes;
- (2) 'built-in household washing machine' means a household washing machine intended to be installed in a cabinet, a prepared recess in a wall or a similar location, requiring furniture finishing;
- (3) 'automatic washing machine' means a washing machine where the load is fully treated by the machine without the need for user intervention at any point during the programme;
- (4) 'household combined washer-drier' means a household washing machine which includes both a spin extraction function and also a means for drying the textiles, usually by heating and tumbling;
- (5) 'programme' means a series of operations that are pre-defined and which are declared by the supplier as suitable for washing certain types of textile;
- (6) 'cycle' means a complete washing, rinsing and spinning process, as defined for the selected programme;

(7) '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;

(8) 'rated capacity' means the maximum mass in kilograms stated by the supplier at 0,5 kg intervals of dry textiles of a particular type, which can be treated in a household washing machine on the selected programme, when loaded in accordance with the supplier's instructions;

(9) 'partial load' means half of the rated capacity of a household washing machine for a given programme;

(10) 'remaining moisture content' means the amount of moisture contained in the load at the end of the spinning phase;

(11) 'off-mode' means a condition where the household washing machine is switched off using appliance controls or switches accessible to and intended for operation by the end-user during normal use to attain the lowest power consumption that may persist for an indefinite time while the household washing machine is connected to a power source and used in accordance with the supplier's instructions; where there is no control or switch accessible to the end-user, 'off-mode' means the condition reached after the household washing 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 without any further intervention by the end-user besides unloading of the household washing machine;

(13) 'equivalent household washing machine' means a model of household washing machine placed on the market with the same rated capacity, technical and performance characteristics, energy and water consumption and airborne acoustical noise emissions during washing and spinning as another model of household washing machine placed on the market under a different commercial code number by the same supplier;

(14) 'end-user' means a consumer buying or expected to buy a household washing machine;

(15) 'point of sale' means a location where household washing machines are displayed or offered for sale, hire or hire-purchase.

*Article 3***Responsibilities of suppliers**

Suppliers shall ensure that:

- (a) each household washing machine, is supplied with a printed label in the format and containing information as set out in Annex I;
- (b) a product fiche, as set out in Annex II, is made available;
- (c) the technical documentation as set out in Annex III is made available on request to the authorities of the Member States and to the Commission;
- (d) any advertisement for a specific model of household washing machine contains the energy efficiency class, if the advertisement discloses energy-related or price information;
- (e) any technical promotional material concerning a specific model of household washing machine which describes its specific technical parameters includes the energy efficiency class of that model.

*Article 4***Responsibilities of dealers**

Dealers shall ensure that:

- (a) each household washing machine, at the point of sale, bears the label provided by suppliers in accordance with Article 3(a) on the outside of the front or top of the household washing machine, in such a way as to be clearly visible;
- (b) household washing machines offered for sale, hire or hire-purchase where the end-user cannot be expected to see the product displayed are marketed with the information to be provided by suppliers in accordance with Annex IV;
- (c) any advertisement for a specific model of household washing machine contains a reference to its energy efficiency class, if the advertisement discloses energy-related or price information;
- (d) any technical promotional material concerning a specific model of household washing machine, which describes its specific technical parameters includes a reference to the energy efficiency class of that model.

*Article 5***Measurement methods**

The information to be provided pursuant to Articles 3 and 4 shall be obtained by reliable, accurate and reproducible

measurement procedures, which take into account the recognised state-of-the-art measurement methods.

*Article 6***Verification procedure for market surveillance purposes**

Member States shall apply the procedure laid down in Annex V when assessing the conformity of the declared energy efficiency class, the annual energy consumption, annual water consumption, spin-drying efficiency class, power consumption in off-mode and left-on mode, duration of the left-on mode, remaining moisture content, spin speed and airborne acoustical noise emissions.

*Article 7***Revision**

The Commission shall review this Regulation in the light of technological progress no later than four years after its entry into force. The review shall in particular assess the verification tolerances set out in Annex V.

*Article 8***Repeal**

Directive 95/12/EC shall be repealed from 20 December 2011.

*Article 9***Transitional provisions**

1. Articles 3(d), (e), 4(b), (c) and (d) shall not apply to printed advertisements and printed technical promotional material published before 20 April 2012.

2. Household washing machines placed on the market before 20 December 2011 shall comply with the provisions set out in Directive 95/12/EC.

3. If an implementing measure for Directive 2009/125/EC of the European Parliament and of the Council⁽¹⁾ with regards to ecodesign requirements for household washing machines was adopted, household washing machines, which comply with the provisions of this implementing measure with respect to the washing efficiency requirements and with the provisions of this Regulation, and which are placed on the market or offered for sale, hire or hire-purchase before 20 December 2011 shall be regarded as complying with the requirements of Directive 95/12/EC.

⁽¹⁾ OJ L 285, 31.10.2009, p. 10.

*Article 10***Entry into force and application**

1. This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.
2. It shall apply from 20 December 2011. However, Articles 3(d), (e), 4(b), (c) and (d) shall apply from 20 April 2012.

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

Done at Brussels, 28 September 2010.

For the Commission

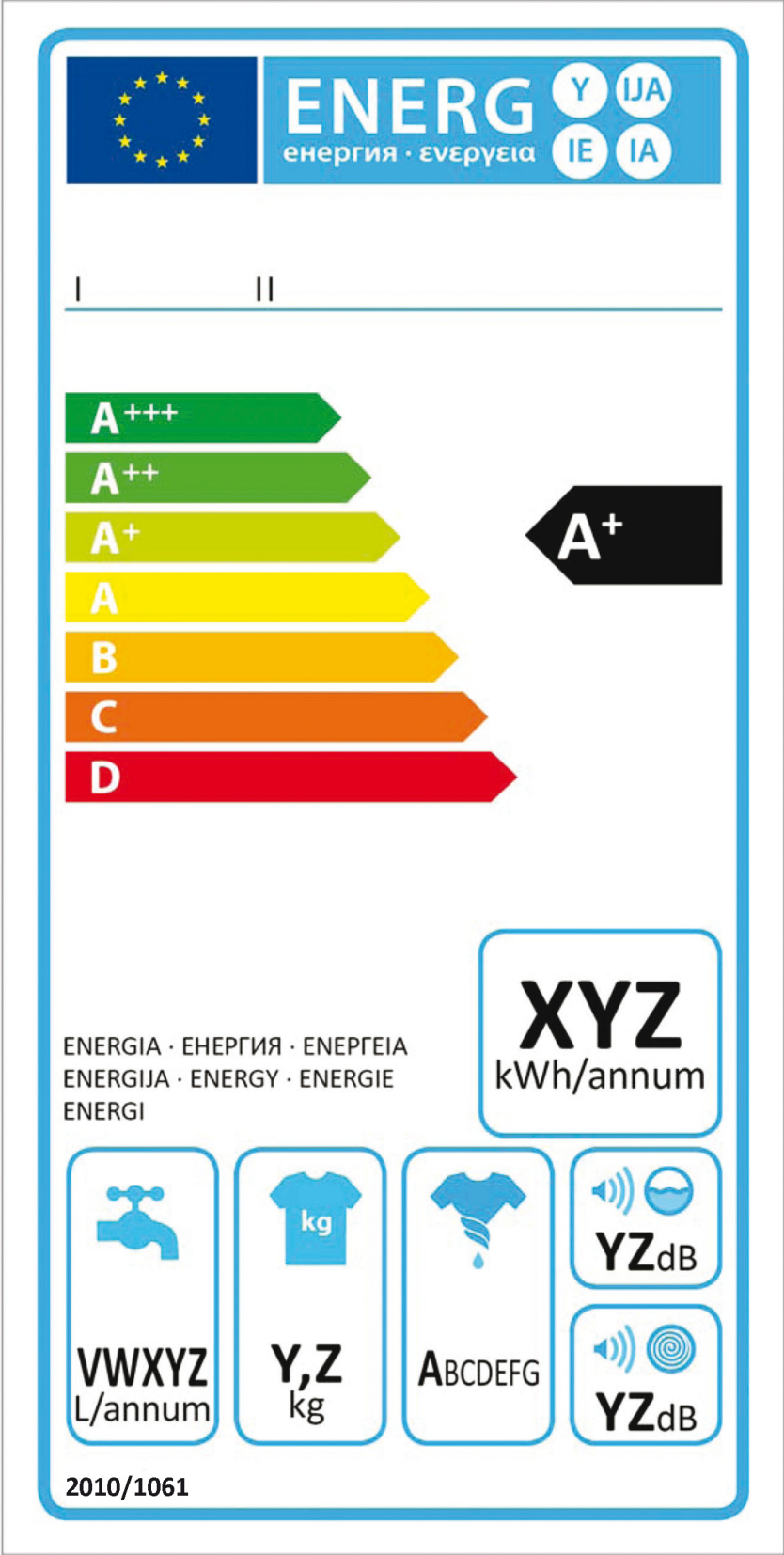
The President

José Manuel BARROSO

ANNEX I

Label

1. LABEL



I
II

III

IV

V
VI
VII
VIII

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

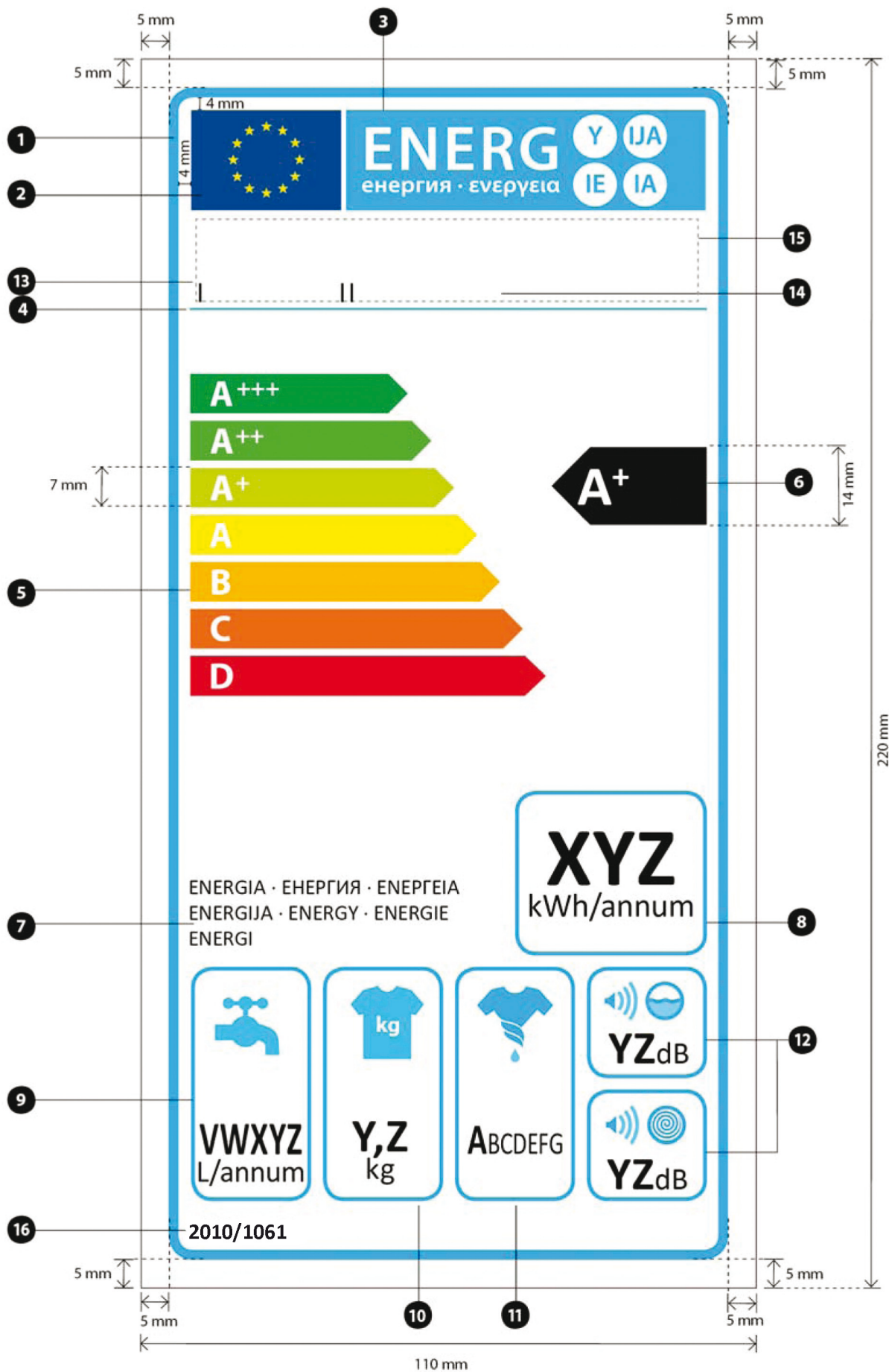
- I. supplier's name or trade mark;
- II. supplier's model identifier, meaning the code, usually alphanumeric, which distinguishes a specific household washing machine model from other models with the same trade mark or supplier's name;
- III. the energy efficiency class determined in accordance with point 1 of Annex VI; the head of the arrow containing the energy efficiency class of the household washing machine shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. weighted annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer in accordance with Annex VII;
- V. weighted annual water consumption (AW_C), in litres per year, rounded up to the nearest integer in accordance with Annex VII;
- VI. rated capacity, in kg, for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at full load, whichever is the lower;
- VII. the spin-drying efficiency class as set out in point 2 of Annex VI;
- VIII. airborne acoustical noise emissions, during the washing and spinning phases, for the standard 60 °C cotton programme at full load, expressed in dB(A) re 1 pW, rounded to the nearest integer.

(2) The design of the label shall be in accordance with point 2. By way of derogation, where a model has been awarded an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council ⁽¹⁾, a copy of the EU Ecolabel may be added.

2. LABEL DESIGN

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

⁽¹⁾ OJ L 27, 30.1.2010, p. 1.



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):

❶ **Border stroke:** 5 pt — colour: Cyan 100 % — round corners: 3,5 mm.

❷ **EU logo** — colours: X-80-00-00 and 00-00-X-00.

❸ **Energy logo:** colour: X-00-00-00.

Pictogram as depicted: EU logo and energy logo (combined); width: 92 mm, height: 17 mm.

❹ **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 92,5 mm.

❺ **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.

❻ **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; and 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; and 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; and 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.
-

ANNEX II

Product Fiche

1. The information in the product fiche of the household washing machine 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 model from other models with the same trade mark or supplier's name;
 - (c) rated capacity in kg of cotton for the standard 60 °C cotton programme at full load or the 40 °C cotton programme at full load, whichever is the lower;
 - (d) energy efficiency class in accordance with point 1 of Annex VI;
 - (e) where the household washing machine has been awarded an 'EU Ecolabel award' under Regulation (EC) No 66/2010, this information may be included;
 - (f) weighted annual energy consumption (AE_C) in kWh per year, rounded up to the nearest integer; it shall be described as: 'Energy consumption "X" kWh per year, based on 220 standard washing cycles for cotton programmes at 60 °C and 40 °C at full and partial load, and the consumption of the low-power modes. Actual energy consumption will depend on how the appliance is used.';
 - (g) the energy consumption ($E_{t,60}$, $E_{t,60\frac{1}{2}}$, $E_{t,40\frac{1}{2}}$) of the standard 60 °C cotton programme at full load and partial load and of the standard 40 °C cotton programme at partial load;
 - (h) weighted power consumption of the off-mode and of the left-on mode;
 - (i) weighted annual water consumption (AW_C) in litres per year, rounded up to the nearest integer; it shall be described as: 'Water consumption "X" litres per year, based on 220 standard washing cycles for cotton programmes at 60 °C and 40 °C at full and partial load. Actual water consumption will depend on how the appliance is used.';
 - (j) spin-drying efficiency class determined in accordance with point 2 of Annex VI, 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);
 - (k) maximum spin speed attained for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at partial load, whichever is the lower, and remaining moisture content attained for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at partial load, whichever is the greater;
 - (l) indication that the 'standard 60 °C cotton programme' and the 'standard 40 °C cotton programme' are the standard washing programmes to which the information in the label and the fiche relates, that these programmes are suitable to clean normally soiled cotton laundry and that they are the most efficient programmes in terms of combined energy and water consumption;
 - (m) the programme time of the 'standard 60 °C cotton programme' at full and partial load and of the 'standard 40 °C cotton programme' at partial load in minutes and rounded to the nearest minute;
 - (n) the duration of the left-on mode (T_l) if the household washing machine is equipped with a power management system;
 - (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 standard 60 °C cotton programme at full load;
 - (p) if the household washing machine is intended to be built-in, an indication to this effect.
2. One fiche may cover a number of household washing machine models supplied by the same supplier.
3. The information contained in the fiche 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 III

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 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 model releases or not silver ions during the washing cycle as follows: 'This product releases/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 VII.
 2. Where the information included in the technical documentation file for a particular household washing machine model has been obtained by calculation on the basis of design, or extrapolation from other equivalent household washing machines 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 models where the information was obtained on the same basis.
-

ANNEX IV

Information to be provided in the cases where end-users cannot be expected to see the product displayed

1. The information referred to in Article 4(b) shall be provided in the following order:
 - (a) the rated capacity in kg of cotton, for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at full load, whichever is the lower;
 - (b) the energy efficiency class as defined in point 1 of Annex VI;
 - (c) the weighted annual energy consumption in kWh per year, rounded up to the nearest integer and calculated in accordance with point 1(c) of Annex VII;
 - (d) the weighted annual water consumption in litres per year, rounded up to the nearest integer and calculated in accordance with point 2(a) of Annex VII;
 - (e) the spin-drying efficiency class in accordance with point 2 of Annex VI;
 - (f) the maximum spin speed attained for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at partial load, whichever is the lower, and the remaining moisture content attained for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at partial load, whichever is the greater;
 - (g) airborne acoustical noise emissions during the washing and spinning phases, for the standard 60 °C cotton programme at full load, expressed in dB(A) re 1 pW and rounded to the nearest integer;
 - (h) if the household washing machine is produced in order to be built-in, an indication to this effect.
 2. Where other information contained in the product fiche is also provided, it shall be in the form and order specified in Annex II.
 3. The size and font, in which all the information referred in this Annex is printed or shown, shall be legible.
-

ANNEX V

Verification procedure for market surveillance purposes

For the purposes of checking conformity with the requirements laid down in Articles 3 and 4, Member State authorities shall test a single household washing machine. If the measured parameters do not meet the values declared by the supplier within the ranges set out in Table 1, the measurements shall be carried out on three more household washing machines. The arithmetic mean of the measured values of these three household washing machines shall meet the values declared by the supplier within the range defined in Table 1, except for the energy consumption, where the measured value shall not be greater than the rated value of E_t by more than 6 %.

Otherwise, the model and all other equivalent household washing machines models shall be considered not to comply with the requirements laid down in Articles 3 and 4.

Member State authorities shall use reliable, accurate and reproducible measurement procedures, which take into account the generally recognised state-of-the-art measurement methods, including methods set out in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

Table 1

Measured parameter	Verification tolerances
Annual energy consumption	The measured value shall not be greater than the rated value (*) of AE_C by more than 10 %.
Energy consumption	The measured value shall not be greater than the rated value of E_t by more than 10 %.
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	The measured value of power consumption P_o and P_l of more than 1,00 W shall not be greater than the rated value by more than 10 %. The measured value of power consumption P_o and P_l of less than or equal to 1,00 W shall not be greater than the rated value by more than 0,10 W.
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.

(*) 'Rated value' means a value that is declared by the supplier.

ANNEX VI

Energy efficiency classes and spin-drying efficiency classes**1. ENERGY EFFICIENCY CLASSES**

The energy efficiency class of a household washing machine 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 washing machine shall be determined in accordance with point 1 of Annex VII.

Table 1
Energy efficiency classes

Energy efficiency class	Energy Efficiency Index
A+++ (most efficient)	$EEI < 46$
A++	$46 \leq EEI < 52$
A+	$52 \leq EEI < 59$
A	$59 \leq EEI < 68$
B	$68 \leq EEI < 77$
C	$77 \leq EEI < 87$
D (least efficient)	$EEI \geq 87$

2. SPIN-DRYING EFFICIENCY CLASSES

The spin-drying efficiency class of a household washing machine shall be determined on the basis of the remaining moisture content (*D*) as set out in Table 2.

The remaining moisture content (*D*) of a household washing machine shall be determined in accordance with point 3 of Annex VII.

Table 2
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)	$D \geq 90$

ANNEX VII

Method for calculating the Energy Efficiency Index, annual water consumption and remaining moisture content**1. CALCULATION OF THE ENERGY EFFICIENCY INDEX**

For the calculation of the Energy Efficiency Index (*EEL*) of a household washing machine model, the weighted annual energy consumption of a household washing machine for the standard 60 °C cotton programme at full and partial load and for the standard 40 °C cotton programme at partial load is compared to its standard annual energy consumption.

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

$$EEI = \frac{AE_C}{SAE_C} \times 100$$

where:

AE_C = annual energy consumption of the household washing machine;

SAE_C = standard annual energy consumption of the household washing machine.

- (b) The standard annual energy consumption (SAE_C) is calculated in kWh/year as follows and rounded to two decimal places:

$$SAE_C = 47,0 \times c + 51,7$$

where:

c = rated capacity of the household washing machine for the standard 60 °C cotton programme at full load or the standard 40 °C cotton programme at full load, whichever is the lower.

- (c) The weighted annual energy consumption (AE_C) is calculated in kWh/year as follows and is rounded to two decimal places:

$$(i) \quad AE_C = E_t \times 220 + \frac{\left[P_o \times \frac{525\,600 - (T_t \times 200)}{2} + P_l \times \frac{525\,600 - (T_t \times 200)}{2} \right]}{60 \times 1\,000}$$

where:

E_t = weighted energy consumption;

P_o = weighted power in 'off-mode';

P_l = weighted power in the 'left-on mode';

T_t = weighted programme time;

220 = total number of standard washing cycles per year.

- (ii) Where the household washing machine is equipped with a power management system, with the household washing machine reverting automatically to 'off-mode' after the end of the programme, the weighted annual energy consumption (AE_C) is calculated taking into consideration the effective duration of 'left-on mode', according to the following formula:

$$AE_C = E_t \times 220 + \frac{\{(P_l \times T_t \times 220) + P_o \times [525\,600 - (T_t \times 200) - (T_t \times 200)]\}}{60 \times 1\,000}$$

where:

T_l = time in 'left-on mode'.

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

$$E_t = [3 \times E_{t,60} + 2 \times E_{t,60\frac{1}{2}} + 2 \times E_{t,40\frac{1}{2}}]/7$$

where:

$E_{t,60}$ = energy consumption of the standard 60 °C cotton programme at full load;

$E_{t,60\frac{1}{2}}$ = energy consumption of the standard 60 °C cotton programme at partial load;

$E_{t,40\frac{1}{2}}$ = energy consumption of the standard 40 °C cotton programme at partial load.

- (e) The weighted power in 'off-mode' (P_o) is calculated in W as follows and rounded to two decimal places:

$$P_o = (3 \times P_{o,60} + 2 \times P_{o,60\frac{1}{2}} + 2 \times P_{o,40\frac{1}{2}})/7$$

where:

$P_{o,60}$ = power in 'off-mode' of the standard 60 °C cotton programme at full load;

$P_{o,60\frac{1}{2}}$ = power in 'off-mode' of the standard 60 °C cotton programme at partial load;

$P_{o,40\frac{1}{2}}$ = power in 'off-mode' of the standard 40 °C cotton programme at partial load.

- (f) The weighted power in the 'left-on mode' (P_l) is calculated in W as follows and rounded to two decimal places:

$$P_l = (3 \times P_{l,60} + 2 \times P_{l,60\frac{1}{2}} + 2 \times P_{l,40\frac{1}{2}})/7$$

where:

$P_{l,60}$ = power in 'left-on mode' of the standard 60 °C cotton programme at full load;

$P_{l,60\frac{1}{2}}$ = power in 'left-on mode' of the standard 60 °C cotton programme at partial load;

$P_{l,40\frac{1}{2}}$ = power in 'left-on mode' of the standard 40 °C cotton programme at partial load.

- (g) The weighted programme time (T_t) is calculated in minutes as follows and rounded to the nearest minute:

$$T_t = (3 \times T_{t,60} + 2 \times T_{t,60\frac{1}{2}} + 2 \times T_{t,40\frac{1}{2}})/7$$

where:

$T_{t,60}$ = programme time of the standard 60 °C cotton programme at full load;

$T_{t,60\frac{1}{2}}$ = programme time of the standard 60 °C cotton programme at partial load;

$T_{t,40\frac{1}{2}}$ = programme time of the standard 40 °C cotton programme at partial load.

- (h) The weighted time in 'left-on mode' (T_l) is calculated in minutes as follows and rounded to the nearest minute:

$$T_l = (3 \times T_{l,60} + 2 \times T_{l,60\frac{1}{2}} + 2 \times T_{l,40\frac{1}{2}})/7$$

where:

$T_{l,60}$ = time in 'left-on mode' of the standard 60 °C cotton programme at full load;

$T_{l,60\frac{1}{2}}$ = time in 'left-on mode' of the standard 60 °C cotton programme at partial load;

$T_{l,40\frac{1}{2}}$ = time in 'left-on mode' of the standard 40 °C cotton programme at partial load.

2. CALCULATION OF THE WEIGHTED ANNUAL WATER CONSUMPTION

- (a) The weighted annual water consumption (AW_c) of a household washing machine is calculated in litres as follows and rounded up to the integer:

$$AW_c = W_t \times 220$$

where:

W_t = weighted water consumption;

220 = total number of standard washing cycles per year.

- (b) The weighted water consumption (W_t) is calculated in litres as follows and rounded up to the integer

$$W_t = (3 \times W_{t,60} + 2 \times W_{t,60\frac{1}{2}} + 2 \times W_{t,40\frac{1}{2}})/7$$

where:

$W_{t,60}$ = water consumption of the standard 60 °C cotton programme at full load;

$W_{t,60\frac{1}{2}}$ = water consumption of the standard 60 °C cotton programme at partial load;

$W_{t,40\frac{1}{2}}$ = water consumption of the standard 40 °C cotton programme at partial load.

3. CALCULATION OF THE WEIGHTED REMAINING MOISTURE CONTENT

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

$$D = (3 \times D_{60} + 2 \times D_{60\frac{1}{2}} + 2 \times D_{40\frac{1}{2}})/7$$

where:

D_{60} is the residual moisture content for the standard 60 °C cotton programme at full load, in percentage and rounded to the nearest whole per cent;

$D_{60\frac{1}{2}}$ is the residual moisture content for the standard 60 °C cotton programme at partial load, in percentage and rounded to the nearest whole per cent;

$D_{40\frac{1}{2}}$ is the residual moisture content for the standard 40 °C cotton programme at partial load, in percentage and rounded to the nearest whole per cent.

COMMISSION DELEGATED REGULATION (EU) No 1062/2010**of 28 September 2010****supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of televisions****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

Having regard to Directive 2010/30/EU of the European Parliament and of the Council of 19 May 2010 on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products ⁽¹⁾, and in particular Article 10 thereof,

Whereas:

Council with regard to ecodesign requirements for televisions ⁽²⁾ could amounts to annual electricity savings of 43 TWh by 2020, compared to the situation if no measures were taken.

(5) The information provided on the label should be obtained through reliable, accurate and reproducible measurement procedures that take into account the recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services ⁽³⁾.

(1) Directive 2010/30/EU requires the Commission to adopt delegated acts as regards the labelling of energy related products representing significant potential for energy savings and having a wide disparity in performance levels with equivalent functionality.

(6) This Regulation should specify a uniform design and content for the label for televisions.

(2) The electricity used by televisions accounts for a significant share of total household electricity demand in the Union and televisions with equivalent functionality have a wide disparity in terms of energy efficiency. The energy efficiency of televisions can be significantly improved. Televisions should therefore be covered by requirements on energy labelling.

(7) In addition, this Regulation should specify requirements as to the technical documentation and the fiche for televisions.

(3) Harmonised provisions for indicating the energy efficiency and consumption of televisions by labelling and standard product information should be established in order to provide incentives for manufacturers to improve the energy efficiency of televisions, encourage end-users to purchase energy-efficient models, reduce the electricity consumption of these products, and contribute to the functioning of the internal market.

(8) Moreover, this Regulation should specify requirements as to the information to be provided for any form of distance selling, advertisements and technical promotional material of televisions.

(4) The combined effect of the provisions set out in this Regulation and in Commission Regulation (EC) No 642/2009 of 22 July 2009 implementing Directive 2005/32/EC of the European Parliament and of the

(9) In order to encourage the manufacturing of energy efficient televisions suppliers wishing to place on the market televisions that can meet the requirements for higher energy efficiency classes should be allowed to provide labels showing those classes in advance of the date for mandatory display of such classes.

(10) Provision should be made for a review of this Regulation taking into account technological progress,

⁽¹⁾ OJ L 153, 18.6.2010, p. 1.

⁽²⁾ OJ L 191, 23.7.2009, p. 42.

⁽³⁾ OJ L 204, 21.7.1998, p. 37.

HAS ADOPTED THIS REGULATION:

Article 1

Subject matter

This Regulation establishes requirements for the labelling and the provision of supplementary product information for televisions.

Article 2

Definitions

In addition to the definitions laid down in Article 2 of Directive 2010/30/EU, the following definitions shall apply:

- (1) 'television' means a television set or a television monitor;
- (2) 'television set' means a product designed primarily for the display and reception of audiovisual signals which is placed on the market under one model or system designation, and which consists of:
 - (a) a display;
 - (b) one or more tuner(s)/receiver(s) and optional additional functions for data storage and/or display such as digital versatile disc (DVD), hard disk drive (HDD) or video-cassette recorder (VCR), either in a single unit combined with the display, or in one or more separate units;
- (3) 'television monitor' means a product designed to display on an integrated screen a video signal from a variety of sources, including television broadcast signals, which optionally controls and reproduces audio signals from an external source device, which is linked through standardised video signal paths including cinch (component, composite), SCART, HDMI, and future wireless standards (but excluding non-standardised video signal paths like DVI and SDI), but cannot receive and process broadcast signals;
- (4) 'on-mode' means the condition where the television is connected to the mains power source and produces sound and picture;
- (5) 'home-mode' means the television setting which is recommended by the manufacturer for normal home use;
- (6) 'standby-mode(s)' means a condition where the equipment is connected to the mains power source, depends on energy input from the mains power source to function properly and offers the following functions *only*, which may persist for an indefinite time:
 - (a) reactivation function, or reactivation function and only an indication of enabled reactivation function; and/or
 - (b) information or status display;
- (7) 'off-mode' means a condition in which the equipment is connected to the mains power source and is not providing any function; the following shall also be considered as off-mode:
 - (a) conditions providing only an indication of off-mode condition;
 - (b) conditions providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2004/108/EC of the European Parliament and of the Council ⁽¹⁾;
- (8) 'reactivation function' means a function facilitating the activation of other modes, including on-mode, by remote switch including remote control, internal sensor, timer to a condition providing additional functions, including on-mode;
- (9) 'information or status display' means a continuous function providing information or indicating the status of the equipment on a display, including clocks;
- (10) 'forced menu' means a set of television settings, predefined by the manufacturer, of which the user of the television must select a particular setting upon initial start-up of the television;
- (11) 'peak luminance ratio' means the ratio of the peak luminance of the home-mode condition or of the on-mode condition of the television as set by the supplier, as applicable, and the peak luminance of the brightest on-mode condition;
- (12) 'point of sale' means a location where televisions are displayed or offered for sale, hire or hire purchase;
- (13) 'end-user' means a consumer buying or expected to buy a television.

⁽¹⁾ OJ L 390, 31.12.2004, p. 24.

*Article 3***Responsibilities of suppliers**

1. Suppliers shall ensure that:
 - (a) each television is supplied with a printed label in the format and containing information as set out in Annex V;
 - (b) a product fiche, as set out in Annex III, is made available;
 - (c) the technical documentation, as set out in Annex IV, is made available on request to the authorities of Member States and to the Commission;
 - (d) any advertisement for a specific television model contains the energy efficiency class, if the advertisement discloses energy-related or price information;
 - (e) any technical promotional material concerning a specific television model, which describes its specific technical parameters, includes the energy efficiency class of that model.
2. The energy efficiency classes shall be based on the Energy Efficiency Index calculated in accordance with Annex II.
3. The format of the label set out in Annex V shall be applied according to the following timetable:
 - (a) for televisions placed on the market from 30 November 2011, labels for televisions with energy efficiency classes:
 - (i) A, B, C, D, E, F, G shall be in accordance with point 1 of Annex V or, where suppliers deem appropriate, with point 2 of that Annex;
 - (ii) A+ shall be in accordance with point 2 of Annex V;
 - (iii) A++ shall be in accordance with point 3 of Annex V;
 - (iv) A+++ shall be in accordance with point 4 of Annex V;
 - (b) for televisions placed on the market from 1 January 2014 with energy efficiency classes A+, A, B, C, D, E, F, labels shall be in accordance with point 2 of Annex V or, where suppliers deem appropriate, with point 3 of that Annex;

- (c) for televisions placed on the market from 1 January 2017 with energy efficiency classes A++, A+, A, B, C, D, E, labels shall be in accordance with point 3 of Annex V or, where suppliers deem appropriate, with point 4 of that Annex;
- (d) for televisions placed on the market from 1 January 2020 with energy efficiency classes A+++, A++, A+, A, B, C, D labels shall be in accordance with point 4 of Annex V.

*Article 4***Responsibilities of dealers**

Dealers shall ensure that:

- (a) each television, at the point of sale, bears the label provided by suppliers in accordance with Article 3(1) on the front of the television, in such a way as to be clearly visible;
- (b) televisions offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the television displayed, are marketed with the information to be provided by the suppliers in accordance with Annex VI;
- (c) any advertisement for a specific television model contains the energy efficiency class, if the advertisement discloses energy-related or price information;
- (d) any technical promotional material concerning a specific television model, which describes its specific technical parameters, includes the energy efficiency class of that model.

*Article 5***Measurement methods**

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

*Article 6***Verification procedure for market surveillance purposes**

Member States shall apply the procedure laid down in Annex VIII when assessing the conformity of the declared energy efficiency class.

*Article 7***Revision**

The Commission shall review this Regulation in the light of technological progress no later than 5 years after its entry into force.

*Article 8***Transitional provision**

Article 3(1)(d) and (e) and Article 4(b), (c) and (d) shall not apply to printed advertisement and printed technical promotional material published before 30 March 2012.

*Article 9***Entry into force**

This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

It shall apply from 30 November 2011. However, Article 3(1)(d) and (e) and Article 4(b), (c) and (d) shall apply from 30 March 2012.

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

Done at Brussels, 28 September 2010.

For the Commission

The President

José Manuel BARROSO

ANNEX I

Energy efficiency class

The energy efficiency class of a television shall be determined on the basis of its Energy Efficiency Index (EEI) as set out in Table 1. The Energy Efficiency Index of a television shall be determined in accordance with point 1 of Annex II.

Table 1

Energy efficiency class of a television

Energy efficiency class	Energy Efficiency Index
A+++ (most efficient)	$EEI < 0,10$
A++	$0,10 \leq EEI < 0,16$
A+	$0,16 \leq EEI < 0,23$
A	$0,23 \leq EEI < 0,30$
B	$0,30 \leq EEI < 0,42$
C	$0,42 \leq EEI < 0,60$
D	$0,60 \leq EEI < 0,80$
E	$0,80 \leq EEI < 0,90$
F	$0,90 \leq EEI < 1,00$
G (least efficient)	$1,00 \leq EEI$

ANNEX II

Method for calculating the Energy Efficiency Index and the annual on-mode energy consumption

1. The Energy Efficiency Index (*EEL*) is calculated as $EEL = P/P_{ref}(A)$, where:

$$— P_{ref}(A) = P_{basic} + A \times 4,3224 \text{ Watts/dm}^2,$$

$$— P_{basic} = 20 \text{ Watts for television sets with one tuner/receiver and no hard disc,}$$

$$— P_{basic} = 24 \text{ Watts for television sets with hard disc(s),}$$

$$— P_{basic} = 24 \text{ Watts for television sets with two or more tuners/receivers,}$$

$$— P_{basic} = 28 \text{ Watts for television sets with hard disc(s) and two or more tuners/receivers,}$$

$$— P_{basic} = 15 \text{ Watts for television monitors,}$$

$$— A \text{ is the visible screen area expressed in dm}^2,$$

$$— P \text{ is the on-mode power consumption of the television in Watts measured in accordance with Annex VII, rounded to one decimal place.}$$

2. The annual on-mode energy consumption *E* in kWh is calculated as $E = 1,46 \times P$.

3. Televisions with automatic brightness control

For the purposes of calculating the Energy Efficiency Index and the annual on-mode energy consumption referred to in points 1 and 2, the on-mode power consumption as established according to the procedure set out in Annex VII is reduced by 5 % if the following conditions are fulfilled when the television is placed on the market:

- (a) the luminance of the television in the home-mode or the on-mode condition as set by the supplier, is automatically reduced between an ambient light intensity of at least 20 lux and 0 lux;
 - (b) the automatic brightness control is activated in the home-mode condition or the on-mode condition of the television as set by the supplier.
-

ANNEX III

Product fiche

1. The information in the product fiche of the television 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; where model identifier means the code, usually alphanumeric, which distinguishes a specific television model from other models of the same trade mark or supplier's name;
 - (c) the energy efficiency class of the model in accordance with Annex I, Table 1; where the television has been awarded an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council ⁽¹⁾, this information may be included;
 - (d) the visible screen diagonal in centimetres and in inches;
 - (e) the on-mode power consumption measured in accordance with the procedure set out in Annex VII;
 - (f) the annual energy consumption calculated in accordance with Annex II in kWh per year, rounded to the first integer; it shall be described as: 'Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.';
 - (g) the standby and off-mode power consumption or both measured in accordance with the procedure set out in Annex VII;
 - (h) the screen resolution in physical horizontal and vertical pixel count.
2. One fiche may cover a number of television models supplied by the same supplier.
3. The information contained in the fiche 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 must also be provided.

⁽¹⁾ OJ L 27, 30.1.2010, p. 1.

ANNEX IV

Technical documentation

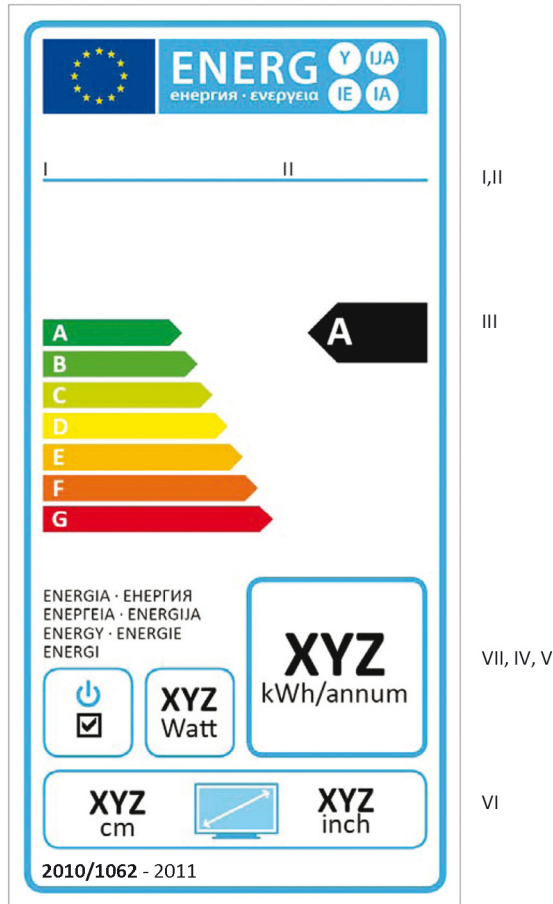
The technical documentation referred to in Article 3(1)(c) shall include:

- (a) the name and address of the supplier;
 - (b) a general description of the television 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) test parameters for measurements:
 - (i) ambient temperature;
 - (ii) test voltage in V and frequency in Hz;
 - (iii) total harmonic distortion of the electricity supply system;
 - (iv) the input terminal for the audio and video test signals;
 - (v) information and documentation on the instrumentation, set-up and circuits used for electrical testing;
 - (g) on-mode parameters:
 - (i) the power consumption data in Watts rounded to the first decimal place for power measurements up to 100 Watts, and to the first integer for power measurements above 100 Watts;
 - (ii) the characteristics of the dynamic broadcast-content video signal representing typical broadcast TV content;
 - (iii) the sequence of steps for achieving a stable condition with respect to power consumption;
 - (iv) for televisions with a forced menu, the ratio of the peak luminance of the home-mode and the peak luminance of the brightest on-mode condition provided by the television, expressed as a percentage;
 - (v) for television monitors, a description of the relevant characteristics of the tuner used for measurements;
 - (h) for each standby or off-mode:
 - (i) the power consumption data in Watts rounded to the second decimal place;
 - (ii) the measurement method used;
 - (iii) description of how the mode was selected or programmed;
 - (iv) sequence of events to reach the mode where the television automatically changes modes.
-

ANNEX V

Label

1. LABEL 1



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

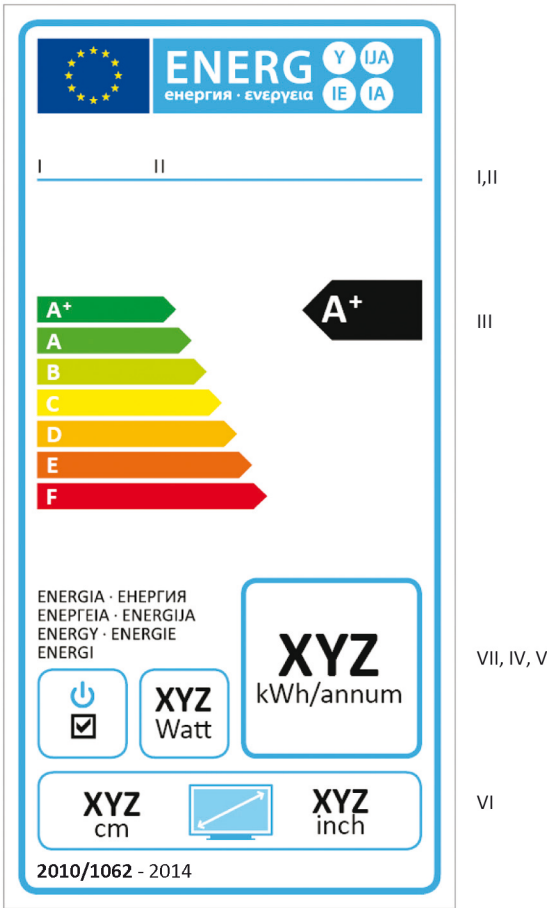
- I. supplier's name or trade mark;
- II. supplier's model identifier, where 'model identifier' means the code, usually alphanumeric, which distinguishes a specific television model from other models of the same trade mark or supplier's name;
- III. the energy efficiency class of the television, determined in accordance with Annex I. The head of the arrow containing the energy efficiency class of the television shall be placed at the same height as the head of the arrow of the relevant energy efficiency class;
- IV. on-mode power consumption in Watts, rounded to the first integer;
- V. annual on-mode energy consumption calculated in accordance with point 2 of Annex II, in kWh, rounded to the first integer;
- VI. visible screen diagonal in inches and centimetres.

For televisions with an easily visible switch, which puts the television in a condition with power consumption not exceeding 0,01 Watts when operated to the off position, the symbol defined in point 8 of point 5 may be added.

Where a model has been granted a 'European Union Ecolabel' under Regulation (EC) No 66/2010, a copy of the EU Ecolabel may be added.

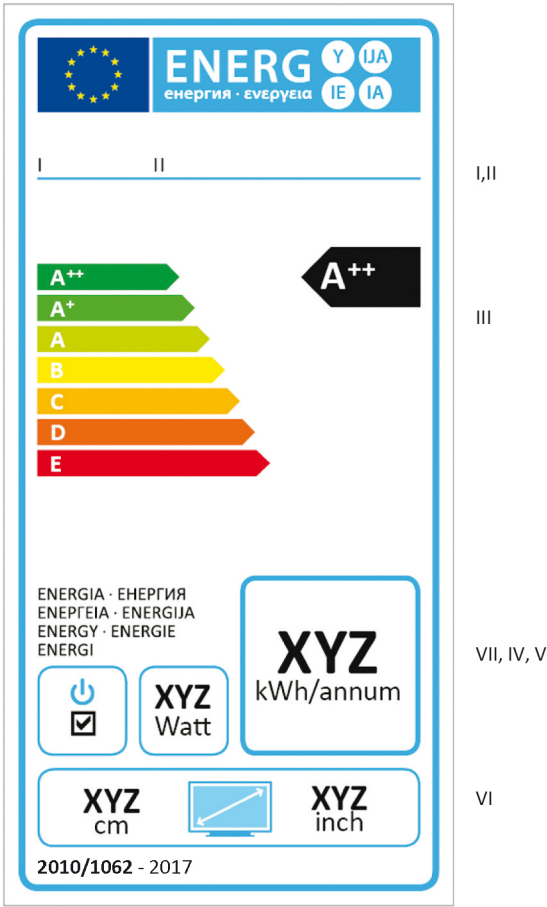
(b) The design aspects of the label shall be in accordance with point 5.

2. LABEL 2



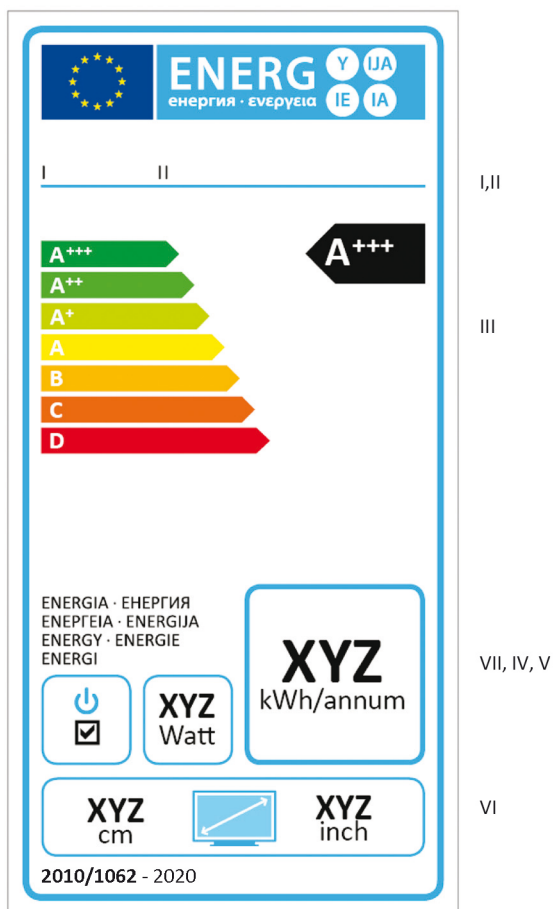
- (a) The information listed in point 1(a) shall be included in the label.
- (b) The design aspects of the label shall be in accordance with point 5.

3. LABEL 3



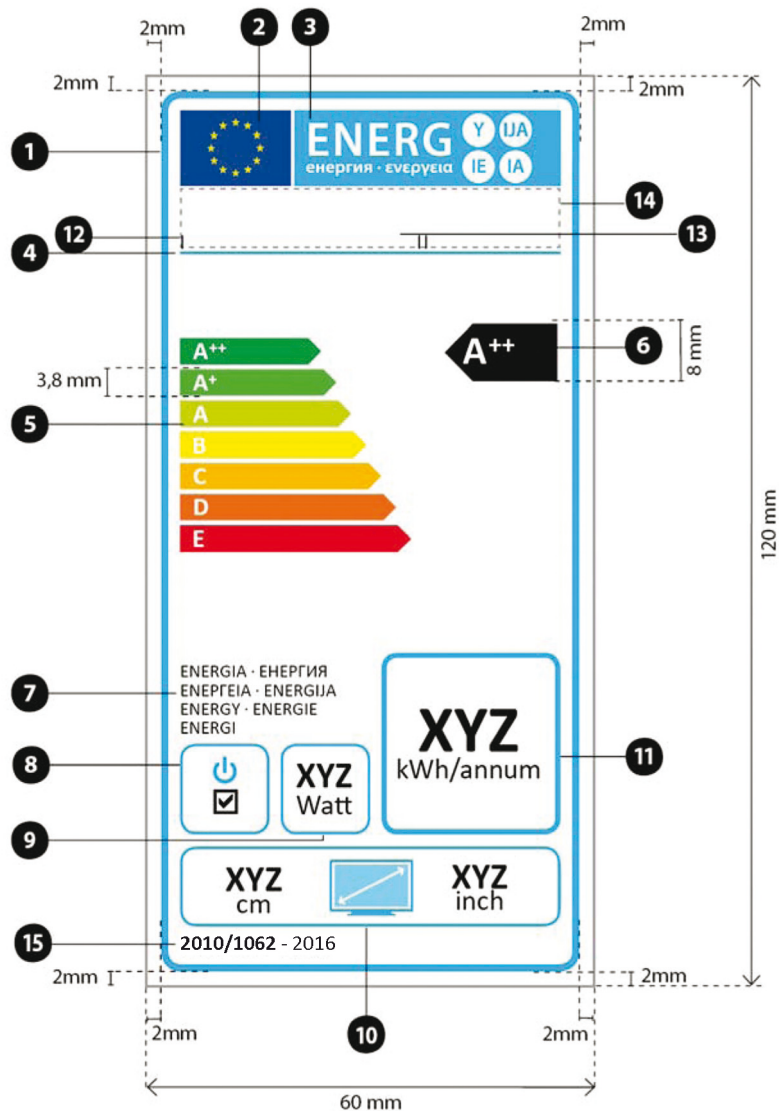
- (a) The information listed in point 1(a) shall be included in the label.
- (b) The design aspects of the label shall be in accordance with point 5.

4. LABEL 4



- (a) The information listed in point 1(a) shall be included in the label.
- (b) The design aspects of the label shall be in accordance with point 5.

5. The design of the label shall be the following:



Whereby:

- The label shall be at least 60 mm wide and 120 mm high. Where the label is printed in a larger format, its content must nevertheless remain proportionate to the specifications above.
- For televisions with screen area above 29 dm² the background shall be white. For televisions with screen area of 29 dm² or below the background shall be white or transparent.
- Colours are CMYK — cyan, magenta, yellow and black and are given following this example: 00-70-X-00: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black.
- The label shall fulfil all of the following requirements (numbers refer to the figure above):

1 Border stroke: 3 pt — colour: Cyan 100 % — round corners: 3,5 mm.

2 EU logo — colours: X-80-00-00 and 00-00-X-00.

3 Label logos:

colour: X-00-00-00

Pictogram as depicted; EU logo and label logo (combined): width: 51 mm, height: 9 mm.

- ④ **Sub-logos border:** 1 pt — colour: Cyan 100 % — length: 51 mm.
- ⑤ **A-G scale**
- **Arrow:** height: 3,8 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 10 pt, capitals, white; '+' symbols: Calibri bold 7 pt, capitals, white.
- ⑥ **Energy efficiency class**
- **Arrow:** width: 26 mm, height: 8 mm, 100 % black.
 - **Text:** Calibri bold 15 pt, capitals, white; '+' symbols: Calibri bold 10 pt, capitals, white.
- ⑦ **Energy**
- **Text:** Calibri regular 7pt, capitals, 100 % black.
- ⑧ **Switch logo:**
- **Pictogram as depicted, Border:** 1 pt — colour: Cyan 100 % — round corners: 3,5 mm.
- ⑨ **Text related to on-mode power consumption:**
- **Border:** 1 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 - **Value:** Calibri bold 14 pt, 100 % black.
 - **Second line:** Calibri regular 11 pt, 100 % black.
- ⑩ **Television screen diagonal size:**
- **Pictogram as depicted**
 - **Border:** 1 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 - **Value:** Calibri bold 14 pt, 100 % black. Calibri regular 11pt, 100 % black.
- ⑪ **Text related to annual energy consumption:**
- **Border:** 2 pt — colour: Cyan 100 % — round corners: 3,5 mm.
 - **Value:** Calibri bold 25 pt, 100 % black.
 - **Second line:** Calibri regular 11 pt, 100 % black.
- ⑫ **Supplier's name or trade mark**
- ⑬ **Supplier's model identifier**
- ⑭ The supplier's name or trade mark and model information should fit in a space of 51 × 8 mm.
- ⑮ **Reference period**
- Text: Calibri bold 8 pt
 - Text: Calibri light 9 pt.
-

ANNEX VI

Information to be provided in the cases where end-users cannot be expected to see the product displayed

1. The information referred to in Article 4(b) shall be provided in the following order:
 - (a) the energy efficiency class of the model as defined in Annex I;
 - (b) the on-mode power consumption as referred to in point 1 of Annex II;
 - (c) the annual power consumption in accordance with point 2 of Annex II;
 - (d) the visible screen diagonal.
 2. Where other information contained in the product information fiche is also provided, it shall be in the form and order specified in Annex III.
 3. The size and font in which all the information referred in this Annex is printed or shown shall be legible.
-

ANNEX VII

Measurements

1. For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements shall be made using a reliable, accurate and reproducible measurement procedure that takes into account the generally recognised state-of-the-art measurement methods, including methods set out in documents the reference numbers of which have been published for that purpose in the *Official Journal of the European Union*.

2. Measurements of on-mode power consumption referred to in point 1 of Annex II

(a) General conditions:

- (i) measurements shall be made at an ambient temperature of 23 °C $\pm$ 5 °C;
- (ii) measurements shall be made using a dynamic broadcast-content video signal representing typical broadcast TV content; The measurement shall be the average power consumed over ten consecutive minutes;
- (iii) measurements shall be made after the television has been in the off-mode for a minimum of 1 hour immediately followed by a minimum of 1 hour in the on-mode and shall be completed before a maximum of 3 hours in on-mode. The relevant video signal shall be displayed during the entire on-mode duration. For televisions that are known to stabilise within 1 hour, these durations may be reduced if the resulting measurement can be shown to be within 2 % of the results that would otherwise be achieved using the durations described here;
- (iv) measurements shall be made with an uncertainty of less than or equal to 2 % at the 95 % confidence level;
- (v) measurements shall be made with the Automatic Brightness Control function, if such a function exists, made inactive. If the Automatic Brightness Control function exists and cannot be made inactive, then the measurements shall be performed with the light entering directly into the ambient light sensor at a level of 300 lux, or more.

(b) Conditions for measuring the on-mode power consumption of televisions:

- (i) television sets without forced menu: The power consumption shall be measured in the on-mode condition of the television as delivered by the manufacturer, that is, the brightness controls of the television shall be in the position adjusted by the manufacturer for the end user;
- (ii) television sets with forced menu: The power consumption shall be measured in the 'home-mode' condition;
- (iii) television monitors without forced menu: The television monitor shall be connected to an appropriate tuner. The power consumption shall be measured in the on-mode condition of the television as delivered by the manufacturer, that is, the brightness controls of the television monitor shall be in the position adjusted by the manufacturer for the end user. The power consumption of the tuner is not relevant for the measurements of on-mode power consumption of the television monitor;
- (iv) television monitors with forced menu: The television monitor shall be connected to an appropriate tuner. The power consumption shall be measured in the 'home-mode' condition.

3. Measurements of standby/off-mode power consumption referred to in point 1(g) of Annex III

Measurements of power of 0,50 Watts or greater shall be made with an uncertainty of less than or equal to 2 % at the 95 % confidence level. Measurements of power of less than 0,50 Watts shall be made with an uncertainty of less than or equal to 0,01 Watts at the 95 % confidence level.

4. Measurements of peak luminance referred to in point 2(c) Annex VIII

- (a) Measurements of peak luminance shall be made with a luminance meter, detecting that portion of the screen exhibiting a full (100 %) white image, which is part of a 'full screen test' test pattern that does not exceed the average picture level (APL) point where any power limiting occurs in the display luminance drive system.
 - (b) Measurements of luminance ratio shall be made without disturbing the luminance meter's detection point on the display whilst switching between the home-mode condition or the on-mode condition of the television as set by the supplier, as applicable, and the brightest on-mode condition.
-

ANNEX VIII

Verification procedure for market surveillance purposes

For the purposes of checking conformity with the requirements laid down in Articles 3 and 4, Member State authorities shall apply the following verification procedure for the on-mode power consumption referred to in point 1 of Annex II and the standby/off-mode power consumption referred to in point 1(g) of Annex III.

1. Member State authorities shall test one single unit.
 2. The model shall be considered to comply with the declared value of the on-mode power consumption and the declared values for standby and/or off-mode power consumption, if:
 - (a) the result for on-mode power consumption does not exceed the declared power consumption value by more than 7 %; and
 - (b) the results for standby and off-mode power consumption values, as applicable, do not exceed the declared power consumption values by more than 0,10 Watts; and
 - (c) the result for the peak luminance ratio is above 60 %.
 3. If the results referred to in point (2)(a) or (b) or (c) are not achieved, three additional units of the same model shall be tested.
 4. After three additional units of the same model have been tested, the model shall be considered to comply with the declared value of the on-mode power consumption and the declared values for standby and off-mode power consumption, if:
 - (a) the average of the results for the latter three units for on-mode power consumption does not exceed the declared power consumption value by more than 7 %; and
 - (b) the average of the results for the latter three units for standby and off-mode conditions, as applicable, does not exceed the declared power consumption values by more than 0,10 Watts; and
 - (c) the average of the results for the latter three units for the peak luminance ratio is above 60 %.
 5. If the results referred to in point (4)(a) or (b) or (c) are not achieved, the model shall be considered not to comply with the requirements.
-

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