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**COMMISSION DELEGATED REGULATION (EU) No .../..**

**of **XXX****

**supplementing Directive 2010/30/EU of the European Parliament and of the Council  
with regards to the energy labelling of professional storage cabinets**

(Text with EEA relevance)

**COMMISSION DELEGATED REGULATION (EU) No .../..**

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**supplementing Directive 2010/30/EU of the European Parliament and of the Council  
with regards to the energy labelling of professional storage cabinets**

(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<sup>1</sup> 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, 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 that have a significant potential for energy savings but exhibit a wide disparity in performance levels with equivalent functionality.
- (2) The energy consumed by professional storage cabinets accounts for a significant share of the total electricity demand in the Union, and professional storage cabinets with equivalent functionality exhibit a wide disparity in terms of energy efficiency. The scope for reducing their energy consumption is significant. Professional storage cabinets should therefore be covered by energy labelling requirements.
- (3) Harmonised provisions should be laid down on labelling and standard product information regarding the energy efficiency of professional storage cabinets in order to provide incentives for manufacturers to improve the energy efficiency of those products, to encourage end-users to purchase energy-efficient products and to contribute to the functioning of the internal market.
- (4) The combined effect of this Regulation and Commission Regulation (EU) No XX/YY of ZZ implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for professional storage cabinets<sup>2</sup> [] is expected to result by 2020 in estimated annual energy savings of about 1.8 TWh (terawatt hour) in 2020 and 4.1 TWh in 2030, corresponding to 0.7 and 1.4 million tonnes CO<sub>2</sub> equivalent saving, compared to what would happen if no measures were taken.
- (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 organisations, as listed in Annex I

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<sup>1</sup> OJ L 153, 18.6.2010, p. 1.

<sup>2</sup> Number of the Regulation and OJ reference to be inserted before publication in the OJ

to Regulation (EU) 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation<sup>3</sup>.

- (6) This Regulation should specify a uniform design and content of product labels for professional storage cabinets.
- (7) In addition, this Regulation should specify requirements for the product fiche and technical documentation for professional storage cabinets.
- (8) Moreover, this Regulation should specify requirements for the information to be provided for any form of distance selling of professional storage cabinets and in any advertisements and technical promotional material for such products.
- (9) It is appropriate to provide for a review of the provisions of this Regulation taking into account technological progress,

HAS ADOPTED THIS REGULATION:

### *Article 1*

#### ***Subject matter and scope***

1. This Regulation establishes requirements for the labelling and the provision of supplementary product information on professional storage cabinets.
2. This Regulation shall apply to electric mains-operated professional storage cabinets including those sold for the refrigeration of items other than foodstuffs.
3. This Regulation shall not apply to the following products:
  - (a) professional storage cabinets that are primarily powered by energy sources other than electricity;
  - (b) professional storage cabinets operating with a remote condensing unit;
  - (c) open cabinets, where their openness is a fundamental requirement for their primary functionality;
  - (d) cabinets specifically designed for carrying out food processing, where the mere presence of one compartment, with a net volume equivalent to less than 20% of the cabinet total net volume and specifically designed for carrying out food processing is not sufficient for exemption;
  - (e) cabinets specifically designed only for the purpose of thawing frozen foodstuff in a controlled manner, where the mere presence of one compartment specifically designed for thawing frozen foods in a controlled manner is not sufficient for exemption;
  - (f) serve-over counters and other similar forms of cabinet primarily intended for display and sale of foodstuffs in addition to refrigeration and storage;
  - (g) cabinets specifically designed for the storage of medicines and scientific samples;
  - (h) cabinets that do not use a vapour compression refrigeration cycle;

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<sup>3</sup> OJL 316, 14.11.2012, p. 12

- (i) custom-made professional storage cabinets cabinets, made on a one-off basis and not equivalent functionally or materially to other professional storage cabinets cabinets;
- (j) refrigerator-freezers
- (k) static air cabinets
- (l) built-in cabinets
- (m) roll-in and pass-through cabinets.

*Article 2*  
***Definitions***

The following definitions shall apply for the purpose of this Regulation:

- (a) ‘professional storage cabinet’ means an insulated refrigerating appliance integrating one or more compartments accessible via one or more doors or drawers, capable of continuously maintaining the temperature of foodstuffs within prescribed limits at chilled or frozen operating temperature, using a vapour compression cycle, and intended for the storage of foodstuff in non-household environments but not for the display to or access by customers;
- (b) ‘foodstuffs’ means food, ingredients, beverages, including wine, and other items primarily intended for consumption which require refrigeration at specified temperatures;
- (c) ‘built-in cabinet’ 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;
- (d) ‘roll-in cabinet’ means a cabinet including one unique compartment that allows wheeled racks of product to be wheeled in;
- (e) ‘pass-through cabinet’ means a cabinet accessible from both sides;
- (f) ‘static air cabinet’ means a storage cabinet without internal forced-air circulation, specifically designed to store temperature sensitive foodstuffs or to avoid a drying effect on foodstuffs stored without a sealed enclosure, where a single static air compartment within the cabinet is not sufficient to designate the cabinet as a static air cabinet;
- (g) ‘open cabinet’ means a storage cabinet whose refrigerated enclosure can be reached from the outside without opening a door or a drawer;
- (h) ‘saladette’ means a cabinet with one or more doors or drawer fronts in the vertical plane that has cut-outs in the top surface into which temporary storage bins can be inserted for easy-access storage of foodstuffs such as pizza toppings or salad items;
- (i) ‘combined cabinet’ means a storage professional cabinet including two or more compartments with different temperature(s) for the refrigeration and storage of foodstuffs;
- (j) ‘refrigerator-freezer’ means a type of combined cabinet including at least one compartment exclusively intended for chilled operating temperature and one compartment exclusively intended for frozen operating temperature.

*Article 3*  
***Responsibilities of suppliers and timetable***

1. From 1 January 2016 suppliers placing professional storage cabinets on the market or putting them into service, shall ensure that the following requirements are fulfilled:
  - (a) a printed label complying with the format and content of information set out in Annex III shall be provided for each professional storage cabinet;
  - (b) an electronic label in the format and containing the information set out in Annex III shall be made available to dealers for each professional storage cabinet model;
  - (c) a product fiche, as set out in Annex IV, shall be provided for each professional storage cabinet;
  - (d) an electronic product fiche, as set out in Annex IV, shall be made available to dealers for each professional storage cabinet model;
  - (e) the technical documentation, as set out in Annex V, shall be provided on request to the authorities of the Member States;
  - (f) any advertisement relating to a specific professional storage cabinet model and containing energy-related or price information shall include a reference to the energy efficiency class of that model;
  - (g) any technical promotional material concerning a specific professional storage cabinet model and describing its specific technical parameters shall include the energy efficiency class of that model;
2. The format of the label set out in Annex III shall be applied according to the following timetable:
  - (a) for professional storage cabinets placed on the market from 1 January 2016 labels shall be in accordance with label 1 of Annex III;
  - (b) for professional storage cabinets placed on the market from 1 July 2017 labels shall be in accordance with label 2 of Annex III;
  - (c) for professional storage cabinets placed on the market from 1 January 2019 labels shall be in accordance with label 3 of Annex III;
  - (d) for professional storage cabinets placed on the market from 1 July 2020 labels shall be in accordance with label 4 of Annex III.

*Article 4*  
***Responsibilities of dealers***

Dealers of professional storage cabinets shall ensure that the following requirements are fulfilled:

- (a) each professional storage cabinet, at the point of sale, shall bear the label provided by suppliers in accordance with Article 3(1), as set out in Annex III, on the outside of the front or top of the appliance, in such a way as to be clearly visible;
- (b) professional storage cabinets offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the product displayed, shall be marketed with the information provided by the suppliers in accordance with Annex VI,

except where the offer is made through the Internet in which case the provisions of Annex VII shall apply;

- (c) any advertisement relating to a specific professional storage cabinet model and containing energy-related or price information shall include a reference to the energy efficiency class of that model;
- (d) any technical promotional material concerning a specific professional storage cabinet model and describing its specific technical parameters shall include a reference to the energy efficiency class of that model.

#### *Article 5*

##### ***Measurement and calculation methods***

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

#### *Article 6*

##### ***Verification procedure for market surveillance purposes***

Member States shall apply the procedure set out in Annex X when assessing the conformity of the declared energy efficiency class, annual energy consumption and volumes.

#### *Article 7*

##### ***Review***

The Commission shall review this Regulation in the light of technological progress no later than five years after its entry into force. The review shall in particular assess any significant changes in the market shares of various types of appliances and the verification tolerances set out in Annex X.

#### *Article 8*

##### ***Entry into force and application***

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

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

Done at Brussels,

*For the Commission*  
*The President*

## ANNEX I

### Definitions applicable for Annexes II to X

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

- (2) 'net volume means' the volume containing foodstuffs within the load limit, minus the volume of shelves and any internal fittings;
- (3) 'gross storage volume' means the volume within the inside walls of the cabinet or compartment, excluding internal fittings, doors or lids, if any, with these being closed;
- (4) 'chilled operating temperature' means that the temperature of foodstuff stored in the cabinet is continuously maintained at a temperature comprised between -1°C and 5°C;
- (5) 'frozen operating temperature' means that the temperature of foodstuff stored in the cabinet is continuously maintained at a temperature lower than -15°C;
- (6) 'multi-use' means that a professional storage cabinet or separate compartment of the same cabinet may be set at different temperatures for chilled or frozen foodstuffs;
- (7) 'vertical cabinet' means a cabinet that has overall height equal or higher than 1050 mm with one or more vertical doors or drawers accessing the same compartment;
- (8) 'counter cabinet' means a cabinet that has overall height lower than 1050 mm with one or more vertical doors or drawers accessing the same compartment;
- (9) 'light-duty cabinet' means a professional storage cabinet only capable of continuously maintaining chiller or frozen operating temperature in ambient conditions corresponding to climate class 3, as detailed in Table 3 of Annex IX; where the cabinet is able to maintain temperature in ambient conditions corresponding to climate class 4 as detailed in Table 3 of Annex IX, it shall not be considered a light-duty cabinet.
- (10) 'heavy-duty cabinet' means a professional storage cabinet capable of continuously maintaining chilled or frozen operating temperature in ambient conditions corresponding to climate class 5, as detailed in Table 3 of Annex IX;
- (11) 'equivalent refrigerating appliance' means a refrigerating appliance model placed on the market with the same net and gross storage volumes, same technical, efficiency and performance characteristics, and same compartment types as another refrigerating appliance model placed on the market under a different commercial code number by the same manufacturer;

**ANNEX II**  
**Energy efficiency classes**

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

**Table 1:** Energy efficiency classes of professional storage cabinets

<b>Energy efficiency class</b>	<b>EEI</b>
A+++	$EEI < 10$
A++	$10 \leq EEI < 15$
A+	$15 \leq EEI < 20$
A	$20 \leq EEI < 30$
B	$30 \leq EEI < 40$
C	$40 \leq EEI < 55$
D	$55 \leq EEI < 75$
E	$75 \leq EEI < 85$
F	$85 \leq EEI < 95$
G	$95 \leq EEI < 115$

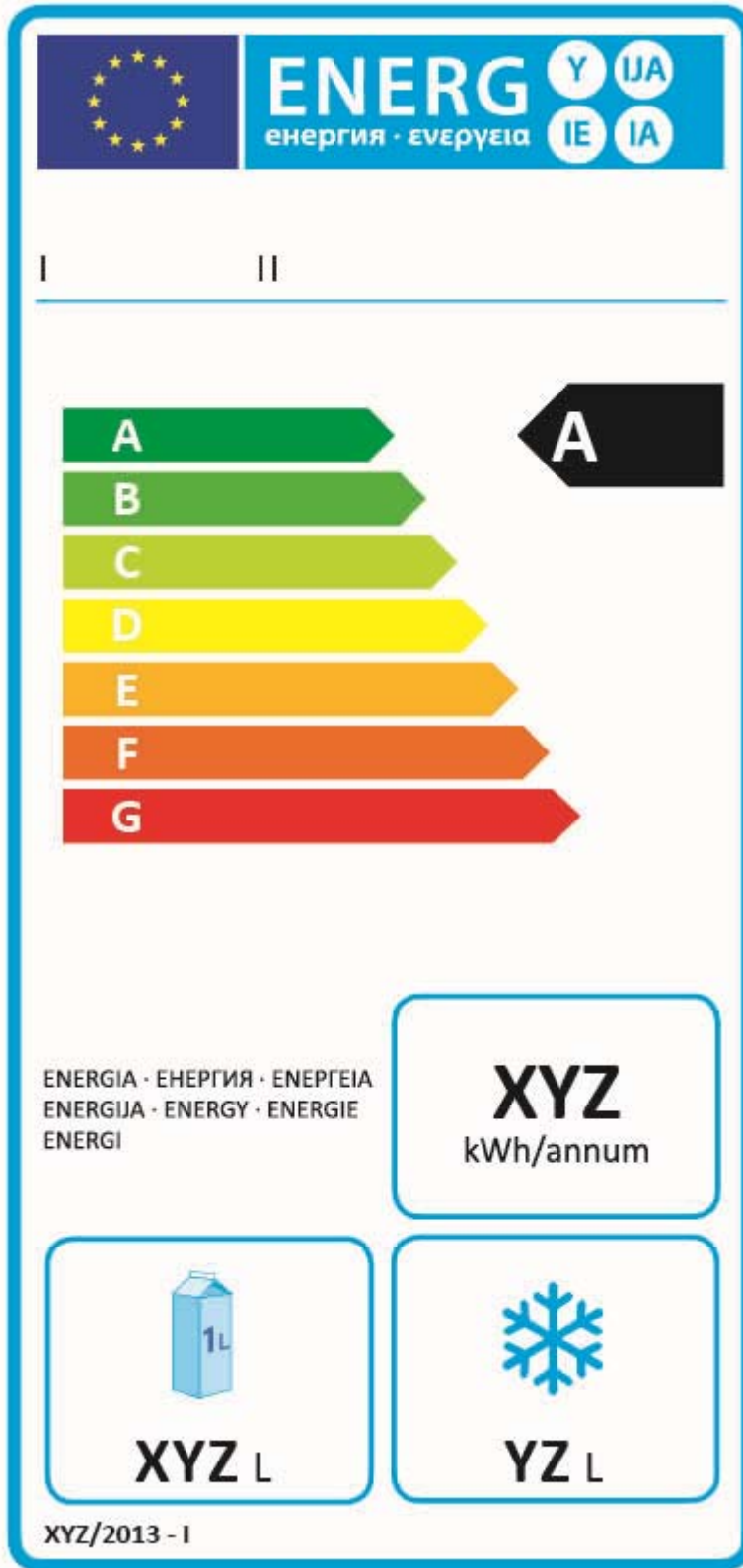
The EEI shall be calculated as detailed in Annex VIII.



## ANNEX III

### The labels

1. Label 1 - Professional storage cabinets in energy efficiency classes A to G



The following information shall be included in the label:

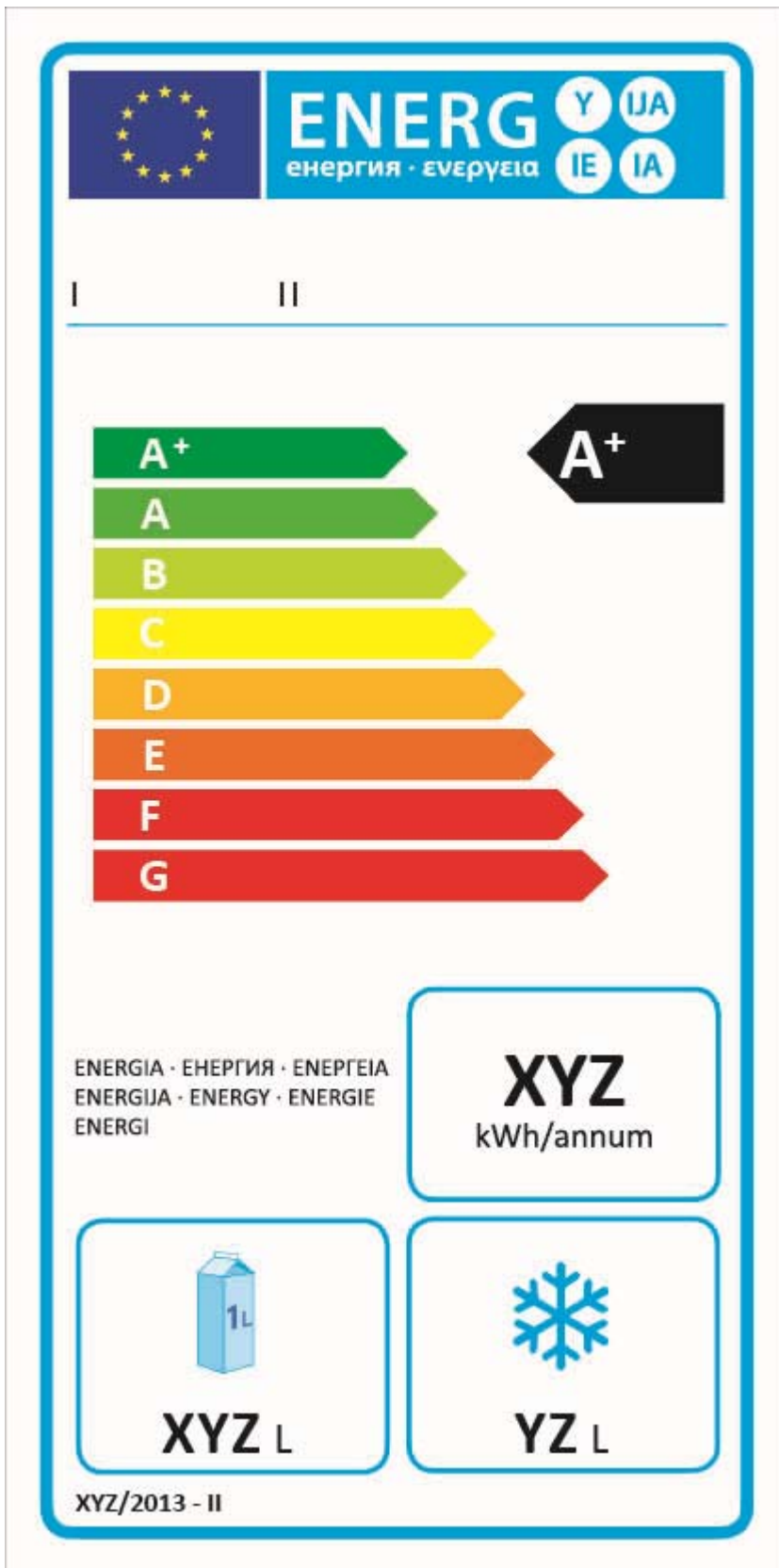
- I. supplier's name or trade mark;
- II. supplier's model identifier;
- III. the energy efficiency class, determined in accordance with Annex II; the head of the arrow containing the energy efficiency class shall be placed at the same height as the head of the relevant energy efficiency class;
- IV. the annual electricity consumption in kWh in terms of final energy consumption per year, rounded to the nearest integer and calculated in accordance with Annex IX;
- V. the sum of the storage volumes of all chilled compartments.
- VI. the sum of the storage volumes of all frozen compartments.

The design aspects of the label for professional storage cabinets shall be in accordance with point 5. 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<sup>4</sup>, a copy of the EU Ecolabel may be added.

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<sup>4</sup> OJ L 27, 30.1.2010, p. 1.

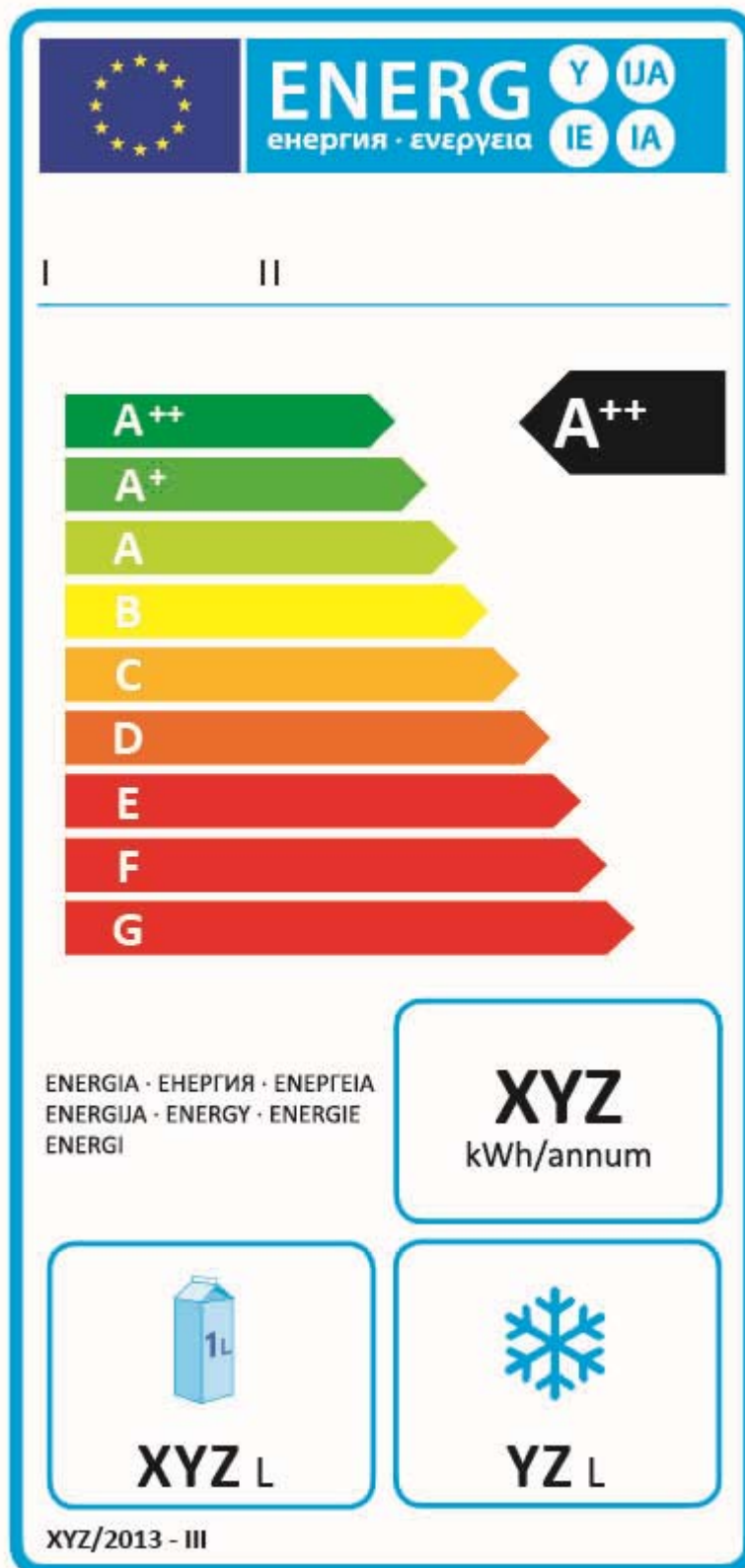
2. Label 2 - Professional storage cabinets in energy efficiency classes A+ to G



The information listed in point 1 shall be included in this label.

The design of the labels shall be in accordance with point 5. By way of derogation, where a model has been awarded an 'EU eco-label' under Regulation (EC) No 66/2010, a copy of the EU eco-label may be added.

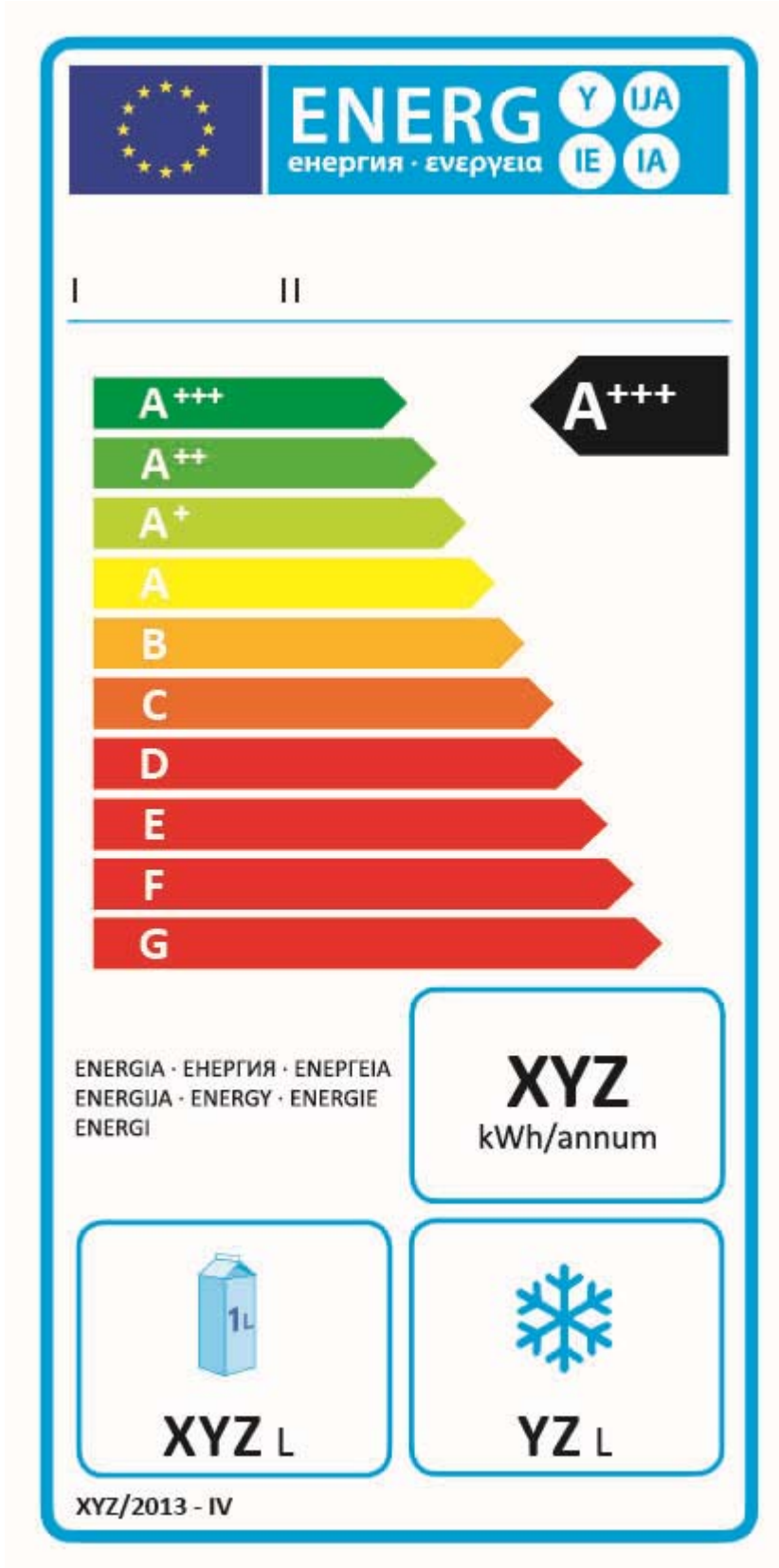
3. Label 3 - Professional storage cabinets in energy efficiency classes A++ to G



The information listed in point 1 shall be included in this label.

The design of the labels shall be in accordance with point 5. By way of derogation, where a model has been awarded an 'EU eco-label' under Regulation (EC) No 66/2010, a copy of the EU eco-label may be added.

4. Label 4 - Professional storage cabinets in energy efficiency classes A+++ to G

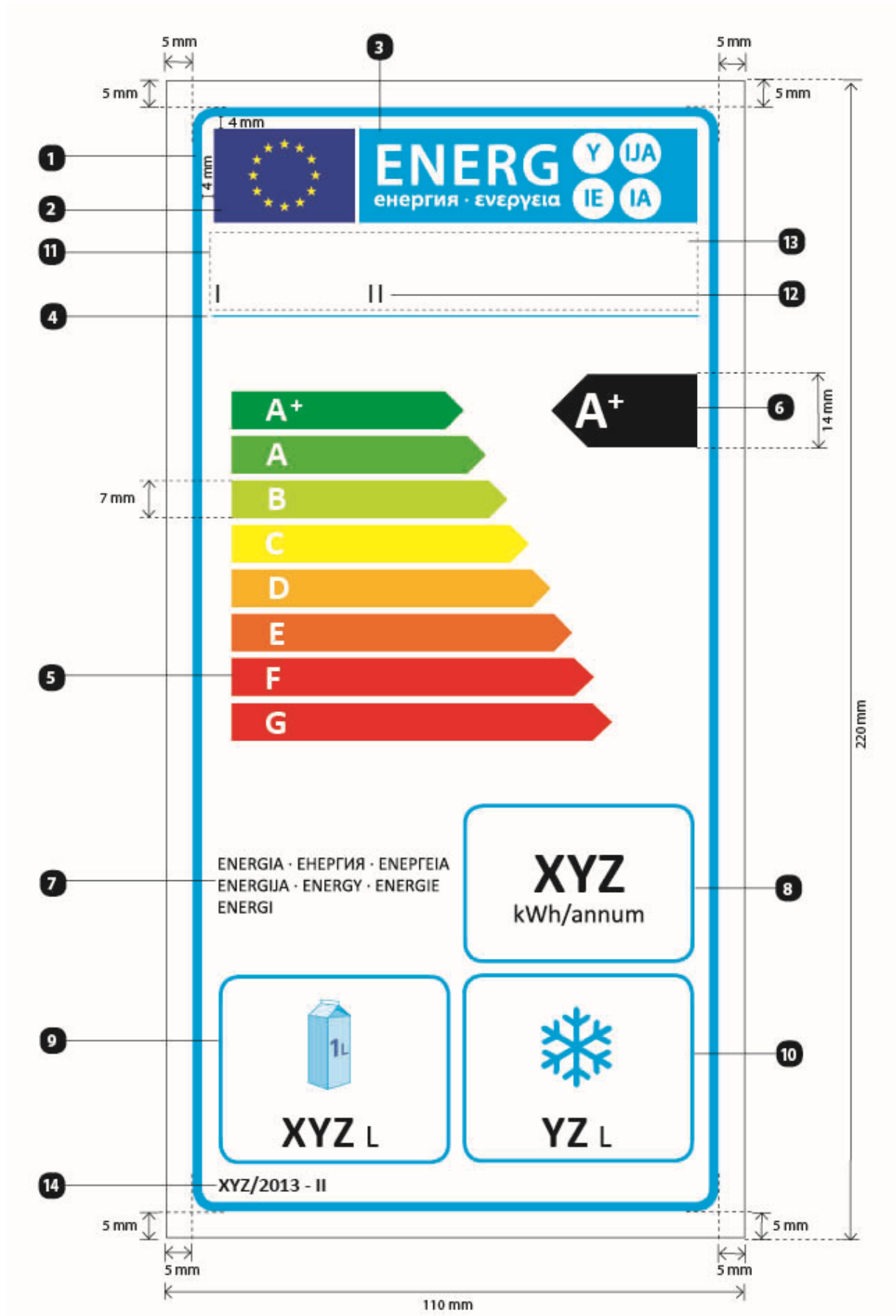


The information listed in point 1 shall be included in this label.

The design of the labels shall be in accordance with point 5. By way of derogation, where a model has been awarded an 'EU eco-label' under Regulation (EC) No 66/2010, a copy of the EU eco-label may be added.



5. The design of the label for professional storage cabinets 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):

① **EU label border stroke:** 5 pt — colour: Cyan 100 % – round corners: 3,5 mm.

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

③ **Energy label:** colour: X-00-00-00.

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

④ **Sub-logos border:** 1 pt — colour: Cyan 100 % – length: 92,5 mm.

⑤ **A-G scale**

— **Arrow:** height: 7 mm, gap: 0,75 mm — colours:

Highest class: X-00-X-00,

Second class: 70-00-X-00,

Third class: 30-00-X-00,

Fourth class: 00-00-X-00,

Fifth class: 00-30-X-00,

Sixth class: 00-70-X-00,

Last classes: 00-X-X-00.

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

⑥ **Energy efficiency class**

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

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

⑦ **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 32 pt, 100 % black.

— **Second line:** Calibri regular 14 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 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.

⑪ Supplier's name or trademark

⑫ Supplier's model identifier

⑬ The supplier's name or trademark and model identifier should fit in a space of 90 x 15 mm.

⑭ Numbering of the Regulation:

**Text:** Calibri bold 11 pt.

## ANNEX IV Product Fiche

1. The information in the product fiche of the professional storage cabinet 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;
  - (c) type of the model in accordance with the definitions of Annex I;
  - (d) the energy efficiency class and the energy efficiency index of the model, determined in accordance with Annex II;
  - (e) where the model has been awarded an 'EU Ecolabel award' under Regulation (EC) No 66/2010, that information may be included;
  - (f) the energy consumption of the cabinet over 24 hours (E24h) and the annual energy consumption in kWh, rounded to the nearest integer and calculated in accordance with Annex IX;
  - (g) storage volume of each compartment;
  - (h) climate class in accordance with Table 3 of Annex IX;
  - (i) for light-duty cabinets, the following information: 'This appliance is not intended to be used in hot professional kitchens';
  - (j) for heavy-duty cabinets, the following information: 'This appliance is capable of maintaining test conditions at climate class 5';
2. One fiche may cover a number of professional storage cabinets 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 V**  
**Technical documentation**

1. The technical documentation referred to in Article 3(1)(c) shall include:
  - (a) the name and address of the supplier;
  - (b) a description of the professional storage cabinet model, sufficient for its unambiguous identification;
  - (c) where appropriate, the references of the harmonised standards applied;
  - (d) where appropriate, the other technical standards and specifications used;
  - (e) the identification and signature of the person empowered to bind the supplier;
  - (f) the results of the measurements and of the calculations for the technical parameters specified in Annex IX;
2. Where the information included in the technical documentation file for a professional storage cabinet model has been obtained by calculation on the basis of an equivalent professional storage cabinet, the technical documentation shall include details of such calculations and of tests undertaken by suppliers to verify the accuracy of the calculations undertaken. The technical information shall also include a list of all other equivalent professional storage cabinet models where the information was obtained on the same basis.
3. The information contained in this technical documentation may be merged with the technical documentation provided in accordance with measures under Directive 2009/125/EC.

## **ANNEX VI**


### **Information to be provided where end-users cannot be expected to see the product displayed, except on the internet**

1. Where end-users cannot be expected to see the product displayed, except on the internet, the information shall be provided in the following order:
  - (a) the energy efficiency class of the model, under average climate conditions, in accordance with Annex II;
  - (b) the annual energy consumption in kWh per year, rounded to the nearest integer and calculated in accordance with Annex IX;
  - (c) the storage volume of each compartment;
  - (d) the 'climate class' in accordance with Annex IX.
2. Where other information contained in the product fiche is provided, it shall be in the form and order specified in Annex IV.
3. The size and font in which the information referred in this Annex is printed or shown shall be such that it is legible.

## **ANNEX VII**

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

1. For the purpose of points 2 to 5 of this Annex the following definitions shall apply:
  - (a) ‘display mechanism’ means any screen, including tactile screen, or other visual technology used for displaying internet content to users;
  - (b) ‘nested display’ means visual interface where an image or data set is accessed by a mouse click, mouse roll-over or tactile screen expansion of another image or data set;
  - (c) ‘tactile screen’ means a screen responding to touch, such as that of a tablet computer, slate computer or a smartphone;
  - (d) ‘alternative text’ means text provided as an alternative to a graphic allowing information to be presented in non-graphical form where display devices cannot render the graphic or as an aid to accessibility such as input to voice synthesis applications.
2. The appropriate label made available by suppliers in accordance with Article 3(1)(b) shall be shown on the display mechanism near the price of the product in accordance with the timelines indicated in Article 3(2). The size of the label shall be such that it is clearly visible and legible and shall be proportionate to the size specified in point 5 of Annex III. The label may be displayed using a nested display, in which case the image used for accessing it shall comply with the specifications in point 3 of this Annex. If nested display is applied, the label shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the image.
3. The image used for accessing the label in the case of nested display shall:
  - (a) be an arrow in the colour corresponding to the energy efficiency class of the product on the label;
  - (b) indicate the energy efficiency class of the product in white in the same font size as that used for the price; and
  - (c) be in one of the following two formats:


4. In the case of nested display, the sequence of display of the label shall be as follows:
  - (a) the image referred to in point 3 of this Annex is shown on the display mechanism in proximity to the price of the product;
  - (b) the image links to the label;
  - (c) the label is displayed after a mouse click, mouse roll-over or tactile screen expansion on the image;
  - (d) the label is displayed by pop up, new tab, new page or inset screen display;
  - (e) for magnification of the label on tactile screens, the device conventions for tactile magnification apply;
  - (f) display of the label is closed by means of a close option or other standard closing mechanism;

- (g) the alternative text for the graphic, to be displayed on failure to display the label, is the energy efficiency class of the product in the same font size as that used for the price.
- 5. The appropriate product fiche made available by suppliers in accordance with Article 3(1)(d) shall be shown on the display mechanism near the price of the product. The size shall be such that the product fiche is clearly visible and legible. The product fiche may be displayed using a nested display, in which case the link used for accessing it shall clearly and legibly indicate 'Product fiche'. If nested display is used, the fiche shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the link.



## ANNEX VIII

### Method for calculating the Energy Efficiency Index for professional storage cabinets

For the calculation of the Energy Efficiency Index (EEI), of a professional storage cabinet model, the Annual Energy Consumption of the cabinet shall be compared to its Standard Annual Energy Consumption.

The Energy Efficiency Index (EEI) shall be calculated as:

$$EEI = (AEC/SAEC) \times 100$$

Where:

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

With AEC = Annual Energy Consumption of the cabinet in kWh/year

$E_{24h}$  = energy consumption of the cabinet over 24 hours

and

$$SAEC = M \times V_n + N$$

With SAEC = Standard Annual Energy Consumption of the cabinet in kWh/year

$V_n$  = net volume of the appliance, which is the sum of net volumes of all compartments of the cabinet.

M and N are given in the Table 2.

Table 2 – M and N coefficient values		
Category	Value for M	Value for N
Vertical Chilled	1.643	609
Vertical Frozen	4.928	1472
Counter Chilled	2.555	1790
Counter Frozen	5.840	2380

**ANNEX IX**  
**Measurement and calculation methods**

1. For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using reliable, accurate and reproducible methods taking into account the generally recognised state-of-the-art measurement and calculation methods, including harmonised standards the reference numbers of which have been published for the purpose in the Official Journal of the European Union. They shall meet the technical definitions, conditions, equations and parameters set out in this Annex.
2. For establishing the values of annual energy consumption and Energy Efficiency Index for professional storage cabinets, measurements shall be carried out using the following conditions:
  - The temperature of test packages shall be comprised between -1°C and 5°C for chilled cabinets and lower than -15°C for frozen cabinets
  - The ambient conditions shall correspond to climate class 4 as detailed in Table 3, except for light-duty cabinets which shall be tested in ambient conditions corresponding to climate class 3 as detailed in Table 3; adjustment factors of 1,2 for light-duty cabinets at chilled operating temperature and 1,1 for light-duty cabinets at frozen operating temperature should then be applied to the testing results thus obtained for light-duty cabinets;
  - Professional storage cabinets shall be tested:
    - at chilled operating temperature, in the case of a combined cabinet containing at least one compartment exclusively intended for chilled operating temperature;
    - at chilled operating temperature, in the case of a professional storage cabinet which has solely one compartment exclusively intended for chilled operating temperature;
    - at frozen operating temperature, in all other cases.
3. The ambient conditions of the climate classes 3, 4 and 5 are shown in Table 3.

<b>Table 3 – Ambient conditions of the climate classes 3, 4 and 5</b>				
Test room climate class	Dry bulb temperature, °C	Relative humidity, %	Dew point, °C	Water vapour mass in dry air, g/kg
3	25	60	16.7	12.0
4	30	55	20.0	14.8
5	40	40	23.9	18.8

## ANNEX X

### Verification procedure for market surveillance purposes

For the purposes of assessing conformity with the requirements laid down in Articles 3 and 4, the authorities of the Member States shall apply the following verification procedure:

1. The Member State authorities shall test one single unit per model.
2. The model shall be considered to comply with the applicable requirements provided the following requirements are met:
  - (a) the measured volume shall not be less than the rated value by more than 3%;
  - (b) the measured value of the energy consumption shall not be greater than the rated value (E24h) by more than 5 %.
3. Where the result referred to in point 2 is not achieved, the Member State authorities shall randomly select three additional units of the same model for testing.
4. The model shall be considered to comply with the applicable requirements provided the following requirements are met:
  - (a) the average of the three units for the measured volume shall not be less than the rated value by more than 3%;
  - (b) the average of the three units for the measured value of the energy consumption shall not be greater than the rated value (E24h) by more than 5 %.
5. Where the results referred to in point 4 are not achieved, the model and all other equivalent professional storage cabinet models shall be considered not to comply with this Regulation. The Member State authorities shall provide the test results and other relevant information to the authorities of the other Member States and to the Commission within one month of the decision being taken on the non-compliance of the model.
6. Member State authorities shall use the measurement and calculation methods set out in Annex VIII and IX.
7. The verification tolerances set out in point 2 and point 4 of this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the supplier as an allowed tolerance to establish the values in the technical documentation. The values and classes on the label or in the product fiche shall not be more favourable for the supplier than the values reported in the technical documentation.