L.N. 343 of 2011

PRODUCT SAFETY ACT
(CAP. 427)

Energy labelling of electric household electric refrigerators, freezers and their combinations (Implementing Measures) Regulations, 2011

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, the Prime Minister, on the advice of the Malta Competition and Consumer Affairs Authority, has made the following regulations:-

Citation, scope and commencement.

1. (1) The title of these regulations is the Energy labelling of household electric refrigerators, freezers and their combinations (Implementing Measures) Regulations, 2011.

(2) These regulations shall be interpreted in terms of the Indication by Labelling and Standard Product Information of the Consumption of Energy and other Resources by Energy Related Products Regulations, 2011, herein after referred to as "the Energy Labelling Regulations".

(3) These regulations implement the requirements of 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.

(4) These regulations constitute an implementing measure within the meaning of the Energy Labelling Regulations with regard to the energy labeling of household electric refrigerators, freezers and their combination.

(5) These regulations shall come into force on the 20th July, 2011.

Scope and application.

2. (1) These Regulations shall apply to electric mains operated household refrigerators, frozen food storage cabinets, food freezers and their combinations.

(2) Appliances that may also use other energy sources, such as batteries, are excluded.

Definitions.

3. The definitions of the Energy Labelling Regulations shall apply.

Energy label and information requirements.

4. (1) The technical documentation referred to in regulation 6(2)a of the Energy Labelling Regulations shall include:

(a) the name and address of the supplier;

(b) a general description of the model, sufficient for it to be identified;

(c) information, including drawings as relevant, on the main design features of the model and in particular items which appreciably affect its energy consumption;

(d) reports of relevant measurement tests carried out under the test procedures of the harmonised standards referred to in regulation 4(8) hereof;

(e) operating instructions, if any.

(2) Where the information relating to a particular model combination has been obtained by calculation on the basis of design, and/or extrapolation from other combinations, the documentation should include details of such calculations and/or extrapolations, and of tests undertaken to verify the accuracy of the calculations undertaken (details of mathematical model for calculating performance and of measurements taken to verify this model).

(3) The appliances covered by these regulations shall be divided into the 'categories' set out in Schedule IV hereof.

(4) The label referred to in regulation 5(1) of the Energy Labelling Regulations shall be as specified in Schedule I to these regulations. It shall be placed on the outside of the front or top of the appliance, in such a way as to be clearly visible, and not obscured.

(5) The content and format of the fiche referred to in regulation 5(2) of the Energy Labelling Regulations shall be as specified in Schedule II to these regulations.

(6) Where the appliances are offered for sale, hire or hire purchase by means of a printed or written communication, or by other means which imply that the potential customer cannot be expected to see the appliance displayed, such as a written offer, a mail order catalogue, advertisements on the Internet or on other electronic media, that communication shall include all the information specified in Schedule III hereto.

(7) The energy efficiency class of an appliance shall be as specified in Schedule V.

(8) The information required by these regulations shall be obtained by means of measurements made in accordance with harmonised standards adopted by the European Standardisation Bodies (CEN, CENELEC, ETSI) under mandate from the Commission in accordance with Directive 98/34/EC, the reference numbers of which have been published in the Official Journal of the European Communities and for which Member States have published the reference numbers of the national standards transposing those harmonised standards.

(9) The provisions of Schedules I, II and III to these regulations requiring the giving of information relating to noise shall apply only where that information is required by Member States under Article 3 of Directive 86/594/EEC. This information shall be measured in accordance with that Directive.

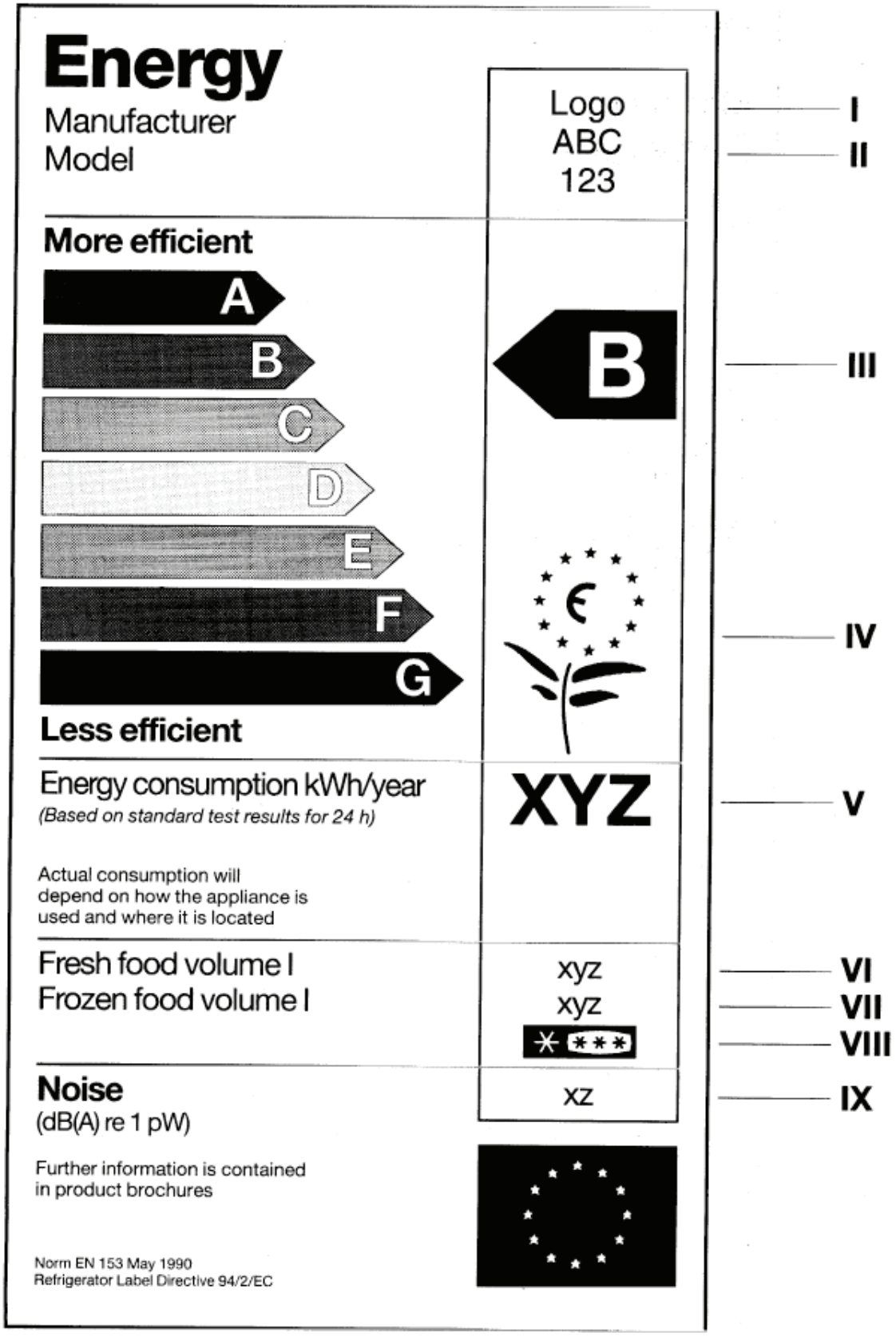
Schedule I

Based on Annex I of Directive 94/2/EC

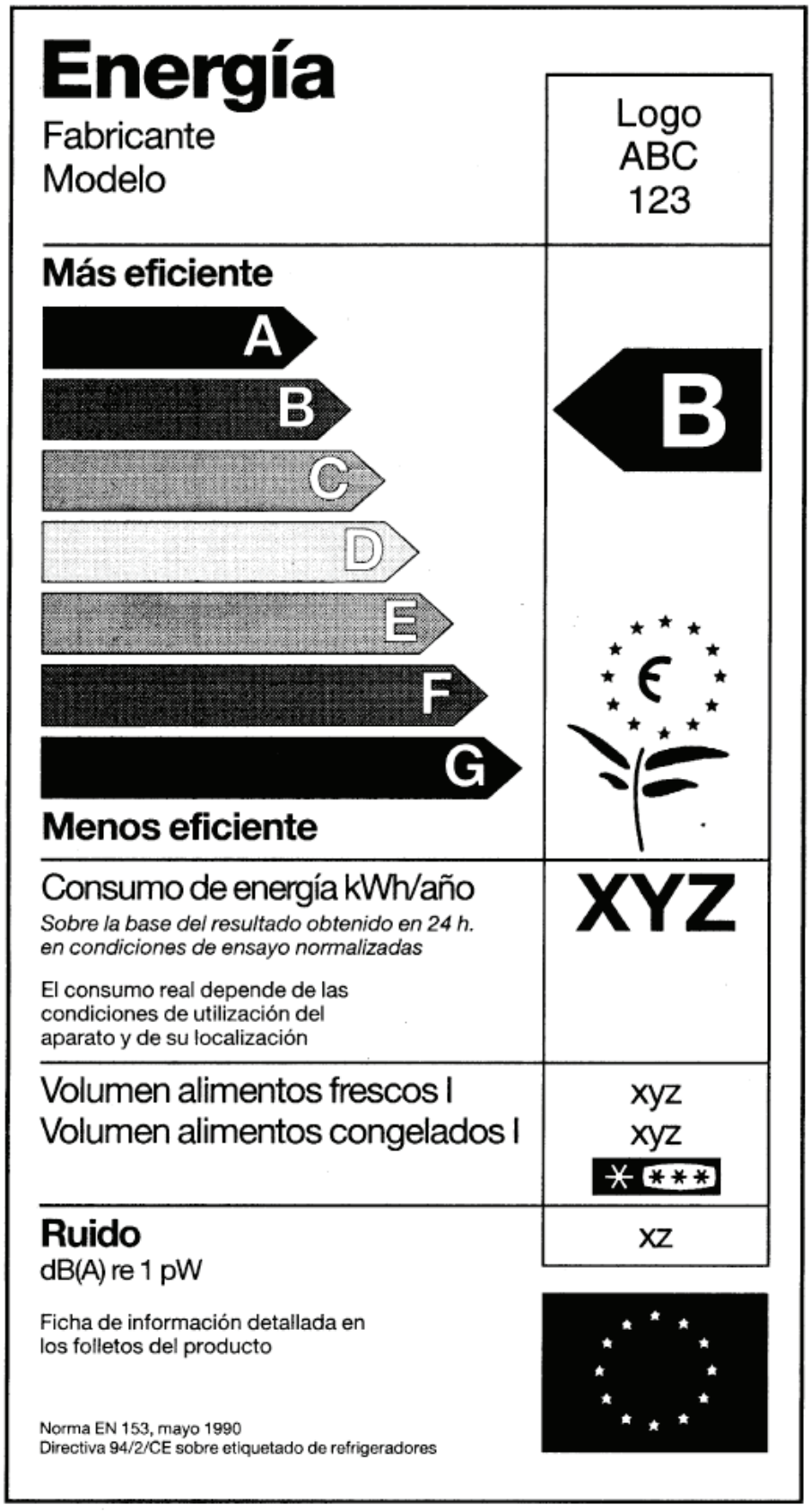
THE LABEL

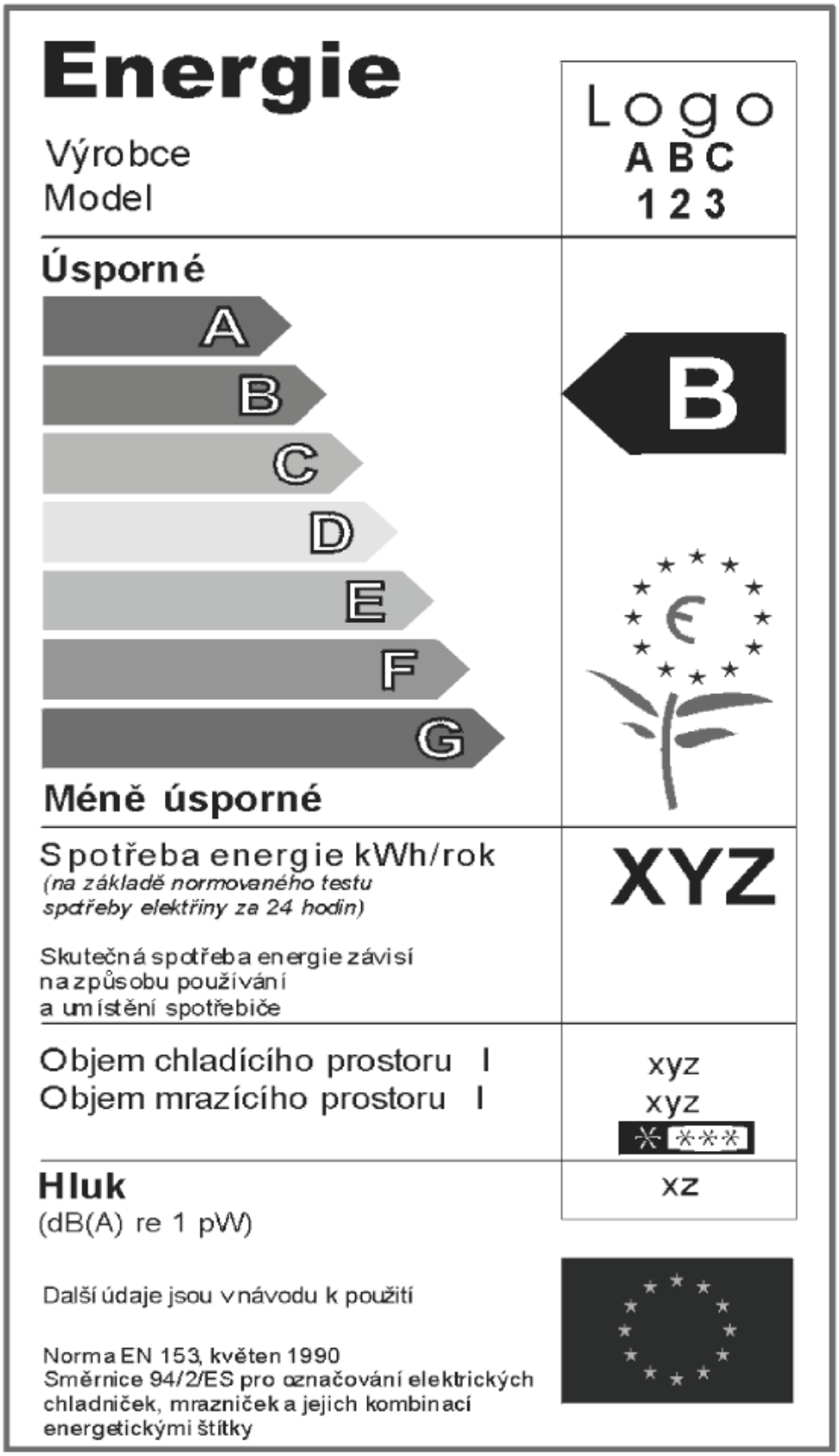
Label Design

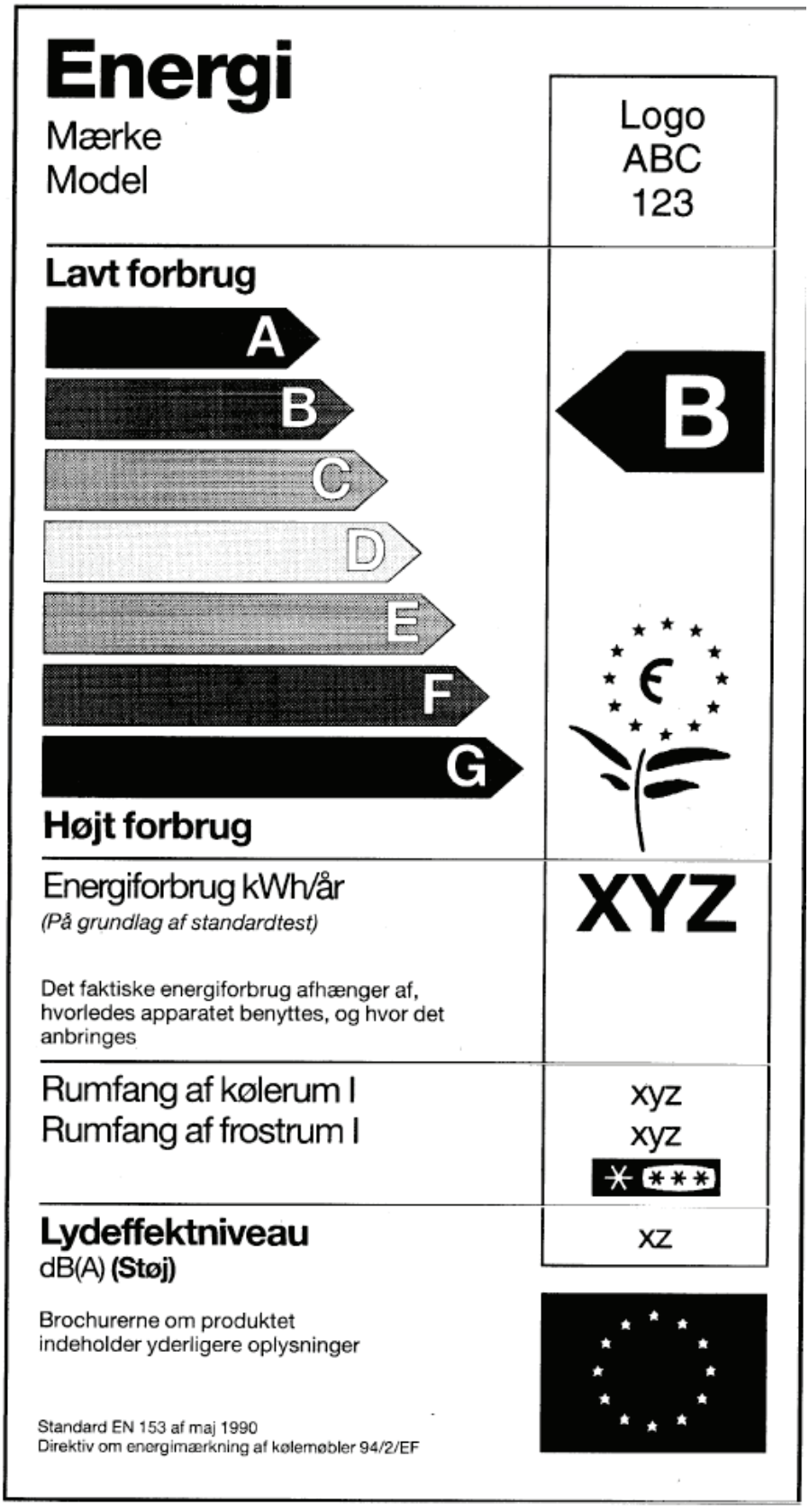
1. The label shall be the relevant language version chosen from the following illustrations:

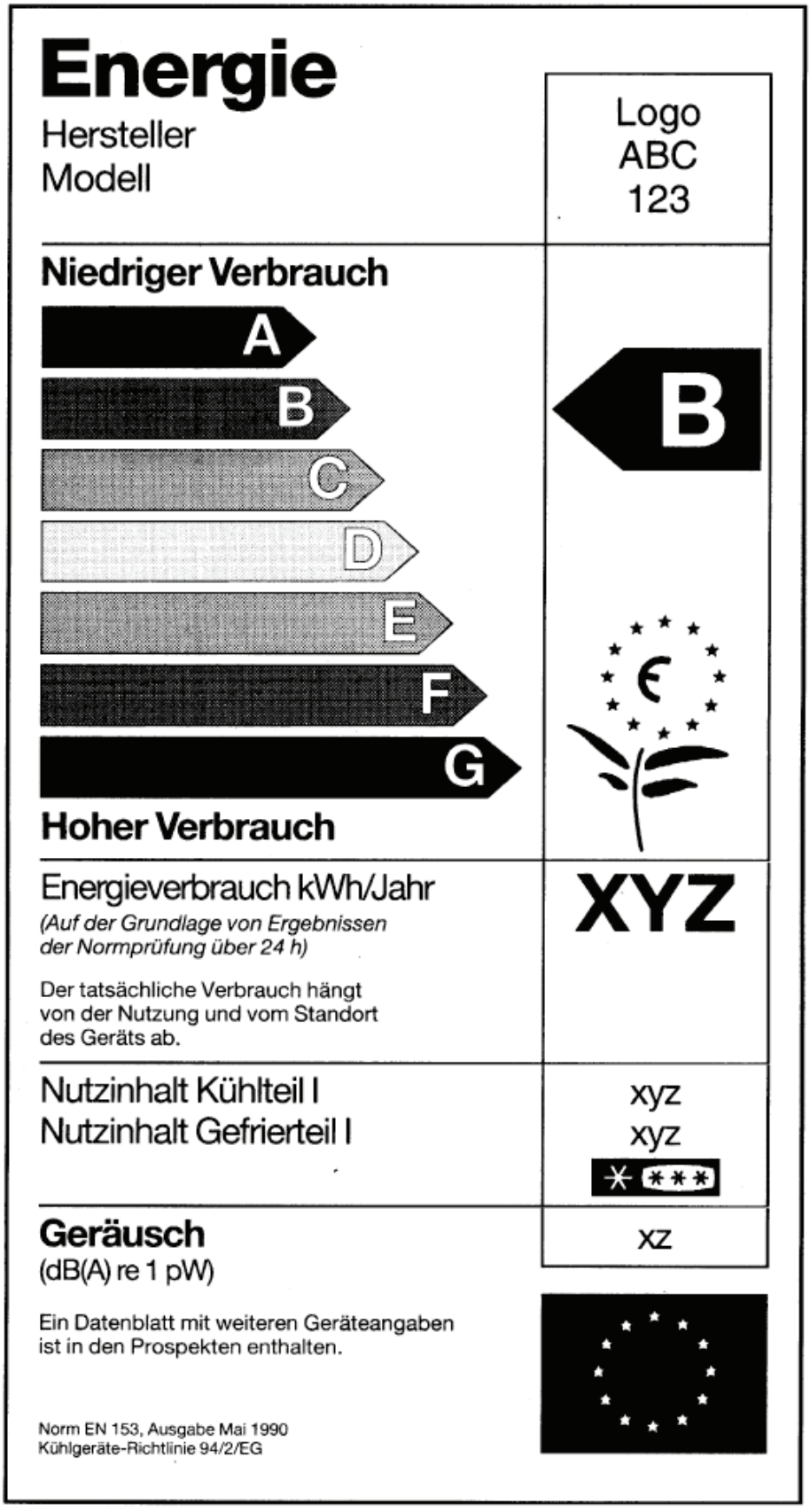

Energy
Manufacturer
Model
Logo
ABC
123
I
II
More efficient
A
B
C
D
E
F
G
B
III
IV
Less efficient
Energy consumption kWh/year
(Based on standard test results for 24 h)
XYZ
V
Actual consumption will depend on how the appliance is used and where it is located
Fresh food volume l
xyz
VI
Frozen food volume l
xyz
VII
***
VIII
Noise
(dB(A) re 1 pW)
xz
IX
Further information is contained in product brochures
Norm EN 153 May 1990
Refrigerator Label Directive 94/2/EC

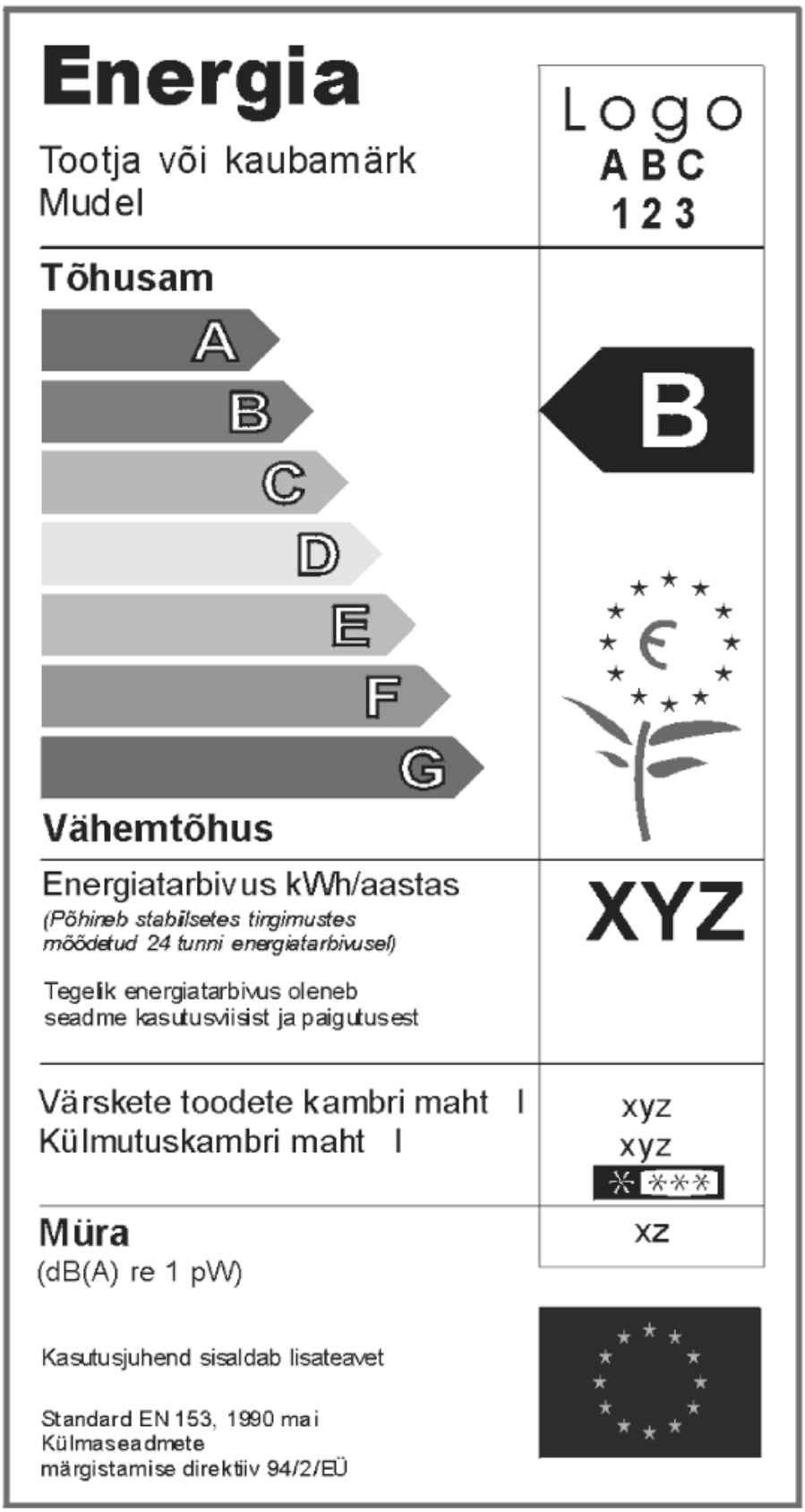

Енергия
Производител
Модел
Logo
ABC
123
По-ефективен
A
B
C
D
E
F
G
B
По-ниско ефективен
Консумация на енергия kWh/година
(Основана на стандартни опитни резултати за 24 h)
Действителната консумация
ще зависи от това как се използва
уредът и къде е разположен
XYZ
Обем за пресни продукти ℓ
Обем за замразени продукти ℓ
xyz
xyz
****
Ниво на шум
(dB(A) за 1 pW)
xz
Допълнителна информация се съдържа
в техническия проспект
БДС EN 153 Май 1990
Директива 94/2/ЕО за хладилници

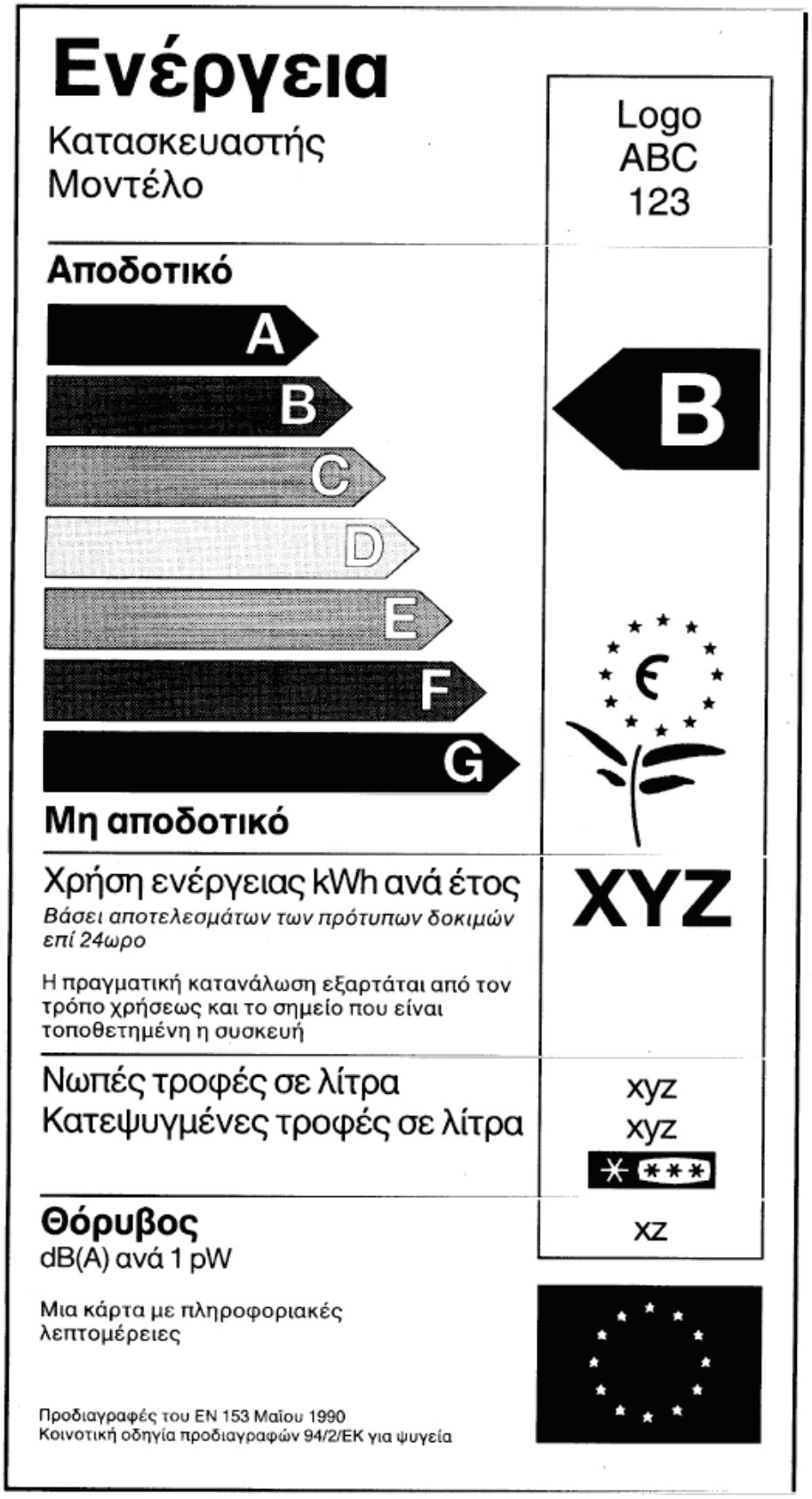

Energía
Fabricante
Modelo
Logo
ABC
123
Más eficiente
A
B
C
D
E
F
G
B
Menos eficiente
Consumo de energía kWh/año
Sobre la base del resultado obtenido en 24 h. en condiciones de ensayo normalizadas
El consumo real depende de las condiciones de utilización del aparato y de su localización
XYZ
Volumen alimentos frescos l
Volumen alimentos congelados l
xyz
xyz
***
Ruido
dB(A) re 1 pW
xz
Ficha de información detallada en los folletos del producto
Norma EN 153, mayo 1990
Directiva 94/2/CE sobre etiquetado de refrigeradores

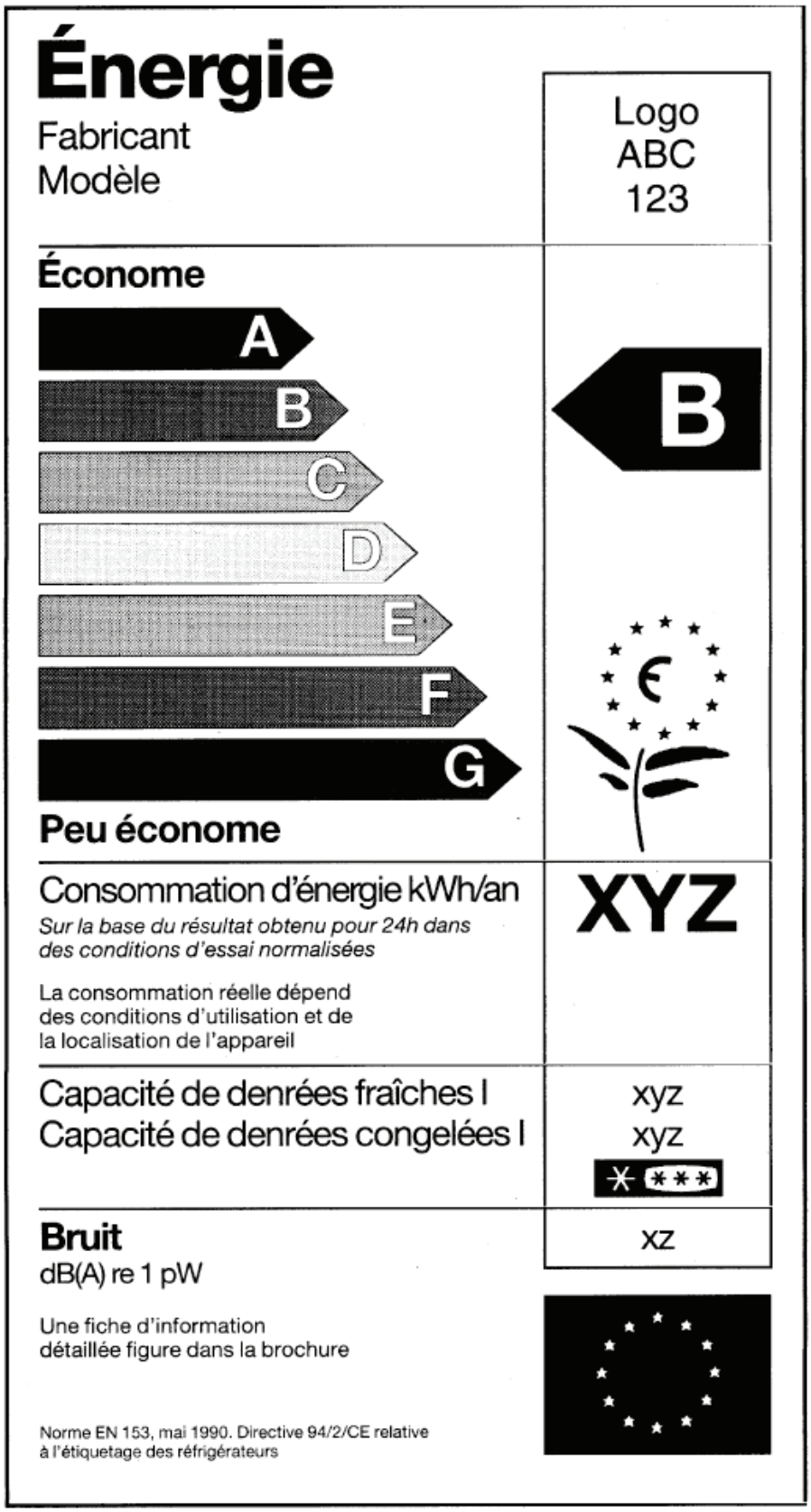

Energie
Výrobce
Model
Logo
A B C
1 2 3
Úsporné
A
B
C
D
E
F
G
B
Méně úsporné
Spotřeba energie kWh/rok
(na základě normovaného testu spotřeby elektřiny za 24 hodin)
Skutečná spotřeba energie závisí na způsobu používání a umístění spotřebiče
XYZ
Objem chladícího prostoru l
Objem mrazícího prostoru l
xyz
xyz
****
Hluk
(dB(A) re 1 pW)
xz
Další údaje jsou v návodu k použití
Norma EN 153, květen 1990
Směrnice 94/2/ES pro označování elektrických chladniček, mrazniček a jejich kombinací energetickými štítky

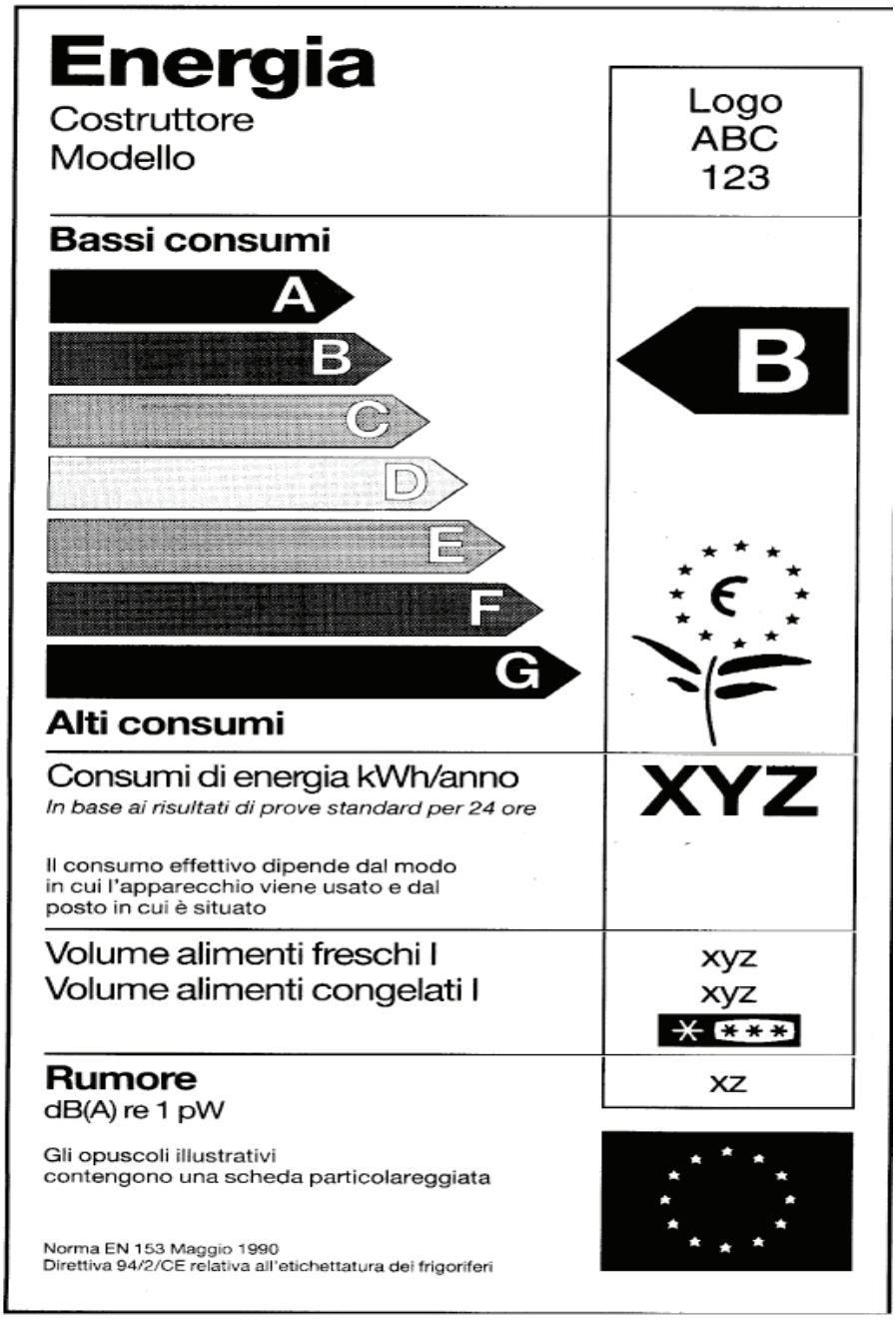

Energi
Mærke
Model
Logo
ABC
123
Lavt forbrug
A
B
C
D
E
F
G
B
Højt forbrug
Energiforbrug kWh/år
(På grundlag af standardtest)
XYZ
Det faktiske energiforbrug afhænger af, hvorledes apparatet benyttes, og hvor det anbringes
Rumfang af kølerum l
Rumfang af frostrum l
xyz
xyz
****
Lydeffektniveau
dB(A) (Støj)
xz
Brochurerne om produktet indeholder yderligere oplysninger
Standard EN 153 af maj 1990
Direktiv om energimærkning af kølemøbler 94/2/EF

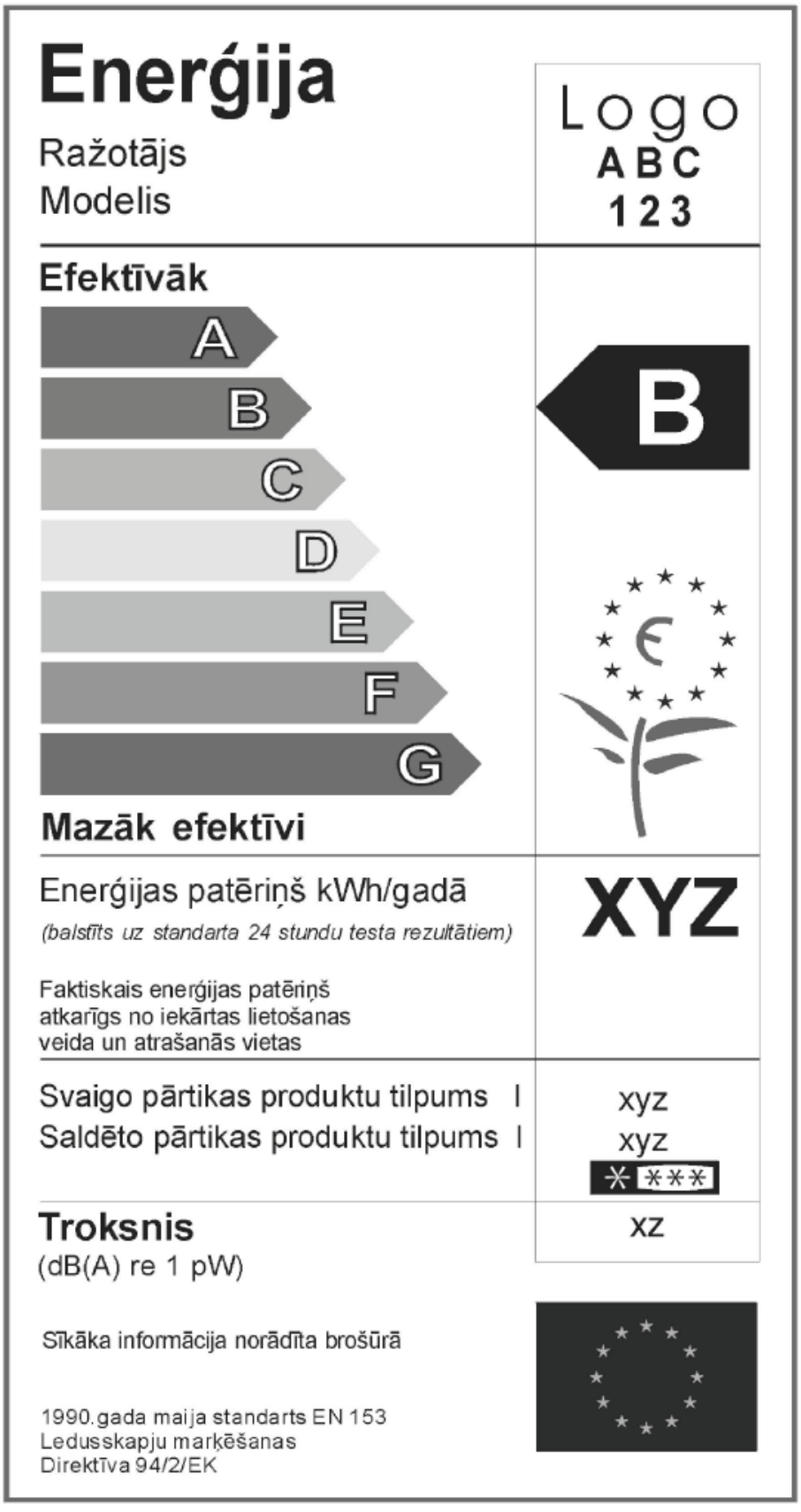

Energie
Hersteller
Modell
Logo
ABC
123
Niedriger Verbrauch
A
B
C
D
E
F
G
B
Hoher Verbrauch
Energieverbrauch kWh/Jahr
(Auf der Grundlage von Ergebnissen der Normprüfung über 24 h)
Der tatsächliche Verbrauch hängt von der Nutzung und vom Standort des Geräts ab.
XYZ
Nutzinhalt Kühlteil l
Nutzinhalt Gefrierteil l
xyz
xyz
****
Geräusch
(dB(A) re 1 pW)
xz
Ein Datenblatt mit weiteren Geräteangaben ist in den Prospekten enthalten.
Norm EN 153, Ausgabe Mai 1990
Kühlgeräte-Richtlinie 94/2/EG

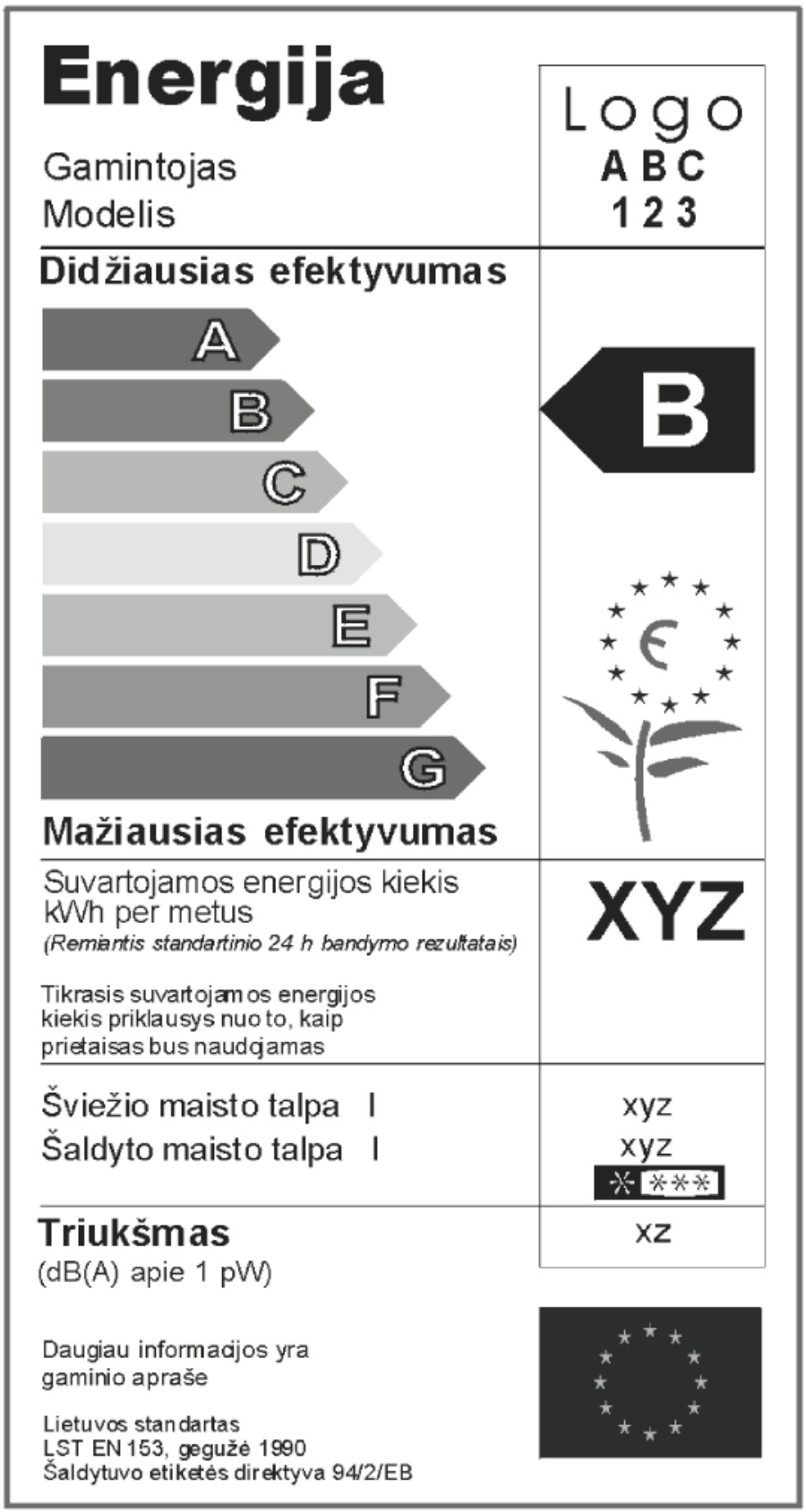

Energia
Tootja või kaubamärk
Mudel
Logo
A B C
1 2 3
Tõhusam
A
B
C
D
E
F
G
B
Vähemtõhus
Energiatarbivus kWh/aastas
(Põhineb stabilsetes tirgimustes mõõdetud 24 tunni energiatarbivusel)
Tegelik energiatarbivus oleneb seadme kasutusviisist ja paigutusest
XYZ
Värskete toodete kambri maht l
Külmutuskambri maht l
xyz
xyz
Müra
(dB(A) re 1 pW)
xz
Kasutusjuhend sisaldab lisateavet
Standard EN 153, 1990 mai
Külmaseadmete
märgistamise direktiiv 94/2/EÜ

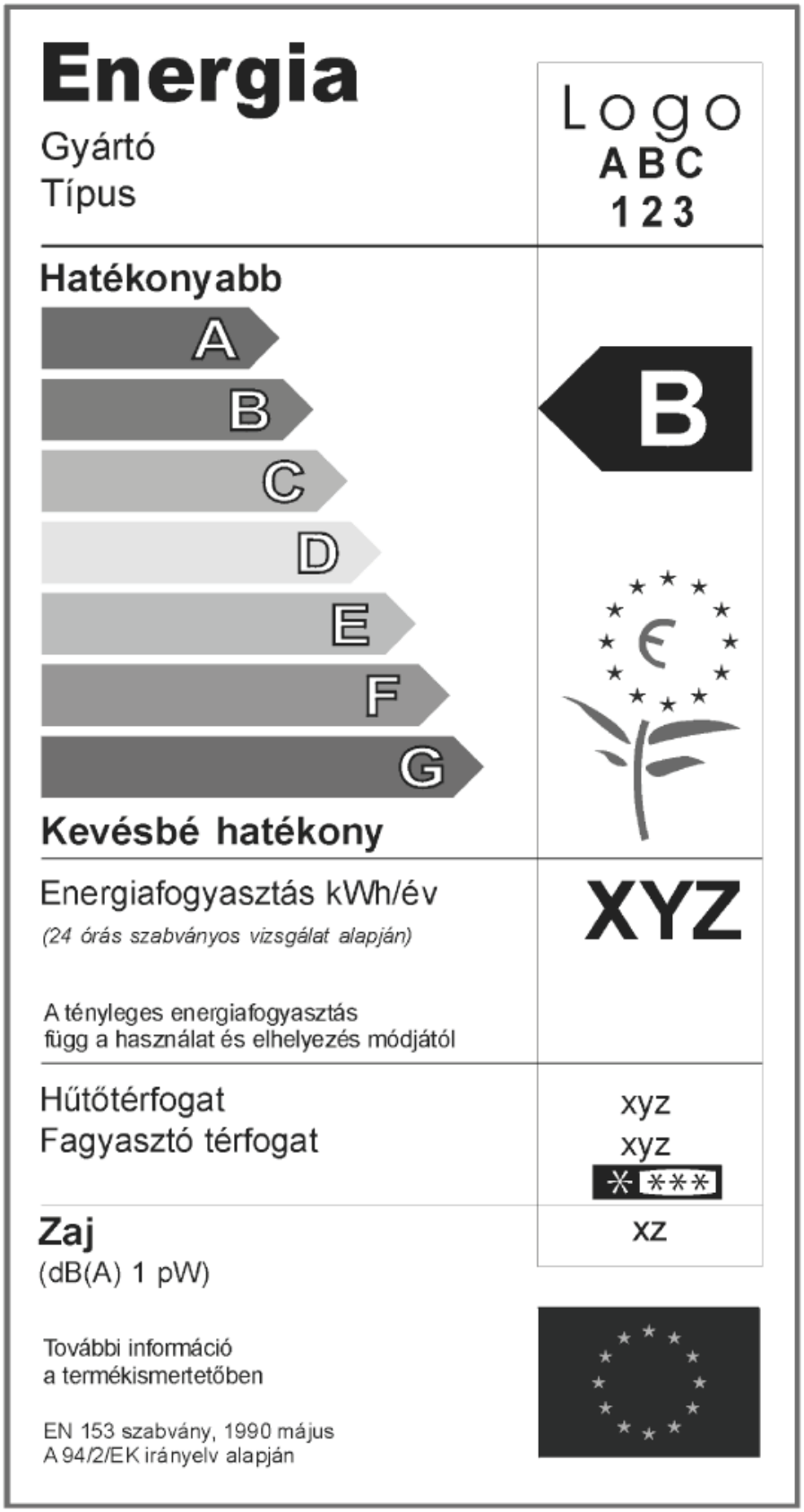

Ενέργεια
Κατασκευαστής
Μοντέλο
Logo
ABC
123
Αποδοτικό
A
B
C
D
E
F
G
B
Μη αποδοτικό
Χρήση ενέργειας kWh ανά έτος
Βάσει αποτελεσμάτων των πρότυπων δοκιμών επί 24ωρο
Η πραγματική κατανάλωση εξαρτάται από τον τρόπο χρήσεως και το σημείο που είναι τοποθετημένη η συσκευή
XYZ
Νωπές τροφές σε λίτρα
xyz
Κατεψυγμένες τροφές σε λίτρα
xyz
***
Θόρυβος
dB(A) ανά 1 pW
xz
Μια κάρτα με πληροφοριακές λεπτομέρειες
Προδιαγραφές του EN 153 Μαΐου 1990
Κοινοτική οδηγία προδιαγραφών 94/2/ΕΚ για ψυγεία

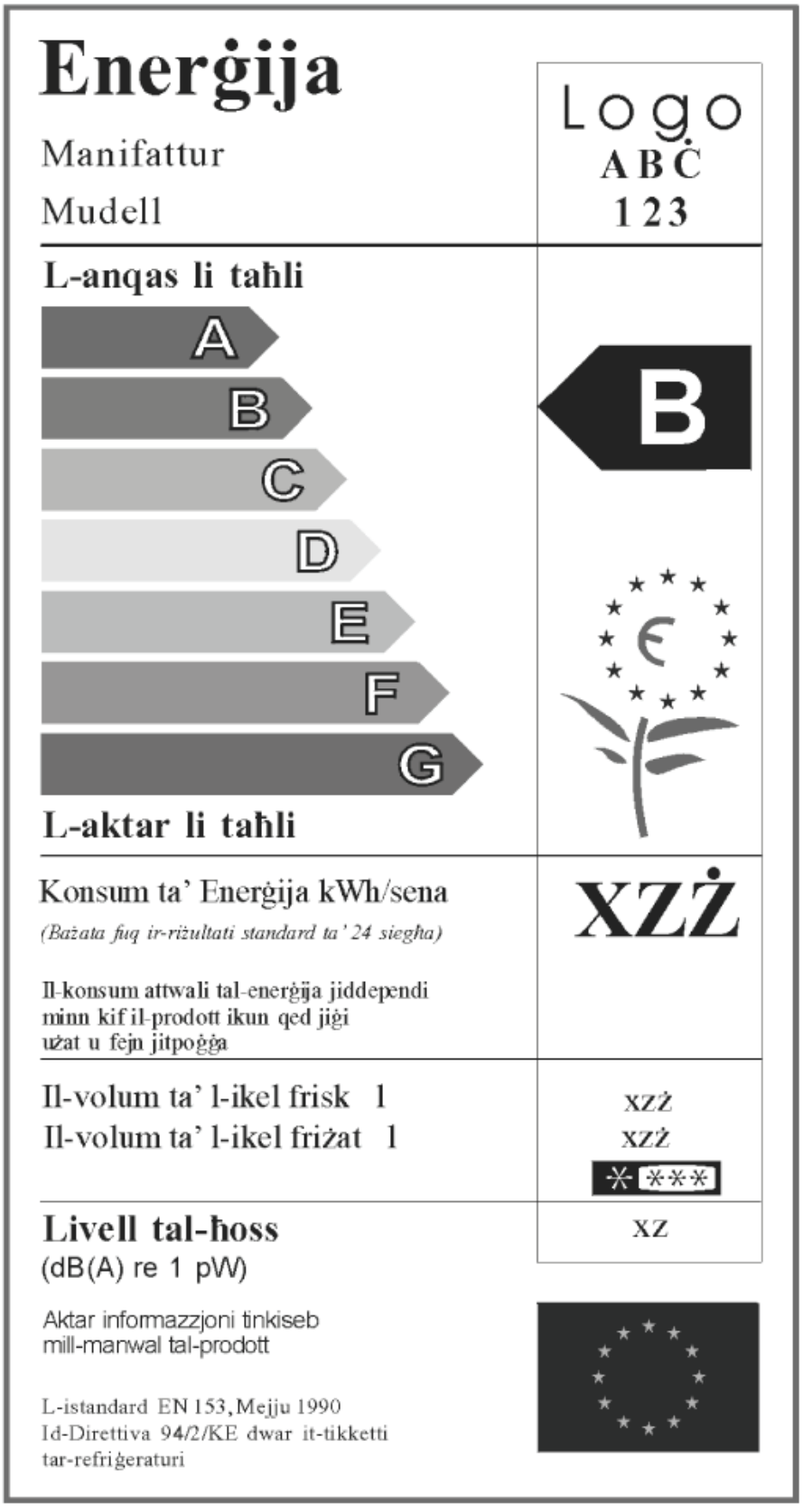

Énergie
Fabricant
Modèle
Logo
ABC
123
Économe
A
B
C
D
E
F
G
B
Peu économe
Consommation d'énergie kWh/an
Sur la base du résultat obtenu pour 24h dans des conditions d'essai normalisées
La consommation réelle dépend des conditions d'utilisation et de la localisation de l'appareil
XYZ
Capacité de denrées fraîches l
Capacité de denrées congelées l
xyz
xyz
****
Bruit
dB(A) re 1 pW
xz
Une fiche d'information détaillée figure dans la brochure
Norme EN 153, mai 1990. Directive 94/2/CE relative à l'étiquetage des réfrigérateurs

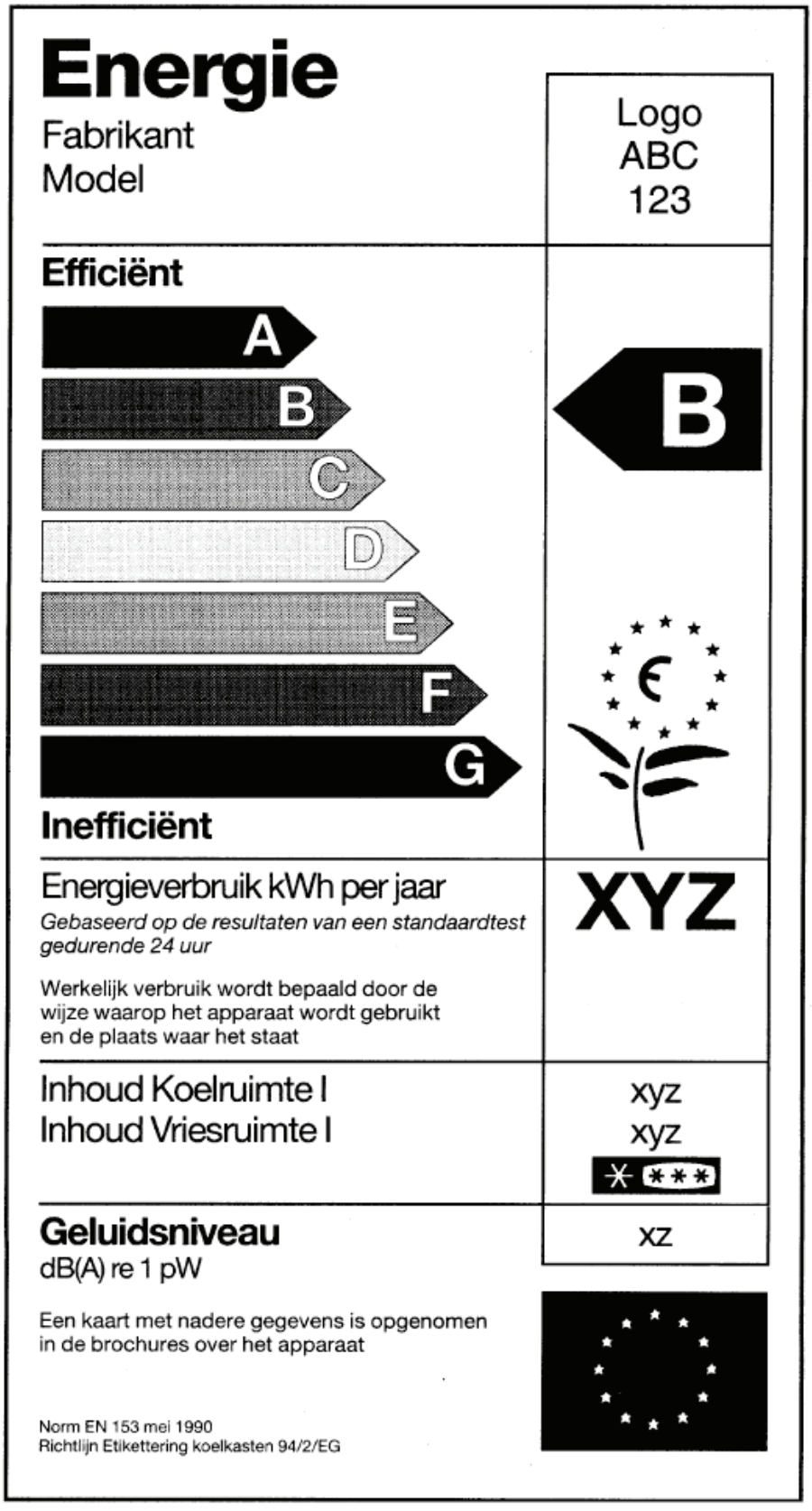

Energia
Costruttore
Modello
Logo
ABC
123
Bassi consumi
A
B
C
D
E
F
G
B
Alti consumi
Consumi di energia kWh/anno
In base ai risultati di prove standard per 24 ore
Il consumo effettivo dipende dal modo in cui l'apparecchio viene usato e dal posto in cui è situato
XYZ
Volume alimenti freschi l
Volume alimenti congelati l
xyz
xyz
****
Rumore
dB(A) re 1 pW
xz
Gli opuscoli illustrativi contengono una scheda particolareggiata
Norma EN 153 Maggio 1990
Direttiva 94/2/CE relativa all'etichettatura dei frigoriferi

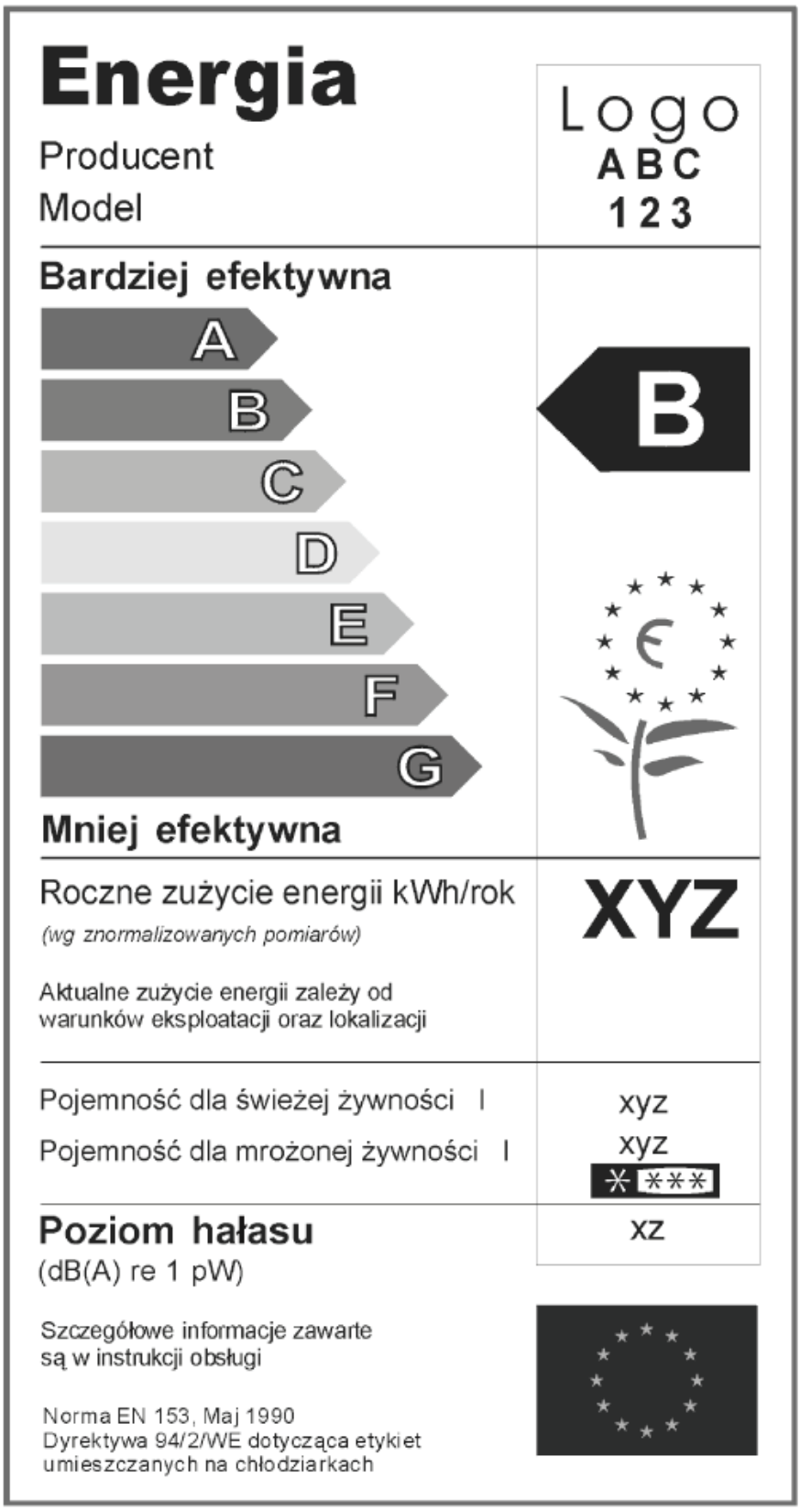

Enerģija
Ražotājs
Modelis
Logo
ABC
123
Efektīvāk
A
B
C
D
E
F
G
B
Mazāk efektīvi
Enerģijas patēriņš kWh/gadā
(balstīts uz standarta 24 stundu testa rezultātiem)
XYZ
Faktiskais enerģijas patēriņš
atkarīgs no iekārtas lietošanas
veida un atrašanās vietas
Svaigo pārtikas produktu tilpums l
xyz
Saldēto pārtikas produktu tilpums l
xyz
****
Troksnis
(dB(A) re 1 pW)
xz
Sīkāka informācija norādīta brošūrā
1990.gada maija standarts EN 153
Ledusskapju marķēšanas
Direktīva 94/2/EK

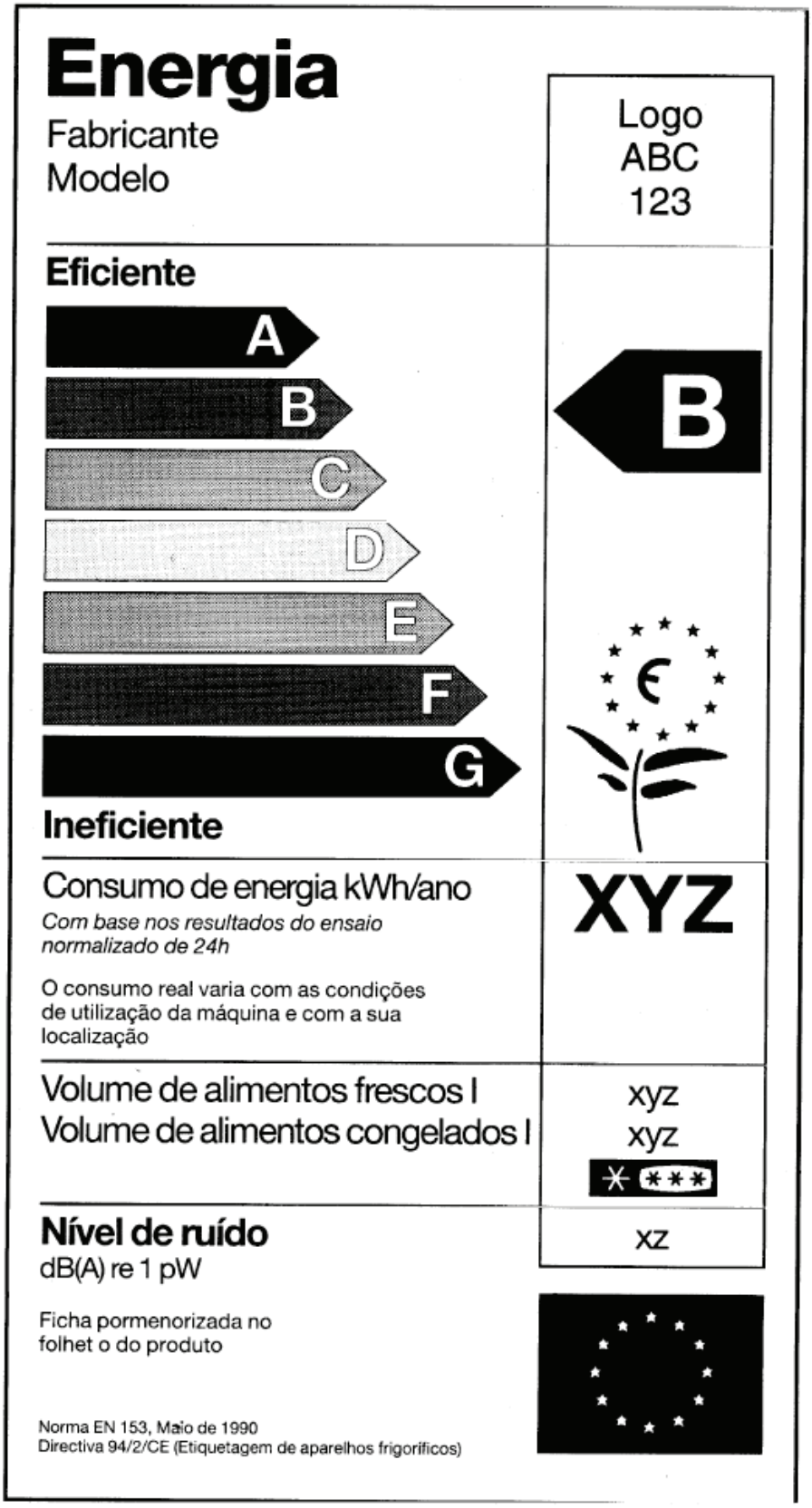

Energija
Gamintojas
Modelis
Logo
A B C
1 2 3
Didžiausias efektyvumas
A
B
C
D
E
F
G
B
Mažiausias efektyvumas
Suvartojamos energijos kiekis
kWh per metus
(Remiantis standartinio 24 h bandymo rezultatais)
XYZ
Tikrasis suvartojamos energijos
kiekis priklausys nuo to, kaip
prietaisas bus naudojamas
Šviežio maisto talpa l
xyz
Šaldyto maisto talpa l
xyz
****
Triukšmas
(dB(A) apie 1 pW)
xz
Daugiau informacijos yra
gaminio apraše
Lietuvos standartas
LST EN 153, gegužė 1990
Šaldytuvo etiketės direktyva 94/2/EB

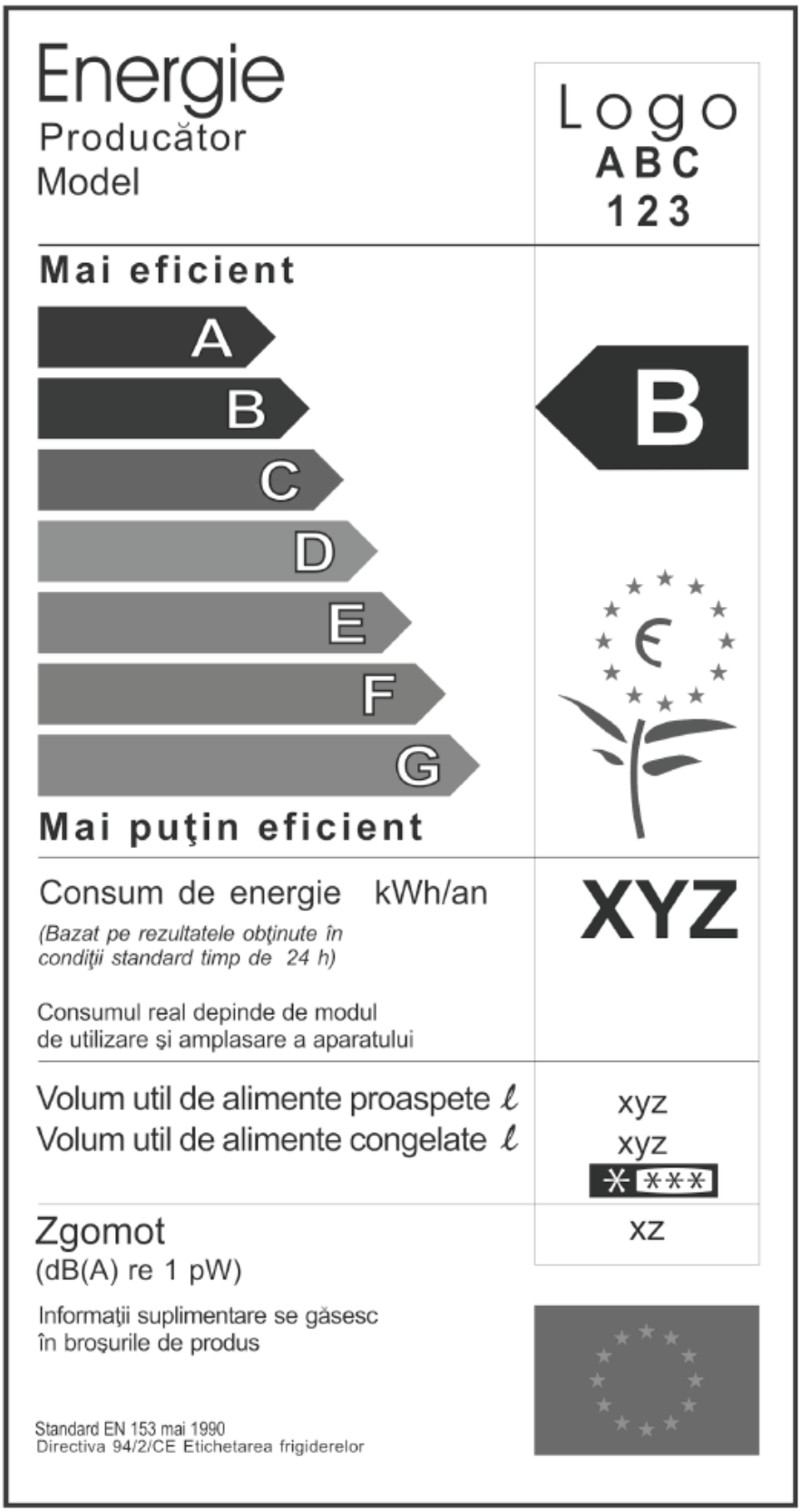

Energia
Gyártó
Típus
Logo
ABC
123
Hatékonyabb
A
B
C
D
E
F
G
Kevésbé hatékony
B
Energiafogyasztás kWh/év
(24 órás szabványos vizsgálat alapján)
A tényleges energiafogyasztás
függ a használat és elhelyezés módjától
XYZ
Hűtőtérfogat
xyz
Fagyasztó térfogat
xyz
****
Zaj
(dB(A) 1 pW)
xz
További információ
a termékismertetőben
EN 153 szabvány, 1990 május
A 94/2/EK irányelv alapján

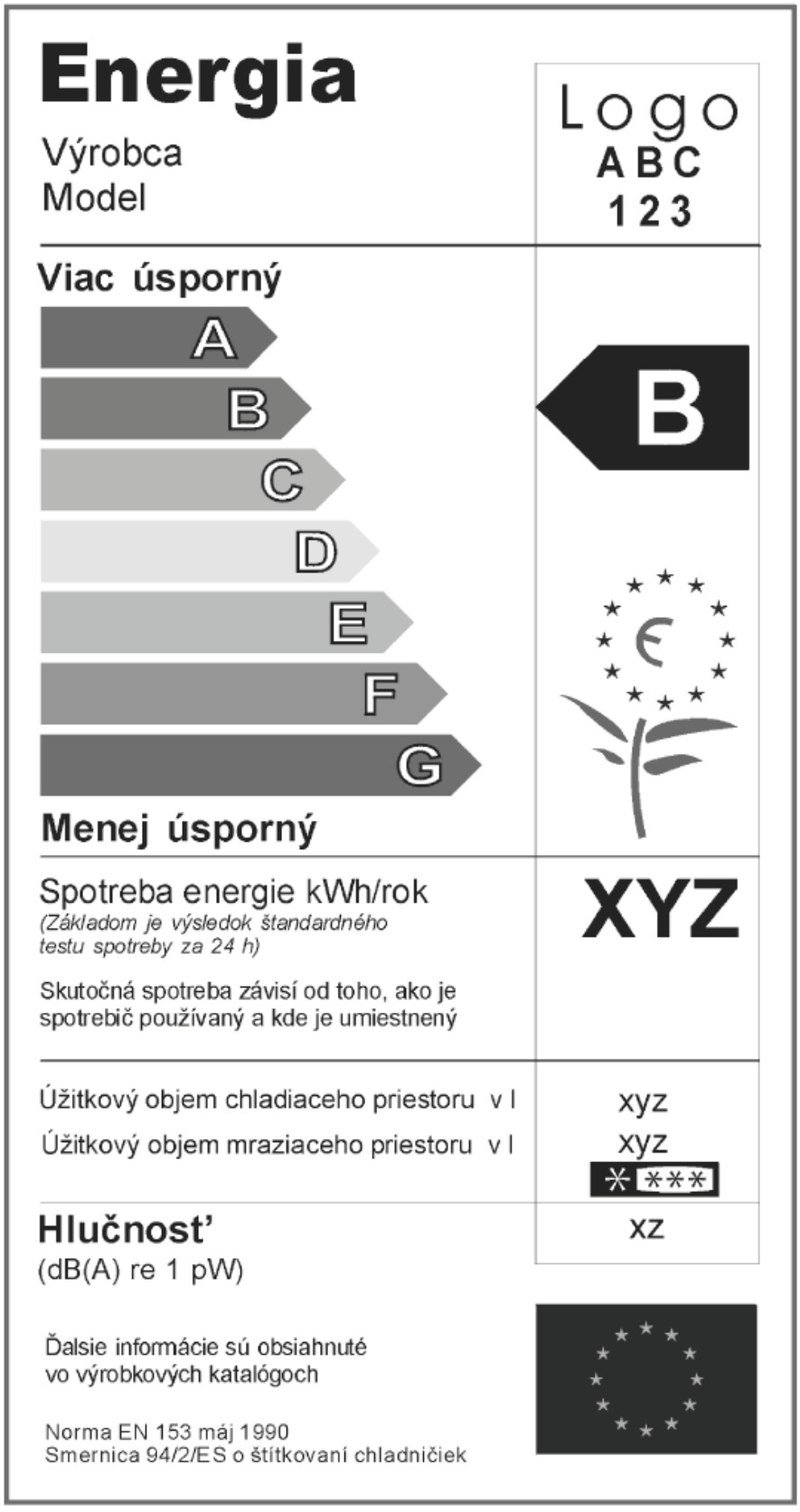

Enerġija
Manifattur
Mudell
Logo
ABĊ
123
L-anqas li taħli
A
B
C
D
E
F
G
B
L-aktar li taħli
Konsum ta' Enerġija kWh/sena
(Bażata fuq ir-riżultati standard ta' 24 siegħa)
Il-konsum attwali tal-enerġija jiddependi minn kif il-prodott ikun qed jiġi użat u fejn jitpoġġa
XZŻ
Il-volum ta' l-ikel frisk l
Il-volum ta' l-ikel friżat l
XZŻ
XZŻ
****
Livell tal-ħoss
(dB(A) re 1 pW)
XZ
Aktar informazzjoni tinkiseb mill-manwal tal-prodott
L-istandard EN 153, Mejju 1990
Id-Direttiva 94/2/KE dwar it-tikketti tar-refriġeraturi

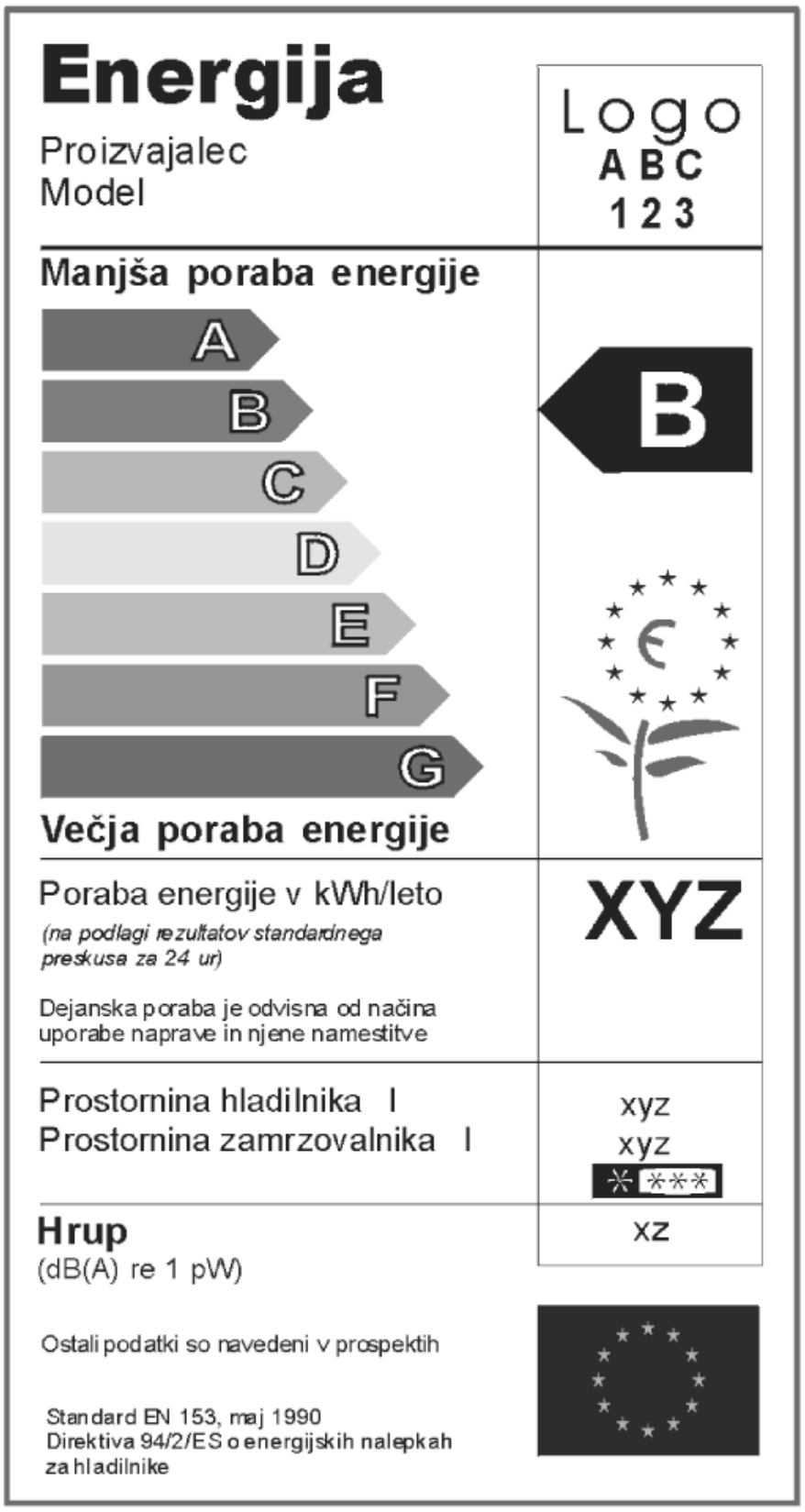

Energie
Fabrikant
Model
Logo
ABC
123
Efficiënt
A
B
C
D
E
F
G
B
Inefficiënt
Energieverbruik kWh per jaar
Gebaseerd op de resultaten van een standaardtest gedurende 24 uur
Werkelijk verbruik wordt bepaald door de wijze waarop het apparaat wordt gebruikt en de plaats waar het staat
XYZ
Inhoud Koelruimte l
Inhoud Vriesruimte l
xyz
xyz
****
Geluidsniveau
dB(A) re 1 pW
xz
Een kaart met nadere gegevens is opgenomen in de brochures over het apparaat
Norm EN 153 mei 1990
Richtlijn Etikettering koelkasten 94/2/EG


Energia
Producent
Model
Logo
ABC
123
Bardziej efektywna
A
B
C
D
E
F
G
B
Mniej efektywna
Roczne zużycie energii kWh/rok
(wg znormalizowanych pomiarów)
XYZ
Aktualne zużycie energii zależy od warunków eksploatacji oraz lokalizacji
Pojemność dla świeżej żywności l
xyz
Pojemność dla mrożonej żywności l
xyz
****
Poziom hałasu
(dB(A) re 1 pW)
xz
Szczegółowe informacje zawarte są w instrukcji obsługi
Norma EN 153, Maj 1990
Dyrektywa 94/2/WE dotycząca etykiet umieszczanych na chłodziarkach


Energia
Fabricante
Modelo
Logo
ABC
123
Eficiente
A
B
C
D
E
F
G
B
Ineficiente
Consumo de energia kWh/ano
Com base nos resultados do ensaio normalizado de 24h
O consumo real varia com as condições de utilização da máquina e com a sua localização
XYZ
Volume de alimentos frescos l
Volume de alimentos congelados l
xyz
xyz
****
Nível de ruído
dB(A) re 1 pW
xz
Ficha pormenorizada no folhet o do produto
Norma EN 153, Maio de 1990
Directiva 94/2/CE (Etiquetagem de aparelhos frigoríficos)


Energie
Producător
Model
Logo
ABC
123
Mai eficient
A
B
C
D
E
F
G
B
Mai puţin eficient
Consum de energie kWh/an
(Bazat pe rezultatele obţinute în condiţii standard timp de 24 h)
Consumul real depinde de modul de utilizare şi amplasare a aparatului
XYZ
Volum util de alimente proaspete ℓ
Volum util de alimente congelate ℓ
xyz
xyz
****
Zgomot
(dB(A) re 1 pW)
xz
Informaţii suplimentare se găsesc în broşurile de produs
Standard EN 153 mai 1990
Directiva 94/2/CE Eticheta rea frigiderelor


Energia
Výrobca
Model
Logo
ABC
123
Viac úsporný
A
B
C
D
E
F
G
B
Menej úsporný
Spotreba energie kWh/rok
(Základom je výsledok štandardného testu spotreby za 24 h)
Skutočná spotreba závisí od toho, ako je spotrebič používaný a kde je umiestnený
XYZ
Úžitkový objem chladiaceho priestoru v l
xyz
Úžitkový objem mraziaceho priestoru v l
xyz
****
Hlučnosť
(dB(A) re 1 pW)
xz
Ďalsie informácie sú obsiahnuté vo výrobkových katalógoch
Norma EN 153 máj 1990
Smernica 94/2/ES o štítkovaní chladničiek


Energija
Proizvajalec
Model
Logo
A B C
1 2 3
Manjša poraba energije
A
B
C
D
E
F
G
B
Večja poraba energije
Poraba energije v kWh/leto
(na podlagi rezultatov standardnega preskusa za 24 ur)
Dejanska poraba je odvisna od načina uporabe naprave in njene namestitve
XYZ
Prostornina hladilnika l
Prostornina zamrzovalnika l
xyz
xyz
****
Hrup
(dB(A) re 1 pW)
xz
Ostali podatki so navedeni v prospektih
Standard EN 153, maj 1990
Direktiva 94/2/ES o energijskih nalepkah za hladilnike

Notes on label

2. The following notes define the information to be included:

Note

I. Supplier's name or trade mark.

II. Supplier's model identifier.

III. The energy efficiency class of an appliance shall be determined in accordance with Annex V. The appropriate letter shall be placed at the same level as the relevant arrow.

IV. Without prejudice to any requirements under the Community eco-label scheme, where a model has been granted a 'European Union eco-label' under Regulation (EC) No 1980/2000 of the European Parliament and of the Council of 17 July 2000 on a revised Community eco-label award scheme [1], a copy of the eco-label may be added here. The 'refrigerator/freezer label design guide' referred to below, explains how the Eco-award mark, may be included in the label.

V. Energy consumption in accordance with standards referred to in regulation 4(8) hereof, but expressed in kWh per year (i.e. per 24 hours×365).

VI. Sum of net storage volume of all compartments that do not merit a star rating (i.e. operating temperature > - 6 °C).

VII. Sum of net storage volume of all frozen food storage compartments which merit a star rating (i.e. operating temperature ≤ - 6 °C).

VIII. Star rating of frozen food storage compartment, in accordance with standards referred to in regulation 4(8) hereof. Where this compartment does not merit any stars, this position shall be left blank.

IX. Where applicable, noise measured in accordance with Directive 86/594/ EEC [2].

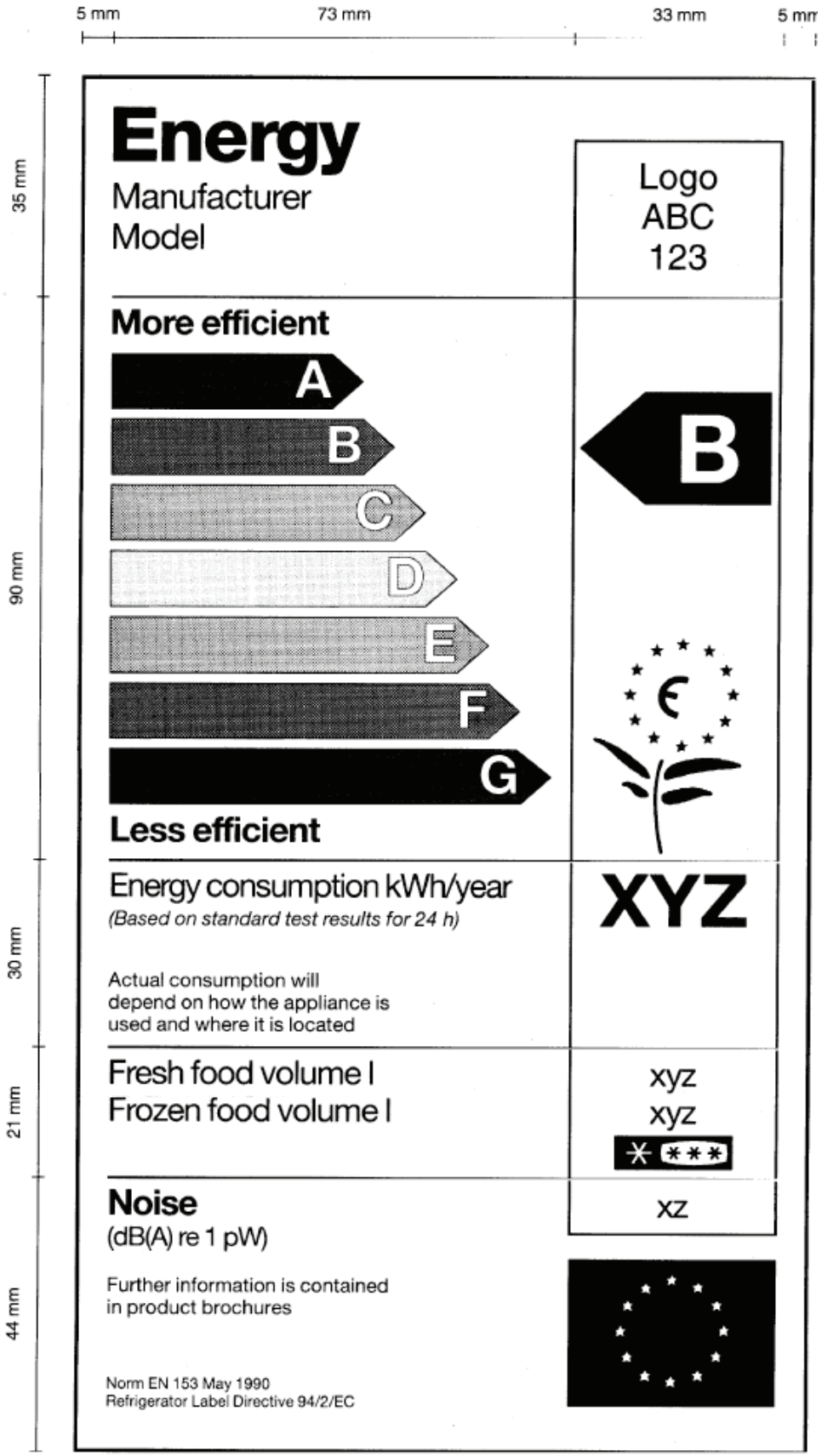
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1 OJ L 237, 21.9.2000, p. 1.

2 The relevant standards are EN 60704 -2-10 (noise measurement) and EN 60704-3 (verification).

Printing

3. The following defines certain aspects of the label:


5 mm
73 mm
33 mm
5 mm
35 mm
90 mm
30 mm
21 mm
44 mm
Energy
Manufacturer
Model
Logo
ABC
123
More efficient
A
B
C
D
E
F
G
Less efficient
B
Energy consumption kWh/year
(Based on standard test results for 24 h)
XYZ
Actual consumption will depend on how the appliance is used and where it is located
Fresh food volume l
Frozen food volume l
xyz
xyz
****
Noise
(dB(A) re 1 pW)
xz
Further information is contained in product brochures
Norm EN 153 May 1990
Refrigerator Label Directive 94/2/EC

The indicator letter for A+ and A++ appliances shall be in accordance with the following illustrations, and shall be placed in the same position as the A indicator for A class appliances

A+



A++



Colours used:

CMYK — cyan, magenta, yellow, black.

Ex.07X0: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black.

Arrows

A X0X0

B 70X0

C 30X0

D 00X0

E 03X0

F 07X0

G 0XX0

Outline colour: X070

All text is in black. The background is white.

Schedule II

Based on Annex II of Directive 94/2/EC

THE FICHE

The fiche shall contain the following information. The information may be given in the form of a table covering a number of appliances supplied by the same supplier, in which case it shall be given in the order specified, or given close to the description of the appliance:

1. Supplier's trade mark.

2. Supplier's model identifier.

3. Type of appliance as follows:

Category	Description in Fiche
1	Larder Fridge
2	Refrigerator / Chiller
3	Refrigerator
4	Refrigerator
5	Refrigerator
6	Refrigerator
7	Fridge/Freezer
8	Upright Freezer
9	Chest Freezer
	For category 10 appliances, the supplier may choose its description of the type of appliance.

4. The energy efficiency class of the model as defined in Schedule V, expressed as 'Energy efficiency class … on a scale of A++ (most efficient) to G (least 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 A++ (most efficient) to G (least efficient).

5. Where the information is provided in a table, and where some of the appliances listed in the table have been granted a ‘European Union eco-label’ under Regulation (EC) No 1980/2000, this information may be included here. In this case the row heading shall state ‘European Union eco-label’, and the entry shall consist of a copy of the eco-label mark. This provision is without prejudice to any requirements under the Community eco-label scheme.

6. Energy consumption in accordance with standards referred to in sub-regulation 4(8) hereto but expressed in kWh per year (i.e. per 24 hours×365), described as: ‘energy consumption XYZ kWh per year, based on standard test results for 24 h. Actual energy consumption will depend on how the appliance is used and where it is located.’

7. Net storage volume of fresh food storage compartment (5 °C) in accordance with standards referred to in sub-regulation 4(8) hereto — omit for classes 8 and 9.

8. Net storage volume of frozen food storage compartment, and of chill compartment when available, in accordance with standards referred to in regulation 4(8) hereof — omit for classes 1, 2 and 3. For class 3 appliances the net volume of the ‘ice box’.

7 and 8. For classes 2 and 10 the net volume of each compartment should be listed, in accordance with standards referred to in regulation 4(8) hereof.

9. Star rating of frozen food storage compartment, if any, in accordance with standards referred to in regulation 4(8) hereof.

10. The mention ‘no frost’ may be included here when in accordance with the definitions given in the standards referred to in regulation 4(8) hereof.

11. ‘Power cut safe Z h’ defined as ‘temperature rise time’ in accordance with standards referred to in regulation 4(8) hereof.

12. ‘Freezing capacity’ in kg/24 h in accordance with standards referred to in regulation 4(8) hereof.

13. ‘Climate class’ in accordance with the standards referred to in sub-regulation 4(8). Where appliance is of ‘temperate’ climate class this may be omitted.

14. ‘Noise’, where applicable, measured in accordance with Directive 86/594/EEC.

15. If the model is produced in order to be built-in, this should be stated.

Where an appliance contains compartments other than a single fresh food compartment and a single frozen food compartment, extra lines may be added at 7, 8, 9, 10, 11, 12 and 13 to include the information in respect of these

compartments. In this case the naming and order of listing of the compartments shall be consistent. Where the design temperature of a compartment does not conform to the star rating system, or the standard fresh food compartment temperature (5 °C), this design temperature shall be given. The information contained in the label may be given in the form of a copy of the label, either in colour or in black and white. In this case the further information given only in the fiche must still be included.

Schedule III

Based on Annex III of Directive 94/2/EC

MAIL ORDER AND OTHER DISTANCE SELLING

Mail order catalogues and other printed communications referred to in regulation 4(6) hereof shall contain the following information, given in the order specified:

1. Energy efficiency class (Schedule II, point 4)
2. Energy consumption (Schedule II, point 6)
3. Net volume of fresh food compartment (Schedule II, point 7)
4. Net volume of frozen food compartment (Schedule II, point 8)
5. Star rating (Schedule II, point 9)
6. Noise (Schedule II, point 14)

Where other information contained in the product information fiche is provided, it shall be in the form defined in Schedule II and shall be included in the above list in the order specified for the fiche.

The size and font, in which all the information referred to above is printed, shall be legible.

Schedule IV

Based on Annex IV of Directive 94/2/EC

CATEGORIES

The appliances covered by these Regulations shall be divided into the following 'categories':

1. Household refrigerators, without low temperature compartments.
2. Household refrigerator/chillers, with compartments at 5 °C and/or 10 °C.
3. Household refrigerators, with no-star low temperature compartments.
4. Household refrigerators, with low temperature compartments *.
5. Household refrigerators, with low temperature compartments **.
6. Household refrigerators, with low temperature compartments ***.
7. Household refrigerator/freezers, with low temperature compartments *(***).
8. Household food freezers, upright.
9. Household food freezers, chest.
10. Household refrigerators and freezers with more than two doors, or other appliances not covered above.

Schedule V

Based on Annex V of Directive 94/2/EC

ENERGY EFFICIENCY CLASS

PART 1: Definitions of Classes A+ and A++

An appliance shall be classified as A+ or A++, where the energy efficiency index alpha (Iα) is within the ranges specified in Table 1.

Table 1	
Energy efficiency index α (Iα)	Energy efficiency class
30 > Iα A++	A++
42 > Iα ≥ 30 A+	A+
Iα ≥ 42	A to G (see below)

In Table 1:

$$I_\alpha = \frac{AC}{SC_\alpha} \times 100$$

where:
AC = annual energy consumption of appliance (in accordance with Schedule I, note V)
SCα = standard annual energy consumption α of appliance SCα is calculated as

$$M_\alpha X \sum_{\text{Compartments}} \left(Vc \times \frac{(25 - Tc)}{20} \times FF \times CC \times BI \right) + N_\alpha + CH$$

where:
Vc is the net volume (in litres) of the compartment (in accordance with standards referred to in regulation 4(8)).

Tc is the design temperature (in °C) of the compartment.

The values of Mα and Nα are given in Table 2 and the values of FF, CC, BI and CH are given in Table 3.

Table 2

Type of appliance	Temperature of coldest compartment	Mα	Nα
1 Larder Fridge	> – 6 °C	0.233	245
2 Refrigerator/chiller	> – 6 °C	0.233	245
3 Refrigerator no star	> – 6 °C	0.233	245
4 Refrigerator *	≤ – 6 °C *	0.643	191
5 Refrigerator **	≤ – 12 °C **	0.450	245
6 Refrigerator ***/	≤ – 18 °C ***/*(***)	0.777	303
7 Fridge-freezer *(***)	≤ – 18 °C ***/*(***)	0.777	303
8 Upright freezer	≤ – 18 °C *(***)	0.539	315
9 Chest freezer	≤ – 18 °C *(***)	0.472	286
10 Multi-door or other appliance		(1)	(1)

(1) For these appliances, the temperature and star rating of the compartment with the lowest temperature will determine the values of M and N. Appliances with – 18 °C *(***) compartments shall be considered as fridge-freezers *(***).

Table 3		
Correction factor	Value	Condition
FF (frost-free)	1.2	For ‘frost-free’ (ventilated) frozen food compartments
	1	Otherwise
CC (climate class)	1.2	For ‘tropical’ appliances
	1.1	For ‘subtropical’ appliances
	1	Otherwise
BI (built-in)	1.2	For built-in appliances ([1]) of under 58 cm in width.
	1	Otherwise
CH (chill compartment)	50 Kwh/y	For appliances with a chill compartment of at least 15 litres
	0	Otherwise
[1]) An appliance is ‘built-in’ only if it is designed exclusively for installation within a kitchen cavity with a need of furniture finishing, and tested as such.		

If an appliance is not A+ or A++, it shall be classified in accordance with Part 2.

PART 2: Definitions of Classes A to G

The energy efficiency class of an appliance shall be determined in accordance with the following Table:

Table 1	
Energy efficiency index: I	Energy efficiency class
I<55	A
55 ≤ I < 75	B
75 ≤ I < 90	C
90 ≤ I < 100	D
100 ≤ I < 110	E
110 ≤ I < 125	F
125 ≤ I	G

Where:

‘energy efficiency index’ (expressed as a percentage) = annual energy consumption of appliance ([1]) / standard annual energy consumption of appliance

‘standard annual energy consumption of appliance’ (expressed in kWh/year) = M × adjusted net volume + N

And

adjusted net volume (expressed in litres) = net volume of fresh food compartment + Ω × net volume of frozen food compartment.

The values of M, N and Ω are taken from Table 2.

Table 2

	Class of Appliance	Ω	M	N
1	Larder fridge	—	0,233	245
2	Refrigerator/chiller	0,75 (1)	0,233	245
3	Refrigerator no star	1,25	0,233	245
4	Refrigerator *	1,55	0,643	191
5	Refrigerator **	1,85	0,450	245
6	Refrigerator ***	2,15	0,657	235
7	Fridge/freezer *(***)	(3)	0,777	303
8	Upright freezer	2,15 (2)	0,472	286
9	Chest freezer	2,15 (2)	0,446	181
10	Multi-door or other appliances	(3)	(4)	(4)

(1) For refrigerator/chillers the adjusted volume = net volume of fresh food compartment + Ω × net volume of chiller (10 °C) compartment (expressed in litres).

(2) For 'no frost' appliances as defined in Schedule II point 10, this index is increased by a provisional factor of 1.2, giving a value of 2.58. (This allows for the possible bias of the measurement method, which does not allow for the lack of ice build up on 'no frost' appliances. In practical use ice build up will somewhat increase the consumption of 'conventional' appliances.)

(3) Adjusted net volume AV is calculated by the formula:

$$AV = \sum_{\text{all compartments}} \frac{(25 - T_C)}{20} \times V_C \times F_C$$

Where T_C is design temperature (in °C) of each compartment, V_C is the net volume (in litres) of each compartment, and F_C is a factor which equals 1.2 for 'no frost' compartments and 1 for other compartments.

(4) For these appliances the values of M and N will be determined by the temperature and star rating of the compartment with the lowest temperature, as follows:

Temperature of coldest compartment	Equivalent Class	M	N
> – 6 °C	1/2/3 Larder Fridge/ no star refrigerator/refrigerator chiller	0.233	245
≤ – 6 °C *	4 Refrigerator *	0.643	191
≤ – 12 °C **	5 Refrigerator **	0.450	245
≤ – 18 °C ***	6 Refrigerator ***/	0.647	235
≤ – 18 °C *(***) with freezing capacity	7 Fridge-freezer *(***)	0.777	303

VERŻJONI ELETTRONIKA

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