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COVER NOTE

from: Secretary-General of the European Commission,
signed by Mr Jordi AYET PUIGARNAU, Director

date of receipt: 26 February 2013

to: Mr Uwe CORSEPIUS, Secretary-General of the Council of the European
Union

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Subject: COMMISSION DELEGATED REGULATION (EU) No .../.. of 18.2.2013
supplementing Directive 2010/30/EU of the European Parliament and of the
Council with regard to the energy labelling of space heaters, combination
heaters, packages of space heater, temperature control and solar device and
packages of combination heater, temperature control and solar device

Delegations will find attached Commission document C(2013) 817 final Part 1/9.

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Brussels, 18.2.2013
C(2013) 817 final

Part 1/9

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

of 18.2.2013

supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device

(Text with EEA relevance)

EXPLANATORY MEMORANDUM

1. CONTEXT OF THE DELEGATED ACT

Grounds for and objectives of the proposal

Space heaters and combination heaters (referred to here as heaters), are widely used in the EU for space heating purposes. Whereas space heaters are only used for space heating, combination heaters also provide hot drinking and sanitary water. Most heaters on sale today are boilers, but new technologies such as cogeneration, heat pumps and packages combining heaters with solar devices and/or temperature controls are rapidly entering the market. The environmental impact of heaters in the EU is significant. In 2005, for example, the energy consumption in the use phase was estimated at 12 089 PJ (289 Mtoe) representing 698 Mt CO₂ in emissions.

The aim of this Regulation is to introduce a harmonised scheme for labelling products according to their energy efficiency and energy consumption and providing standard product information for consumers. The labelling requirements also provide a dynamic incentive for manufacturers to improve energy efficiency and to accelerate the market take-up of energy-efficient stand-alone heaters and also packages of heaters combined with solar devices and temperature controls.

It would complement the proposed Commission Regulation implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters.

General context

One of the main reasons for persistent sales of low-efficiency heaters and conventional products without the use of renewable energy sources or cogeneration is that end-users base their purchase decisions on the purchase costs of products rather than their life cycle costs, a situation not helped by the current practice of not fully including environmental costs in energy costs. Also, the information available to purchasers on the energy efficiency of heaters is limited, which gives rise to asymmetric information, in particular if heaters are combined with further products. The result is that end-users often miss opportunities for cost-effective improvements in energy efficiency. Another problem is split incentives: for example, a building owner who purchases and installs a heater may aim for lower purchase costs but the tenant may end up paying higher energy bills as a result.

Furthermore, dealers who sell heaters to end-users and usually install them lack standardised information needed to offer end-users packages of heating products that have come onto the EU market following the introduction of renewable and cogeneration technologies.

This proposal aims to address these market barriers by introducing EU energy labels for stand-alone heaters and for packages of heaters combined with further heating products. It introduces the widely known A-G scale to cover the various types of conventional boilers. Additionally, the dynamic top classes A⁺, A⁺⁺ and A⁺⁺⁺ are intended to promote the use of cogeneration and renewable energy sources. Standardised product information will be made available to end-users in the form of 'fiches' (i.e. information notices), on the internet and in advertisements.

According to the impact assessment, heaters are responsible for about 16% of the total gross energy consumption of the EU-27, which is roughly the annual gross energy consumption of France. The aim of this proposal is to reduce the energy consumption of these appliances. It is estimated that the combined effect of the proposed new ecodesign requirements and the new labelling scheme set out in this proposal would lead to an annual reduction of about 1 900 PJ (45 Mtoe) by 2020, corresponding to about 110 Mt CO₂ emissions or the annual gross energy consumption of the Czech Republic, compared to ‘business as usual’.

Existing provisions in the area of the proposal

In addition to a proposed ecodesign implementing measure introducing energy efficiency, sound power level and nitrogen oxide emissions requirements for heaters, the following measures also address the environmental performance of these products, although not in the field of energy labelling:

- Council Directive 92/42/EEC¹ of 21 May 1992 on efficiency requirements for new hot-water boilers fired with liquid or gaseous fuels (to be repealed by the proposed ecodesign measure for heaters);
- Commission Decision 2007/742/EC² of 9 November 2007 establishing the ecological criteria for the award of the Community eco-label to electrically driven, gas driven or gas absorption heat pumps;
- Directive 2010/31/EU³ of the European Parliament and of the Council of 19 May 2010 on the energy performance of buildings;
- Directive 2004/8/EC⁴ of the European Parliament and of the Council of 11 February 2004 on the promotion of cogeneration based on a useful heat demand in the internal market;
- Directive 2009/28/EC⁵ of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources;
- Regulation (EC) No 842/2006⁶ of the European Parliament and of the Council of 17 May 2006 on certain fluorinated greenhouse gases;
- Directive 2009/142/EC⁷ of the European Parliament and of the Council of 30 November 2009 relating to appliances burning gaseous fuels;
- Commission Delegated Regulation (EU) No 626/2011⁸ of 4 May 2011 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of air conditioners (air-to-air heat pumps only).

Consistency with the other EU policies and objectives

¹ OJ L 167, 22.6.1992, p. 17.

² OJ L 301, 20.11.2007, p. 14.

³ OJ L 153, 18.6.2010, p. 13.

⁴ OJ L 52, 21.2.2004, p. 50.

⁵ OJ L 140, 5.6.2009, p. 16.

⁶ OJ L 161, 14.6.2006, p. 1.

⁷ OJ L 330, 16.12.2009, p. 10.

⁸ OJ L 178, 6.7.2011, p. 1.

Increased market take-up of energy-efficient heaters through the introduction of new energy efficiency classes and proposed ecodesign requirements will contribute to the 20% energy savings which should be achieved until 2020 according to the Energy Efficiency Action Plan (COM(2006) 545), and are confirmed in the Commission's Communication on Energy 2020 (COM(2010) 639) and Energy Efficiency Plan 2011 (COM(2011) 109).

The present proposal will complement promotion of the market take-up of efficient products, which is at the heart of the EU's Europe 2020 strategy for smart, sustainable and inclusive growth (COM(2010) 2020), as it will greatly improve energy efficiency, support the transition to a resource-efficient economy, encourage investment in R&D and ensure a level playing field for heating products.

The proposed energy labelling of heaters is in line with the Commission's industrial policy, in particular the Sustainable Consumption, Production and Industrial Policy Action Plan (COM(2008) 397) and the European Economic Recovery Plan (COM(2008) 800), which mentions energy efficiency as one of the key priorities, referring for example to the promotion of the rapid take-up of products offering a 'high potential for energy savings'.

Furthermore, implementation of Directive 2010/30/EU⁹ contributes to the EU's objective of attaining at least a 20% reduction in greenhouse gas emissions by 2020.

2. CONSULTATIONS PRIOR TO THE ADOPTION OF THE ACT

Consultation of interested parties

EU and international stakeholders and Member State experts were consulted from the very beginning of the preparatory study, and energy labelling was discussed together with ecodesign requirements in the Ecodesign Consultation Forum set up under the Ecodesign Framework Directive 2009/125/EC¹⁰. The Consultation Forum comprises Member State experts and a balanced representation of stakeholders, namely manufacturers, retailers, environmental NGOs and consumer organisations. At the meetings of the Consultation Forum on 29 February 2008, 8 July 2008 and 24/25 June 2009, the Commission presented working documents suggesting ecodesign requirements and an energy labelling scheme for heaters and water heaters¹¹. The working documents were also discussed at a meeting of the Ecodesign Regulatory Committee on 11 April 2011, a Member State expert meeting on 29 June 2012 and a stakeholder meeting on 6 September 2012.

All relevant working documents were circulated to the Member States, European Parliament and stakeholders, and the working documents for the Consultation Forum were published in the Commission's CIRCA system alongside the stakeholder comments received in writing. In addition, the initiative was discussed on many occasions at meetings of Commission staff with stakeholders and Member States and also with international partners, such as Japan and the US. The WTO/TBT was notified of the draft Regulation on 4 June 2012, to ensure that no barriers to trade are introduced.

Additional written consultations at expert level were launched in June 2010 and March 2011 on updated working documents for ecodesign and energy labelling measures for heaters and

⁹ OJ L 153, 18.6.2010, p. 1.

¹⁰ OJ L 285, 31.10.2009, p. 10.

¹¹ Water heaters are covered by a separate proposal.

water heaters, which built on the input and feedback provided during the earlier consultations in the Consultation Forum.

Summary of responses and how they have been taken into account

In general, an energy labelling scheme for heaters is supported by stakeholders and Member States. The positions of the main stakeholders on crucial features of the Commission proposal can be summarised as follows:

Product scope

The heaters to be covered are boilers and heat pumps with a rated heat output up to 70 kW, cogeneration with an electrical capacity below 50 kW, as defined in Directive 2004/8/EC, and packages combining heaters with solar devices and/or temperature controls. Heaters should be designed to use gas or oil fuel, including from biomass (unless predominantly), electricity and ambient/waste heat.

Product label

The product label is in general accepted by Member States and stakeholders. Consumer organisations asked for the labels to be kept simple for end-users and insisted that the energy labels show the sound power levels. Some manufacturers and some Member States called for the efficiency in % to be removed from the label, as test conditions differ between heaters, but asked for the efficiency in % to be kept on the fiche. The heat pump industry and several Member States supported a separate label for low-temperature heat pumps. Also for medium-temperature heat pumps, the possible low-temperature application should be indicated. Furthermore, the use of an integrated supplementary heater should always be included in the label.

For the product label of heaters there were numerous divergent opinions between Member States and stakeholders, which included the following key elements:

- A single mandatory label whereby all heaters should be labelled with a scale that goes to A⁺⁺⁺.
- All heaters should carry a mandatory label with a scale that goes to A⁺⁺. Alternatively, heat pumps and micro-cogeneration could carry a voluntary label with a scale that goes to A⁺⁺⁺. In addition, the labels should display the energy efficiency in percentage.
- Two mandatory labels whereby boilers should carry a mandatory label with a scale that goes to A⁺; heat pumps and micro-cogeneration should carry a mandatory label with a scale that goes to A⁺⁺⁺.

Stakeholders representing manufacturers of cogeneration heaters requested two different product labels: one for the cogeneration part which is the main part and another for the integrated supplementary heater. However, it is not compatible with the general product labelling approach for one unit placed on the market to have more than one product label.

Regarding combination heaters, Member States and stakeholders asked for the energy label to cover in one label the space heating function and the water heating function, though with the latter in accordance with the separate Delegated Regulation on energy labelling of water

heaters. Combination heaters should not only cover conventional boilers but also heat pump combination heaters.

Package label

While the product label helps to provide standardised information to end-users on stand-alone heaters, the information on packages of heaters combined with solar devices and/or temperature controls remains limited. To address this market barrier, a package label is proposed.

Several Member States and manufacturers called for the proposed package fiche to be supplemented by a vertical label in the usual product label design to allow better communication between dealer and end-user.

The package label and fiches were supported by most Member States and stakeholders, although some Member States took the view that the package fiche could have been included in the Energy Performance of Buildings Directive 2010/31/EU (EPBD). A disclaimer is therefore proposed to clarify that the package fiche concerns the efficiency of product packages and not the energy performance of buildings. The energy efficiency of the heating system is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics, for example insulation.

Suppliers requested to place on the market bundled packages of heaters combined with solar devices and/or temperature controls, in particular as the market structure does not allow them to act as dealer (retailer or installer). On the other hand, some suppliers of solar devices and temperature controls, mainly SMEs, feared unfair competition. Several Member States suggested therefore that the supplier and also the dealer should be allowed to issue the package label and fiche. The dealer should base his package fiche on product fiches provided by the suppliers of the heaters, solar devices and temperature controls. A dealer may re-assemble a package provided by the supplier, e.g. issue a new package label and fiche with a more efficient temperature control or other component. Some Member States also requested that suppliers and dealers should advertise the efficiency of the package (if there are advertisements on packages).

Dealer responsibility is limited to a straightforward calculation based on product fiches received from suppliers. To support dealers, mainly SMEs, the Commission will provide templates and guidelines for dealers on the Commission's energy labelling website¹².

Several Member States and stakeholders asked for the package label to be introduced on a voluntary basis. However, a mandatory product and package label is proposed for the following reasons. It is not sufficient to provide end-users with only product labels on stand-alone heaters. End-users lack information at the point of sale to make informed choices on new heating packages consisting of several heaters (boilers, heat pumps and/or cogeneration units) combined with solar devices and/or temperature controls. The efficiency of a package is not simply the sum of its parts.

The Commission has given a mandate to the European standardisation bodies to develop standardised energy efficiency measurement and calculation methods for heater packages.

¹² http://ec.europa.eu/energy/efficiency/labelling/labelling_en.htm

Stakeholders made further comments on the fiches. The buffer tank contribution to energy efficiency should be removed from the calculation of seasonal space heating energy efficiency due to the removal of the redundant correction factor for non-modulating boilers. The fixed ratios between the heat outputs of preferential heaters and non-preferential supplementary heaters should be replaced by a weighting of real ratios, based on default values developed in national EPBD implementations, e.g. NEN 7020 and DIN 18599-9. The fiche for the water heating function of packages of combination heaters with other products should be the same as the package fiche for water heater packages proposed in a separate Delegated Regulation for energy labelling of water heaters.

Energy labelling scales

The principle of a single energy efficiency grading based on primary energy consumption was in general accepted. This includes a single scale for all heating technologies on the product and package label to create a level playing field for heaters and promote the single energy market. However, some Member States and stakeholders preferred technology- and fuel-specific scales. Stakeholders requested that energy classes should be defined in such a way that the best conventional technology, namely condensing technology, should be able to reach at most class A. The A⁺ to A⁺⁺⁺ classes could only be reached by heaters using cogeneration and renewable energy sources. Stakeholders representing heat pump manufacturers requested that the A+ scale should start at 115 %, in line with the rules for accounting of renewable energy from heat pumps in Annex VII of the RES Directive 2009/28/EC. However, it is proposed that the A+ class should also be attainable by cogeneration. Some Member States and environmental NGOs suggested considering electric boilers in the energy labelling scale (to reach at most class D) and to increase the threshold for A⁺⁺/A⁺⁺⁺ to 130%/150%.

One Member State called for the ecodesign requirements to be aligned with the relevant class boundaries for the energy label. However, to be able to differentiate in a single scale between more and less efficient heaters a different approach is needed. For example, the ecodesign requirement for boilers is set in general at 86% (condensing technology), whereas the A class boundary of 90% allows differentiation between more and less efficient condensing boilers.

Member States and stakeholders supported the suggestion to set the labelling scale for low-temperature heat pumps 25 percentage points higher than the scale for medium-temperature applications.

Cogeneration manufacturers suggested an alternative efficiency calculation method to ensure a level playing field with heat pumps. However, this suggestion is not supported as renewable technologies should in principle be able to reach higher labelling classes than other technologies and as it would overrate electric energy efficiency of cogeneration space heaters.

Some stakeholders preferred equal class widths of the energy classes. In the long term, European energy policy could lead to more or less equal class width of the energy classes for heaters. However, there are currently different conventional, new and renewable heating technologies requiring different class widths to achieve dynamic market transformation.

Timetable

There were differing views on timing, ranging from the immediate voluntary introduction of energy labelling to a three-stage approach with different introduction dates up to 6 years in the future. Manufacturers asked for the energy labelling timetable to be aligned with the ecodesign timetable. In view of the time required to implement an EU energy label and the

absence of an existing energy label, the immediate voluntary use of the label was not supported by most stakeholders. Moreover, consumer organisations argued that different parallel labelling scales would confuse consumers.

Third-party verification

Manufacturers suggested third-party verification instead of self-assessment given the risk of not achieving the high environmental improvement potential of heaters and as a tool to support market surveillance. However, third-party verification is legally not possible under the Energy Labelling Directive 2010/30/EU.

Testing and calculation methods

Some Member States and manufacturers asked for temperature control class I to be removed, as it is not allowed to operate a boiler with control class I in the Member States concerned.

A manufacturer of passive flue heat recovery devices called for amending the proposed transitional measurement method for the contribution to energy efficiency of this product group to take better account of large passive flue heat recovery devices. However, there is no agreement between experts on such an amended measurement method. The Commission has given a mandate to the European standardisation bodies to develop a harmonised standard for measurement methods for passive flue heat recovery devices in order to assess in the review of the Regulation the appropriateness of including passive flue heat recovery devices in the scope of the Regulation.

Some stakeholders remarked that the symbol for frequency-weighted sound power level L_{WA} is dB.

The Regulation takes the comments from stakeholders and Member States into account.

Collection and use of expertise

Input from scientific expertise

External expertise was mainly gathered through the preparatory study providing technical, environmental and economic analysis, which was carried out by a consortium of external consultants on behalf of the Commission's Directorate-General for Energy.

Main organisations/experts consulted

The preparatory study was conducted in an open process, taking into account input from relevant stakeholders, including manufacturers, installers, retailers and their associations, environmental NGOs, consumer organisations, EU/EEA Member State experts and experts from outside the EU.

Summary of advice received and used

No potentially serious risks with irreversible consequences were mentioned.

Impact assessment

An impact assessment of the possible policy measures was carried out pursuant to Article 15(4)(b) of Directive 2009/125/EC. Several policy options for bringing about market

transformation to achieve the appropriate level of ambition were considered, including the ‘business-as-usual’ case, self-regulation, energy labelling only, ecodesign regulation only, a combination of the latter two, and requirements for heating systems under the Energy Performance of Buildings Directive only.

However, given the clear legislative mandate to establish ecodesign requirements and energy labelling for heaters, the depth of analysis for options other than an implementing legal act was proportionate, and the focus was on the assessment of the proposed implementing regulations.

The impacts of policy scenarios for introducing energy labels were assessed against the ‘business as usual’ scenario. Based on an assessment of costs and benefits, a combination of ecodesign requirements, labelling and system requirements for the energy performance of buildings was identified as the preferred option to solve the problem of market failure in the take-up of heaters with improved environmental performance, as that combination best meets the requirements of the Ecodesign and Energy Labelling Directives.

Consequently, the option comprising the adoption of ecodesign requirements together with the introduction of a product and package labelling scheme was chosen, as it delivers most savings and is also preferred by stakeholders. Regarding the product label for heaters, the impact assessment evaluated a single mandatory label, whereby all heaters should be labelled dynamically with a scale that goes up to A⁺⁺⁺, as best option in terms of environmental savings and economic benefit.

It will ensure that:

- ongoing energy improvements are maintained and fostered by providing standardised information to end-users and removing market barriers due to asymmetric information and split incentives;
- there is a dynamic market transformation towards highly efficient heaters and packages of heaters combined with new and renewable energy technologies;
- fair competition and product differentiation continue to result in energy improvements;
- a cost-effective level of energy consumption is reached;
- the competitiveness of the industry is enhanced by the expansion of the EU single market for sustainable products;
- the burdens on suppliers, including SMEs, are not excessive, as the transition periods take redesign cycles into account;
- there is no negative impact on employment in the EU.

3. LEGAL ELEMENTS OF THE DELEGATED ACT

Summary of the proposed action

The proposed measure sets out new mandatory labelling and standard product information requirements for suppliers placing on the market and/or putting into service heaters, temperature controls, solar devices (solar-only system, solar collector, solar tank and other solar products placed on the market separately) or packages of heaters, temperature controls and/or solar devices, and for dealers offering stand-alone heaters and packages of heaters, temperature controls and/or solar devices. The scope of the measure is aligned with the scope of a proposed ecodesign implementing measure setting ecodesign requirements for the energy efficiency, sound power levels and nitrogen oxide emissions of heaters.

The energy efficiency ranking of heaters is based on the scheme laid down in Directive 2010/30/EU in having a single energy efficiency scale for space heating, covering boilers, cogeneration, heat pumps and solar heating. Two years after the entry into force of the Regulation, a scale from G to A for conventional heaters (G-D for electric boilers, C-B for non-condensing boilers in collective buildings, B-A for condensing boilers) with higher classes A⁺ for cogeneration and A⁺⁺ for heat pumps will be introduced. Six years after the entry into force of the Regulation, a further class A⁺⁺⁺ will be added on top of the labelling scale, unless the review five years after the entry into force of the Regulation proves otherwise, while classes G to E will be abolished due to more ambitious ecodesign requirements. This will ensure dynamic market transformation toward highly efficient heaters using new and renewable energy technologies. With six years after the entry into force of the Regulation, the energy class A⁺⁺⁺ would be introduced one year later than the best impact assessment option. This extended timing was chosen in order to give traditional boiler manufacturers more time to adapt their heater technologies.

For the water heating function of combination heaters, the efficiency scale defined in the Regulation on energy labelling of water heaters is used.

Furthermore, the product label will show the sound power level to end-users, standardised product information will be introduced for heaters, such as a product fiche and technical documentation, and requirements will be specified for information to be provided in any form of distance selling of heaters and in any advertisements and technical promotional material for them.

As heaters might be sold in packages with other heating products such as solar devices and temperature controls, a package label and a comprehensible calculation on the fiche are introduced to provide information on the overall efficiency of the package of products to the end-user. The supplier and also the dealer may issue the package label and fiche. The package label is based on energy efficiency classes from G to A⁺⁺⁺, reflecting the potentially higher energy efficiency of such packages.

The proposed product and package labels and standardised product information will help overcome the lack of information for people buying heaters and the split incentives for building owners and tenants.

The measurement methods and the verification procedure for market surveillance in this Regulation are aligned with those in the proposed ecodesign implementing measure.

Legal basis

The Delegated Regulation implements Directive 2010/30/EU, in particular its Article 10.

Subsidiarity principle

The Regulation implements Directive 2010/30/EU in line with its Article 10.

Proportionality principle

In accordance with the principle of proportionality, this measure does not go beyond what is necessary to achieve its objective.

The form of the implementing measure is a Regulation, which is directly applicable in all Member States. This ensures that national and EU administrations will not incur any costs for transposing the implementing legislation into national legislation.

Choice of instrument

Proposed instrument: Delegated Regulation.

Budgetary implication

The proposal has no implications for the EU budget.

ADDITIONAL INFORMATION

Review/revision/sunset clause

The draft includes a revision clause.

European Economic Area

The proposed act concerns an EEA matter and should therefore extend to the European Economic Area.

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

of 18.2.2013

supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device

(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 products¹³, 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 space heaters and by combination heaters providing space and water heating, accounts for a significant share of the total energy demand in the Union. Space heaters and combination heaters with equivalent functionality exhibit a wide disparity in terms of energy efficiency. The scope for reducing their energy consumption is significant and includes combining them with appropriate temperature controls and solar devices. Space heaters, combination heaters and packages of such heaters in combination with temperature controls and solar devices should therefore be covered by energy labelling requirements.
- (3) Space heaters and combination heaters that are designed for using gaseous or liquid fuels predominantly (more than 50%) produced from biomass have specific technical characteristics which require further technical, economic and environmental analyses. Depending on the outcome of the analyses, energy labelling requirements for those heaters should be set at a later stage, if appropriate.
- (4) Harmonised provisions should be laid down on labelling and standard product information regarding the energy efficiency of space heaters and combination heaters in order to provide incentives for manufacturers to improve the energy efficiency of

¹³ OJ L 153, 18.6.2010, p. 1.

these heaters, to encourage end-users to purchase energy-efficient products and to contribute to the functioning of the internal market.

- (5) As regards significant energy and cost savings for each type of heater, this Regulation should introduce a new labelling scale from A⁺⁺ to G for the space heating function of boiler space heaters, cogeneration space heaters, heat pump space heaters, boiler combination heaters and heat pump combination heaters. While classes A to G cover the various types of conventional boilers when not combined with cogeneration or renewable energy technologies, classes A⁺ and A⁺⁺ should promote the use of cogeneration and renewable energy sources.
- (6) Furthermore, a new A-G labelling scale should be introduced for the water heating function of boiler combination heaters and heat pump combination heaters, in line with Commission Delegated Regulation (EU) No .../.... of XXX supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of water heaters, hot water storage tanks and packages of water heater and solar device [Number of the Regulation and OJ reference in footnote to be inserted before publication in the OJ].
- (7) Further classes A⁺⁺⁺ and A⁺ should be added after four years to the seasonal space heating and water heating classes, respectively, unless the review of the Regulation proves otherwise, to accelerate the market penetration of high-efficiency space heaters and combination heaters using renewable energy sources.
- (8) This Regulation should ensure that consumers get more accurate comparative information about the performance of heat pump heaters, based on a seasonal efficiency calculation and measurement method for three European climate zones. The Commission mandated the European standardisation bodies to investigate whether a similar method should be developed for other heaters. European standardised heating seasons for boiler heaters, cogeneration heaters and solar heaters could be considered in the review of this Regulation.
- (9) The sound power level of a heater can be an important consideration for end-users. Information on sound power levels should be included on the labels of space heaters and combination heaters.
- (10) The combined effect of this Regulation and Commission Regulation (EU) No .../... of ... implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters [Number of the Regulation and OJ reference in footnote to be inserted before publication in the OJ] is expected to result in estimated annual energy savings of around 1900 PJ (about 45 Mtoe) by 2020, corresponding to about 110 Mt CO₂ emissions, compared to what would happen if no measures were taken.
- (11) The information provided on the label should be obtained through reliable, accurate and reproducible measurement and calculation procedures that take into account recognised state-of-the-art measurement and calculation methods including, where available, harmonised standards adopted by the European standardisation bodies under a request from the Commission, in accordance with the procedures laid down in the 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 services¹⁴, for the purpose of establishing ecodesign requirements.

- (12) This Regulation should specify a uniform design and content of product labels for space heaters and combination heaters.
- (13) In addition, this Regulation should specify requirements for the product fiche and technical documentation for space heaters and combination heaters.
- (14) Moreover, this Regulation should specify requirements for the information to be provided for any form of distance selling of space heaters and combination heaters and in any advertisements and technical promotional material for such heaters.
- (15) In addition to the product labels and fiches for stand-alone space heaters and combination heaters laid down in this Regulation, package labels and fiches based on product fiches from suppliers should ensure that the end-user has easy access to information on the energy performance of packages of heaters combined with solar devices and/or temperature controls. The most efficient class A⁺⁺⁺ may be reached by such a package.
- (16) 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 energy labelling of, and the provision of supplementary product information on, space heaters and combination heaters with a rated heat output ≤ 70 kW, packages of space heater ≤ 70 kW, temperature control and solar device and packages of combination heater ≤ 70 kW, temperature control and solar device.
2. This Regulation shall not apply to:
 - (a) heaters specifically designed for using gaseous or liquid fuels predominantly produced from biomass;
 - (b) heaters using solid fuels;
 - (c) heaters within the scope of Directive 2010/75/EU of the European Parliament and of the Council¹⁵;
 - (d) heaters generating heat only for the purpose of providing hot drinking or sanitary water;
 - (e) heaters for heating and distributing gaseous heat transfer media such as vapour or air;

¹⁴ OJ L 204, 21.7.1998, p. 37.

¹⁵ OJ L 334, 17.12.2010, p. 17.

- (f) cogeneration space heaters with a maximum electrical capacity of 50 kW or above.

Article 2
Definitions

In addition to the definitions set out in Article 2 of Directive 2010/30/EC, the following definitions shall apply for the purposes of this Regulation:

- (1) ‘heater’ means a space heater or combination heater;
- (2) ‘space heater’ means a device that
 - (a) provides heat to a water-based central heating system in order to reach and maintain at a desired level the indoor temperature of an enclosed space such as a building, a dwelling or a room, and
 - (b) is equipped with one or more heat generators;
- (3) ‘combination heater’ means a space heater that is designed to also provide heat to deliver hot drinking or sanitary water at given temperature levels, quantities and flow rates during given intervals, and is connected to an external supply of drinking or sanitary water;
- (4) ‘water-based central heating system’ means a system using water as a heat transfer medium to distribute centrally generated heat to heat emitters for the space heating of buildings, or parts thereof;
- (5) ‘heat generator’ means the part of a heater that generates the heat using one or more of the following processes:
 - (a) combustion of fossil fuels and/or biomass fuels;
 - (b) use of the Joule effect in electric resistance heating elements;
 - (c) capture of ambient heat from an air source, water source or ground source, and/or waste heat;
- (6) ‘rated heat output’ (*Prated*) means the declared heat output of a heater when providing space heating and, if applicable, water heating at standard rating conditions, expressed in kW; for heat pump space heaters and heat pump combination heaters the standard rating conditions for establishing the rated heat output are the reference design conditions, as set out in Annex VII, Table 10;
- (7) ‘standard rating conditions’ means the operating conditions of heaters under average climate conditions for establishing the rated heat output, seasonal space heating energy efficiency, water heating energy efficiency and sound power level;
- (8) ‘biomass’ means the biodegradable fraction of products, waste and residues from biological origin from agriculture (including vegetal and animal substances), forestry and related industries including fisheries and aquaculture, as well as the biodegradable fraction of industrial and municipal waste;

- (9) 'biomass fuel' means a gaseous or liquid fuel produced from biomass;
- (10) 'fossil fuel' means a gaseous or liquid fuel of fossil origin;
- (11) 'cogeneration space heater' means a space heater simultaneously generating heat and electricity in a single process;
- (12) 'temperature control' means the equipment that interfaces with the end-user regarding the values and timing of the desired indoor temperature, and communicates relevant data to an interface of the heater such as a central processing unit, thus helping to regulate the indoor temperature(s);
- (13) 'solar device' means a solar-only system, a solar collector, a solar hot water storage tank or a pump in the collector loop, which are placed on the market separately;
- (14) 'solar-only system' means a device that is equipped with one or more solar collectors and solar hot water storage tanks and possibly pumps in the collector loop and other parts, which is placed on the market as one unit and is not equipped with any heat generator except possibly one or more back-up immersion heaters;
- (15) 'solar collector' means a device designed to absorb global solar irradiance and to transfer the heat energy so produced to a fluid passing through it;
- (16) 'hot water storage tank' means a vessel for storing hot water for water and/or space heating purposes, including any additives, which is not equipped with any heat generator except possibly one or more back-up immersion heaters;
- (17) 'solar hot water storage tank' means a hot water storage tank storing heat energy produced by one or more solar collectors;
- (18) 'back-up immersion heater' means a Joule effect electric resistance heater that is part of a hot water storage tank and generates heat only when the external heat source is disrupted (including during maintenance periods) or out of order, or that is part of a solar hot water storage tank and provides heat when the solar heat source is not sufficient to satisfy required comfort levels;
- (19) 'package of space heater, temperature control and solar device' means a package offered to the end-user containing one or more space heaters combined with one or more temperature controls and/or one or more solar devices;
- (20) 'package of combination heater, temperature control and solar device' means a package offered to the end-user containing one or more combination heaters combined with one or more temperature controls, and/or one or more solar devices;
- (21) 'seasonal space heating energy efficiency' (η_s) means the ratio between the space heating demand for a designated heating season, supplied by a space heater, a combination heater, a package of space heater, temperature control and solar device or a package of combination heater, temperature control and solar device, and the annual energy consumption required to meet this demand, expressed in %;
- (22) 'water heating energy efficiency' (η_{wh}) means the ratio between the useful energy in the drinking or sanitary water provided by a combination heater or a package of

combination heater, temperature control and solar device, and the energy required for its generation, expressed in %;

- (23) ‘sound power level’ (L_{WA}) means the A-weighted sound power level, indoors and/or outdoors, expressed in dB.

For the purposes of Annexes II to VIII, additional definitions are set out in Annex I.

Article 3

Responsibilities of suppliers and timetable

1. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing space heaters on the market and/or putting them into service, including those integrated in packages of space heater, temperature control and solar device, shall ensure that:
 - (a) a printed label complying with the format and content of information set out in point 1.1 of Annex III is provided for each space heater conforming to the seasonal space heating energy efficiency classes set out in point 1 of Annex II, whereby: for heat pump space heaters, the printed label is provided at least in the packaging of the heat generator; for space heaters intended for use in packages of space heater, temperature control and solar device, a second label complying with the format and content of information set out in point 3 of Annex III is provided for each space heater;
 - (b) a product fiche, as set out in point 1 of Annex IV, is provided for each space heater, whereby: for heat pump space heaters, the product fiche is provided at least for the heat generator; for space heaters intended for use in packages of space heater, temperature control and solar device, a second fiche, as set out in point 5 of Annex IV, is provided;
 - (c) the technical documentation, as set out in point 1 of Annex V, is provided on request to the authorities of the Member States and to the Commission;
 - (d) any advertisement relating to a specific space heater model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model;
 - (e) any technical promotional material concerning a specific space heater model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model;

From [date to be inserted: six years after this Regulation has entered into force] a printed label complying with the format and content of information set out in point 1.2 of Annex III shall be provided for each space heater conforming to the seasonal space heating energy efficiency classes set out in point 1 of Annex II, whereby: for heat pump space heaters, the printed label shall be provided at least in the packaging of the heat generator.

2. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing combination heaters on the market and/or putting them into service, including those integrated in packages of combination heater, temperature control and solar device, shall ensure that:

- (a) a printed label complying with the format and content of information set out in point 2.1 of Annex III is provided for each combination heater conforming to the seasonal space heating energy efficiency classes and water heating energy efficiency classes set out in points 1 and 2 of Annex II, whereby: for heat pump combination heaters, the printed label is provided at least in the packaging of the heat generator; for combination heaters intended for use in packages of combination heater, temperature control and solar device, a second label complying with the format and content of information set out in point 4 of Annex III is provided for each combination heater;
- (b) a product fiche, as set out in point 2 of Annex IV, is provided for each combination heater, whereby: for heat pump combination heaters, the product fiche is provided at least for the heat generator; for combination heaters intended for use in packages of combination heater, temperature control and solar device, a second fiche, as set out in point 6 of Annex IV, is provided;
- (c) the technical documentation, as set out in point 2 of Annex V, is provided on request to the authorities of the Member States and to the Commission;
- (d) any advertisement relating to a specific combination heater model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model;
- (e) any technical promotional material concerning a specific combination heater model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model;

From [date to be inserted: six years after this Regulation has entered into force] a printed label complying with the format and content of information set out in point 2.2 of Annex III shall be provided for each combination heater conforming to the seasonal space heating energy efficiency classes and water heating energy efficiency classes set out in points 1 and 2 of Annex II, whereby: for heat pump combination heaters, the printed label shall be provided at least in the packaging of the heat generator.

3. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing temperature controls on the market and/or putting them into service shall ensure that:

- (a) a product fiche, as set out in point 3 of Annex IV, is provided;
- (b) the technical documentation, as set out in point 3 of Annex V, is provided on request to the authorities of the Member States and to the Commission.

4. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing solar devices on the market and/or putting them into service shall ensure that:
 - (a) a product fiche, as set out in point 4 of Annex IV, is provided;
 - (b) the technical documentation, as set out in point 4 of Annex V, is provided on request to the authorities of the Member States and to the Commission.

5. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing packages of space heater, temperature control and solar device on the market and/or putting them into service shall ensure that:
 - (a) a printed label complying with the format and content of information set out in point 3 of Annex III is provided for each package of space heater, temperature control and solar device conforming to the seasonal space heating energy efficiency classes set out in point 1 of Annex II;
 - (b) a product fiche, as set out in point 5 of Annex IV, is provided for each package of space heater, temperature control and solar device;
 - (c) the technical documentation, as set out in point 5 of Annex V, is provided on request to the authorities of the Member States and to the Commission;
 - (d) any advertisement relating to a specific package of space heater, temperature control and solar device model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model;
 - (e) any technical promotional material concerning a specific package of space heater, temperature control and solar device model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model.

6. From [date to be inserted: two years after this Regulation has entered into force] suppliers placing packages of combination heater, temperature control and solar device on the market and/or putting them into service shall ensure that:
 - (a) a printed label complying with the format and content of information set out in point 4 of Annex III is provided for each package of combination heater, temperature control and solar device conforming to the seasonal space heating energy efficiency classes and water heating energy efficiency classes set out in points 1 and 2 of Annex II;
 - (b) a product fiche, as set out in point 6 of Annex IV, is provided for each package of combination heater, temperature control and solar device;
 - (c) the technical documentation, as set out in point 6 of Annex V, is provided on request to the authorities of the Member States and to the Commission;
 - (d) any advertisement relating to a specific package of combination heater, temperature control and solar device model and containing energy-related or

price information includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model;

- (e) any technical promotional material concerning a specific package of combination heater, temperature control and solar device model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model.

Article 4
Responsibilities of dealers

1. Dealers of space heaters shall ensure that:

- (a) each space heater, at the point of sale, bears the label provided by suppliers in accordance with Article 3(1), as set out in point 1 of Annex III, on the outside of the front of the appliance, in such a way as to be clearly visible;
- (b) space heaters offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the space heater displayed, are marketed with the information provided by the suppliers in accordance with point 1 of Annex VI;
- (c) any advertisement relating to a specific space heater model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model;
- (d) any technical promotional material concerning a specific space heater model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model.

2. Dealers of combination heaters shall ensure that:

- (a) each combination heater, at the point of sale, bears the label provided by suppliers in accordance with Article 3(2), as set out in point 2 of Annex III, on the outside of the front of the appliance, in such a way as to be clearly visible;
- (b) combination heaters offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the combination heater displayed, are marketed with the information provided by the suppliers in accordance with point 2 of Annex VI;
- (c) any advertisement relating to a specific combination heater model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model;
- (d) any technical promotional material concerning a specific combination heater model and describing its specific technical parameters includes a reference to

the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for that model.

3. Dealers of packages of space heater, temperature control and solar device shall ensure, based on the label and fiches provided by suppliers in accordance with Article 3(1), 3(3), 3(4) and 3(5), that:

- (a) any offer for a specific package includes the seasonal space heating energy efficiency and the seasonal space heating energy efficiency class for that package under average, colder or warmer climate conditions, as applicable, by displaying with the package the label set out in point 3 of Annex III and providing the fiche set out in point 5 of Annex IV, duly filled in according to the characteristics of that package;
- (b) packages of space heater, temperature control and solar device offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the package of space heater, temperature control and solar device displayed, are marketed with the information provided in accordance with point 3 of Annex VI;
- (c) any advertisement relating to a specific package of space heater, temperature control and solar device model and containing energy-related or price information includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model;
- (d) any technical promotional material concerning a specific package of space heater, temperature control and solar device model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class under average climate conditions for that model.

4. Dealers of packages of combination heater, temperature control and solar device shall ensure, based on the label and fiches provided by suppliers in accordance with Article 3(2), 3(3), 3(4) and 3(6), that:

- (a) any offer for a specific package of combination heater, temperature control and solar device includes the seasonal space heating energy efficiency, the water heating energy efficiency, the seasonal space heating energy efficiency class and the water heating energy efficiency class for that package under average, colder or warmer climate conditions, as applicable, by displaying with the package the label set out in point 4 of Annex III and providing the fiche set out in point 6 of Annex IV, duly filled in according to the characteristics of that package.
- (b) packages of combination heater, temperature control and solar device offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the package of combination heater, temperature control and solar device displayed, are marketed with the information provided in accordance with point 4 of Annex VI;
- (c) any advertisement relating to a specific package of combination heater, temperature control and solar device model and containing energy-related or price information includes a reference to the seasonal space heating energy

efficiency class and water heating energy efficiency class under average climate conditions for that model;

- (d) any technical promotional material concerning a specific package of combination heater, temperature control and solar device model and describing its specific technical parameters includes a reference to the seasonal space heating energy efficiency class and water heating energy efficiency class under average climate conditions for 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 VII.

Article 6

Verification procedure for market surveillance purposes

Member States shall apply the procedure set out in Annex VIII when assessing the conformity of the declared seasonal space heating energy efficiency class, water heating energy efficiency class, seasonal space heating energy efficiency, water heating energy efficiency and sound power level of heaters.

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 heaters related to the labels set out in points 1.2. and 2.2. of Annex III, the feasibility and usefulness of indicating heater efficiency other than heat pump efficiency based on standardised heating seasons, the appropriateness of the package fiches and labels set out in points 3 and 4 of Annex III and points 5 and 6 of Annex IV, and the appropriateness of including passive flue heat recovery devices in the scope of this Regulation.

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, 18.2.2013

For the Commission
The President
José Manuel BARROSO

ANNEX I
Definitions applicable for Annexes II to VIII

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

Definitions related to heaters:

- (1) ‘boiler space heater’, for the purposes of Figures 1 to 4 in Annex IV referred to as ‘boiler’, means a space heater that generates heat using the combustion of fossil fuels and/or biomass fuels, and/or using the Joule effect in electric resistance heating elements;
- (2) ‘boiler combination heater’, for the purposes of Figures 1 to 4 in Annex IV referred to as ‘boiler’, means a boiler space heater that is designed to also provide heat to deliver hot drinking or sanitary water at given temperature levels, quantities and flow rates during given intervals, and is connected to an external supply of drinking or sanitary water;
- (3) ‘heat pump space heater’, for the purposes of Figures 1 and 3 in Annex IV referred to as ‘heat pump’, means a space heater using ambient heat from an air source, water source or ground source, and/or waste heat for heat generation; a heat pump space heater may be equipped with one or more supplementary heaters using the Joule effect in electric resistance heating elements or the combustion of fossil and/or biomass fuels;
- (4) ‘heat pump combination heater’, for the purposes of Figures 1 and 3 in Annex IV referred to as ‘heat pump’, means a heat pump space heater that is designed to also provide heat to deliver hot drinking or sanitary water at given temperature levels, quantities and flow rates during given intervals, and is connected to an external supply of drinking or sanitary water;
- (5) ‘supplementary heater’ means a non-preferential heater that generates heat in cases where the heat demand is greater than the rated heat output of the preferential heater;
- (6) ‘rated heat output of supplementary heater’ (P_{sup}) means the declared heat output of the supplementary heater when providing space heating and, if applicable, water heating at standard rating conditions, expressed in kW; if the supplementary heater is a heat pump space heater or heat pump combination heater, the standard rating condition for establishing the rated heat output of supplementary heater is the outdoor temperature $T_j = + 7^\circ\text{C}$;
- (7) ‘outdoor temperature’ (T_j) means the dry bulb outdoor air temperature, expressed in degrees Celsius; the relative humidity may be indicated by a corresponding wet bulb temperature;
- (8) ‘annual energy consumption’ (Q_{HE}) means the annual energy consumption of a heater required for space heating to meet the reference annual heating demand for a designated heating season, expressed in kWh in terms of the final energy and/or in GJ in terms of GCV ;
- (9) ‘standby mode’ means a condition where the heater is connected to the mains power source, depends on energy input from the mains power source to work as intended

and provides only the following functions, which may persist for an indefinite time: reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or information or status display;

- (10) ‘standby mode power consumption’ (P_{SB}) means the power consumption of a heater in standby mode, expressed in kW;
- (11) ‘conversion coefficient’ (CC) means a coefficient reflecting the estimated 40% average EU generation efficiency referred to in Directive 2012/27/EU of the European Parliament and of the Council¹⁶; the value of the conversion coefficient is $CC = 2,5$;
- (12) ‘gross calorific value’ (GCV) means the total amount of heat released by a unit quantity of fuel when it is burned completely with oxygen and when the products of combustion are returned to ambient temperature; this quantity includes the condensation heat of any water vapour contained in the fuel and of the water vapour formed by the combustion of any hydrogen contained in the fuel;

Definitions related to boiler space heaters, boiler combination heaters and cogeneration space heaters:

- (13) ‘seasonal space heating energy efficiency in active mode’ (η_{son}) means
 - for fuel boiler space heaters and fuel boiler combination heaters, a weighted average of the useful efficiency at rated heat output and the useful efficiency at 30% of the rated heat output, expressed in %;
 - for electric boiler space heaters and electric boiler combination heaters, the useful efficiency at rated heat output, expressed in %;
 - for cogeneration space heaters not equipped with supplementary heaters, the useful efficiency at rated heat output, expressed in %;
 - for cogeneration space heaters equipped with supplementary heaters, a weighted average of the useful efficiency at rated heat output with supplementary heater disabled, and the useful efficiency at rated heat output with supplementary heater enabled, expressed in %;
- (14) ‘useful efficiency’ (η) means the ratio of the useful heat output and the total energy input of a boiler space heater, boiler combination heater or cogeneration space heater, expressed in %, whereby the total energy input is expressed in terms of GCV and/or in terms of final energy multiplied by CC ;
- (15) ‘useful heat output’ (P) means the heat output of a boiler space heater, boiler combination heater or cogeneration space heater transmitted to the heat carrier, expressed in kW;
- (16) ‘electrical efficiency’ (η_{el}) means the ratio of the electricity output and the total energy input of a cogeneration space heater, expressed in %, whereby the total

¹⁶ OJ L 315, 14.11.2012, p. 1.

energy input is expressed in terms of GCV and/or in terms of final energy multiplied by CC ;

- (17) ‘ignition burner power consumption’ (P_{ign}) means the power consumption of a burner intended to ignite the main burner, expressed in W in terms of GCV ;
- (18) ‘condensing boiler’ means a boiler space heater or boiler combination heater in which, under normal operating conditions and at given operating water temperatures, the water vapour in the combustion products is partially condensed, in order to make use of the latent heat of this water vapour for heating purposes;
- (19) ‘auxiliary electricity consumption’ means the annual electricity required for the designated operation of a boiler space heater, boiler combination heater or cogeneration space heater, calculated from the electric power consumption at full load (el_{max}), at part load (el_{min}), in standby mode and default operating hours at each mode, expressed in kWh in terms of final energy;
- (20) ‘standby heat loss’ (P_{stby}) means the heat loss of a boiler space heater, boiler combination heater or cogeneration space heater in operating modes without heat demand, expressed in kW;

Definitions related to heat pump space heaters and heat pump combination heaters:

- (21) ‘rated coefficient of performance’ (COP_{rated}) or ‘rated primary energy ratio’ (PER_{rated}) means the declared heat capacity, expressed in kW, divided by the energy input, expressed in kW in terms of GCV and/or in kW in terms of final energy multiplied by CC , for heating provided at standard rating conditions;
- (22) ‘reference design conditions’ means the combination of the reference design temperature, the maximum bivalent temperature and the maximum operation limit temperature, as set out in Annex VII, Table 10;
- (23) ‘reference design temperature’ ($T_{designh}$) means the outdoor temperature, expressed in degrees Celsius, as set out in Annex VII, Table 10, at which the part load ratio is equal to 1;
- (24) ‘part load ratio’ ($pl(T_j)$) means the outdoor temperature minus 16°C divided by the reference design temperature minus 16°C;
- (25) ‘heating season’ means a set of operating conditions for average, colder and warmer climate conditions, describing per bin the combination of outdoor temperatures and the number of hours these temperatures occur per season;
- (26) ‘bin’ (bin_j) means a combination of an outdoor temperature and bin hours, as set out in Annex VII, Table 12;
- (27) ‘bin hours’ (H_j) means the hours per heating season, expressed in hours per year, at which an outdoor temperature occurs for each bin, as set out in Annex VII, Table 12;
- (28) ‘part load for heating’ ($Ph(T_j)$) means the heating load at a specific outdoor temperature, calculated as the design load multiplied by the part load ratio and expressed in kW;

- (29) ‘seasonal coefficient of performance’ ($SCOP$) or ‘seasonal primary energy ratio’ ($SPER$) means the overall coefficient of performance of a heat pump space heater or heat pump combination heater using electricity or the overall primary energy ratio of a heat pump space heater or heat pump combination heater using fuels, representative of the designated heating season, calculated as the reference annual heating demand divided by the annual energy consumption;
- (30) ‘reference annual heating demand’ (Q_H) means the reference heating demand for a designated heating season, to be used as the basis for calculating $SCOP$ or $SPER$ and calculated as the product of the design load for heating and the annual equivalent active mode hours, expressed in kWh;
- (31) ‘annual equivalent active mode hours’ (H_{HE}) means the assumed annual number of hours a heat pump space heater or heat pump combination heater has to provide the design load for heating to satisfy the reference annual heating demand, expressed in h;
- (32) ‘active mode coefficient of performance’ ($SCOP_{on}$) or ‘active mode primary energy ratio’ ($SPER_{on}$) means the average coefficient of performance of the heat pump space heater or heat pump combination heater using electricity in active mode or the average primary energy ratio of the heat pump space heater or heat pump combination heater using fuels in active mode for the designated heating season;
- (33) ‘supplementary capacity for heating’ ($sup(T_j)$) means the rated heat output P_{sup} of a supplementary heater that supplements the declared capacity for heating to meet the part load for heating, if the declared capacity for heating is less than the part load for heating, expressed in kW;
- (34) ‘bin-specific coefficient of performance’ ($COP_{bin}(T_j)$) or ‘bin-specific primary energy ratio’ ($PER_{bin}(T_j)$) means the coefficient of performance of the heat pump space heater or heat pump combination heater using electricity or primary energy ratio of the heat pump space heater or heat pump combination heater using fuel specific for every bin in a season, derived from the part load for heating, declared capacity for heating and declared coefficient of performance for specified bins and calculated for other bins by interpolation or extrapolation, corrected where necessary by the degradation coefficient;
- (35) ‘declared capacity for heating’ ($P_{dh}(T_j)$) means the heating capacity a heat pump space heater or heat pump combination heater is able to deliver, for an outdoor temperature, expressed in kW;
- (36) ‘capacity control’ means the ability of a heat pump space heater or heat pump combination heater to change its capacity by changing the volumetric flow rate of at least one of the fluids needed to operate the refrigeration cycle, to be indicated as ‘fixed’ if the volumetric flow rate cannot be changed or ‘variable’ if the volumetric flow rate is changed or varied in series of two or more steps;
- (37) ‘design load for heating’ ($P_{designh}$) means the rated heat output (P_{rated}) of a heat pump space heater or heat pump combination heater at the reference design temperature, whereby the design load for heating is equal to the part load for heating with outdoor temperature equal to reference design temperature, expressed in kW;

- (38) ‘declared coefficient of performance’ ($COP_d(T_j)$) or ‘declared primary energy ratio’ ($PER_d(T_j)$) means the coefficient of performance or primary energy ratio at a limited number of specified bins;
- (39) ‘bivalent temperature’ (T_{biv}) means the outdoor temperature declared by the supplier for heating at which the declared capacity for heating equals the part load for heating and below which the declared capacity for heating requires supplementary capacity for heating to meet the part load for heating, expressed in degrees Celsius;
- (40) ‘operation limit temperature’ (TOL) means the outdoor temperature declared by the supplier for heating, below which the air-to-water heat pump space heater or air-to-water heat pump combination heater will not be able to deliver any heating capacity and the declared capacity for heating is equal to zero, expressed in degrees Celsius;
- (41) ‘heating water operation limit temperature’ ($WTOL$) means the outlet water temperature declared by the supplier for heating, above which the heat pump space heater or heat pump combination heater will not be able to deliver any heating capacity and the declared capacity heating is equal to zero, expressed in degrees Celsius;
- (42) ‘cycling interval capacity for heating’ (P_{cyc}) means the integrated heating capacity over the cycling test interval for heating, expressed in kW;
- (43) ‘cycling interval efficiency’ (COP_{cyc} or PER_{cyc}) means the average coefficient of performance or average primary energy ratio over the cycling test interval, calculated as the integrated heating capacity over the interval, expressed in kWh, divided by the integrated energy input over that same interval, expressed in kWh in terms of GCV and/or in kWh in terms of final energy multiplied by CC ;
- (44) ‘degradation coefficient’ (C_{dh}) means the measure of efficiency loss due to cycling of a heat pump space heater or heat pump combination heater; if C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$;
- (45) ‘active mode’ means the condition corresponding to the hours with a heating load for the enclosed space and activated heating function; this condition may involve cycling of the heat pump space heater or heat pump combination heater to reach or maintain a required indoor air temperature;
- (46) ‘off mode’ means a condition in which the heat pump space heater or heat pump combination heater is connected to the mains power source and is not providing any function, including conditions providing only an indication of off mode condition and conditions providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2004/108/EC of the European Parliament and of the Council¹⁷;
- (47) ‘thermostat-off mode’ means the condition corresponding to the hours with no heating load and activated heating function, whereby the heating function is switched on but the heat pump space heater or heat pump combination heater is not operational; cycling in active mode is not considered as thermostat-off mode;

¹⁷ OJ L 390, 31.12.2004, p.24.

- (48) ‘crankcase heater mode’ means the condition in which a heating device is activated to avoid the refrigerant migrating to the compressor so as to limit the refrigerant concentration in oil when the compressor is started;
- (49) ‘off mode power consumption’ (P_{OFF}) means the power consumption of a heat pump space heater or heat pump combination heater in off mode, expressed in kW;
- (50) ‘thermostat-off mode power consumption’ (P_{TO}) means the power consumption of the heat pump space heater or heat pump combination heater while in thermostat-off mode, expressed in kW;
- (51) ‘crankcase heater mode power consumption’ (P_{CK}) means the power consumption of the heat pump space heater or heat pump combination heater while in crankcase heater mode, expressed in kW;
- (52) ‘low-temperature heat pump’ means a heat pump space heater that is specifically designed for low-temperature application, and that cannot deliver heating water with an outlet temperature of 52 °C at an inlet dry (wet) bulb temperature of - 7 °C (- 8 °C) in the reference design conditions for average climate;
- (53) ‘low-temperature application’ means an application where the heat pump space heater delivers its declared capacity for heating at an indoor heat exchanger outlet temperature of 35 °C;
- (54) ‘medium-temperature application’ means an application where the heat pump space heater or heat pump combination heater delivers its declared capacity for heating at an indoor heat exchanger outlet temperature of 55 °C;

Definitions related to water heating in combination heaters:

- (55) ‘load profile’ means a given sequence of water draw-offs, as specified in Annex VII, Table 15; each combination heater meets at least one load profile;
- (56) ‘water draw-off’ means a given combination of useful water flow rate, useful water temperature, useful energy content and peak temperature, as specified in Annex VII, Table 15;
- (57) ‘useful water flow rate’ (f) means the minimum flow rate, expressed in litres per minute, for which hot water is contributing to the reference energy, as specified in Annex VII, Table 15;
- (58) ‘useful water temperature’ (T_m) means the water temperature, expressed in degrees Celsius, at which hot water starts contributing to the reference energy, as specified in Annex VII, Table 15;
- (59) ‘useful energy content’ (Q_{tap}) means the energy content of hot water, expressed in kWh, provided at a temperature equal to, or above, the useful water temperature, and at water flow rates equal to, or above, the useful water flow rate, as specified in Annex VII, Table 15;

- (60) ‘energy content of hot water’ means the product of the specific heat capacity of water, the average temperature difference between the hot water output and cold water input, and the total mass of the hot water delivered;
- (61) ‘peak temperature’ (T_p) means the minimum water temperature, expressed in degrees Celsius, to be achieved during water draw-off, as specified in Annex VII, Table 15;
- (62) ‘reference energy’ (Q_{ref}) means the sum of the useful energy content of water draw-offs, expressed in kWh, in a particular load profile, as specified in Annex VII, Table 15;
- (63) ‘maximum load profile’ means the load profile with the greatest reference energy that a combination heater is able to provide while fulfilling the temperature and flow rate conditions of that load profile;
- (64) ‘declared load profile’ means the load profile applied when determining water heating energy efficiency;
- (65) ‘daily electricity consumption’ (Q_{elec}) means the consumption of electricity for water heating over 24 consecutive hours under the declared load profile, expressed in kWh in terms of final energy;
- (66) ‘daily fuel consumption’ (Q_{fuel}) means the consumption of fuels for water heating over 24 consecutive hours under the declared load profile, expressed in kWh in terms of *GCV* and, for the purposes of point 5(f) in Annex VII, expressed in GJ in terms of *GCV*;
- (67) ‘annual electricity consumption’ (*AEC*) means the annual electricity consumption of a combination heater for water heating under the declared load profile and under given climate conditions, expressed in kWh in terms of final energy;
- (68) ‘annual fuel consumption’ (*AFC*) means the annual fossil fuel and/or biomass fuel consumption of a combination heater for water heating under the declared load profile and under given climate conditions, expressed in GJ in terms of *GCV*;

Definitions related to solar devices:

- (69) ‘annual non-solar heat contribution’ (Q_{nonsol}), means the annual contribution of electricity (expressed in kWh in terms of primary energy) and/or fuels (expressed in kWh in terms of *GCV*) to the useful heat output of a package of combination heater, temperature control and solar device, taking into account the annual amount of heat captured by the solar collector and the heat losses of the solar hot water storage tank;
- (70) ‘collector aperture area’ (A_{sol}), for the purposes of Figures 1 to 4 in Annex IV referred to as ‘collector size’, means the maximum projected area through which unconcentrated solar radiation enters the collector, expressed in m²;
- (71) ‘collector efficiency’ (η_{col}) means the efficiency of the solar collector at a temperature difference between the solar collector and the surrounding air of 40 K and a global solar irradiance of 1000 W/m², expressed in %;

- (72) ‘standing loss’ (S) means the heating power dissipated from a solar hot water storage tank at given water and ambient temperatures, expressed in W;
- (73) ‘storage volume’ (V), for the purposes of Figures 1 to 4 in Annex IV referred to as ‘tank volume’, means the rated volume of a solar hot water storage tank, expressed in litres or m³;
- (74) ‘auxiliary electricity consumption’ (Q_{aux}), for the purpose of Figure 5 in Annex IV referred to as ‘auxiliary electricity’, means the annual electricity consumption of a solar-only system that is due to the pump power consumption and the standby power consumption, expressed in kWh in terms of final energy;
- (75) ‘pump power consumption’ (sol_{pump}) means the rated electrical power consumption of the pump in the collector loop of a solar-only system, expressed in W;
- (76) ‘standby power consumption’ ($sol_{standby}$) means the rated electrical power consumption of a solar-only system when the pump and the heat generator are inactive, expressed in W;

Other definitions:

- (77) ‘average climate conditions’, ‘colder climate conditions’ and ‘warmer climate conditions’ mean the temperature and global solar irradiance conditions characteristic for the cities of Strasbourg, Helsinki and Athens, respectively;
- (78) ‘model identifier’ means the code, usually alphanumeric, which distinguishes a specific space heater, combination heater, temperature control, solar device, package of space heater, temperature control and solar device, or package of combination heater, temperature control and solar device model from other models with the same trade mark, supplier’s name or dealer’s name.

ANNEX II

Energy efficiency classes

1. Seasonal space heating energy efficiency classes

The seasonal space heating energy efficiency class of a heater, with the exception of low-temperature heat pumps and heat pump space heaters for low-temperature application, shall be determined on the basis of its seasonal space heating energy efficiency as set out in Table 1.

The seasonal space heating energy efficiency classes of a low-temperature heat pump and a heat pump space heater for low-temperature application shall be determined on the basis of its seasonal space heating energy efficiency as set out in Table 2.

The seasonal space heating energy efficiency of a heater shall be calculated in accordance with points 3 and 4 of Annex VII, for heat pump space heaters, heat pump combination heaters and low-temperature heat pumps under average climate conditions.

Table 1: Seasonal space heating energy efficiency classes of heaters, with the exception of low-temperature heat pumps and heat pump space heaters for low-temperature application

Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency η_s in %
A ⁺⁺⁺	$\eta_s \geq 150$
A ⁺⁺	$125 \leq \eta_s < 150$
A ⁺	$98 \leq \eta_s < 125$
A	$90 \leq \eta_s < 98$
B	$82 \leq \eta_s < 90$
C	$75 \leq \eta_s < 82$
D	$36 \leq \eta_s < 75$
E	$34 \leq \eta_s < 36$
F	$30 \leq \eta_s < 34$
G	$\eta_s < 30$

Table 2: Seasonal space heating energy efficiency classes of low-temperature heat pumps and heat pump space heaters for low-temperature application

Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency η_s in %
A ⁺⁺⁺	$\eta_s \geq 175$
A ⁺⁺	$150 \leq \eta_s < 175$
A ⁺	$123 \leq \eta_s < 150$
A	$115 \leq \eta_s < 123$
B	$107 \leq \eta_s < 115$
C	$100 \leq \eta_s < 107$
D	$61 \leq \eta_s < 100$
E	$59 \leq \eta_s < 61$
F	$55 \leq \eta_s < 59$
G	$\eta_s < 55$

2. Water heating energy efficiency classes

The water heating energy efficiency class of a combination heater shall be determined on the basis of its water heating energy efficiency as set out in Table 3.

The water heating energy efficiency of a combination heater shall be calculated in accordance with point 5 of Annex VII.

Table 3: Water heating energy efficiency classes of combination heaters, categorised by declared load profiles, η_{wh} in %

	3XS	XXS	XS	S	M	L	XL	XXL
A ⁺⁺⁺	$\eta_{wh} \geq 62$	$\eta_{wh} \geq 62$	$\eta_{wh} \geq 69$	$\eta_{wh} \geq 90$	$\eta_{wh} \geq 163$	$\eta_{wh} \geq 188$	$\eta_{wh} \geq 200$	$\eta_{wh} \geq 213$
A ⁺⁺	$53 \leq \eta_{wh} < 62$	$53 \leq \eta_{wh} < 62$	$61 \leq \eta_{wh} < 69$	$72 \leq \eta_{wh} < 90$	$130 \leq \eta_{wh} < 163$	$150 \leq \eta_{wh} < 188$	$160 \leq \eta_{wh} < 200$	$170 \leq \eta_{wh} < 213$
A ⁺	$44 \leq \eta_{wh} < 53$	$44 \leq \eta_{wh} < 53$	$53 \leq \eta_{wh} < 61$	$55 \leq \eta_{wh} < 72$	$100 \leq \eta_{wh} < 130$	$115 \leq \eta_{wh} < 150$	$123 \leq \eta_{wh} < 160$	$131 \leq \eta_{wh} < 170$
A	$35 \leq \eta_{wh} < 44$	$35 \leq \eta_{wh} < 44$	$38 \leq \eta_{wh} < 53$	$38 \leq \eta_{wh} < 55$	$65 \leq \eta_{wh} < 100$	$75 \leq \eta_{wh} < 115$	$80 \leq \eta_{wh} < 123$	$85 \leq \eta_{wh} < 131$
B	$32 \leq \eta_{wh} < 35$	$32 \leq \eta_{wh} < 35$	$35 \leq \eta_{wh} < 38$	$35 \leq \eta_{wh} < 38$	$39 \leq \eta_{wh} < 65$	$50 \leq \eta_{wh} < 75$	$55 \leq \eta_{wh} < 80$	$60 \leq \eta_{wh} < 85$
C	$29 \leq \eta_{wh} < 32$	$29 \leq \eta_{wh} < 32$	$32 \leq \eta_{wh} < 35$	$32 \leq \eta_{wh} < 35$	$36 \leq \eta_{wh} < 39$	$37 \leq \eta_{wh} < 50$	$38 \leq \eta_{wh} < 55$	$40 \leq \eta_{wh} < 60$
D	$26 \leq \eta_{wh} < 29$	$26 \leq \eta_{wh} < 29$	$29 \leq \eta_{wh} < 32$	$29 \leq \eta_{wh} < 32$	$33 \leq \eta_{wh} < 36$	$34 \leq \eta_{wh} < 37$	$35 \leq \eta_{wh} < 38$	$36 \leq \eta_{wh} < 40$
E	$22 \leq \eta_{wh} < 26$	$23 \leq \eta_{wh} < 26$	$26 \leq \eta_{wh} < 29$	$26 \leq \eta_{wh} < 29$	$30 \leq \eta_{wh} < 33$	$30 \leq \eta_{wh} < 34$	$30 \leq \eta_{wh} < 35$	$32 \leq \eta_{wh} < 36$
F	$19 \leq \eta_{wh} < 22$	$20 \leq \eta_{wh} < 23$	$23 \leq \eta_{wh} < 26$	$23 \leq \eta_{wh} < 26$	$27 \leq \eta_{wh} < 30$	$27 \leq \eta_{wh} < 30$	$27 \leq \eta_{wh} < 30$	$28 \leq \eta_{wh} < 32$
G	$\eta_{wh} < 19$	$\eta_{wh} < 20$	$\eta_{wh} < 23$	$\eta_{wh} < 23$	$\eta_{wh} < 27$	$\eta_{wh} < 27$	$\eta_{wh} < 27$	$\eta_{wh} < 28$

3. Energy efficiency classes of solar hot water storage tanks, if (part of) a solar device

The energy efficiency class of a solar hot water storage tank, if (part of) a solar device, shall be determined on the basis of its standing loss as set out in Table 4.

Table 4: Energy efficiency classes of solar hot water storage tanks, if (part of) a solar device

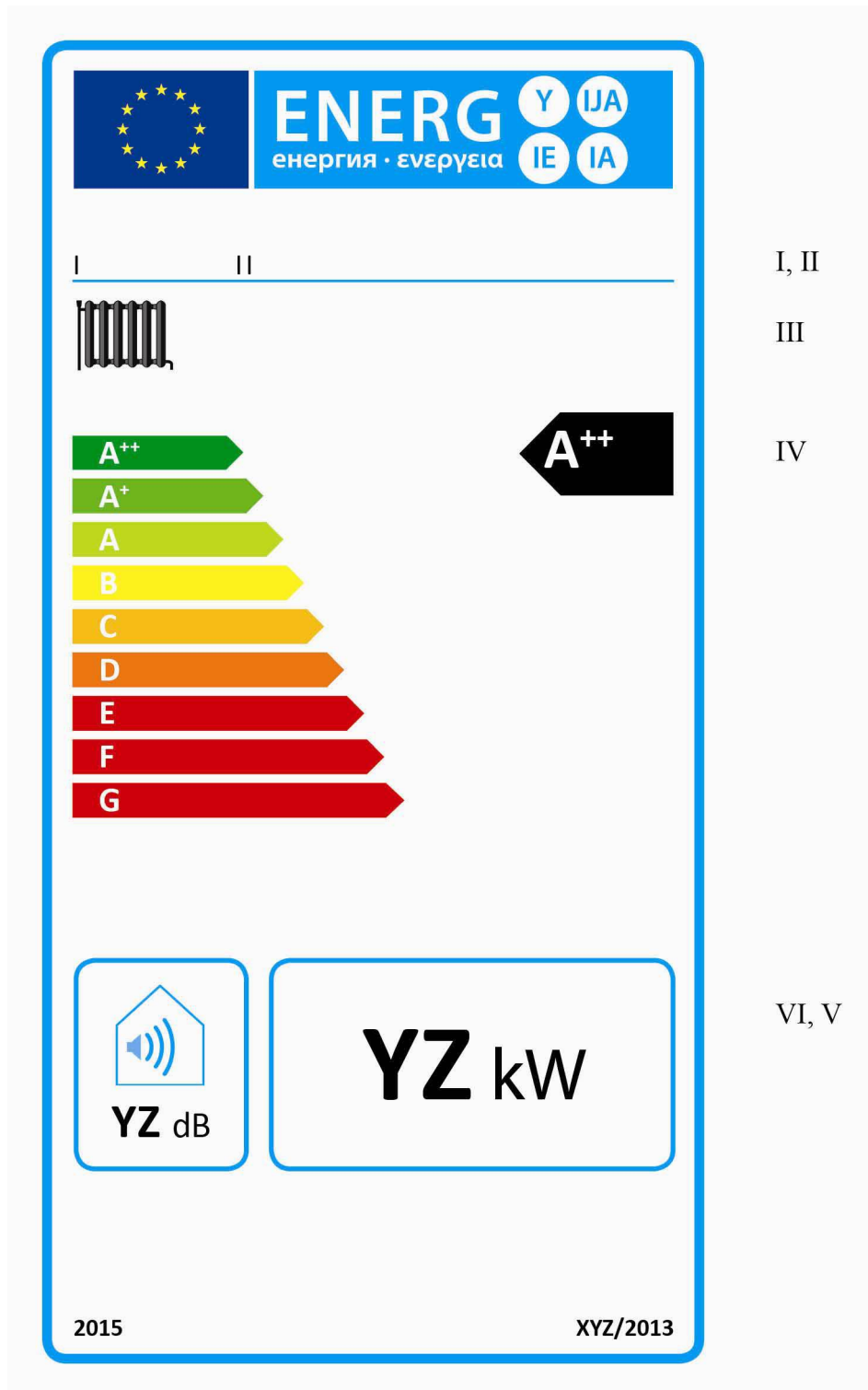
Energy efficiency class	Standing loss S in Watts, with storage volume V in litres
A+	$S < 5,5 + 3,16 \cdot V^{0,4}$
A	$5,5 + 3,16 \cdot V^{0,4} \leq S < 8,5 + 4,25 \cdot V^{0,4}$
B	$8,5 + 4,25 \cdot V^{0,4} \leq S < 12 + 5,93 \cdot V^{0,4}$
C	$12 + 5,93 \cdot V^{0,4} \leq S < 16,66 + 8,33 \cdot V^{0,4}$
D	$16,66 + 8,33 \cdot V^{0,4} \leq S < 21 + 10,33 \cdot V^{0,4}$
E	$21 + 10,33 \cdot V^{0,4} \leq S < 26 + 13,66 \cdot V^{0,4}$
F	$26 + 13,66 \cdot V^{0,4} \leq S < 31 + 16,66 \cdot V^{0,4}$
G	$S > 31 + 16,66 \cdot V^{0,4}$

ANNEX III
The labels

1. Space heaters

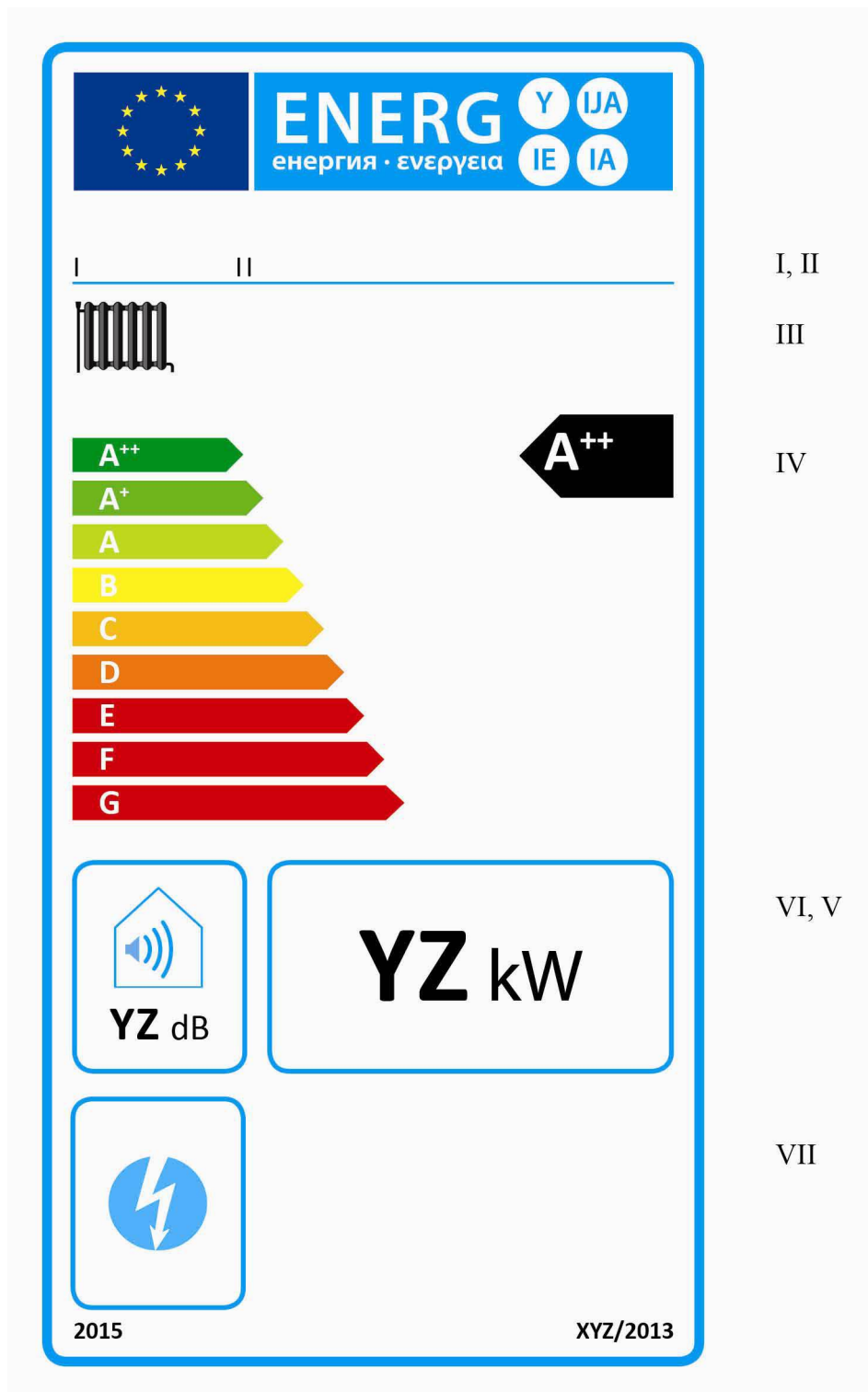
1.1. Label 1

1.1.1. Boiler space heaters in seasonal space heating energy efficiency classes A⁺⁺ to G



- (a) The following information shall be included in the label:
- I. supplier's name or trade mark;
 - II. supplier's model identifier;
 - III. the space heating function;
 - IV. the seasonal space heating energy efficiency class, determined in accordance with point 1 of Annex II; the head of the arrow containing the seasonal space heating energy efficiency class of the boiler space heater shall be placed at the same height as the head of the relevant energy efficiency class;
 - V. the rated heat output in kW, rounded to the nearest integer;
 - VI. the sound power level L_{WA} , indoors, in dB, rounded to the nearest integer.
- (b) The design aspects of the label for boiler space heaters shall be in accordance with point 5 of this Annex.

1.1.2. Cogeneration space heaters in seasonal space heating energy efficiency classes A⁺⁺ to G

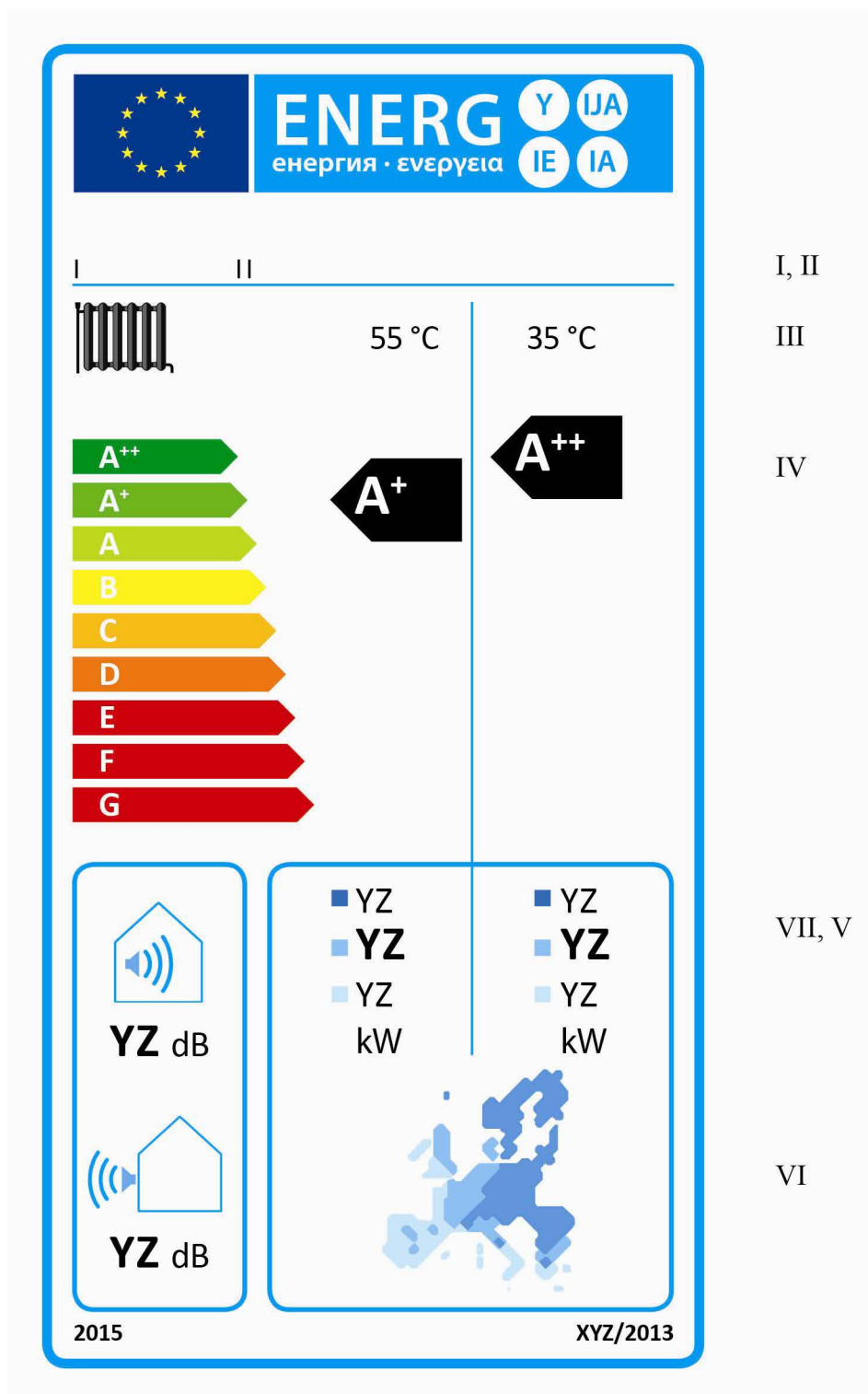


(a) The following information shall be included in the label:

- I. supplier's name or trade mark;
- II. supplier's model identifier;

- III. the space heating function;
 - IV. the seasonal space heating energy efficiency class, determined in accordance with point 1 of Annex II; the head of the arrow containing the seasonal space heating energy efficiency class of the cogeneration space heater shall be placed at the same height as the head of the relevant energy efficiency class;
 - V. the rated heat output, including the rated heat output of any supplementary heater, in kW, rounded to the nearest integer;
 - VI. the sound power level L_{WA} , indoors, in dB, rounded to the nearest integer;
 - VII. the additional electricity generation function.
- (b) The design aspects of the label for cogeneration space heaters shall be in accordance with point 6 of this Annex.

1.1.3. Heat pump space heaters, except low-temperature heat pumps, in seasonal space heating energy efficiency classes A⁺⁺ to G



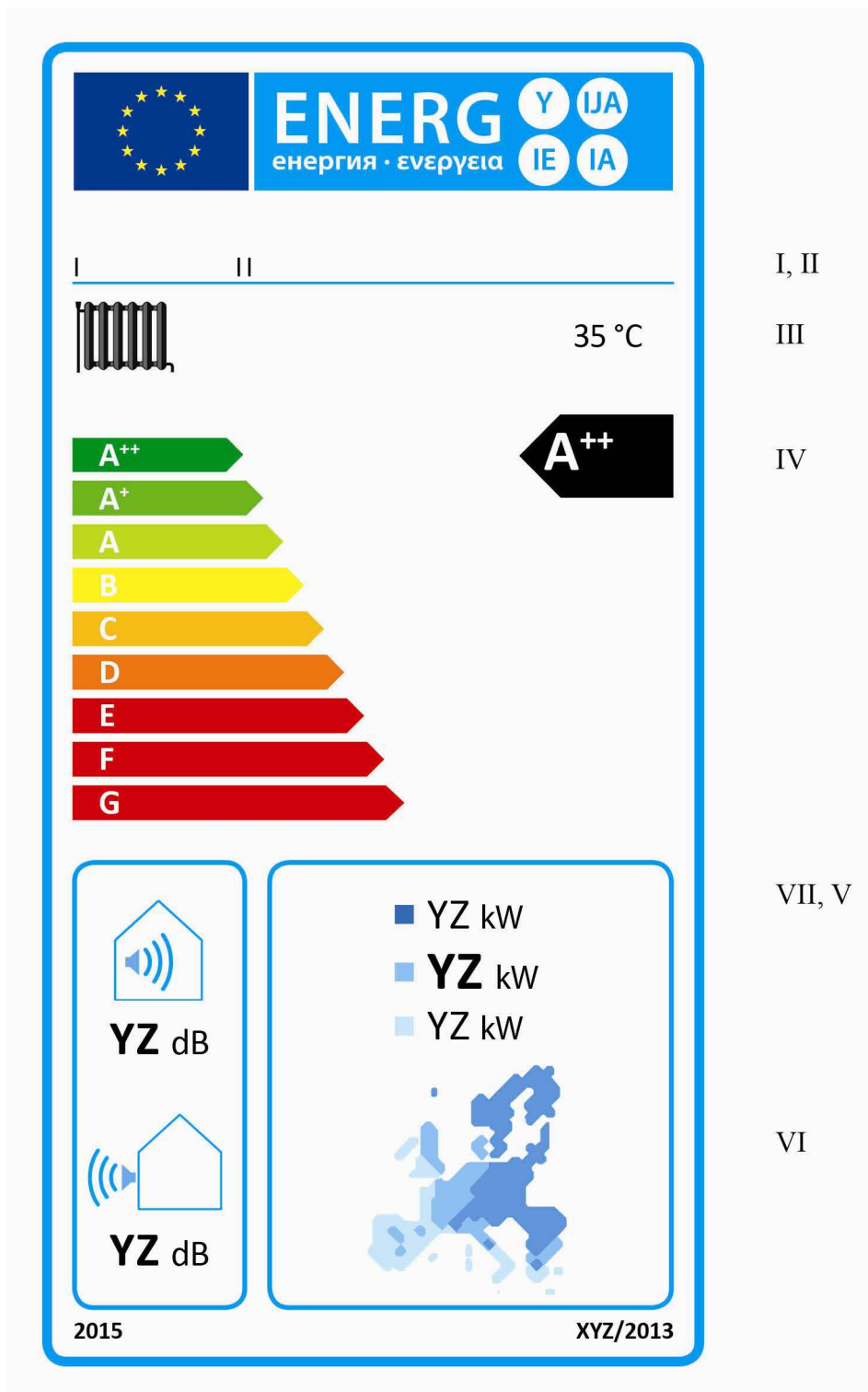
(a) The following information shall be included in the label:

- I. supplier's name or trade mark;
- II. supplier's model identifier;

- III. the space heating function for medium- and low-temperature application, respectively;
 - IV. the seasonal space heating energy efficiency class under average climate conditions for medium- and low-temperature application, respectively, determined in accordance with point 1 of Annex II; the head of the arrow containing the seasonal space heating energy efficiency class of the heat pump space heater for medium- and low-temperature application, respectively, shall be placed at the same height as the head of the relevant energy efficiency class;
 - V. the rated heat output, including the rated heat output of any supplementary heater, in kW, under average, colder and warmer climate conditions for medium- and low-temperature application, respectively, rounded to the nearest integer;
 - VI. European temperature map displaying three indicative temperature zones;
 - VII. the sound power level L_{WA} , indoors (if applicable) and outdoors, in dB, rounded to the nearest integer.
- (b) The design aspects of the label for heat pump space heaters shall be in accordance with point 7 of this Annex. By way of exception, where a model has been granted an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council¹⁸, a copy of the EU Ecolabel may be added.

¹⁸ OJ L 27, 30.1.2010, p. 1.

1.1.4. Low-temperature heat pumps in seasonal space heating energy efficiency classes A⁺⁺ to G



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

- I. supplier's name or trade mark;
- II. supplier's model identifier;

- III. the space heating function for low-temperature application;
 - IV. the seasonal space heating energy efficiency class under average climate conditions, determined in accordance with point 1 of Annex II; the head of the arrow containing the seasonal space heating energy efficiency class of the low-temperature heat pump shall be placed at the same height as the head of the relevant energy efficiency class;
 - V. the rated heat output, including the rated heat output of any supplementary heater, in kW, under average, colder and warmer climate conditions, rounded to the nearest integer;
 - VI. European temperature map displaying three indicative temperature zones;
 - VII. the sound power level L_{WA} , indoors (if applicable) and outdoors, in dB, rounded to the nearest integer.
- (b) The design aspects of the label for low-temperature heat pumps shall be in accordance with point 8 of this Annex. By way of exception, where a model has been granted an 'EU Ecolabel' under Regulation (EC) No 66/2010 of the European Parliament and of the Council, a copy of the EU Ecolabel may be added.