



Council of the  
European Union

Brussels, 4 May 2015  
(OR. en)

8514/15  
ADD 1

ENER 133  
ENV 257  
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#### COVER NOTE

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

date of receipt: 24 April 2015

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

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No. Cion doc.: C(2015) 2638 final - ANNEXES 1 to 9

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Subject: ANNEXES  
Annex I to IX to the COMMISSION DELEGATED REGULATION (EU)  
No .../.. supplementing Directive 2010/30/EU of the European  
Parliament and of the Council with regard to the energy labelling of local  
space heaters

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Delegations will find attached document C(2015) 2638 final - ANNEXES 1 to 9.

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Encl.: C(2015) 2638 final - ANNEXES 1 to 9



Brussels, 24.4.2015  
C(2015) 2638 final

ANNEXES 1 to 9

## **ANNEXES**

### **Annex I to IX**

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

**supplementing Directive 2010/30/EU of the European Parliament and of the Council**

**with regard to the energy labelling of local space heaters**

## ANNEX I

### Definitions applicable for Annexes II to IX

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

1. 'conversion coefficient' (CC) means a coefficient reflecting the estimated 40 % average EU generation efficiency referred to in Directive 2012/27/EU on energy efficiency<sup>1</sup>; the value of the conversion coefficient is  $CC = 2,5$
2. 'net calorific value' (NCV) means the total amount of heat released by a unit quantity of fuel containing the appropriate moisture of the fuel, when it is burned completely with oxygen, and when the products of combustion are not returned to ambient temperature;
3. 'useful efficiency, at either nominal or minimum heat output, ( $\eta_{th,nom}$  or  $\eta_{th,min}$  respectively)' means the ratio of the useful heat output and the total energy input expressed in terms of NCV of a local space heater, expressed in %;
4. 'electric power requirement at nominal heat output' ( $e_{l,max}$ ) means the electric power consumption of the local space heater while providing the nominal heat output. The electric power consumption shall be established without consideration of the power consumption of a circulator in case the product offers indirect heating functionality and a circulator is incorporated, expressed in kW;
5. 'electric power requirement at minimum heat output' ( $e_{l,min}$ ) means the electric power consumption of the local space heater while providing the minimum heat output. The electric power consumption shall be established without consideration of the power consumption of a circulator in case the product offers indirect heating functionality and a circulator is incorporated, expressed in kW;
6. 'electric power requirement in standby mode' ( $e_{l,sb}$ ) means the electric power consumption of the product while in standby mode, expressed in kW;
7. 'permanent pilot flame power requirement' ( $P_{pilot}$ ) means the fuel consumption of gaseous, liquid or solid fuel of the product for the provision of a flame to serve as an ignition source for the more powerful combustion process needed for nominal or part load heat output, when lit for more than 5 minutes before the main burner is on, expressed in kW;
8. 'single stage heat output, no room temperature control' means the product is not capable of varying its heat output automatically and that no feedback of room temperature is present to adapt the heat output automatically;
9. 'two or more manual stages, no room temperature control' means the product is capable of varying its heat output manually by two or more levels of heat output and is not equipped with a device that automatically regulates the heat output in relation to a desired indoor temperature;
10. 'with mechanic thermostat room temperature control' means the product is equipped with a non-electronic device that allows the product to automatically vary its heat output over a certain time period, in relation to a certain required level of indoor heating comfort;
11. 'with electronic room temperature control' means the product is equipped with an electronic device, either integrated or external, that allows the product to

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<sup>1</sup> OJ L 315, 14.11.2012, p. 1.

automatically vary its heat output over a certain time period, in relation to a certain required level of indoor heating comfort;

12. 'with electronic room temperature control plus day timer' means the product is equipped with an electronic device, either integrated or external, that allows the product to automatically vary its heat output over a certain time period, in relation to a certain required level of indoor heating comfort, and allows the setting of timing and temperature level for a 24-hours timer interval;
13. 'with electronic room temperature control plus week timer' means the product is equipped with an electronic device, either integrated or external, that allows the product to automatically vary its heat output over a certain time period, in relation to a certain required level of indoor heating comfort, and allows the setting of timing and temperature levels for a full week. During the 7-day period the settings must allow a variation on a day-to-day basis;
14. 'room temperature control, with presence detection' means the product is equipped with an electronic device, either integrated or external, that automatically reduces the set-point for the room temperature when no person is detected in the room;
15. 'room temperature control, with open window detection' means the product is equipped with an electronic device, either integrated or external, that reduces the heat output when a window or door has been opened. Whenever a sensor is used to detect the opening of a window or door, it can be installed with the product, externally to the product, built in the building structure or as a combination of those options;
16. 'with distance control option' means the function that allows remote interaction from outside the building in which the product is installed with the control of the product;
17. 'standby mode' means a condition where the product 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;
18. 'model identifier' means the code, usually alphanumeric, which distinguishes a specific local space heater model from other models with the same trade mark, supplier's name or dealer's name;
19. 'other fossil fuel' means fossil fuel other than anthracite and dry steam coal, hard coke, low temperature coke, bituminous coal, lignite, peat or blended fossil fuel briquettes;
20. 'other woody biomass' means woody biomass other than log wood with a moisture content of 25 % or less, briquetted fuel with a moisture content below 14 % or compressed wood with a moisture content below 12 %;
21. 'moisture content' means the mass of water in the fuel in relation to the total mass of the fuel as used in the local space heater.

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

The energy efficiency class of a local space heater shall be determined on the basis of its energy efficiency index as set out in Table 1.

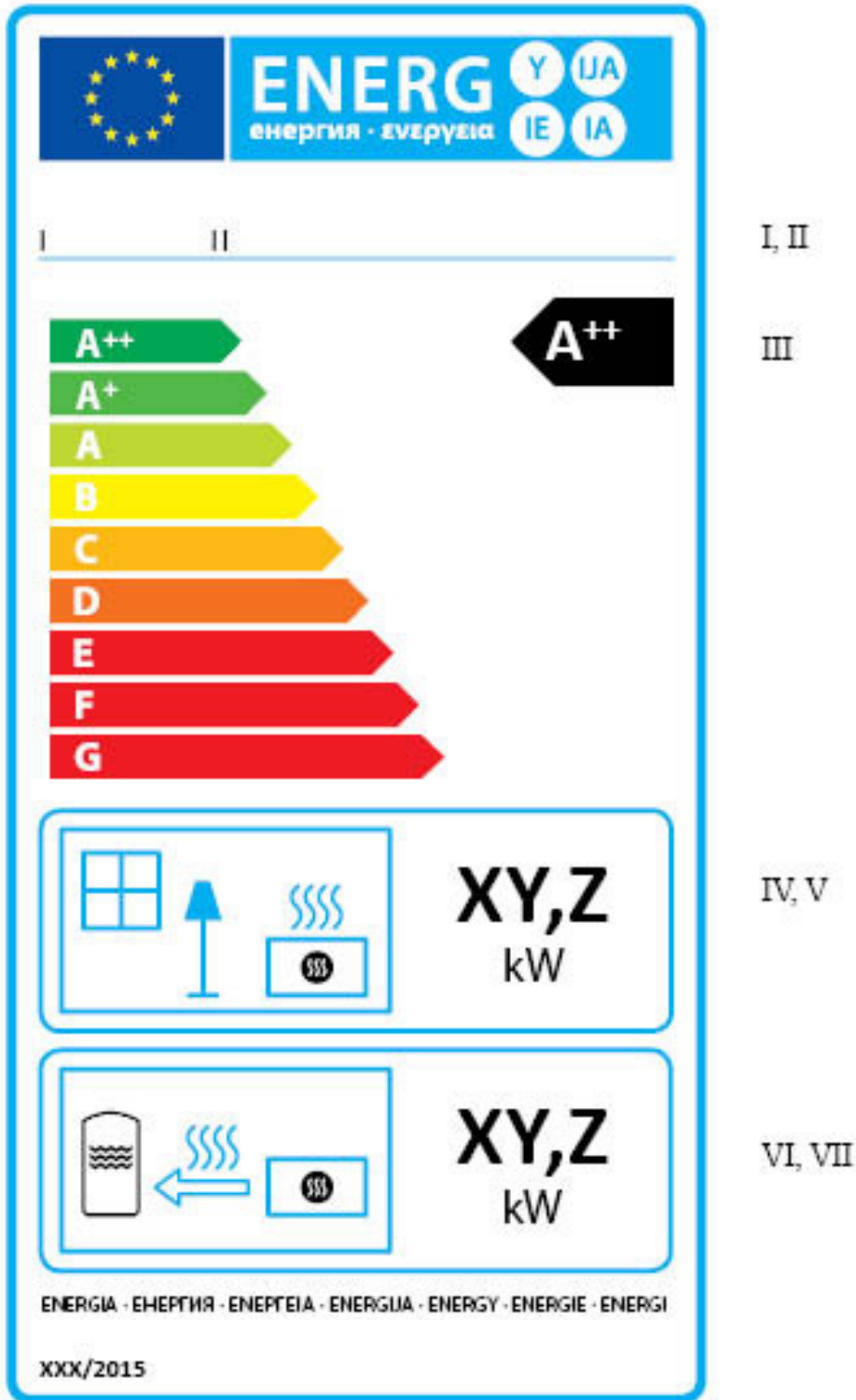
**Table 1:** Energy efficiency classes of local space heaters

<b>Energy efficiency class</b>	<b>Energy efficiency index (<i>EEI</i>)</b>
A++	$EEI \geq 130$
A+	$107 \leq EEI < 130$
A	$88 \leq EEI < 107$
B	$82 \leq EEI < 88$
C	$77 \leq EEI < 82$
D	$72 \leq EEI < 77$
E	$62 \leq EEI < 72$
F	$42 \leq EEI < 62$
G	$EEI < 42$

The energy efficiency index of a local space heater shall be calculated in accordance with Annex VIII.

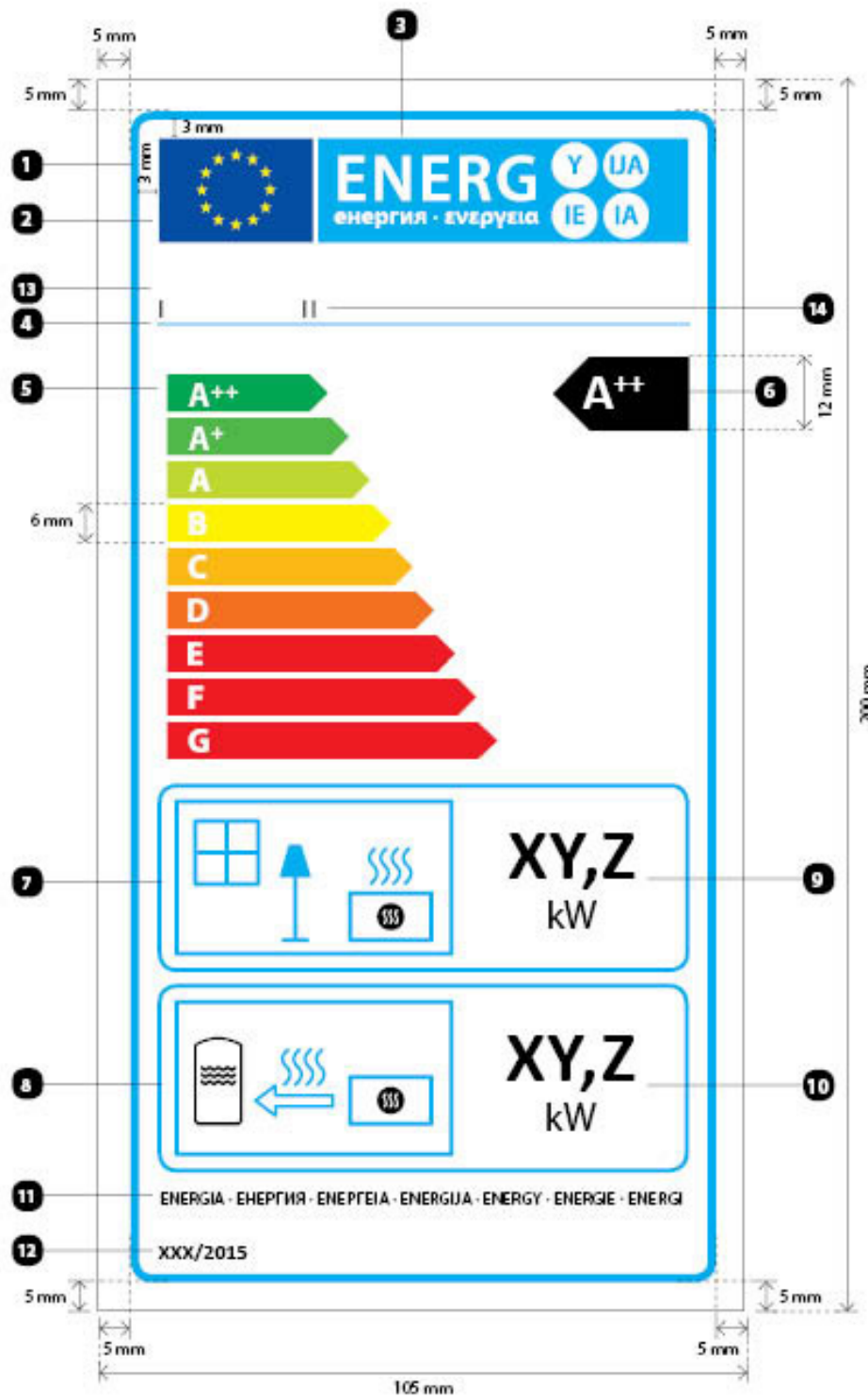
ANNEX III  
The label

1. Local space heaters



- (a) The following information shall be included in the label:
- I. supplier's name or trade mark;
  - II. supplier's model identifier;
  - III. the energy efficiency class, determined in accordance with point 1 of Annex II; the head of the arrow containing the energy efficiency class of the local space heater shall be placed at the same height as the head of the relevant energy efficiency class;
  - IV. the symbol for direct heat output;
  - V. the direct heat output in kW, rounded to the nearest one decimal place;
  - VI. for local space heaters with heat transfer to a fluid, the symbol for indirect heat output;
  - VII. for local space heaters with heat transfer to a fluid, the indirect heat output in kW, rounded to the nearest one decimal place.
- (b) The design aspects of the label for local space heaters shall be in accordance with point 2 of this Annex.

2. The design of the label for local space heaters shall be the following:





Whereby:

- (a) The label shall be at least 105 mm wide and 200 mm high. Where the label is printed in a larger format, its content shall nevertheless remain proportionate to the specifications above.
- (b) The background shall be white.
- (c) Colours are coded as CMYK — cyan, magenta, yellow and black, following this example: 00-70-X-00: 0% cyan, 70% magenta, 100% yellow, 0% black.
- (d) The label shall fulfil all of the following requirements (numbers refer to the figure above):
  - ❶ **EU label border stroke:** 4 pt, colour: cyan 100%, round corners: 3.5 mm.
  - ❷ **EU logo:** Colours: X-80-00-00 and 00-00-X-00.
  - ❸ **Energy label:** Colour: X-00-00-00. Pictogram as depicted: EU logo + energy label: width: 86 mm, height: 17 mm.
  - ❹ **Sub-logos border:** 1 pt, colour: cyan 100%, length: 86 mm.
  - ❺ **Scale of energy classes**
    - **Arrow:** height: 6 mm, gap: 1.3 mm, colours:  
Highest class: X-00-X-00,  
Second class: 70-00-X-00,  
Third class: 30-00-X-00,  
Fourth class: 00-00-X-00,  
Fifth class: 00-30-X-00,  
Sixth class: 00-70-X-00,  
Seventh class: 00-X-X-00,  
Eighth class: 00-X-X-00,  
Last class: 00-X-X-00,
    - **Text:** Calibri bold 14 pt, capitals, white, ‘+’ symbols: superscript, aligned on a single row;
  - ❻ **Energy efficiency class:**
    - **Arrow:** width: 22 mm, height: 12 mm, 100% black,
    - **Text:** Calibri bold 24 pt, capitals, white, ‘+’ symbols: superscript, aligned on a single row.
  - ❼ **Direct heating functionality:**
    - **Pictogram** as depicted,
    - **Border:** 2 pt, colour: cyan 100%, round corners: 3.5 mm.
  - ❽ **If applicable, indirect heating functionality:**
    - **Pictogram** as depicted,
    - **Border:** 2 pt, colour: cyan 100%, round corners: 3.5 mm.
  - ❾ **Nominal direct heat output:**
    - **Border:** 2 pt, colour: cyan 100%, round corners: 3.5 mm,

- **Value ‘XY,Z’:** Calibri bold 34 pt, 100% black,
- **Text ‘kW’:** Calibri regular 18 pt, 100% black.
- ⑩ **If applicable, nominal indirect heat output:**
  - **Border:** 2 pt, colour: cyan 100%, round corners: 3.5 mm,
  - **Value ‘XY,Z’:** Calibri bold 34 pt, 100% black,
  - **Text ‘kW’:** Calibri regular 18 pt, 100% black.
- ⑪ **Energia:**
  - **Text:** Calibri regular 8 pt, 100% black.
- ⑫ **Year of label introduction and number of Regulation:**
  - **Text:** Calibri bold 10 pt.
- ⑬ **Supplier’s name or trademark.**
- ⑭ **Supplier’s model identifier:**
  - The supplier’s name or trade mark and model identifier shall fit in a space of 86 x 12 mm.

## **ANNEX IV**

### **Product fiche**

1. The information in the product fiche of the local space heater shall be provided in the following order and shall be included in the product brochure or other literature provided with the product:
  - (a) supplier's name or trademark;
  - (b) supplier's model identifier;
  - (c) the energy efficiency class of the model, determined in accordance with point 1 of Annex II;
  - (d) the direct heat output in kW, rounded to the nearest one decimal place;
  - (e) the indirect heat output in kW, rounded to the nearest one decimal place;
  - (f) the energy efficiency index, rounded to the nearest integer and calculated in accordance with Annex VIII;
  - (g) the useful energy efficiency at nominal heat output, and at minimum load if applicable, rounded to the nearest one decimal place and calculated in accordance with Annex VIII;
  - (h) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained.
2. One fiche may cover a number of local space heater models supplied by the same supplier.
3. The information contained in the fiche may be given in the form of a copy of the label, either in colour or in black and white. Where this is the case, the information listed in point 1 not already displayed on the label shall also be provided.

## ANNEX V

### Technical documentation

For local space heaters, the technical documentation referred to in Article 3(1)(e) and Article 3(2)(e) shall include:

- (a) the name and address of the supplier;
- (b) the model identifier;
- (c) where appropriate, the references of the harmonised standards applied;
- (d) where the preferred fuel is other woody biomass, non-woody biomass, other fossil fuel or other blend of biomass and fossil fuel as referred to in Table 2, a description of the fuel sufficient for its unambiguous identification and the technical standard or specification of the fuel, including the measured moisture content and the measured ash content, and for other fossil fuel also the measured volatile content of the fuel;
- (e) where appropriate, the other technical standards and specifications used;
- (f) the identification and signature of the person empowered to bind the supplier;
- (g) the information included in Table 2 (for solid fuel local space heaters) and Table 3 (for gaseous / liquid fuel local space heaters), measured and calculated in accordance with Annex VIII;
- (h) reports of tests undertaken by suppliers or on their behalf, including the name and address of the body that conducted the tests;
- (i) any specific precautions that shall be taken when the local space heater is assembled, installed or maintained;
- (j) a list of equivalent models, if applicable.

This information may be merged with the technical documentation provided in accordance with measures under Directive 2009/125/EC.

**Table 2:** Technical parameters for solid fuel local space heaters

Model identifier(s):			
Indirect heating functionality:[yes/no]			
Direct heat output: ...(kW)			
Indirect heat output: ...(kW)			
<b>Fuel</b>	<b>Preferred fuel (only one):</b>	<b>Other suitable fuel(s):</b>	
Wood logs with moisture content $\leq 25\%$	[yes/no]	[yes/no]	
Compressed wood with moisture content $<12\%$	[yes/no]	[yes/no]	
Other woody biomass	[yes/no]	[yes/no]	
Non-woody biomass	[yes/no]	[yes/no]	
Anthracite and dry steam coal	[yes/no]	[yes/no]	
Hard coke	[yes/no]	[yes/no]	
Low temperature coke	[yes/no]	[yes/no]	
Bituminous coal	[yes/no]	[yes/no]	
Lignite briquettes	[yes/no]	[yes/no]	
Peat briquettes	[yes/no]	[yes/no]	
Blended fossil fuel briquettes	[yes/no]	[yes/no]	
Other fossil fuel	[yes/no]	[yes/no]	
Blended biomass and fossil fuel briquettes	[yes/no]	[yes/no]	
Other blend of biomass and solid fuel	[yes/no]	[yes/no]	
<b>Characteristics when operating with the preferred fuel</b>			
Seasonal space heating energy efficiency $\eta_s$ [%]:			
Energy Efficiency Index (EEI):			
<b>Item</b>	<b>Symbol</b>	<b>Value</b>	<b>Unit</b>
<b>Heat output</b>			
Nominal heat output	$P_{nom}$	x,x	kW
Minimum heat output (indicative)	$P_{min}$	[x,x / N.A.]	kW
<b>Auxiliary electricity consumption</b>			
At nominal heat output	$el_{max}$	x,xxx	kW
At minimum heat output	$el_{min}$	x,xxx	kW
In standby mode	$el_{SB}$	x,xxx	kW
<b>Permanent pilot flame power requirement</b>			
Pilot flame power requirement (if applicable)	$P_{pilot}$	[x,xxx / N.A.]	kW
Contact details		Name and address of the supplier	
<b>Useful efficiency (NCV as received)</b>			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	x,x	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	[x,x / N.A.]	%
<b>Type of heat output / room temperature control (select one)</b>			
single stage heat output, no room temperature control		[yes/no]	
two or more manual stages, no room temperature control		[yes/no]	
with mechanic thermostat room temperature control		[yes/no]	
with electronic room temperature control		[yes/no]	
with electronic room temperature control plus day timer		[yes/no]	
with electronic room temperature control plus week timer		[yes/no]	
<b>Other control options (multiple selections possible)</b>			
room temperature control, with presence detection		[yes/no]	
room temperature control, with open window detection		[yes/no]	
with distance control option		[yes/no]	

**Table 3:** Technical parameters for gaseous/liquid fuel local space heaters

Model identifier(s):			
Indirect heating functionality:[yes/no]			
Direct heat output: ...(kW)			
Indirect heat output: ...(kW)			
<b>Fuel</b>			
Select fuel type	[gaseous / liquid]	[specify]	
<b>Item</b>	<b>Symbol</b>	<b>Value</b>	<b>Unit</b>
<b>Heat output</b>			
Nominal heat output	$P_{nom}$	x,x	kW
Minimum heat output (indicative)	$P_{min}$	[x,x / N.A.]	kW
<b>Auxiliary electricity consumption</b>			
At nominal heat output	$el_{max}$	x,xxx	kW
At minimum heat output	$el_{min}$	x,xxx	kW
In standby mode	$el_{SB}$	x,xxx	kW
<b>Permanent pilot flame power requirement</b>			
Pilot flame power requirement (if applicable)	$P_{pilot}$	[x,xxx / N.A.]	kW
Contact details	Name and address of the supplier		
<b>Item</b>	<b>Symbol</b>	<b>Value</b>	<b>Unit</b>
<b>Useful efficiency (NCV)</b>			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	x,x	%
Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	[x,x / N.A.]	%
<b>Type of heat output / room temperature control (select one)</b>			
single stage heat output, no room temperature control		[yes/no]	
two or more manual stages, no room temperature control		[yes/no]	
with mechanic thermostat room temperature control		[yes/no]	
with electronic room temperature control		[yes/no]	
with electronic room temperature control plus day timer		[yes/no]	
with electronic room temperature control plus week timer		[yes/no]	
<b>Other control options (multiple selections possible)</b>			
room temperature control, with presence detection		[yes/no]	
room temperature control, with open window detection		[yes/no]	
with distance control option		[yes/no]	

## ANNEX VI


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

1. The information referred to in Article 4(1)(b) shall be provided in the following order:
  - (a) the energy efficiency class of the model, determined in accordance with point 1 of Annex II;
  - (b) the direct heat output in kW, rounded to the nearest one decimal place;
  - (c) the indirect heat output in kW, rounded to the nearest to one decimal place.
2. The size and font in which the information referred in point 1 is printed or shown shall be legible.

## ANNEX VII

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

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


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



- (g) the alternative text for the graphic, to be displayed on failure to display the label, shall be the energy efficiency class of the product in a font size equivalent to that of the price.
5. The appropriate product fiche made available by suppliers in accordance with Article 3(1)(d) or Article 3(2)(d) shall be shown on the display mechanism in proximity to the price of the product. The size shall be such that the product fiche is clearly visible and legible. The product fiche may be displayed using a nested display, in which case the link used for accessing the fiche shall clearly and legibly indicate 'Product fiche'. If nested display is used, the product fiche shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the link.'

## ANNEX VIII

### Measurements and calculations

1. For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the *Official Journal of the European Union*, or using other reliable, accurate and reproducible methods that take into account the generally recognised state-of-the-art methods. They shall meet the conditions set out in points 2 to 4.
2. General conditions for measurements and calculations
  - (a) Local space heaters shall be tested for the preferred fuel in order to determine the energy efficiency index, direct and indirect heat output.
  - (b) Declared values for direct and indirect heat output, and energy efficiency index, shall be rounded to the nearest one decimal place.
3. General conditions for energy efficiency index and consumption of local space heaters:
  - (a) The useful efficiency values  $\eta_{th,nom}$ ,  $\eta_{th,min}$  and the direct and indirect heat output values for  $P_{nom}$ ,  $P_{min}$  are measured, where applicable.
  - (b) The energy efficiency index (*EEI*) shall be calculated as the seasonal space heating energy efficiency in active mode ( $\eta_{S,on}$ ) corrected for local space heaters using biomass as preferred fuel by a factor taking into account the renewable character of the preferred fuel, and corrected by contributions accounting for temperature controls, auxiliary electricity consumption and permanent pilot flame energy consumption. The energy efficiency index (*EEI*) is expressed as a figure equivalent to its figure expressed in percentage.
4. Specific conditions for seasonal space heating energy efficiency
  - (a) The energy efficiency index (*EEI*) of all local space heaters is defined as:

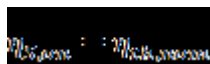
$$EEI = (\eta_{S,on} \cdot BLF) \cdot 100\% + F(2) + F(3) - F(4) - F(5)$$

Where

- $\eta_{S,on}$  is the seasonal space heating energy efficiency in active mode, expressed in %, calculated as set out in point 4(b);
- *BLF* is the biomass label factor, which is 1.45 for biomass local space heaters and 1 for fossil fuel local space heaters;
- *F(2)* is a correction factor accounting for a positive contribution to the energy efficiency index due to adjusted contributions of controls of indoor heating comfort, the values of which are mutually exclusive, cannot be added on top of each other, expressed in %;
- *F(3)* is a correction factor accounting for a positive contribution to the energy efficiency index due to adjusted contributions of controls for indoor heating comfort the values of which can be added on top of each other, expressed in %;
- *F(4)* is a correction factor accounting for a negative contribution to the energy efficiency index by auxiliary electricity consumption, expressed in %;

- F(5) is a correction factor accounting for a negative contribution to the energy efficiency index by energy consumption of a permanent pilot flame, expressed in %.

(b) The seasonal space heating energy efficiency in active mode is calculated as:



Where

- $\eta_{th,nom}$  is the useful efficiency at nominal heat output, based on NCV;
- (c) The correction factor F(2) accounting for a positive contribution to the energy efficiency index due to adjusted contributions of controls for indoor heating comfort, the values of which are mutually exclusive or cannot be added to each other, is calculated as follows:

For all local space heaters the correction factor F(2) is equal to one of the factors according to Table 4, depending on which control characteristic applies. Only one value can be selected.

**Table 4:** Correction factor F(2)

If the product is equipped with (only one option may apply):	F(2)
	Fuel fired local space heaters
single stage heat output, no room temperature control	0.0%
two or more manual stages, no temperature control	1.0%
with mechanic thermostat room temperature control	2.0%
with electronic room temperature control	4.0%
with electronic room temperature control plus day timer	6.0%
with electronic room temperature control plus week timer	7.0%

From 1 January 2022, F(2) shall be zero for solid fuel local space heaters with emissions, where the temperature control is set at the minimum heat output, higher than those set out in Annex II, point 2 of Commission Regulation (EU) No ... of ... implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel local space heaters [*Number of the Regulation to be inserted before publication in the OJ*]. The heat output in this setting must not be higher than 50% of the nominal heat output. From 1 January 2022, if F(2) is not zero the technical documentation shall include the relevant information on emissions at minimum heat output.

- (d) The correction factor F(3) accounting for a positive contribution to the energy efficiency index due to adjusted contributions of controls for indoor heating comfort, the values of which can be added to each other, is calculated as follows:

For all local space heaters the correction factor F(3) is the summation of the values according to Table 5, depending on which control characteristic(s) applies.

**Table 5:** Correction factor F(3)

If the product is equipped with (multiple options may apply):	F(3)
	Fuel fired local space heaters
room temperature control with presence detection	1.0%
room temperature control with open window detection	1.0%
with distance control option	1.0%

From 1 January 2022, F(3) shall be zero for solid fuel local space heaters with emissions, where the temperature control is set at the minimum heat output, higher than those set out in Annex II, point 2 of Commission Regulation (EU) No ... of ... implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel local space heaters [*Number of the Regulation to be inserted before publication in the OJ*]. The heat output in this setting must not be higher than 50% of the nominal heat output. From 1 January 2022, if F(3) is not zero the technical documentation shall include the relevant information on emissions at minimum heat output.

(e) The auxiliary electricity use correction factor F(4) is calculated as:

This correction factor takes into account the auxiliary electricity consumption during on-mode and standby-mode operation.

For all local space heaters the auxiliary electricity consumption correction is calculated as follows:

$$F(4) = \left[ \frac{0,24 \cdot el_{max} + 0,33 \cdot el_{min} + 1,33 \cdot el_{sb}}{P_{nom}} \cdot 100 \right] \%$$

Where

- $el_{max}$  is the electric power consumption at nominal heat output, expressed in kW;
- $el_{min}$  is the electric power consumption at minimum heat output, expressed in kW. In case the product does not offer a minimum heat output the value for the electric power consumption at nominal heat output shall be used;
- $el_{sb}$  is the electric power consumption of the product while in standby mode, expressed in kW;
- $P_{nom}$  is the nominal heat output of the product, expressed in kW.

(f) The correction factor F(4) related to the energy consumption of a permanent pilot flame is calculated as follows:

This correction factor takes into account the permanent pilot flame power requirement.

For all local space heaters the correction factor is calculated as:

$$F(4) = \left[ 0,5 \cdot \frac{P_{pilot}}{P_{nom}} \cdot 100 \right] \%$$

Where

- $P_{pilot}$  is the pilot flame consumption, expressed in kW;
- $P_{nom}$  is the nominal heat output of the product, expressed in kW.

## ANNEX IX

### Verification procedure for market surveillance purposes

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

1. The Member State authorities shall test one single unit per model. The unit shall be tested with a fuel with characteristics in the same range as the fuel that was used by the manufacturer to perform measurements according to Annex VIII.

The model shall be considered to comply with the applicable requirements if:

- (a) the values and classes on the label and in the product fiche correspond to the values in the technical documentation; and
- (b) for solid fuel local space heaters, the energy efficiency index (EEI) is not more than 8% lower than the declared value;
- (c) for liquid fuel local space heaters, the EEI is not more than 8% lower than the declared value;
- (d) for gaseous fuel local space heaters, the EEI is not more than 8% lower than the declared value.

2. If the result referred to in point 2(a) is not achieved, the model and all equivalent models shall be considered not to comply with this Regulation. If any of the results referred to in points from 2(b) to 2(d) is not achieved, the Member State authorities shall randomly select three additional units of the same model for testing. As alternative, the three additional units selected may be of one or more equivalent models which have been listed as equivalent products in the supplier's technical documentation.

The model shall be considered to comply with the applicable requirements if:

- (a) the declared values and classes on the label and in the product fiche for the three additional units correspond to the values in the technical documentation;
- (b) for solid fuel local space heaters, the average EEI of the three additional units is not more than 8% lower than the declared value;
- (c) for liquid fuel local space heaters, the average EEI of the three additional units is not more than 8% lower than the declared value;
- (d) for gaseous fuel local space heaters, the average EEI of the three additional units is not more than 8% lower than the declared value.

If the results referred to in point 2 are not achieved, the model and all equivalent models shall be considered not to comply with this Regulation.

The Member State authorities shall provide the test results and other relevant information to the authorities of the other Member States and to the Commission within one month of taking the decision on non-compliance of the model.

Member State authorities shall use the measurement and calculation methods set out in Annex VIII.

The verification tolerances defined in this Annex relate only to the verification of the measured parameters by Member State authorities and shall not be used by the supplier as an allowed tolerance to establish the values in the technical documentation. The values and

classes on the label or in the product fiche shall not be more favourable for the supplier than the values reported in the technical documentation.