

ANNEX II

Ecodesign requirements

1. Specific ecodesign requirements for seasonal space heating energy efficiency

- (a) Solid fuel local space heaters shall comply with the following requirements from 1 January 2022:
- (i) seasonal space heating energy efficiency of open fronted solid fuel local space heaters shall not be less than 30 %;
 - (ii) seasonal space heating energy efficiency of closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets shall not be less than 65 %;
 - (iii) seasonal space heating energy efficiency of closed fronted solid fuel local space heaters using compressed wood in the form of pellets shall not be less than 79 %;
 - (iv) seasonal space heating energy efficiency of cookers shall not be less than 65 %.

2. Specific ecodesign requirements for emissions.

- (a) From 1 January 2022 emissions of particulate matter (PM) from solid fuel local space heaters shall not exceed the following values:
- (i) emissions of PM by open fronted solid fuel local space heaters shall not exceed 50 mg/m³ at 13 % O₂ when measured according to the method described in Annex III, point 4(a)(i)(1) or 6 g/kg (dry matter) when measured according to the method described in Annex III, point 4(a)(i)(2);
 - (ii) emissions of PM by closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers shall not exceed 40 mg/m³ at 13 % O₂ when measured according to the method described in Annex III, point 4(a)(i)(1) or 5 g/kg (dry matter) when measured according to the method described in Annex III, point 4(a)(i)(2) or 2,4 g/kg (dry matter) for biomass or 5,0 g/kg (dry matter) for solid fossil fuel when measured according to the method described in Annex III, point 4(a)(i)(3);
 - (iii) emissions of PM by closed fronted solid fuel local space heaters using compressed wood in form of pellets shall not exceed 20 mg/m³ at 13 % O₂ when measured according to the method described in Annex III, point 4(a)(i)(1) or 2,5 g/kg (dry matter) when measured according to the method described in Annex III, point 4(a)(i)(2) or 1,2 g/kg (dry matter) when measured according to the method described in Annex III, point 4(a)(i)(3).
- (b) From 1 January 2022 emissions of organic gaseous compounds (OGCs) from solid fuel local space heaters shall not exceed the following values:
- (i) emissions of OGCs by open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers shall not exceed 120 mgC/m³ at 13 % O₂;

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- (ii) emissions of OGCs by closed fronted solid fuel local space heaters using compressed wood in form of pellets shall not exceed 60 mgC/m³ at 13 % O₂.
- (c) From 1 January 2022 emissions of carbon monoxide (CO) from solid fuel local space heaters shall not exceed the following values:
 - (i) emissions of CO by open fronted solid fuel local space heaters shall not exceed 2 000 mg/m³ at 13 % O₂;
 - (ii) emissions of CO by closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers shall not exceed 1 500 mg/m³ at 13 % O₂;
 - (iii) emissions of CO by closed fronted solid fuel local space heaters using compressed wood in form of pellets shall not exceed 300 mg/m³ at 13 % O₂.
- (d) From 1 January 2022 emissions of nitrogen oxides (NO_x) from solid fuel local space heaters shall not exceed the following values:
 - (i) emissions of NO_x by open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using biomass shall not exceed 200 mg/m³ expressed as NO₂ at 13 % O₂;
 - (ii) emissions of NO_x by open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using fossil solid fuel shall not exceed 300 mg/m³ expressed as NO₂ at 13 % O₂.

3. Requirements for product information

- (a) From 1 January 2022 the following product information on solid fuel local space heaters shall be provided:
 - (i) the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall contain the following elements:
 - (1) the technical information included in Table 1, with its technical parameters measured and calculated in accordance with Annex III and showing the number of significant figures indicated in the table;
 - (2) any specific precautions that must be taken when the solid fuel local space heater is assembled, installed or maintained;
 - (3) information relevant to disassembly, recycling and/or disposal at end-of-life.
 - (ii) the technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:
 - (1) the elements specified in point (a);
 - (2) a list of equivalent models, if applicable;
 - (3) where the preferred fuel or any other suitable fuel is other woody biomass, non-woody biomass, other fossil fuel or other blend of

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biomass and fossil fuel as referred to in Table 1, 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.

- (b) From 1 January 2022 the following product information on solid fuel local space heaters shall be provided:
- (i) for flueless solid fuel local space heaters and open to chimney solid fuel local space heaters only: the instruction manual for end-users, free access websites of manufacturers and the product packaging shall incorporate the following sentence in such a way to ensure clear visibility and legibility and in a language easily understood by the end-users ^{F1}... where the product is marketed: ‘This product is not suitable for primary heating purposes’:
- (1) for the instruction manual for end-users this sentence shall be on the cover page of the manual;
 - (2) for free-access websites of manufacturers this sentence shall be displayed together with the other characteristics of the product;
 - (3) for the product packaging the sentence shall be placed in a prominent position in the packaging when displayed to the end-user prior to purchase.

Textual Amendments

F1 Words in [Annex 2 para. 3\(b\)\(i\)](#) omitted (31.12.2020) by virtue of [The Ecodesign for Energy-Related Products and Energy Information \(Amendment\) \(EU Exit\) Regulations 2019 \(S.I. 2019/539\)](#), reg. 1(3), [Sch. 2 para. 25\(9\)](#); 2020 c. 1, Sch. 5 para. 1(1)

TABLE 1

Information requirements for solid fuel local space heaters

Model identifier(s):											
Indirect heating functionality:[yes/no]											
Direct heat output: ...(kW)											
Indirect heat output: ...(kW)											
Fuel	Preferred fuel (only one):	Other suitable fuel(s):	η_s [x %]:	Space heating emissions at nominal heat output ^a			Space heating emissions at minimum heat output ^{ab}				
				PM	OG	CO	NO _x	PM	OG	CO	NO _x
				[x] mg/Nm ³ (13 % O ₂)				[x] mg/Nm ³ (13 % O ₂)			
a PM = particulate matter, OGcs = organic gaseous compounds, CO = carbon monoxide, NO _x = nitrogen oxides											
b Only required if correction factors F(2) or F(3) are applied.											

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Wood logs with moisture content ≤ 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]										

Characteristics when operating with the preferred fuel only

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
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Heat output				Useful efficiency (NCV as received)			
Nominal heat output	$P_{th,nom}$	x	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	x,x	%
Minimum heat output (indicative)	$P_{th,min}$	[x,x/ N.A.]	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	[x,x/ N.A.]	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)			
At nominal heat output	$e_{l,max}$	x,xx	kW	single stage heat output, no room temperature control	[yes/no]		
At minimum heat output	$e_{l,min}$	x,xx	kW	two or more manual stages, no room temperature control	[yes/no]		
In standby mode	$e_{l,SB}$	x,xx	kW	with mechanic thermostat room temperature control	[yes/no]		
Permanent pilot flame power requirement				with electronic room temperature control	[yes/no]		
Pilot flame power requirement (if applicable)	P_{pilot}	[x,xx/ N.A.]	kW	with electronic room temperature control plus day timer	[yes/no]		
				with electronic room temperature control plus week timer	[yes/no]		
				Other control options (multiple selections possible)			
				room temperature control, with presence detection	[yes/no]		
				room temperature control, with open window detection	[yes/no]		
				with distance control option	[yes/no]		

Contact name and address of the manufacturer or its authorised representative.

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