

## Local space heaters using solid fuels (biomass stoves)

### LOT 20 – solid fuels local space heaters – ECODESIGN REQUIREMENTS

Type:

- solid fuel heaters with a nominal heat output < 50 kW
- woody biomass or multi-fuel

Entry into force: 1 January 2022

seasonal space heating energy efficiency of open fronted solid fuel local space heaters using solid fuel

**30%**

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

**65%**

seasonal space heating energy efficiency of closed fronted solid fuel local space heaters using compressed wood in the form of pellets

**79%**

seasonal space heating energy efficiency of cookers using solid fuel

**65%**

OGC by open fronted solid fuel local space heaters, closed fronted local space heaters using solid fuel other than compressed wood in the form of pellets and cookers (at 13%O<sub>2</sub>)

**120 mg/m<sup>3</sup>**

OGC by closed fronted solid fuel local space heaters using compressed wood in form of pellets (at 13%O<sub>2</sub>)

**60 mg/m<sup>3</sup>**

|  |   |
|--|---|
| <u>CO</u> by open fronted local space heaters, closed fronted local space heaters using solid fuel other than compressed wood in the form of pellets and cookers (at 13%O <sub>2</sub> ) | <b>2000</b> mg/m <sup>3</sup> for open fronted; <b>1500</b> mg/m <sup>3</sup> for closed fronted; <b>1500</b> mg/m <sup>3</sup> for cookers                 |
| <u>CO</u> by closed fronted solid fuel local space heaters using compressed wood in form of pellets (at 13%O <sub>2</sub> )  | <b>300</b> mg/m <sup>3</sup>  |
| <u>NO<sub>x</sub></u> by open fronted local space heaters, closed fronted local space heaters and cookers  | <b>200</b> mg/m <sup>3</sup> for all solid fuels open and closed fronted heaters and cookers s; <b>300</b> mg/m <sup>3</sup> for fossil heaters and cookers |
| <u>PM</u> by open fronted local space heaters, closed fronted local space heaters using solid fuel other than compressed wood in the form of pellets and cookers (at 13%O <sub>2</sub> ) | <b>50</b> mg/m <sup>3</sup> for open fronted; <b>40</b> mg/m <sup>3</sup> for closed fronted; <b>40</b> mg/m <sup>3</sup> for cookers                       |
| <u>PM</u> by closed fronted solid fuel local space heaters using compressed wood in form of pellets (at 13%O <sub>2</sub> )  | <b>20</b> mg/m <sup>3</sup> for pellets   |

## LOT 20 – solid fuels local space heaters - ENERGY LABELING

Entry into force:

- 1 January 2018 for space heaters that are NOT flue less heaters or open to chimney heaters using solid fuels
- 1 January 2022 for flue less heaters or open to chimney heaters using solid fuels

Type:

- solid fuel heaters with a nominal heat output < 50 kW
- woody biomass or multi-fuel

## **solid fuels boilers (biomass boilers)**

### **LOT 15 - solid fuel boilers – ECODESIGN REQUIREMENTS**

Type:

- solid fuel boilers with a rated heat output < 500kW
- woody biomass or multi-fuel

Entry into force: 1 January 2020

seasonal space heating energy efficiency for boilers ≤ 20 kW

**75%**

seasonal space heating energy efficiency for boilers > 20 kW

**77%**

OGC (Organic gaseous compound)

**20 mg/m<sup>3</sup>** for  
automatically stoked solid fuelboilers (at 10% O<sub>2</sub>)  
**30 mg / m<sup>3</sup>** for  
manually stoked solid fuel  
boilers (at 10% O<sub>2</sub>)

CO

**500 mg/m<sup>3</sup>** for  
automatically stoked solid fuel boilers (at 10% O<sub>2</sub>)  
**700 mg /m<sup>3</sup>** for  
manually stoked solid fuel  
boilers (at 10% O<sub>2</sub>)

NO<sub>x</sub>

**200 mg/m<sup>3</sup>** at 10% O<sub>2</sub>;  
**350 mg/m<sup>3</sup>** at 10% O<sub>2</sub> for fossil fuel;

PM (biomass)

**40 mg/m<sup>3</sup>** for  
automatically stoked solid fuel boilers  
**60 mg / m<sup>3</sup>** for  
manually stoked solid fuel  
boilers

**LOT 15 - solid fuel boilers - ENERGY LABELING**

Entry into force:

- 1 April 2017 for solid fuel boilers (A++ to G labels)
- 26 September 2019 for solid fuel boilers (A+++ to D labels)

Type:

- solid fuel boilers with a rated heat output < 70kW
- woody biomass or multi-fuel