



**Termoplam Ltd.  
Testing laboratory**

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## **TEST REPORT №138/28.01.2020**

on the compliance of Roomheater fired by solid fuel (fireplace) CONCEPT 2 MINI AIR  
with the requirements of COMMISSION REGULATION (EU) 2015/1185  
of 24 April 2015.

### **I. NAME AND SIGNATURE OF THE TESTED SAMPLE:**

Roomheater device (fireplace) CONCEPT 2 MINI AIR.

### **II. NAME AND DESCRIPTION OF THE TESTED SAMPLE:**

Roomheater device (fireplace) CONCEPT 2 MINI AIR with rated heating output  
10 kW.

**III. LEGAL DOCUMENT:** COMMISSION REGULATION (EU) 2015/1185 of  
April 2015



**Picture of the sample**

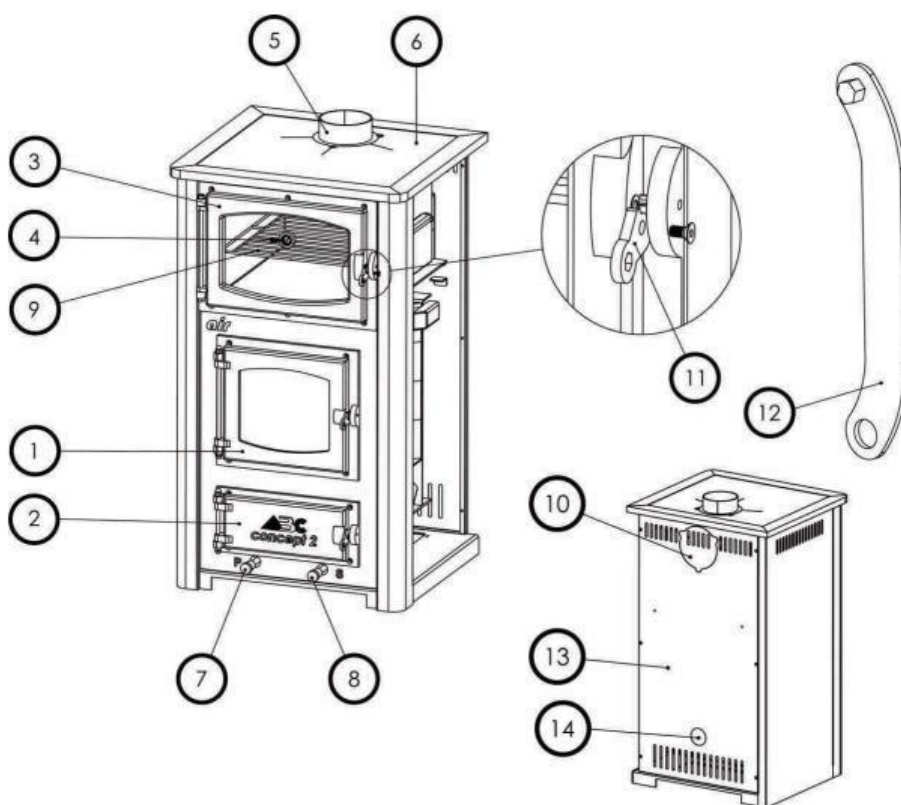
**IV. QUANTITY OF THE TESTED SAMPLES:** The Room heater device CONCEPT 2 MINI AIR is arbitrarily selected unit of regular production.

**V. CUSTOMER:**

ABC PROIZVOD d.o.o; Miloša Obrenovića 2; 31000 Užice; R. Serbia.

**VI. PURPOSE AND OBJECT OF THE TASK:** Evaluation the compliance of firebox CONCEPT 2 MINI AIR with the requirements of COMMISSION REGULATION (EU) 2015/1185 of 24 April 2015.

**VII. TECHNICAL FEATURES:**



*(Sl. 2) Šporet Concept 2 Mini Air*

Scheme (draft of the sample)

### **VIII. TEST CONDITIONS:**

- 8.1. Working condition of the combustion device - according to the requirements for tests at nominal output according to EN 13240:2001.
- 8.2. Processing of results – calculate according to normal physical conditions and at 13% O<sub>2</sub>.
- 8.3. Used results of the Test Report № 1955T.3/ 07.02.2020 of Laboratory testing and calibration "LIPGEI" Sofia.
- 8.4. Used results of the Test Report № 156-Tk/17.07.2014 of Laboratory testing and calibration "LIPGEI" Sofia
- 8.5. Used results of the Report № 0245/17.07.2014 of "TERMOTEST CONSULT" Ltd. Sofia.

### **IX. RESULTS AND OBSERVATIONS :**

- 9.1. Seasonal space heating emissions:
  - 9.1.1. Dust content of exhaust gases: PM <sup>1</sup> = 19 mg/Nm<sup>3</sup> ≤ [PM] = 40 mg/Nm<sup>3</sup>; [PM] = 40 mg/Nm<sup>3</sup> in accordance with point 2 (a) (ii), of Annex II of the REGULATION (EU) 2015/1185.
  - 9.1.2. CO of exhaust gases: CO <sup>2</sup> = 1206 mg/Nm<sup>3</sup> ≤ [CO] = 1500 mg/Nm<sup>3</sup>; [CO] = 1500 mg/Nm<sup>3</sup> in accordance with point 2 (c) (ii), of Annex II of the REGULATION (EU) 2015/1185.
  - 9.1.3. OGC of exhaust gases: OGC <sup>2</sup> = 73 mg/Nm<sup>3</sup> ≤ [OGC] = 120 mg/Nm<sup>3</sup>; [OGC] = 120 mg/Nm<sup>3</sup> in accordance with point 2 (b) (i), of Annex II of the REGULATION (EU) 2015/1185.
  - 9.1.4. NOx of exhaust gases: NOx <sup>2</sup> = 123 mg/Nm<sup>3</sup> ≤ [NOx] = 200 mg/Nm<sup>3</sup>. [NOx] = 200 mg/Nm<sup>3</sup> in accordance with point 2 (d) (i), of Annex II of the REGULATION (EU) 2015/1185.

<sup>1</sup> Results from the Test Report № 156-Tk/17.07.2014 of Laboratory testing and calibration "LIPGEI" Sofia.

<sup>2</sup> Results from the Test Report № 1955T.3/ 07.02.2020 of Laboratory testing and calibration "LIPGEI" Sofia.

- 9.2. Seasonal space heating energy efficiency:

$$\eta_s = 67,7 \% > [\eta_s] = 65 \%$$

Where:

-  $\eta_s = 67,7 \%$  - the seasonal space heating energy efficiency in active mode is calculated as  $\eta_{th,nom}$ :

- $\eta_{th,nom} = 76,7 \%$  is the useful efficiency at nominal heat output, based on NCV. Result from the Report № 0245/17.07.2014 of "TERMOTEST CONSULT" Ltd. Sofia.
- $[\eta_s] \geq 65 \%$  in accordance with point 1 (a) (ii), of Annex II of the REGULATION (EU) 2015/1185.

#### **X. CONCLUSION:**

Room heater device CONCEPT 2 MINI AIR is satisfying and fulfilling the requirements of REGULATION (EU) 2015/1185.

#### **XI. ENCLOSURES:**

- 11.1. Picture of residential cooker: 1
- 11.2. Assembly drawing of the sample: 1.



28.01.2020

MANAGER: .....  
(eng. Pl. Iliev)

#### **NOTE:**

The test results and conclusions relate only to the tested samples.  
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This document is only informative.