



**Termoplam Ltd.  
Testing laboratory**

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## **TEST REPORT №172/23.09.2020**

on the compliance of pellet fireplace TOBY H20 with the requirements of COMMISSION REGULATION (EU) 2015/1185 of 24 April 2015 and BImSchV-norm.

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

Pellet fireplace fired by solid fuel - wood pellets model TOBY H20 with total heat output 20,6 kW.

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

Pellet fireplace model TOBY H20 made of (steel sheet metal by welding).

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



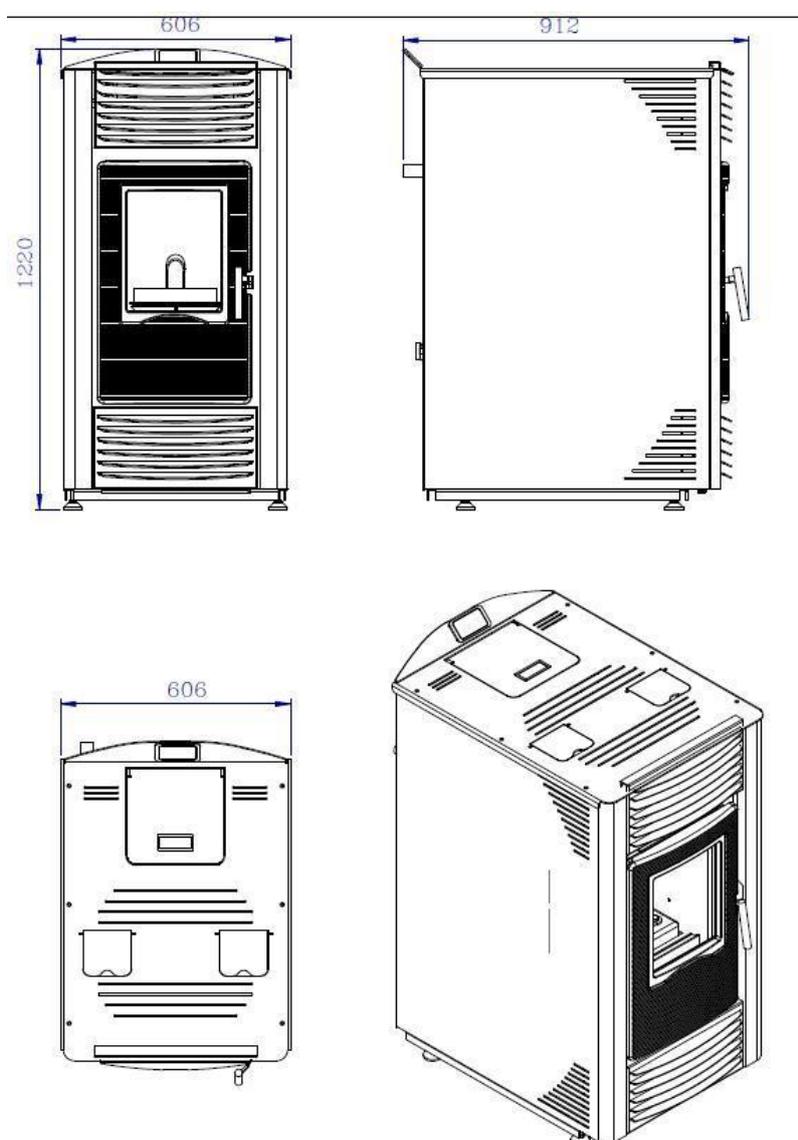
Picture of pellet fireplace TOBY H20

**IV. QUANTITY OF THE TESTED SAMPLES:** The Roomheater device TOBY H20 is arbitrarily selected unit of regular production, 1 piece.

**V. CUSTOMER:** "TERMOMONT" d.o.o, Prhovacka bb, 22310 Simanovci, R. Serbia

**VI. PURPOSE AND OBJECT OF THE TASK:** Evaluation the compliance of TOBY H20 with the requirements of BImSchV-norm and COMMISSION REGULATION (EU) 2015/1185 of 24 April 2015.

**VII. TECHNICAL FEATURES:**



Scheme of pellet fireplace TOBY H20 (general)

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

- 8.1. Working condition of the combustion device - according to the requirements for tests at nominal output according to EN 14785:2006.
- 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 № 773T1/30.07.2018 of Laboratory testing and calibration "LIPGEI" Sofia.
- 8.4. Used results from the Test Report № 82/27.06.2018 of Laboratory Termoplam Sofia.

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

#### 9.1. Emissions:

- 9.1. Dust content of exhaust gases:  $PM^* = 18 \text{ mg/Nm}^3 \leq [PM] = 20 \text{ mg/Nm}^3$ ;  
 $[PM] = 20 \text{ mg/Nm}^3$  in accordance with point 2 (a) (iii), of Annex II of the REGULATION (EU) 2015/1185.  
-  $[PM] \leq 30 \text{ mg/Nm}^3$  in accordance to BImSchV-norm (without water jacket).
- 9.2. CO of exhaust gases:  $CO^{**} = 252 \text{ mg/Nm}^3 \leq [CO] = 300 \text{ mg/Nm}^3$ ;  
-  $[CO] = 300 \text{ mg/Nm}^3$  in accordance with point 2 (c) (iii), of Annex II of the REGULATION (EU) 2015/1185.  
-  $[CO] \leq 250 \text{ mg/Nm}^3$  in accordance to BImSchV-norm.
- 9.3. OGC of exhaust gases:  $OGC^* = 50 \text{ mg/Nm}^3 \leq [OGC] = 60 \text{ mg/Nm}^3$ ;  
 $[OGC] = 60 \text{ mg/Nm}^3$  in accordance with point 2 (b) (ii), of Annex II of the REGULATION (EU) 2015/1185.
- 9.4. NO<sub>x</sub> of exhaust gases:  $NO_x^* = 112 \text{ mg/Nm}^3 \leq [NO_x] = 200 \text{ mg/Nm}^3$ .  
 $[NO_x] = 200 \text{ mg/Nm}^3$  in accordance with point 2 (d) (i), of Annex II of the REGULATION (EU) 2015/1185.

\* Results from the Test Report № 773T1/30.07.2018 of Laboratory testing and calibration "LIPGEI" Sofia.

\*\* Results from the Test Report № 82/27.06.2018 of Laboratory Termoplam Sofia.

#### 9.5. Seasonal space heating energy efficiency:

$$\eta_s = 85,6 \% > [\eta_s] = 79 \%$$

Where:

- $\eta_s = 85,6 \%$  - the seasonal space heating energy efficiency in active mode is calculated as  $\eta_{th,nom}$ .
- $\eta_{th,nom} = 90,6 \%$  is the useful efficiency at nominal heat output, based on NCV. Result from the Test Report № 82/27.06.2018 of Laboratory Termoplam, Sofia.
- $[\eta_s] \geq 79 \%$  in accordance with point 1 (a) (iii), of Annex II of the REGULATION (EU) 2015/1185.
- $[\eta_{th,nom}] \geq 90 \%$  in accordance to BImSchV-norm (with water jacket).

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

Roomheater device TOBY H20 is satisfying and fulfilling the requirements of REGULATION (EU) 2015/1185 and BImSchV-norm.

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

10.1. Assembly drawing of the sample: 1.



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.