




## Appliances properties: BRUNNER - HBO 4 / 4e / 4s / 4es

### Master data

<b>Date of entry</b>	Dec 5, 2007
<b>Manufacturer</b>	BRUNNER
<b>Model</b>	HBO 4 / 4e / 4s / 4es
<b>Nominal heat output [kW]</b>	9.5
<b>Declared nominal space heating output [kW]</b>	9
<b>Continuous burning appliance</b>	
<b>Type test standard</b>	DIN EN 13229
<b>Year of testing</b>	2006
<b>Test laboratory</b>	TÜV SÜD Industrie Service GmbH
<b>Number of test laboratory</b>	1
<b>Number of test report</b>	W-O 1084-00/06



### Flue gas values

	Wood
<b>Flue gas mass flow [g/s]</b>	12
<b>Flue gas mass flow [g/s]</b>	190
<b>Necessary flue draught [Pa]</b>	12

### Further important characteristics of the appliance

**Suitability for installation to a shared flue<sup>1)</sup>**



**Connectivity to the central heating system**



**General technical approval for room sealed operation**



<sup>1)</sup> For unsealed operation it is possible to install the appliances to a shared flue system (please see installation manual).

On behalf of the manufacturer, the HKI Industrieverband e.V. hereby confirms compliance with the respective requirements\* in accordance with 1.BImSchV. The type test report of the fireplace has been submitted to the HKI Industrieverband e.V.

\* A green check mark with a „1“ indicates that the requirements of the 1st BImSchV are fulfilled, a green check mark with a „2“ indicates that the 2nd level of the 1st BImSchV is fulfilled. A yellow check mark shows that the transitional regulation of the 1st BImSchV is fulfilled and a red line means that the 1st BImSchV is not fulfilled.

Evaluation of emission data and efficiency Wood

Norm : Inset appliance with flat-layer firing

Evaluation

D - 1.BImSchV

  
Stufe 1  
Grandfathering

A - Austrian regulation referred to Art 15a B-VG



CH - Swiss clean air act



F - Crédit d'impôt à la transition énergétique



Evaluation of emission data and efficiency Lignite briquettes

Norm : Inset appliance with flat-layer firing

Evaluation

D - 1.BImSchV

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According to the transitional rule §26 the appliance can be used until 31.12.2024

## Emission evaluation legend

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-  Stufe 2 Compliant with the requirements of the 2nd stage of the 1.BImSchV (only for Germany)
-  Stufe 1 Compliant with the requirements of the 1st stage of the 1.BImSchV (only for Germany)
-  2015 Compliant with the requirements of the Austrian Agreement pursuant to Art. 15a B-VG from 2015 (applies only to Austria)
-  7★ Compliant with the requirements for the „Crédit d'impôt“ promotion in France, the fireplace complies with the classification 7\* of the Flamme Verte Label
-  6★ Compliant with the requirements for the „Crédit d'impôt“ promotion in France, the fireplace complies with the classification 6\* of the Flamme Verte Label
-  5★ Compliant with the requirements for the „Crédit d'impôt“ promotion in France, the fireplace complies with the classification 5\* of the Flamme Verte Label
-  ★ Compliant with the requirements of the 1 star stage in Italy.
-  ★★ Compliant with the requirements of the 2 star stage in Italy.
-  ★★★ Compliant with the requirements of the 3 star stage in Italy.
-  ★★★★ Compliant with the requirements of the 4 star stage in Italy.
-  ★★★★★ Compliant with the requirements of the 5 star stage in Italy.
-  Fulfils the requirements
-  Complies with requirements of the transition ruling (1.BImSchV)
-  Requirements are not fulfilled
-  No information/unknown
-  No measuring values are available for this fuel, operation with this fuel is not permitted

No symbol means that there are no requirements.

Here you will find further information