### OPERATION WHEN DIRECTLY CONNECTED TO CHIMNEY

<table>
<thead>
<tr>
<th>Tested according to</th>
<th>Cupola</th>
<th>Hot air exchanger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal heat power</td>
<td>7 kW</td>
<td>10 kW</td>
</tr>
<tr>
<td>Efficiency</td>
<td>&gt; 80 %</td>
<td>&gt; 80 %</td>
</tr>
<tr>
<td>Consumption of wood</td>
<td>2.2 kg/h</td>
<td>3 kg/h</td>
</tr>
<tr>
<td>Mass flow of flue gas</td>
<td>6.4 g/s</td>
<td>9.6 g/s</td>
</tr>
</tbody>
</table>

**Average flue gas temperature**
- on the output:
  - Cupola: 254 °C
  - Hot air exchanger: 269 °C

**Heat distribution**
- fireplace insert: 64–75 %
- door glass (single / double): 36 / 25 %
- Required chimney pressure: 12 Pa
- Required amount of combustion air: 30 m³/h
- Minimum supply air grating cross-section: 650 cm²
- Minimum outgoing air grating cross-section: 800 cm²

### OPERATION WITH CONNECTED ACCUMULATION MASS

<table>
<thead>
<tr>
<th>Load of wood</th>
<th>Cupola</th>
<th>Adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total heat output of the burning chamber</td>
<td>19 kW</td>
<td>19 kW</td>
</tr>
<tr>
<td>Mass flow of flue gas</td>
<td>15 g/s</td>
<td>15 g/s</td>
</tr>
<tr>
<td>Average flue gas temperature</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  - on the output:
    - Cupola: 394 °C
    - Adaptor: 404 °C
  - past 3.2 m of ceramic accumulation system KMS 300: 178 °C
  - past HOXTER accumulation set: 235 °C

**Heat distribution**
- fireplace insert: 36 %
- door glass (single / double): 36 / 25 %
- adjoining accumulation mass: 29–39 %
- Required chimney pressure: 12 Pa
- Minimum radiant area: ca. 4.5 m²
- Required amount of combustion air: 50 m³/h

### GENERAL TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Combustion air connection</th>
<th>Ø 125 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total weight / lining weight</td>
<td>ca. 186 / 67 kg</td>
</tr>
<tr>
<td>Use in non-ventilated accumulation builds according to craft rules</td>
<td>suitable</td>
</tr>
<tr>
<td>Meets values</td>
<td>BlmSchV (Stufe2), 15a BVG</td>
</tr>
</tbody>
</table>

1) The Hoxter products are available in the Austrian stove-calculation program for evaluation of firebrick accumulation systems.
2) Only a sample calculation! For accurate results is evaluation of each system in the KMS-calculation program from the Ortner company necessary.
3) Depends on accumulation period and material characteristics and its thickness. Calculated with heat emission of the radiant area ca. 500 W/m².hr
ECKA 51/51/51R

WITH CUPOLA

Technical data
Version 01/2018

M 1 : 10

Dimensions:
- Height: 1730 mm
- Width: 1250 mm
- Depth: 500 mm

Dimensions:
- Height: 173 mm
- Width: 125 mm
- Depth: 50 mm

Specifications:
- Ø180
- Ø125

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ECKA 51/51/51R
BUILD-ON FRAME 6-SIDED, 80 mm
ECKA 51/51/51R
COVER FRAME 6-SIDED, 60 mm

Technical data
Version 01/2018

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