

## Technical data

|  | operation when connected accumulation mass |         |                           |                      |                      |
|--|--|---------|---------------------------|----------------------|----------------------|
|  | Certified values                           |         | Operating values          |                      |                      |
|  | cupola                                     | adaptor | side output / cupola      | side output / cupola | adaptor              |
| Energy label   | A+   |         | ----                      | ----                 | ----                 |
| <b>Operating data</b>  |  |         |                           |                      |                      |
| Nominal heat power   | 12 kW                                      |         | ----                      | ----                 | ----                 |
| Efficiency   | >85 %                                      |         | ----                      | ----                 | ----                 |
| Consumption of wood  | 3,3 kg/h                                   |         | 5 kg                      | 10 kg                | 5 kg                 |
| Total heat output of the burning chamber <sup>6</sup>                              | ----                                       |         | 20 kW                     | 40 kW                | 20 kW                |
| Average heat output / heat accumulation time <sup>5</sup>                          | ----                                       |         | 2 kW / 8 h                | 2,7 kW / 12 h        | 2 kW / 8 h           |
| Mass flow of flue gas  | 12 g/s                                     |         | 14 g/s                    | 25 g/s               | 14 g/s               |
| Required chimney pressure  | 12 Pa                                      | 15 Pa   | 15 Pa                     | 15 Pa                | 16 Pa                |
| Required amount of combustion air  | 30 m <sup>3</sup> /h                       |         | 45 m <sup>3</sup> /h      | 85 m <sup>3</sup> /h | 45 m <sup>3</sup> /h |
| <b>Average flue gas temperature</b>  |  |         |                           |                      |                      |
| on the output (in front of accumulation mass)                                      | 318 °C                                     | 315 °C  | 414 / 359 °C              | 602 / 540 °C         | 425 °C               |
| behind 2,1 m of ceramic accumulation set KMS 300                                   | 161 °C                                     | ----    | ----                      | ----                 | ----                 |
| behind accumulation rings (6x acc. ring Ø440mm)                                    | ----                                       | 196 °C  | ----                      | ----                 | ----                 |
| behind 3,5 m of ceramic accumulation system KMS 300 <sup>1</sup>                   | ----                                       | ----    | 186 °C / –                | ----                 | ----                 |
| behind 5 m of ceramic accumulation system KMS 300 <sup>1</sup>                     | ----                                       | ----    | ----                      | 174 °C / –           | ----                 |
| behind accumulation rings (8x acc. ring Ø440mm)                                    | ----                                       | ----    | ----                      | ----                 | 260 °C               |
| <b>Heat distribution</b>   |  |         |                           |                      |                      |
| heating insert   |  |         | 30-40 %                   |                      |                      |
| door glass (single / double)   |  |         | 15 %                      |                      |                      |
| additional accumulation mass   |  |         | 45-55 %                   |                      |                      |
| <b>Information for ventilated builds</b>   |  |         |                           |                      |                      |
| Minimal grill area supply / outgoing   |  |         | 700 / 850 cm <sup>2</sup> |                      |                      |
| Minimum distance from insulated areas / floor                                      |  |         | 80 / 0 mm                 |                      |                      |
| Reference insulation <sup>2</sup><br>ceiling / back wall / side wall / floor       |  |         | 120 / 80 / 80 / 0 mm      |                      |                      |
| Calciumsilicate insulation <sup>3</sup><br>ceiling / back wall / side wall / floor |  |         | 90 / 60 / 60 / 0 mm       |                      |                      |
| <b>Information for non-ventilated builds (closed grills)</b>                       |  |         |                           |                      |                      |
| Minimum radiant area <sup>4</sup>  | suitable                                   |         | 5,5 m <sup>2</sup>        |                      |                      |
| Minimum distance from insulated areas / floor                                      | 80 / 20 mm                                 |         | 80 / 20 mm                |                      |                      |
| Reference insulation <sup>2</sup><br>ceiling / back wall / side wall / floor       | 160 / 100 / 100 / 20 mm                    |         | 160 / 100 / 100 / 20 mm   |                      |                      |
| Calciumsilicate insulation <sup>3</sup><br>ceiling / back wall / side wall / floor | 120 / 75 / 75 / 20 mm                      |         | 120 / 75 / 75 / 20 mm     |                      |                      |
| <b>General technical information</b>   |  |         |                           |                      |                      |
| Total weight / lining weight   |  |         | circa 204 / 96 kg         |                      |                      |
| Burning chamber dimensions (width x depth)   |  |         | 305 x 365 mm              |                      |                      |
| Combustion air connection  |  |         | Ø 150 mm                  |                      |                      |
| Use in non-ventilated accumulation builds according to craft rules                 | suitable <sup>4</sup>                      |         | ----                      |                      |                      |
| Tested according to  | EN 13229                                   |         | ----                      |                      |                      |
| Meets values   | 1. BImSchV (Stufe2), 15a BvG               |         | ----                      |                      |                      |

1 Listed value from testing. For accurate results is evaluation of each system in the Ortner / KOV program necessary

2 Mineral wool according to AGI-Q 132

3 Example SkamoEnclosure Board 225 kg/m<sup>3</sup>

4 Depends on accumulation period and material characteristics. Listed values calculated with average specific heat output = approx. 500 W/m<sup>2</sup>

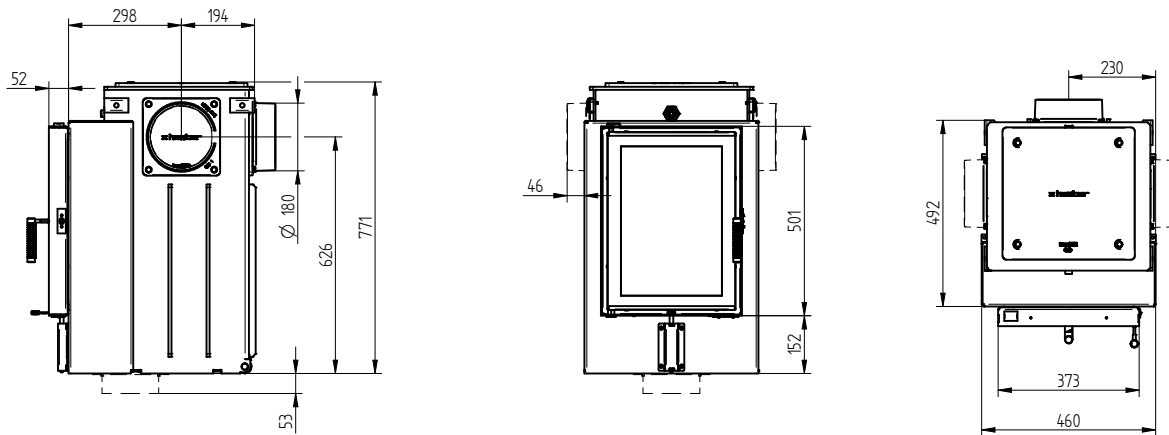
5 Storage operation, one wood charge for storage duration, with closed construction and efficiency > 80%

6 With maximum possible fuel quantity wood 4 kWh/kg, without consideration of efficiency losses

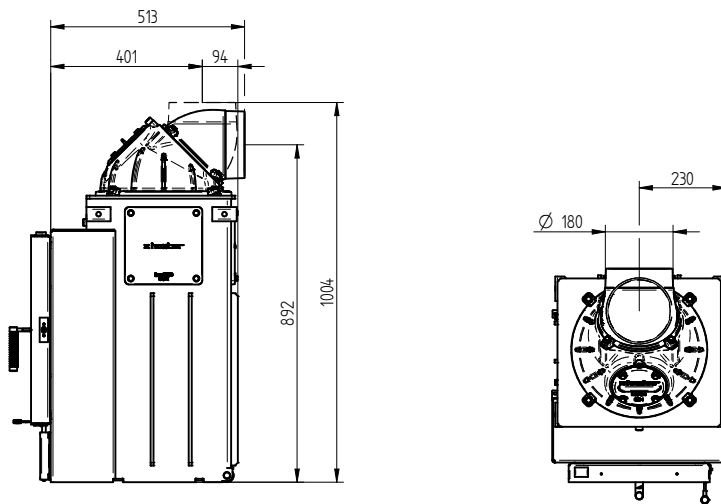
# HE 37/50

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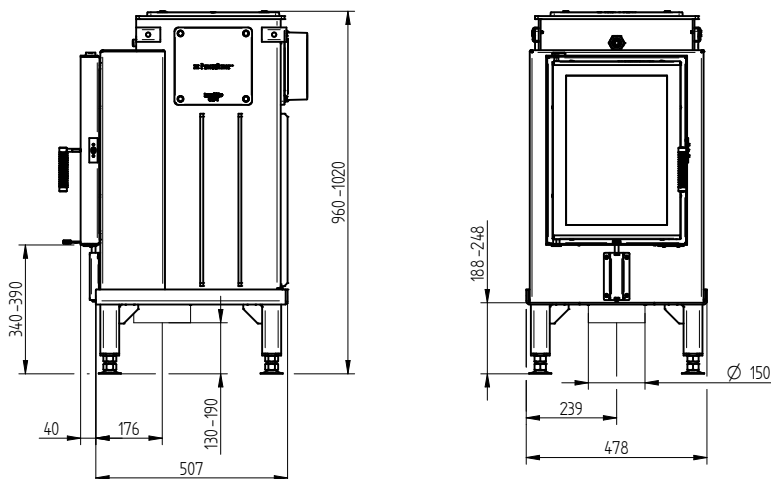
## HE 37/50 smoke outlet



## HE 37/50 cupola $\varnothing 180$ with opening for cleaning



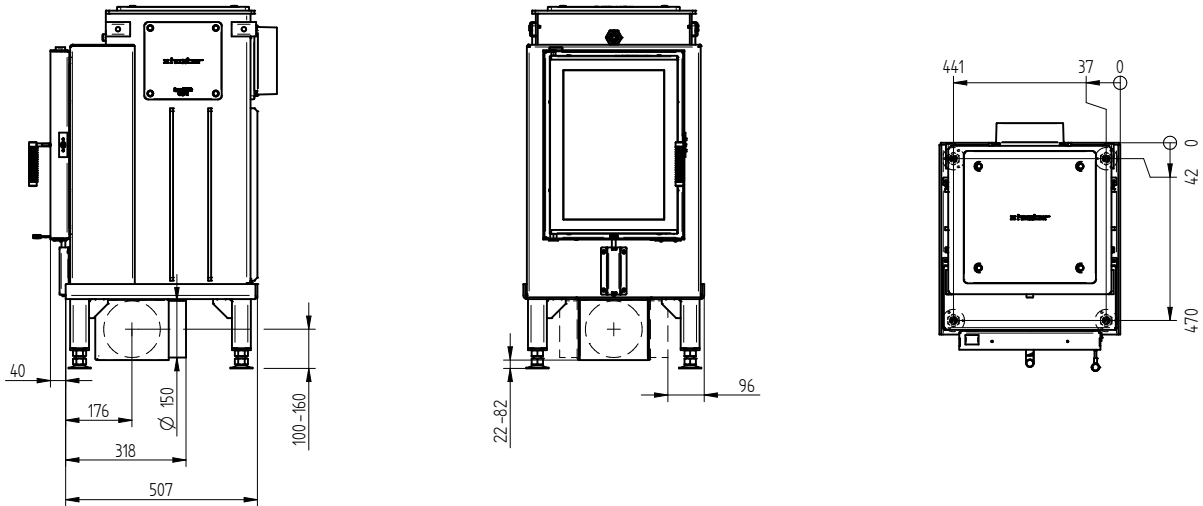
## HE 37/50 support frame / vertical air inlet adaptor



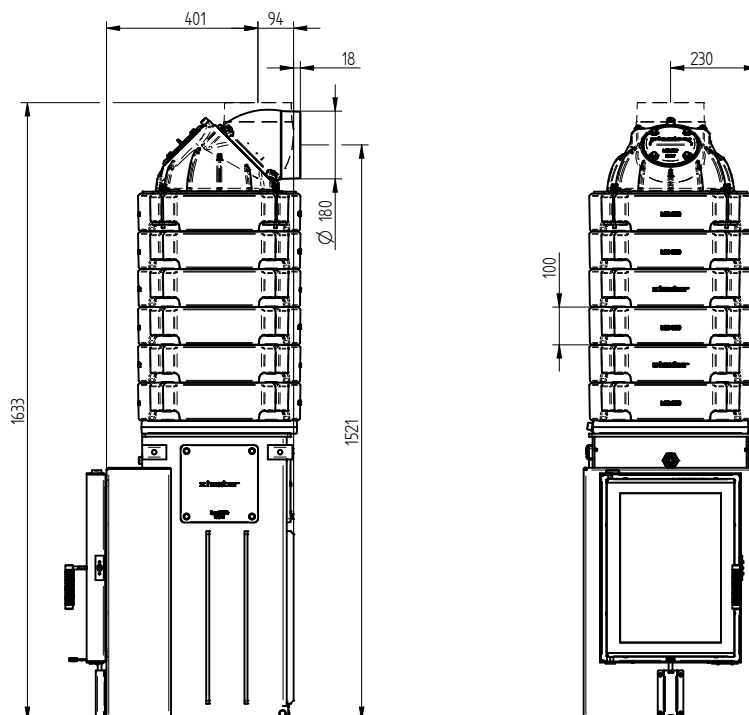
# HE 37/50

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## HE 37/50 support frame / horizontal air inlet adaptor / feet



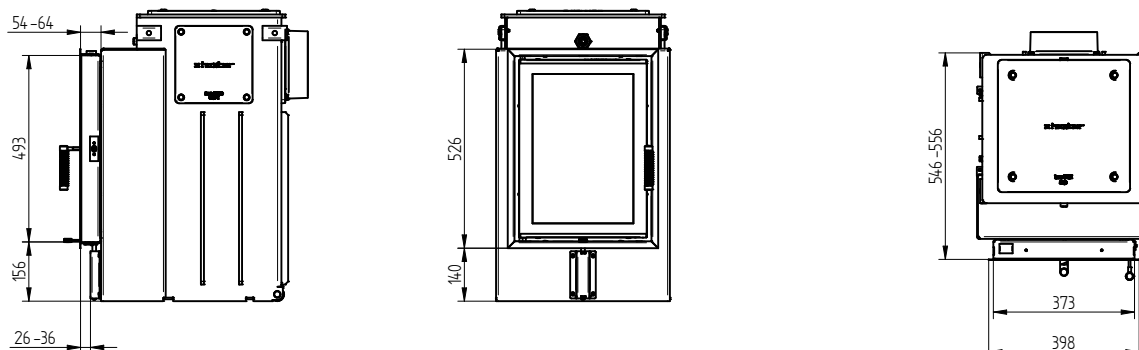
## HE 37/50 accumulation set



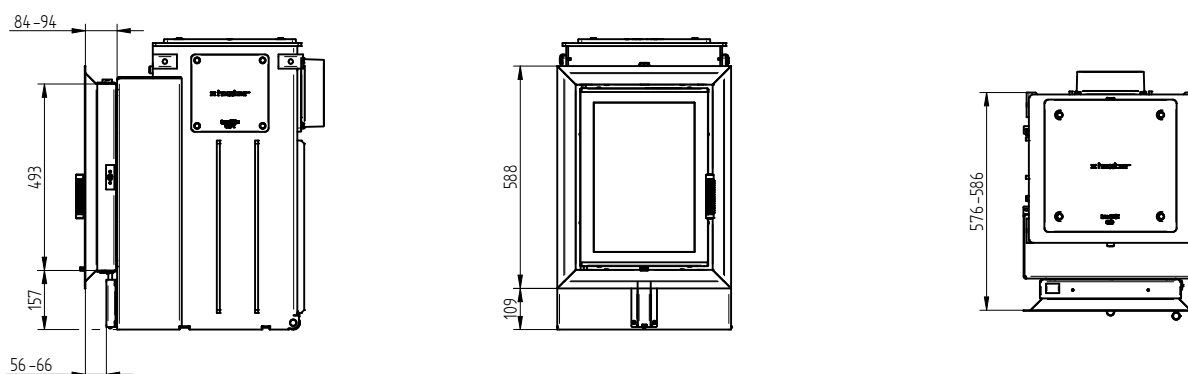
# HE 37/50

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## Cover frame HE 37/50 side opening 4sides 50 mm 1 x 90°



## Cover frame HE 37/50 side opening 4sides 80 mm 2 x 45°



## Front panel HE 37/50 - 830 x 480 mm

