

|                                                                                    | operation when directly<br>connected to chimney | operation when connected<br>accumulation mass |
|------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|
| Energy label                                                                       | <b>A</b>                                        | <b>A</b>                                      |
| <b>Operating data</b>                                                              |                                                 |                                               |
| Nominal heat power                                                                 | 13,5 kW                                         | ----                                          |
| Efficiency                                                                         | > 80 %                                          | ----                                          |
| Consumption of wood                                                                | 3,8 kg/h                                        | 5,5 kg                                        |
| Total heat output of the burning chamber                                           | ----                                            | 22 kW                                         |
| Mass flow of flue gas                                                              | 11,6 g/s                                        | 20 g/s                                        |
| Required chimney pressure                                                          | 12 Pa                                           | 12 Pa                                         |
| Required amount of combustion air                                                  | 40 m³/h                                         | 60 m³/h                                       |
| <b>Average flue gas temperature</b>                                                |                                                 |                                               |
| on the output                                                                      | 302 °C                                          | 376 °C                                        |
| past 3 m of ceramic accumulation system KMS 300 <sup>1</sup>                       | ----                                            | 197 °C                                        |
| <b>Heat distribution</b>                                                           |                                                 |                                               |
| fireplace insert                                                                   | 63–78 %                                         | 45 %                                          |
| door glass (single / double)                                                       | 37 / 22 %                                       | 37 / 22 %                                     |
| adjoining accumulation mass                                                        | ----                                            | 18–33 %                                       |
| <b>Information for ventilated builds</b>                                           |                                                 |                                               |
| Minimal grill area supply / outgoing                                               | 1200 / 1400 cm²                                 | 1200 / 1400 cm²                               |
| Minimum distance from insulated areas / floor                                      | 80 / 0 mm                                       | 80 / 0 mm                                     |
| Reference insulation <sup>2</sup><br>ceiling / back wall / side wall / floor       | 120 / 80 / 80 / 0 mm                            | 120 / 80 / 80 / 0 mm                          |
| Calciumsilicate insulation <sup>3</sup><br>ceiling / back wall / side wall / floor | 90 / 60 / 60 / 0 mm                             | 90 / 60 / 60 / 0 mm                           |
| <b>Information for non-ventilated builds (closed grills)</b>                       |                                                 |                                               |
| Minimum radiant area <sup>4</sup>                                                  | 4,5 m²                                          | 5 m²                                          |
| 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                                                       | ca. 421 / 137 kg                                | ca. 421 / 137 kg                              |
| Burning chamber dimensions (width x depth)                                         | 1010 x 315 mm                                   |                                               |
| Combustion air connection                                                          | Ø 150 mm                                        |                                               |
| Use in non-ventilated accumulation builds<br>according to craft rules              | suitable                                        |                                               |
| Tested according to                                                                | EN 13229                                        |                                               |
| Meets values                                                                       | BlmSchV (Stufe2), 15a BVG, NS 3059              |                                               |

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

<sup>2</sup> Mineral wool according to AGI-Q 132

<sup>3</sup> Example SkamoEnclosure Board 225 kg/m³

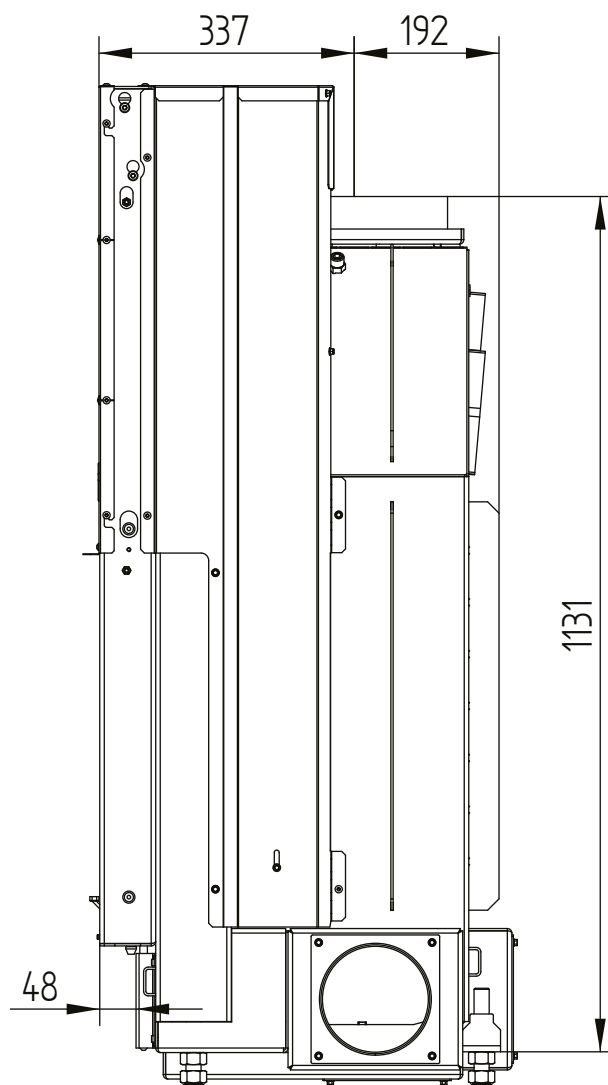
<sup>4</sup> Depends on accumulation period and material characteristics. Listed values calculated with chamotte stone thickness 30 mm with radiant area 500 W/m²

# HAKA 110/51

Technical data  
Version 2019/08

liftdoor

M 1:10

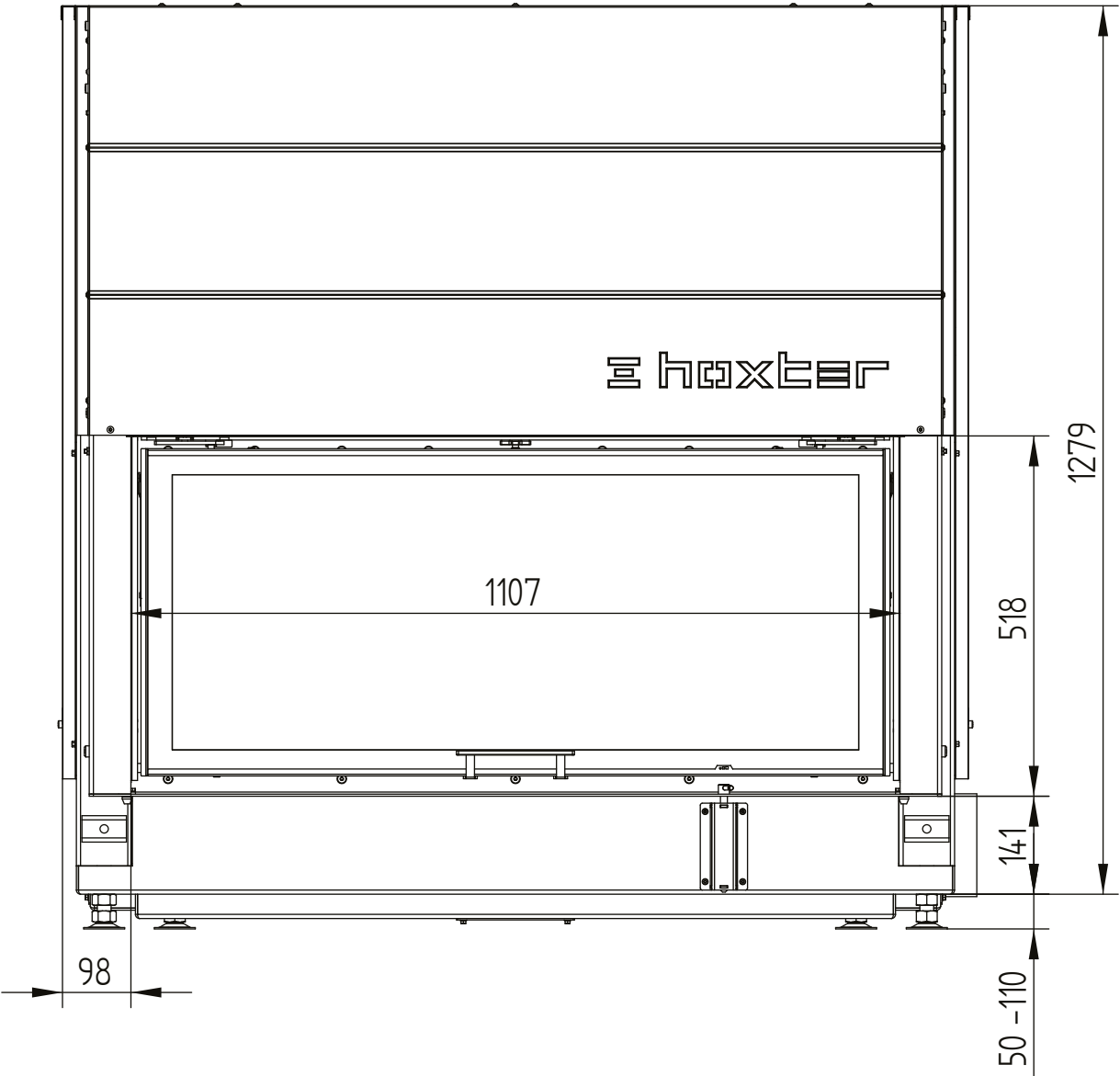


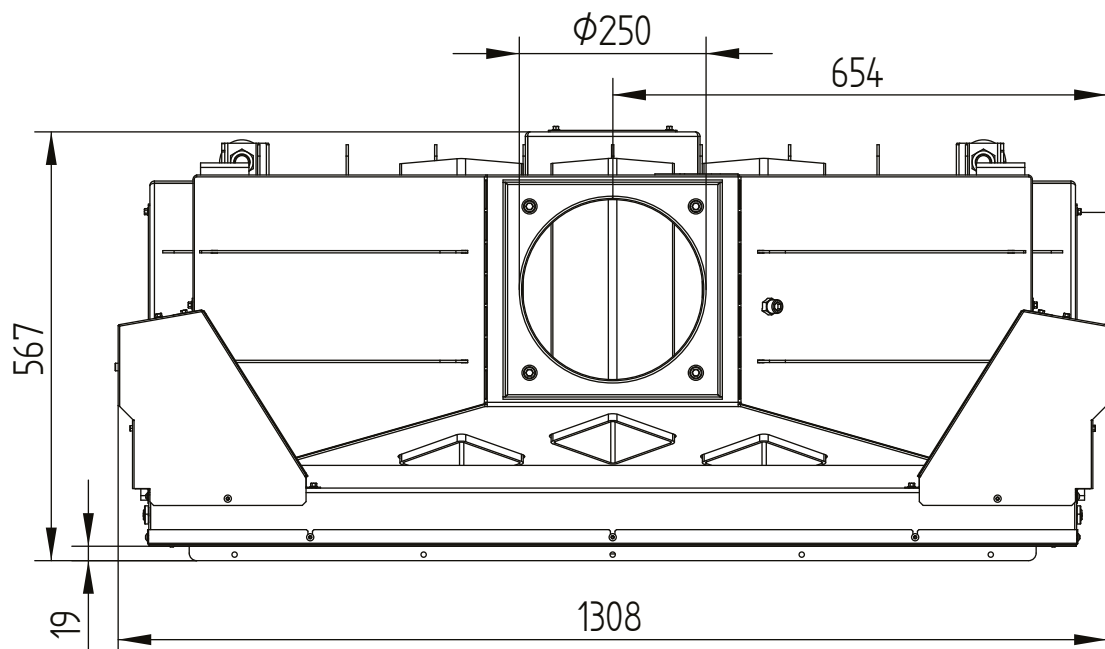
# HAKA 110/51

Technical data  
Version 2019/08

liftdoor

M 1:10



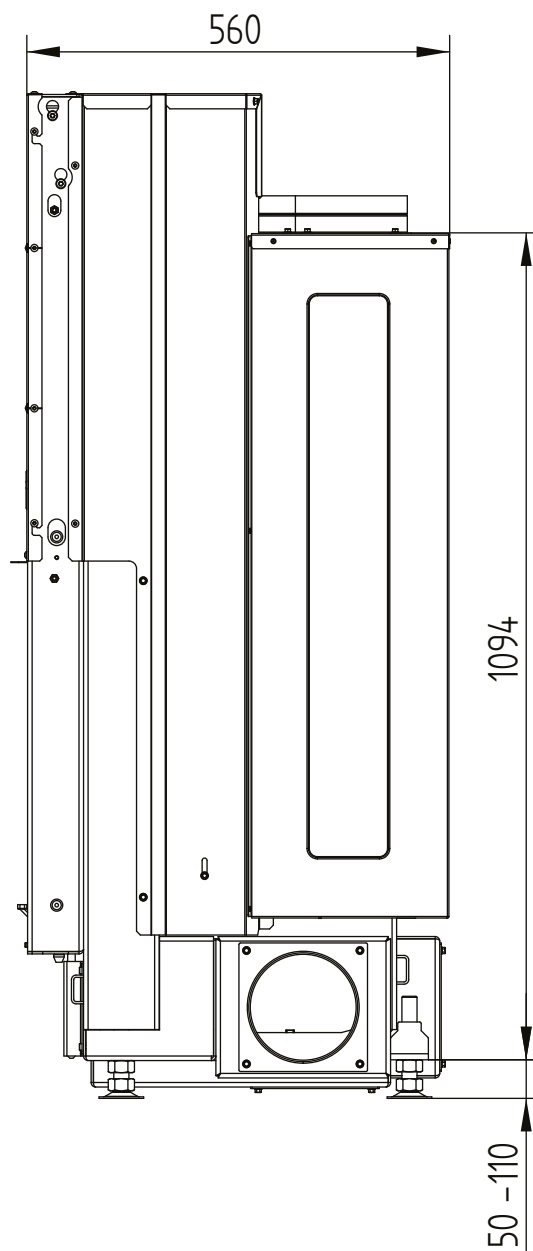


# HAKA 110/51

Technical data  
Version 2019/08

convection jacket HAKA 110/51h liftdoor

M 1:10

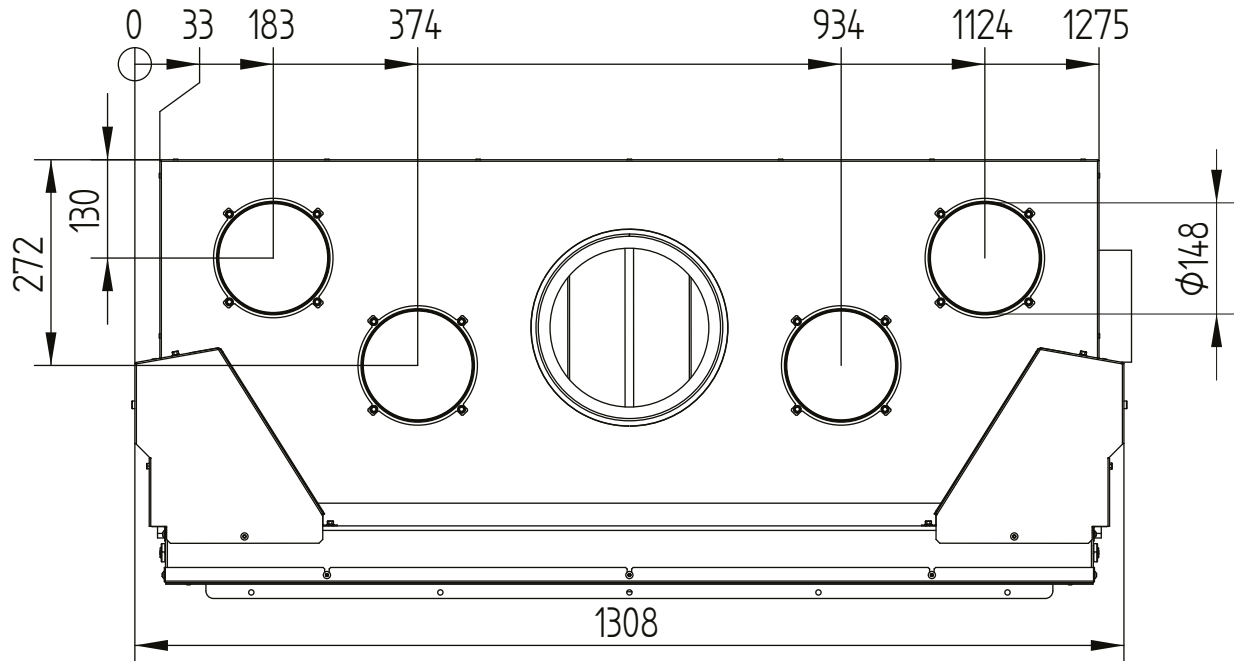


# HAKA 110/51

Technical data  
Version 2019/08

convection jacket HAKA 110/51h liftdoor

M 1:10

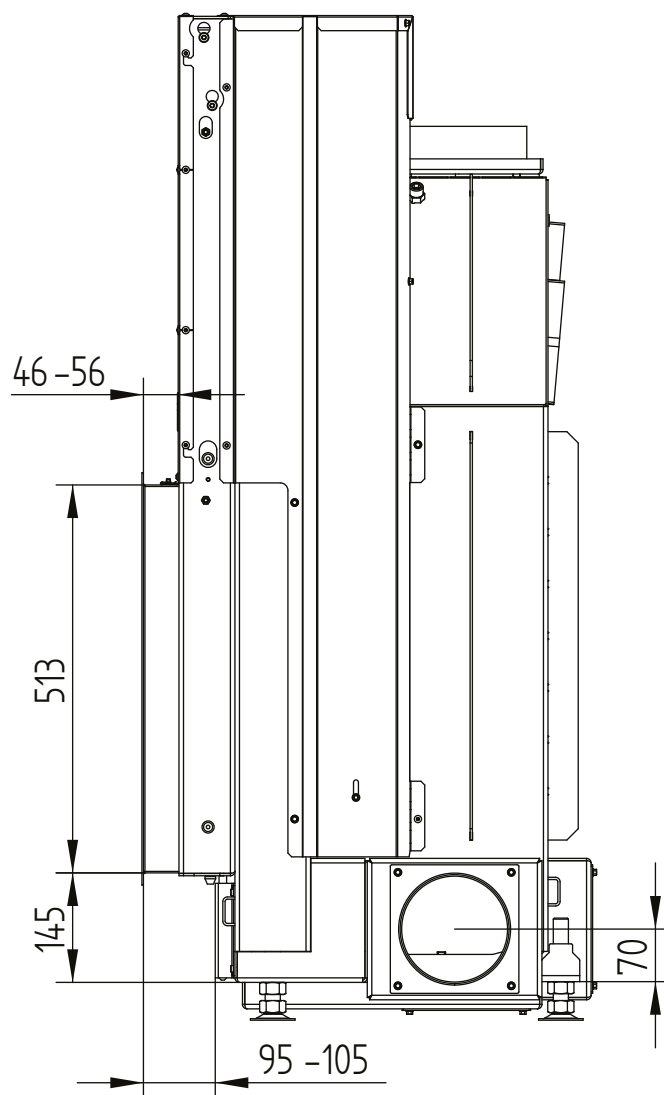


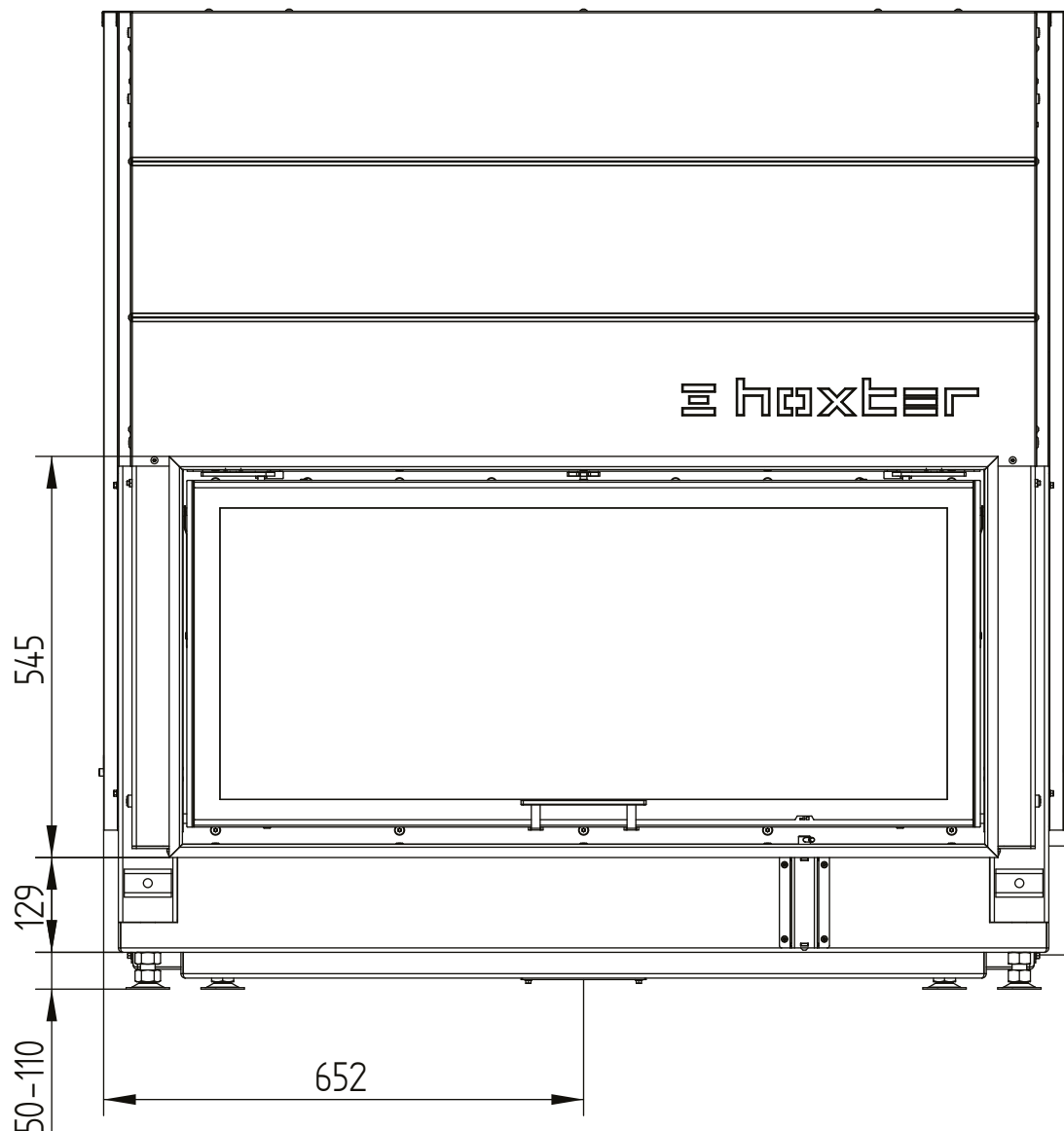
# HAKA 110/51

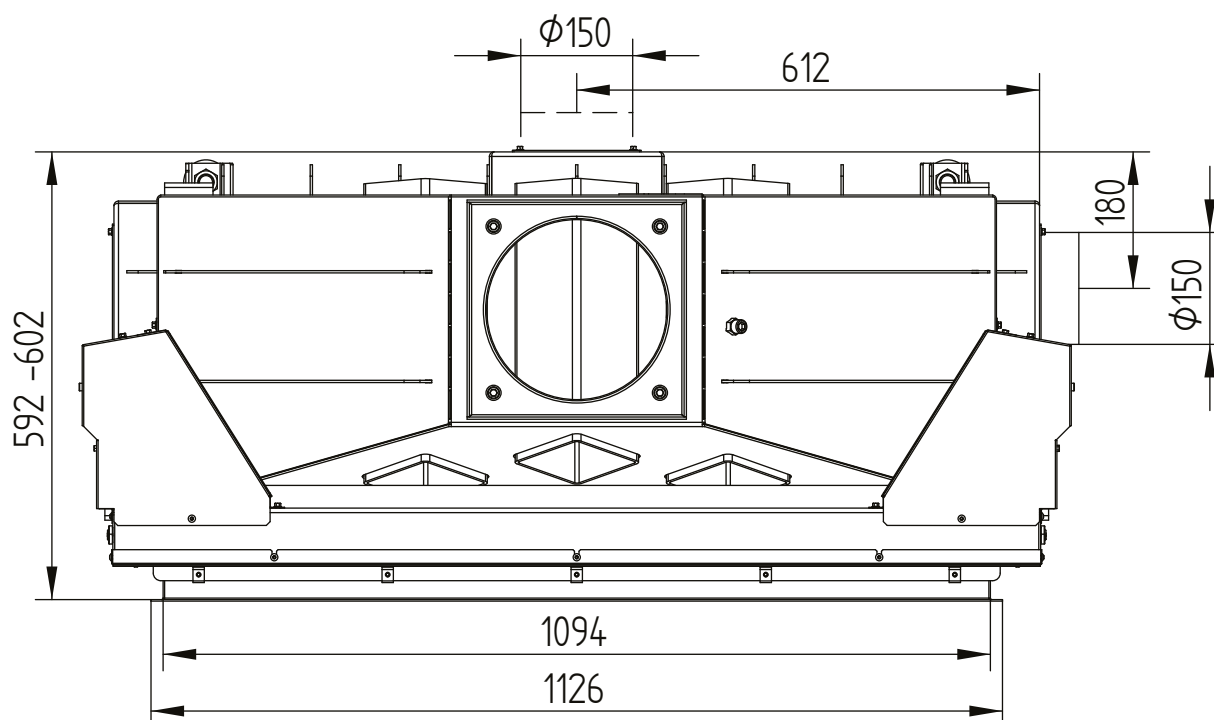
Technical data  
Version 2019/08

cover frame 110/51h liftdoor 4sides 50 mm 1 x 90° / air intake

M 1:10





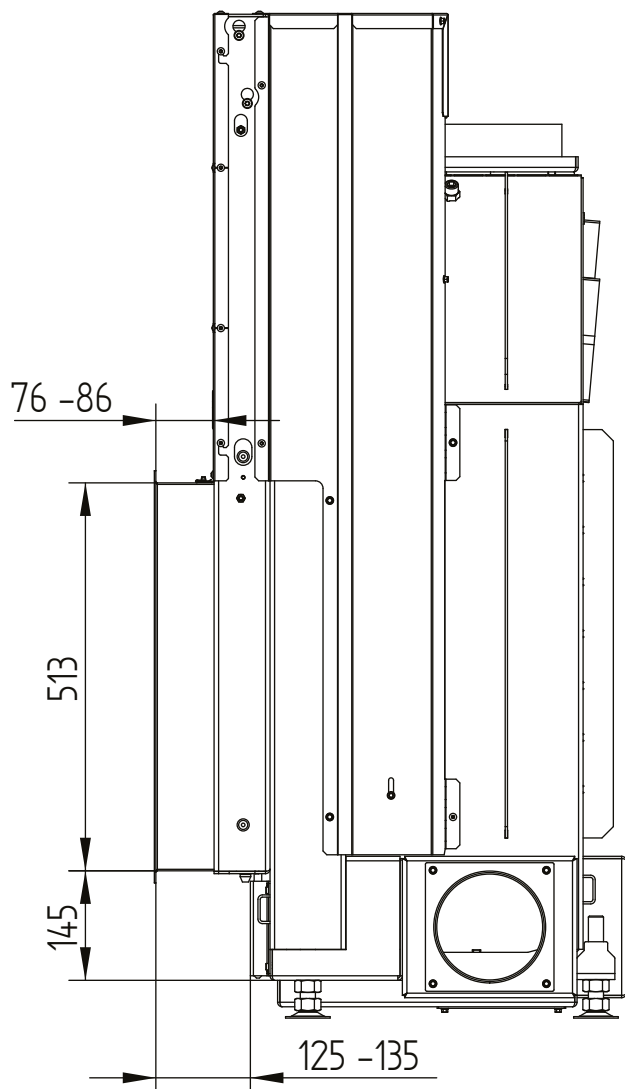


# HAKA 110/51

Technical data  
Version 2019/08

cover frame 110/51h liftdoor 4sides 80 mm 1 x 90°

M 1:10

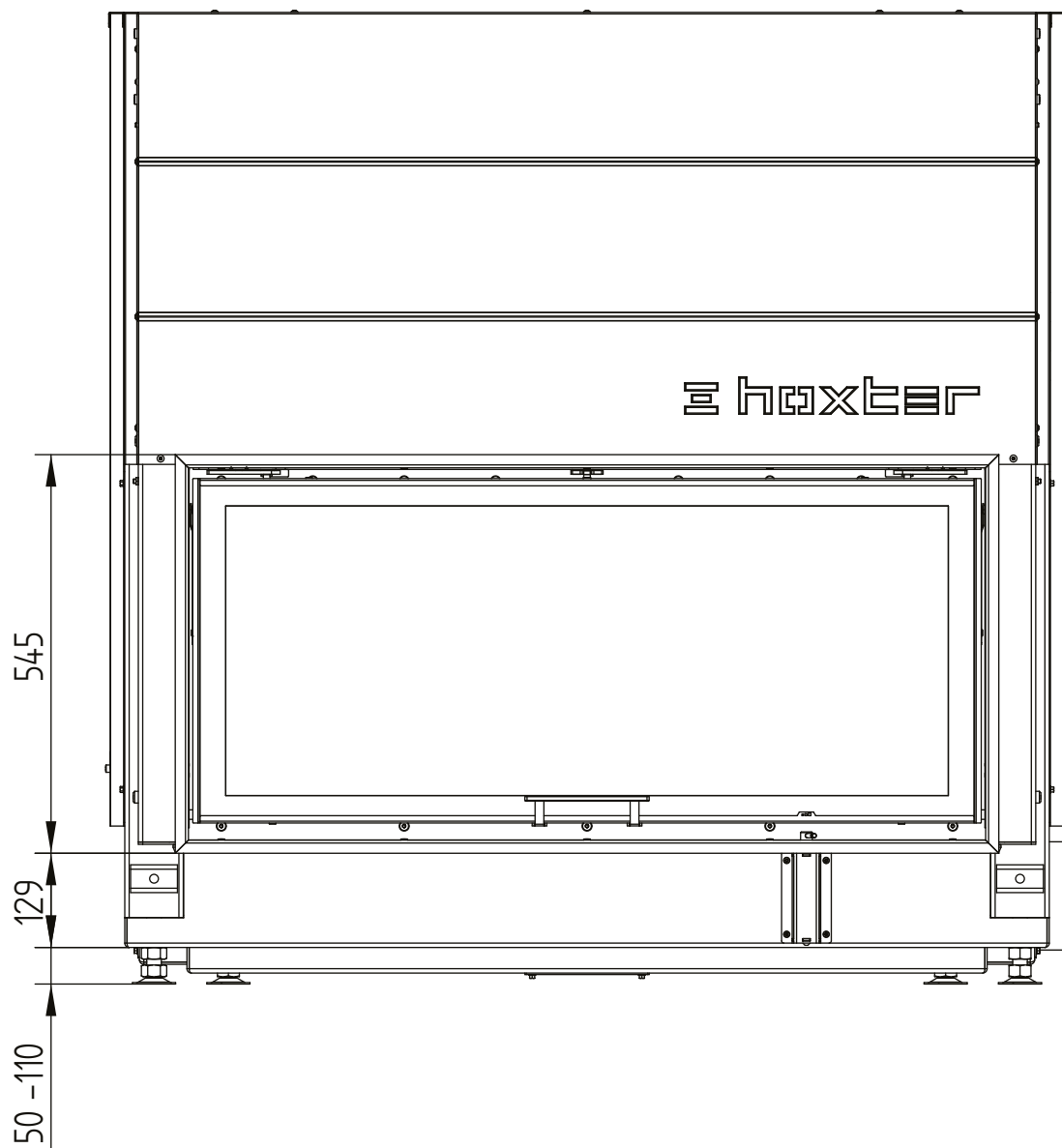


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Technical data  
Version 2019/08

cover frame 110/51h liftdoor 4sides 80 mm 1 x 90°

M 1:10

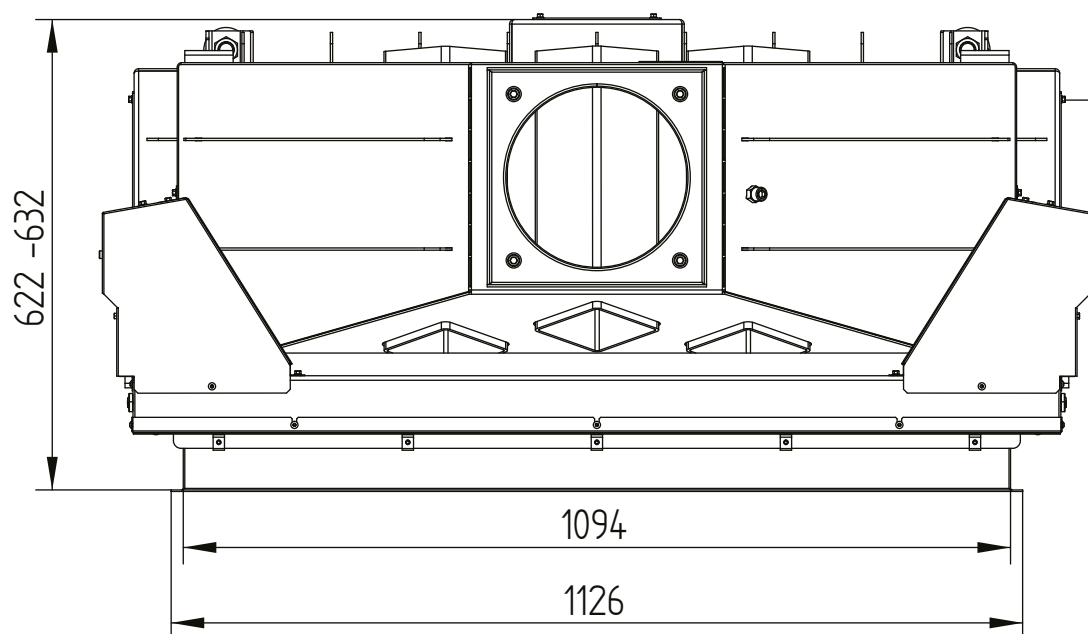


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Technical data  
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cover frame 110/51h liftdoor 4sides 80 mm 1 x 90°

M 1:10

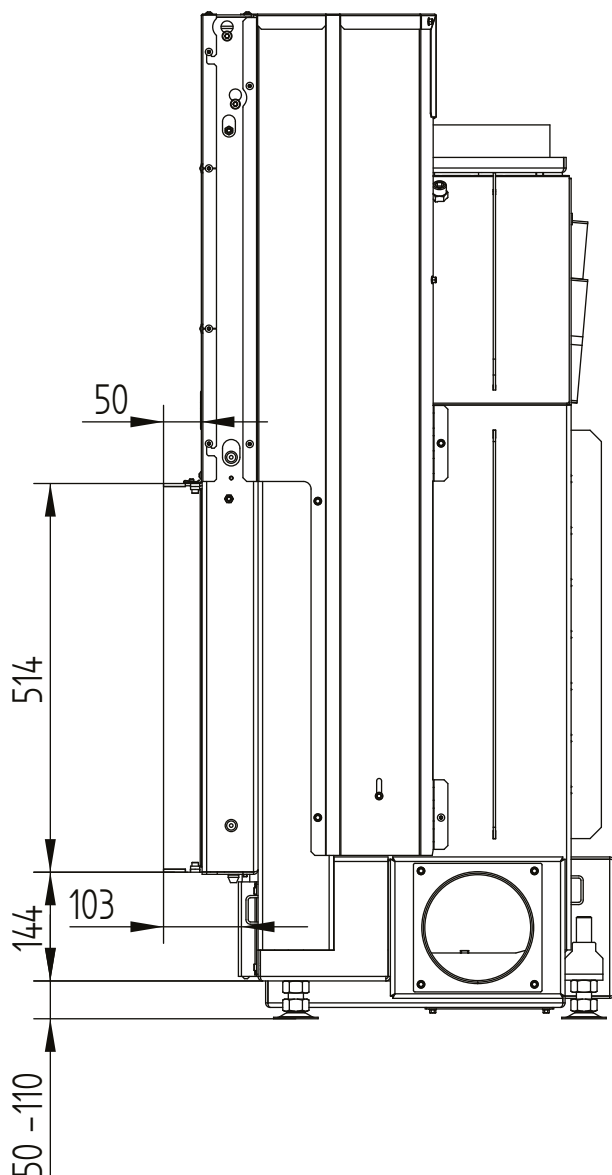


# HAKA 110/51

Technical data  
Version 2019/08

build-on frame 110/51h liftdoor 4sides 50 mm / feet

M 1:10

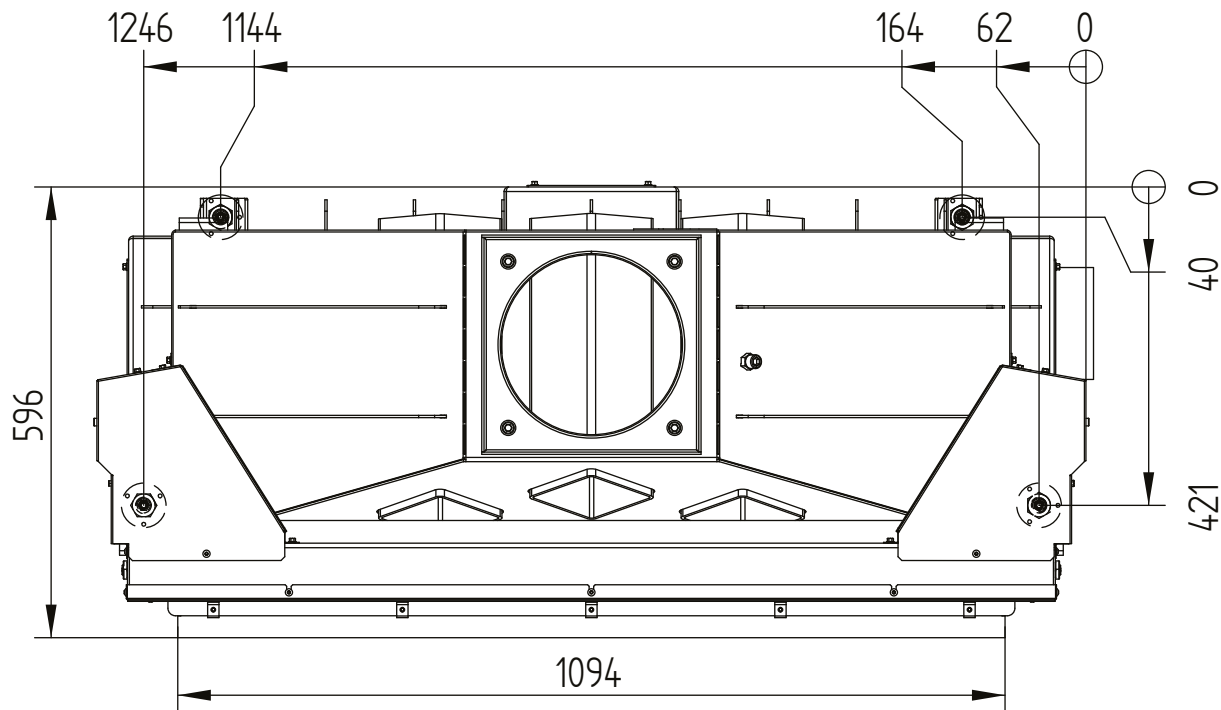


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Technical data  
Version 2019/08

build-on frame 110/51h liftdoor 4sides 50 mm / feet

M 1:10

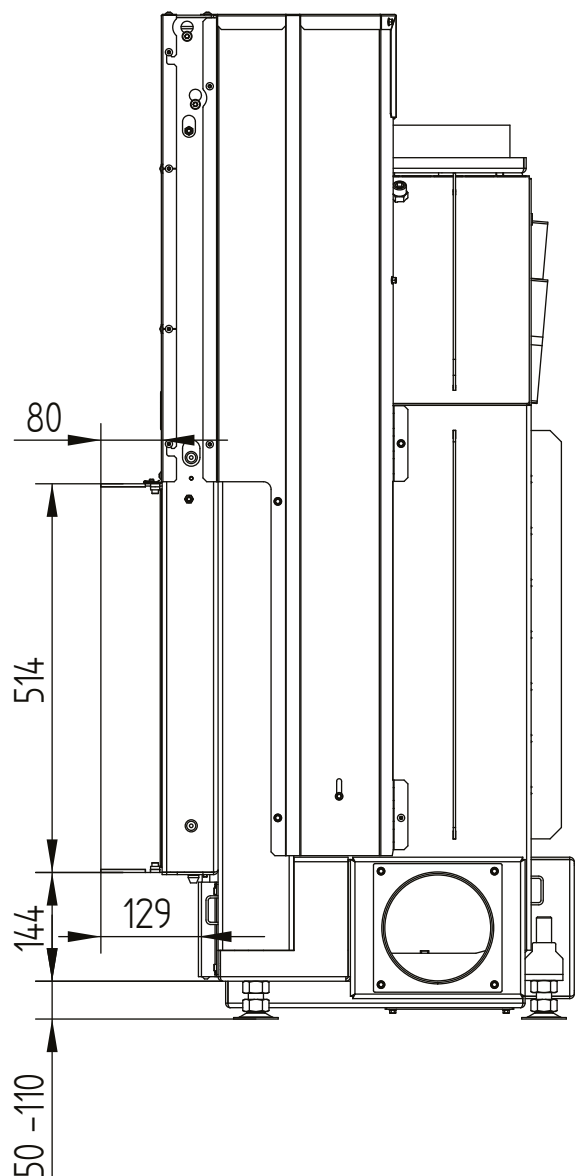


# HAKA 110/51

Technical data  
Version 2019/08

build-on frame 110/51h liftdoor 4sides 80 mm

M 1:10

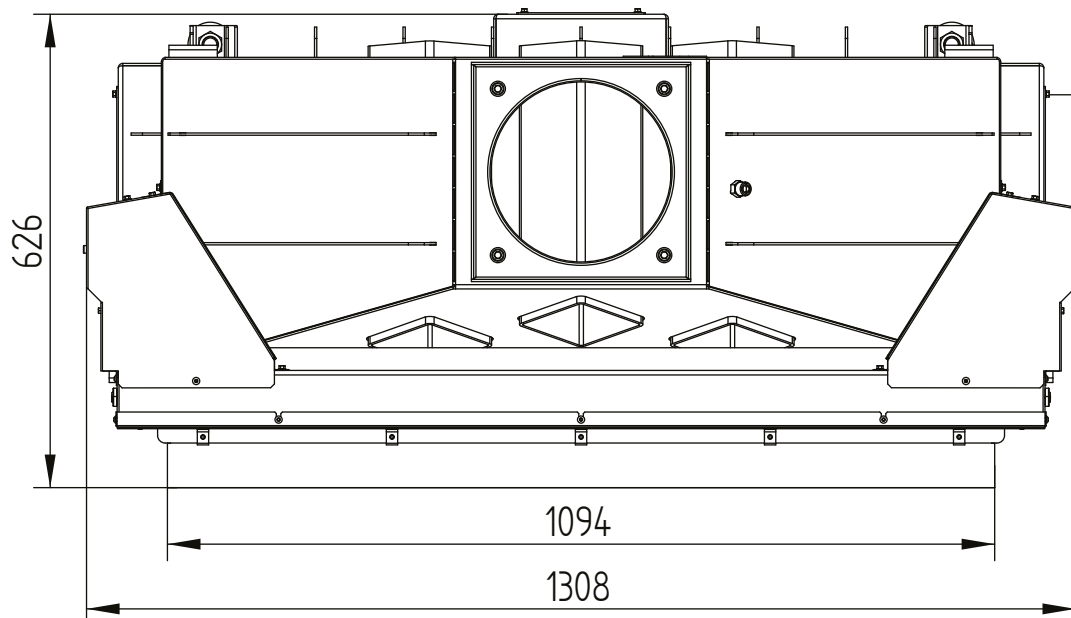


# HAKA 110/51

Technical data  
Version 2019/08

build-on frame 110/51h liftdoor 4sides 80 mm

M 1:10

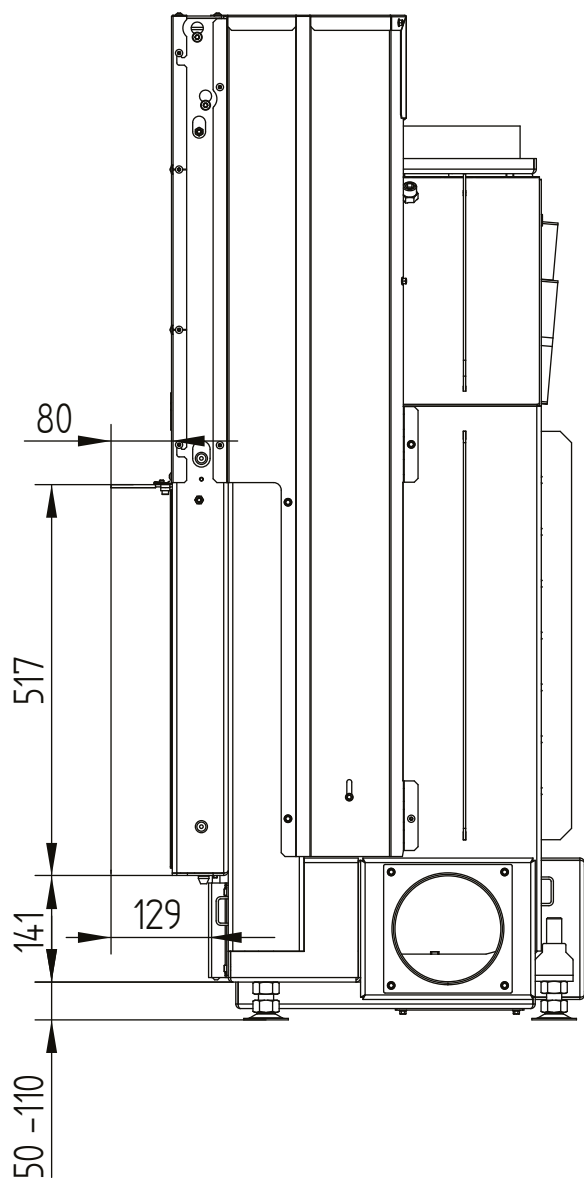


# HAKA 110/51

Technical data  
Version 2019/08

build-on frame 110/51h liftdoor 3sides 80 mm

M 1:10



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build-on frame 110/51h liftdoor 3sides 80 mm

M 1:10

