

Technical data

Technical data	operation when connected accumulation mass				
	Certified values		Operating values		
	cupola	adaptor	side output / cupola	side output / cupola	adaptor
Energy label			----	----	----
Operating data					
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 ⁶	----		20 kW	40 kW	20 kW
Average heat output / heat accumulation time ⁵	----		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 m³/h		45 m³/h	85 m³/h	45 m³/h
Average flue gas temperature					
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 ¹	----	----	186 °C / –	----	----
behind 5 m of ceramic accumulation system KMS 300 ¹	----	----	----	174 °C / –	----
behind accumulation rings (8x acc. ring Ø440mm)	----	----	----	----	260 °C
Heat distribution					
heating insert	30-40 %				
door glass (single / double)	15 %				
additional accumulation mass	45-55 %				
Information for ventilated builds					
Minimal grill area supply / outgoing	700 cm²				
Minimum distance from insulated areas / floor	80 / 0 mm				
Reference insulation ² ceiling / back wall / side wall / floor	120 / 80 / 80 / 0 mm				
Calciumsilicate insulation ³ ceiling / back wall / side wall / floor	90 / 60 / 60 / 0 mm				
Information for non-ventilated builds (closed grills)					
Minimum radiant area ⁴	suitable		5,5 m²		
Minimum distance from insulated areas / floor	80 / 20 mm		80 / 20 mm		
Reference insulation ² ceiling / back wall / side wall / floor	160 / 100 / 100 / 20 mm		160 / 100 / 100 / 20 mm		
Calciumsilicate insulation ³ ceiling / back wall / side wall / floor	120 / 75 / 75 / 20 mm		120 / 75 / 75 / 20 mm		
General technical information					
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 ⁴		----		
Tested according to	EN 16510-1 ed. 2:2023, EN 16510-2-2:2022		----		
Meets values	1. BlmSchV (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

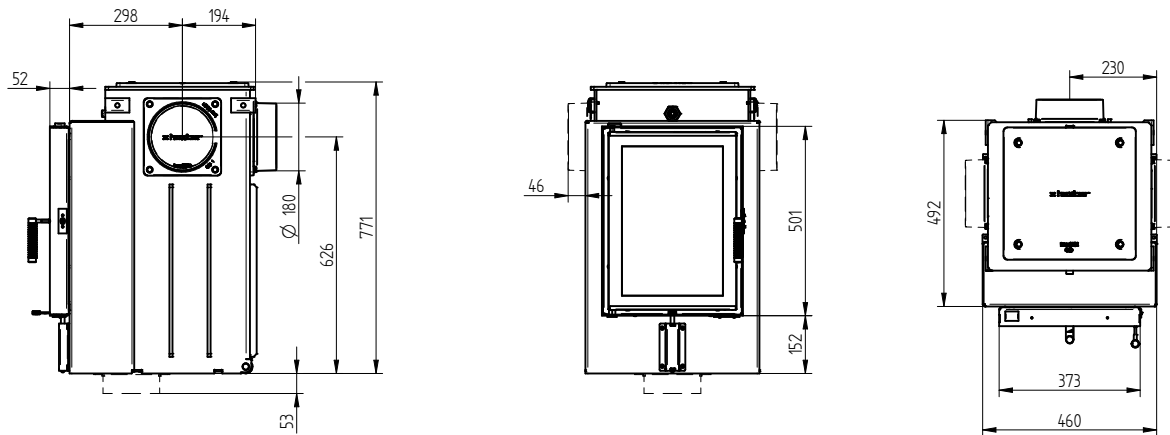
³ Example SkamoEnclosure Board 225 kg/m³

⁴ Depends on accumulation period and material characteristics. Listed values calculated with average specific heat output = approx. 500 W/m²

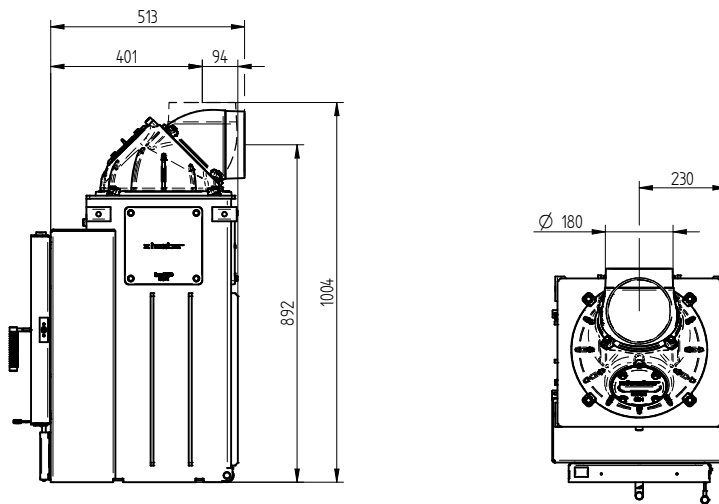
⁵ Storage operation, one wood charge for storage duration, with closed construction and efficiency > 80%

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

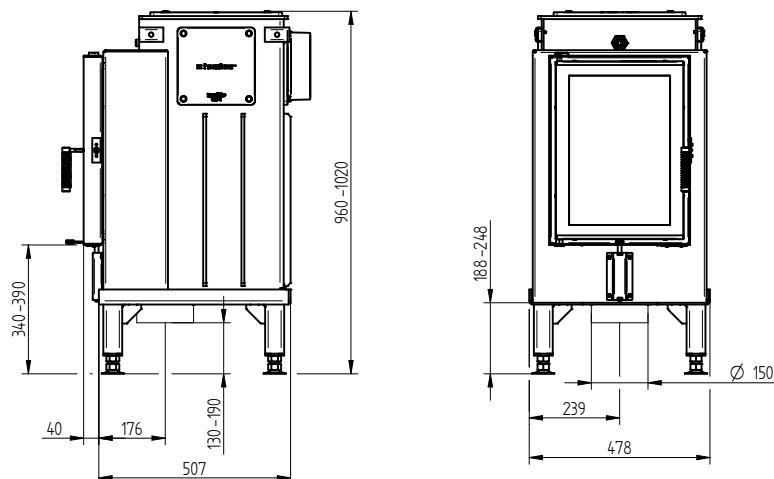
HE 37/50 smoke outlet



HE 37/50 cupola Ø180 with opening for cleaning



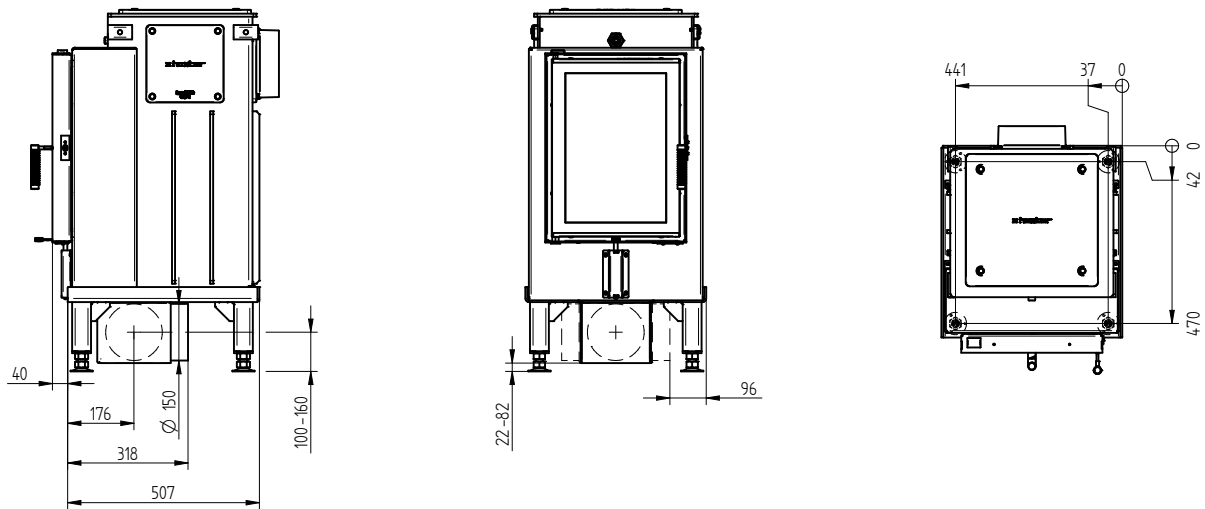
HE 37/50 support frame / vertical air inlet adaptor



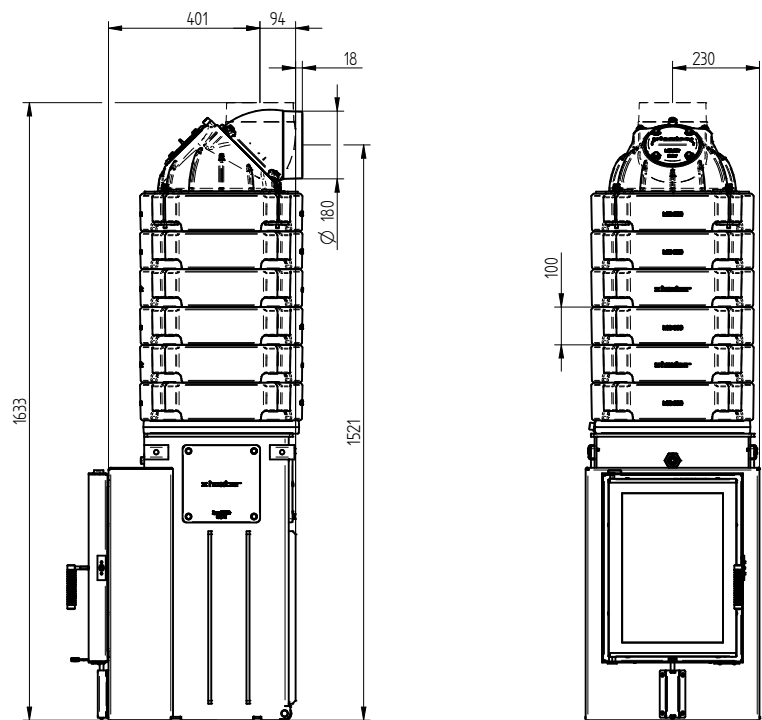
HE 37/50

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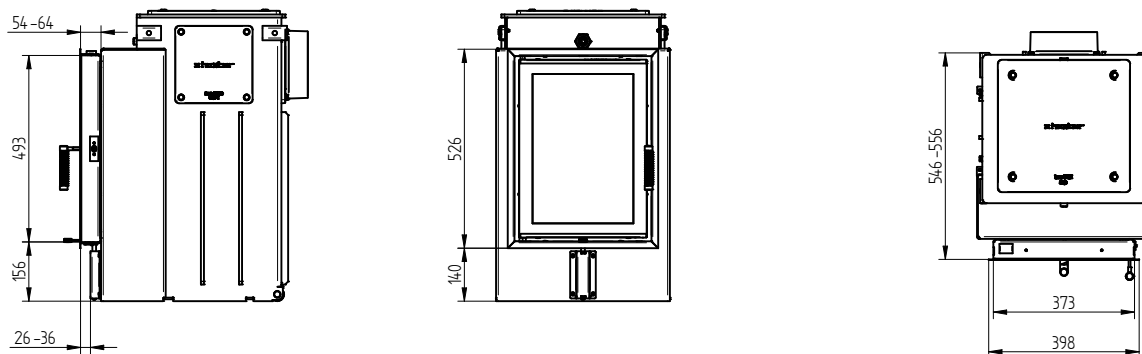
HE 37/50 support frame / horizontal air inlet adaptor / feet



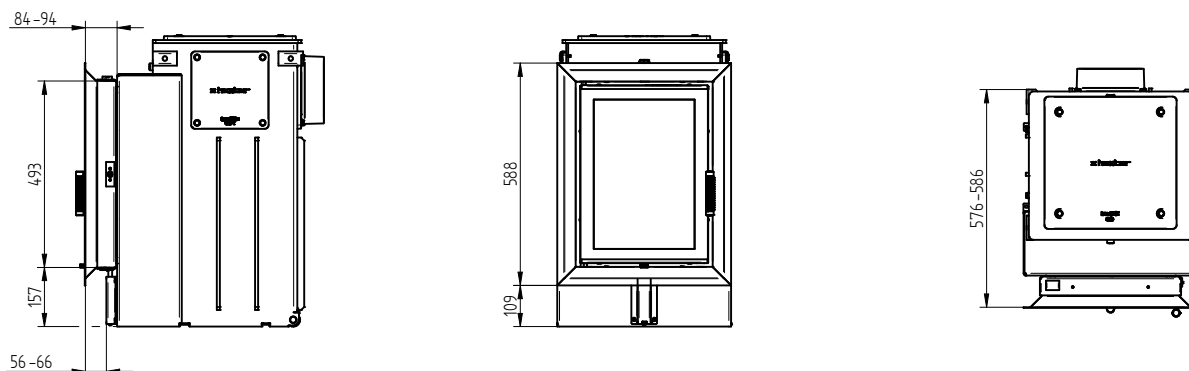
HE 37/50 accumulation set



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

