BLOX 50

Technical data

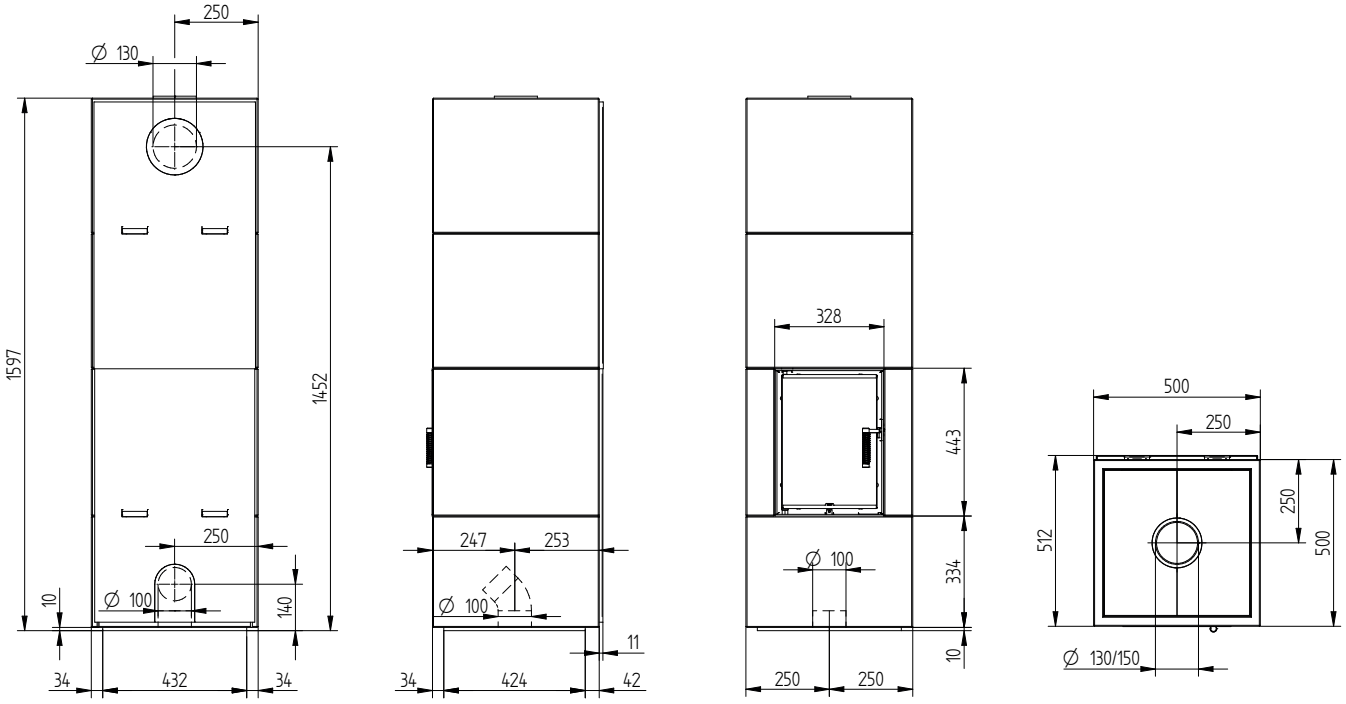
	Certified values	Measured values for accumulation operation
Energy label	A+	
Operating data		
Nominal heat power	12 kW	----
Efficiency	> 80 %	> 80 %
Consumption of wood	3,3 kg/h	6 kg (3 + 3kg)
Total heat output of the burning chamber[1]	----	24 kW
Average heat output[2]	----	1,6 kW
Heat radiation period[3]	----	12 hours
Mass flow of flue gas	11 g/s	11 g/s
Required chimney pressure	12 Pa	12 Pa
Required amount of combustion air	30 m^3/h	30 m^3/h
Average flue gas temperature on the output	240 °C	240 °C
Heat distribution		
Accumulation stove surroundings	75–85 %	75 - 85 %
door glass (single, double)	25 / 15 %	25 / 15 %
Minimal distances		
from walls made of non-combustible materials		
rear / side	20 / 100 mm	
rear with outer thermal shielding	0 mm	
to the ceiling	400 mm	
to the floor	0 mm	
from walls made of combustible materials		
rear / side	100 / 250 mm	
rear / side with outer thermal shielding	20 / 250 mm	
to the ceiling	600 mm	
to the floor	0 mm	
General technical information		
Total weight	425 kg	
Overall dimensions (width x depth x height)	500 x 500 x 1597 mm	
Burning chamber dimensions (width x depth)	250 x 210 mm	
Combustion air connection	from bottom / back Ø 100 mm	
Flue connection diameter	from the back / top Ø 130 mm (optionally to the top Ø 150 mm)	
Tested according to	EN 13240	
Meets values	1. BImSchV (Stufe2), 15a BVG	
Technical data of the accumulation material		
Thermal resistance	up to 150 °C	
Thermal conductivity (100 °C)	1,374 W/mK	
Specific heat (100 °C)	0,247 Cal/g°C	
Volume heat capacity	1486 kJ/m^3K	
Density	1490 - 1610 g/dm^3	
Bending strength	3,5 - 4,2 MPa	
Compression strength	11,0 - 14,0 MPa	
Shrinkage	0,088 %	

1 With maximum amount of wood of 4 kWh/kg, without taking efficiency losses into account.

2 Accumulation operation, specified fuel dose for accumulation period with system efficiency > 80 %.

3 The time from ignition to reaching 25% of the maximum average surface temperature compared to room temperature.

BLOX 50


250
Ø 130
1597
1452
250
Ø 100
10
140
34
432
34
247
253
Ø 100
11
34
424
42
328
443
Ø 100
334
10
250
250
500
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512
250
500
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