Wood pellets are made from sawdust.
Agri-pellets can be made of straw, hay, sunflower stalks or flakes, corn stalks, pits and other residual products from agriculture.
Difference between the two types of pellets is their value for ash content: 1% for wood pellets and between 2-6% for agripellets.

For burning wood-chips or fruit pits and crushed nut shells (as an alternative) a modular auger mechanism must be installed to the CB boiler. This modular auger mechanism is with length 5 m, and fuel mixing system with diameter up to 5 m.

BURNiT® by SUNSYSTEM

CB

Wood - pellets / chips boiler BURNiT CB 160kW

Steel solid fuel boilers satisfy the heating demands of large sized spaces as public and industrial buildings. Boiler CB 160 kW is easy to transport and installation even its impressive size. Intelligent controller. Lambda control.
Direct connection to closed or open loop heating system.
Designed for burning of wood-chips or fruit pits, crushed nut shells (alternatively) and wood-pellets or agri-pellets (alternatively).

Wood-pellets or agripellets (as an alternative)
For burning wood-pellets or agri-pellets (as an alternative) an auger for pellets must be installed to the CB boiler.

BURNiT
CB

wood-pellet /chips boiler

Product Features

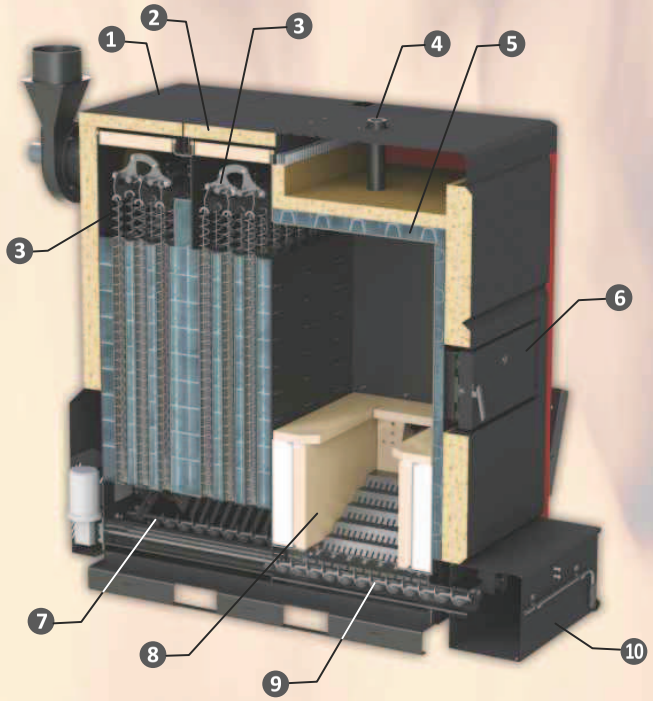
- Maximum operating pressure of 3 bar.
  Capable to feed a large-scale heating system
- Intelligent controller controls central heating pump,
  DHW (domestic hot water) pump for and buffer tank.
- Lambda control for efficient combustion process.
- Burner is connected laterally of the boiler.
  The burner has a mechanical moving grates and so can use different fuel types (wood-chips, pits, wood-pellets, agri-pellets)
- Automated cleaning of the boiler
- Mechanical cleaning of the burner
- Convenient inspection door
- Chimney with an option for 45 degree rotation - 5 positions for convenient connection
- Built in discharge mechanism drives the ash and soot into a rolling container.
- Safety devices:

1) Sensor prevents backfire entry from burner into the fuel storage;
2) STB thermostat;
3) Pressure relief valve 3 bar not incl. in the set.

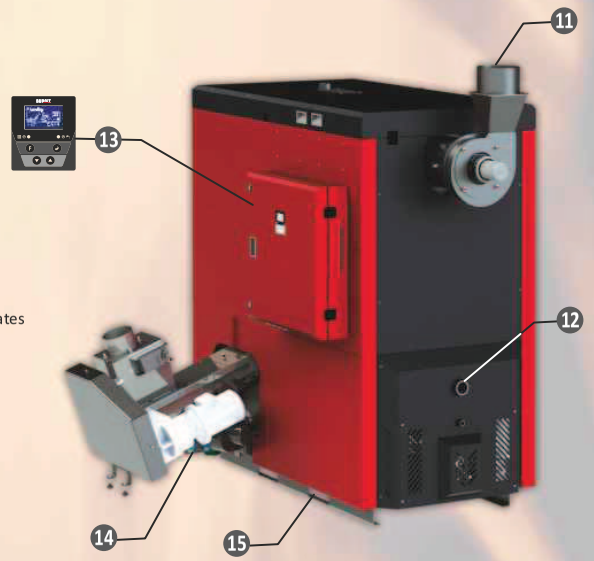
Available sizes:

kW	160

BURNiT® by SUNSYSTEM

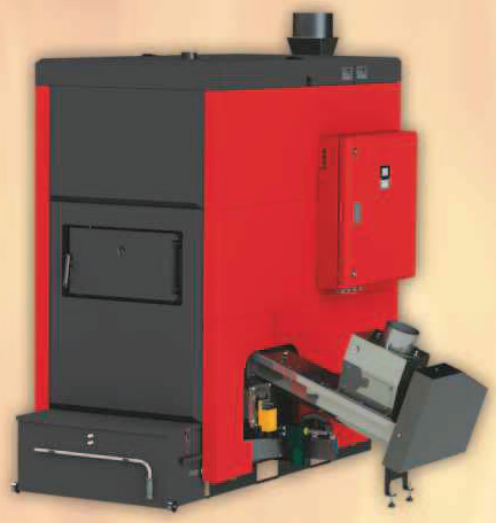


1. Housing
2. High efficiency thermal insulation
3. Cleaning system of the exhaust gas tubes
4. Hot water outlet
5. Water mantle (jacket)
6. Inspection door
7. Exhaust gases tubes ash discharge system
8. Combustion chamber protected by ceramic plates
9. Combustion chamber ash discharge system
10. Rolling ash-and-soot container
11. Chimney, 45 degree rotation and 5 positions
12. Cold water inlet
13. Electric control box with controller
14. Burner with auger mechanism
15. Transportation openings



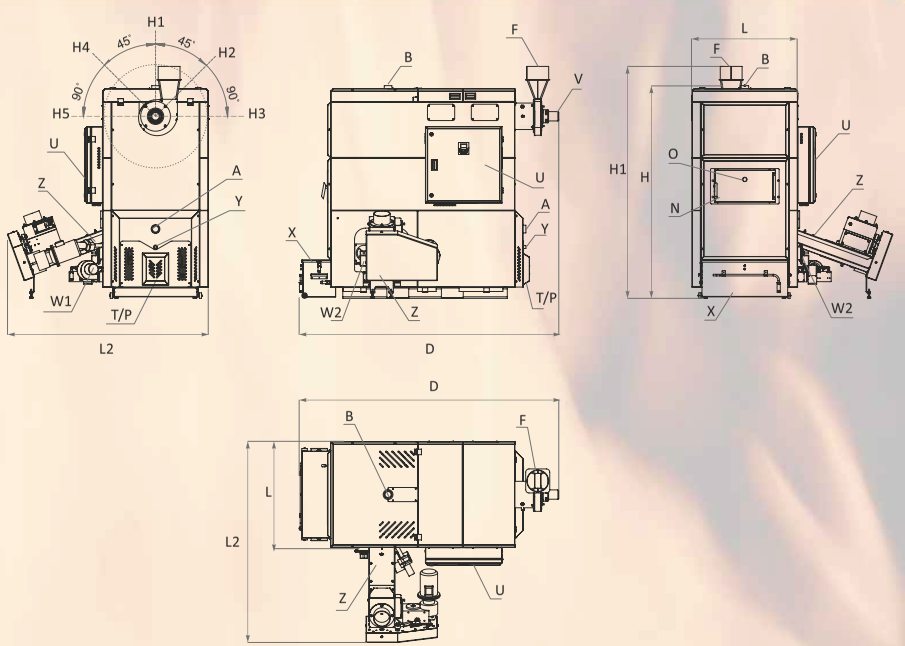
BURNiT CB 160 kW

technical specifications



		CB 160
Heat output	kW	160
Height of boiler H	mm	1950
Height Flue positions H1	mm	2126
Height Flue positions H2 / H4	mm	2004
Height Flue positions H3 / H5	mm	1669
Width of boiler L / with burner L1	mm	968 /1840
Depth D	mm	2376
Volume of water mantle	L	850
Insulation Boiler Door		high-efficiency thermal wool high-efficiency thermal wool
Recommended fuel when burning wood-chips or fruit pits (as an alternative)		wood-chips, 30x15x3 mm EN 14961-4:2011 fruit pits, crushed nut shells
Recommended fuel when burning wood-pellets or agri-pellets (as an alternative)		wood-pellets, 6÷8 mm EN 14961-2:2011 agri-pellets
Electric power supply		400V/ 50Hz /16A
Power consumption - Ignition / Operating mode		1800W / 750W
Operating temperature range	°C	65-85
Min. return water temperature	°C	60
Operating pressure	bar	3
Weight	kg	1654

BURNiT by SUNSYSTEM®



			CB 160
Cold water inlet		A, mm	R 2" / 635
Hot water outlet		B, mm	R 2" / 1950
Chimney		F, ø /mm	200 / 1669
Drain		Y, mm	470
Fume extraction fan		V, mm	1950
Inspection door		N	✓
Eyepiece for viewing the combustion process		O	✓
Burner with auger mechanism		Z	✓
Incoming air	Air feed fan - primary air	W1	✓
	Actuator-driven air flap - secondary air	W2	✓
Combustion chamber / Exhaust gases tubes ash discharge system		T/P	✓
Rolling ash-and-soot container			connected to boiler body by buckles
Electric control box with controller		U	✓

The information provided herein is subject to change without prior notice.