

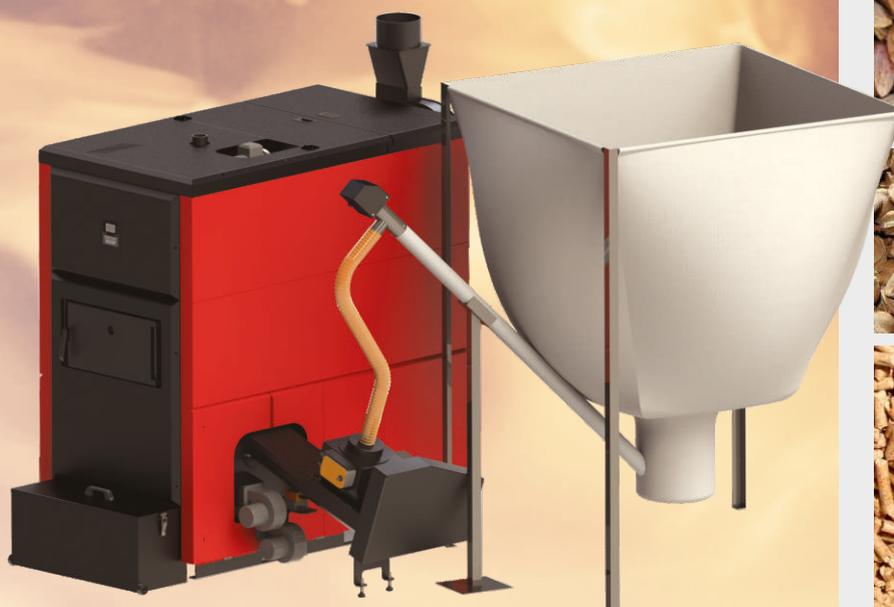
BIOMASS HEATING

BURNiT
by **SUNSYSTEM**



Boiler BURNiT CB - 160 kW
burning wood-chips, fruit pits
and agro wastes

Auger mechanism:
Sectional modules, with total length up to 6 m
and fuel mixing system with diameter range up to 6 m



Boiler BURNiT CB - 160 kW
burning wood-pellets
Auger and pellet silo

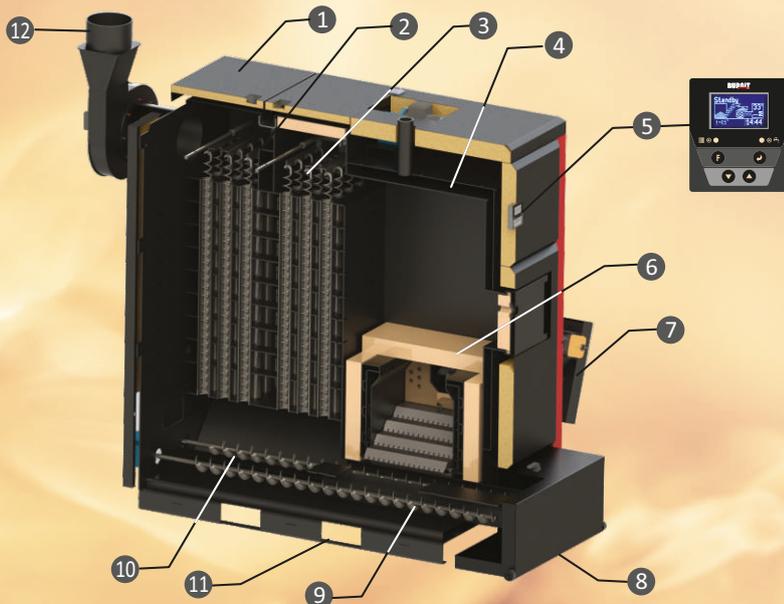
Wood-chips/pellets boiler BURNiT CB - 160 kW

Ecological and highly-efficient heating of bigger premises and industrial spaces. Automated operation. Controller manages the operation of circulation pump of the central heating and pump of the domestic hot water (DHW). Wood-chips/pellets burner is connected laterally of boiler. Boiler flue with three positions of rotation. Automatic cleaning system of: exhaust gases tubes of boiler and the burner. Built in discharge mechanism drives the ash and soot into a rolling container.



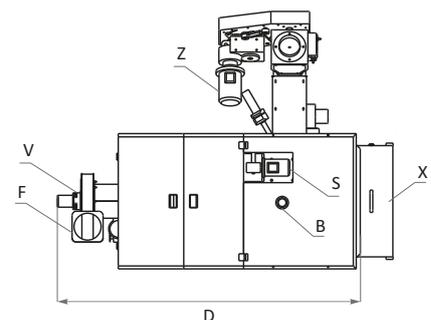
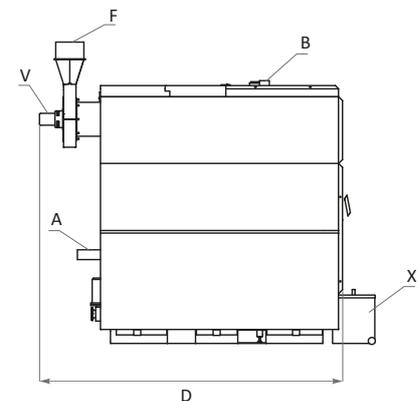
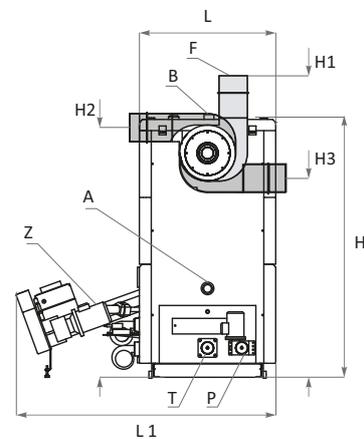
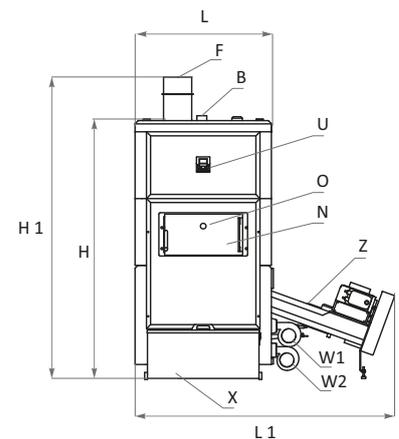
recommended fuel:
wood-chips, 30x15x3mm, EN 14961-4:2011

wood-pellets, 6÷8 mm EN 14961-2:2011



1. Housing; 2. High efficiency thermal insulation; 3. Automatic cleaning system of the exhaust gases tubes; 4. Water mantle; 5. Controller; 6. Combustion chamber protected by ceramic plates; 7. Connection of burner and auger; 8. Rolling ash-and-soot container; 9. Disposal system for combustion chamber ash discharge; 10. Disposal system for exhaust gases tubes ash discharge; 11. Transportation openings; 12. Boiler flue with three positions of rotation-angles of rotation: 0 degrees and 90 degrees to the left or right of the vertical axis.

V - Flue gas extraction fan; S - Cleaning system of exhaust gases tubes; N - Inspection door; O - Eyepiece for viewing the combustion process; Z - Burner and auger; W1 / W2 - Air feed fan - primary/secondary air; T / P - Disposal system for exhaust gases tubes ash discharge /for combustion chamber ash discharge; X - Rolling ash-and-soot container; U - Controller.



CB 160		
Heat output	kW	48÷160
Heating surface	m ²	450÷750
Height of boiler H	mm	1300
Height Flue positions H1/ H2 /H3	mm	2156/ 1786 / 1427
Width of boiler L / with burner L1	mm	968 /1842
Depth D	mm	1252
Volume of water mantle/combustion chamber	L	850/350
Combustion chamber resistance	Pa/mbar	64/0.64
Required chimney draught	Pa/mbar	16/0,16
Insulation	Boiler Door	high-efficiency thermal wool
Electric power supply		400V/ 50Hz /16A
Recommended fuel		wood-chips, 30x15x3mm, EN 14961-4:2011 fruit pits and agro wastes wood-pellets, 6÷8 mm EN 14961-2:2011
Exhaust gas temperature (operation mode)	°C	<140
Operating temperature range/Max. temperature	°C	65-85 /95
Min. return water temperature	°C	60
Operating pressure	bar	3
Weight	kg	1654
Cold water inlet	A	R 2"
Hot water outlet	B	R 2"
Flue	F, ø	200