



Intelligent

The electronic control unit controls the operation of the flue fan, the circulation pump of the central heating and the pump of the domestic hot water system (DHW). The power of the fan is regulated in relation to the fuel consumed and the momentary chimney draft.

Efficient

The flue gas makes a three-pass movement around three water-filled barriers in the combustion chamber on its way to the chimney. This way the gas is cool when it leaves the boiler and its energy has been transferred to the water in the mantle. The water mantle embraces the combustion chamber in full to utilize the emitted heat most efficiently. To keep from losing heat into the ambience, the boiler is insulated on the outside by 50 mm high-temperature wool.

Reliable and safe

The body of the boiler is made of boiler grade steel with thickness 5 mm at the combustion chamber and 4 mm at the water mantle. The heat exchanging tubular grill is protected by a replaceable metal grate. A complex of safety devices provide for the safety of the appliance.

Versatile

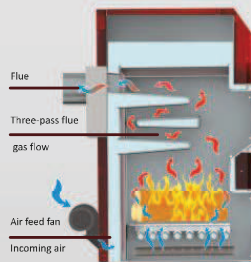
Designed for firing wood with option for adapting to other fuel types by mounting a gas-, oil- or pellet-fired burner on the specially designated flange located on the lower door.

BURNiT

by **SUNSYSTEM**
WBS ACTIVE

Wood-fired boiler **BURNiT WBS Active**

Steel boiler with intelligent controller and electric fan for forced air feed. Wood-fired boilers **WBS Active** range in nominal output from 20 to 110 kW to satisfy the heating demands of medium to large sized spaces. They are engineered for burning solid fuel and provide the option for fitting pellet, oil or gas-fired burners.



BURNiT WBS Active

wood-fired
boiler

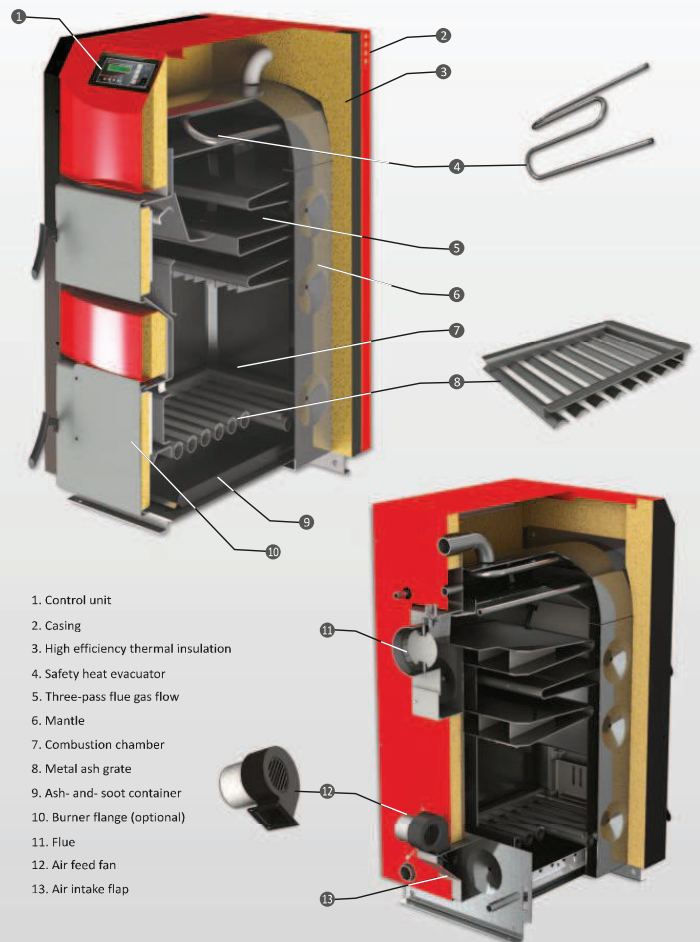
Product Features

- Electronic control unit controls the combustion by modulating the fan speed. Optional control of circulation pumps for central heating and domestic hot water (DHW).
- Air feed fan optimizes the combustion and the fuel consumption rate.
- Combustion chamber with large heat exchanging surface and low chamber resistance.
- Large firebox door ensures easy loading even with bigger logs (length of logs up to 50 cm).
- Ribbed chamber surface and three-pass flue gas flow for improved heat exchange.
- Exchangeable metallic ash grate protects the pipe grid from the flame.
- Burner flange on lower door for fitting pellet, oil or gas burners (optional).
- Safety devices:
1) Pressure relief valve 2,5 bar;
2) Safety heat evacuator a tap-water-filled line passes through the upmost part of the boiler body. In case of overheating it is triggered open by a thermostatic valve (not included) to evacuate the heat off the boiler;
3) STB - thermostat;
4) Air intake flap.

Available sizes:

kW	20	25	30	40	50	70	90	110
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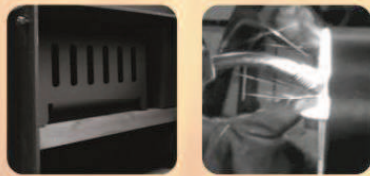


1. Control unit
2. Casing
3. High efficiency thermal insulation
4. Safety heat evacuator
5. Three-pass flue gas flow
6. Mantle
7. Combustion chamber
8. Metal ash grate
9. Ash- and- soot container
10. Burner flange (optional)
11. Flue
12. Air feed fan
13. Air intake flap

BURNiT WBS Active

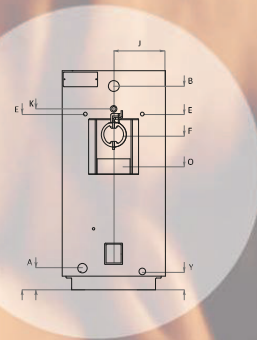
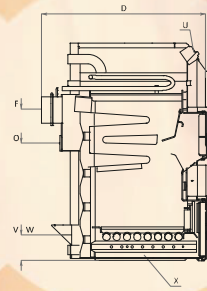
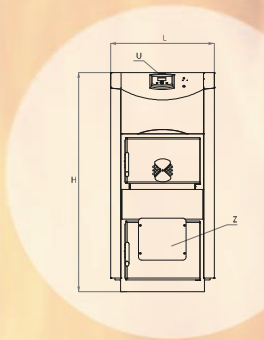
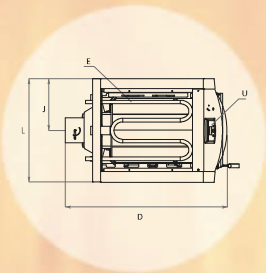
technical specifications

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		WBS Active 20	WBS Active 25	WBS Active 30	WBS Active 40	WBS Active 50	WBS Active 70	WBS Active 90	WBS Active 110
Heat output	kW	20	25	30	40	50	70	90	110
Heating surface	m ²	90/120	100/150	120/180	140/250	160/340	250/410	350/480	400/650
Height H	mm	1330	1330	1330	1330	1330	1470	1470	1470
Width L / Depth D	mm	570/970	570/1050	630/1050	790/1050	790/1100	790/1225	790/1225	850/1225
Mantle volume	l	92	100	105	118	128	141	156	171
Combustion chamber volume	l	58	62	73	84	97	120	133	160
Combustion chamber resistance	Pa/mbar	10/0.10	11/0.11	12/0.12	15/0.15	26/0.26	41/0.41	54/0.54	67/0.67
Required chimney draught	Pa/mbar	16/0.16	20/0.20	21/0.21	23/0.23	24/0.24	38/0.38	47/0.47	56/0.56
Insulation	Boiler Doors	high-efficiency thermal wood high-efficiency thermal wood							
Average power consumption	W	45	45	45	45	45	110	110	110
Electric power supply	V/Hz	220/50	220/50	220/50	220/50	220/50	220/50	220/50	220/50
Recommended fuel		wood, humidity 15%, wood briquettes							
Loading door size	mm	330/250	330/250	390/250	490/310	490/310	490/310	550/310	610/310
Max. length of firewood logs	mm	400	400	400	400	500	600	600	600
Exhaust gas temperature (operation mode)	°C	<150	<150	<150	<150	<150	<150	<150	<150
Operating temperature range	°C	65-85	65-85	65-85	65-85	65-85	65-85	65-85	65-85
Max. temperature	°C	95	95	95	95	95	95	95	95
Min. return water temperature	°C	60	60	60	60	60	60	60	60
Operating pressure	bar	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Weight	kg	238	260	282	318	342	368	391	432

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



		WBS Active 20	WBS Active 25	WBS Active 30	WBS Active 40	WBS Active 50	WBS Active 70	WBS Active 90	WBS Active 110
Cold water inlet	A, mm	G1½/ 130	G1½/ 130	G1½/ 130	G1½/ 130	G1½/ 130	G2/ 135	G2/ 135	G2/ 135
Hot water outlet	B, mm	G1½/ 1235	G1½/ 1235	G1½/ 1235	G1½/ 1235	G1½/ 1235	G2/ 1380	G2/ 1410	G2/ 1410
	J, mm	285	285	315	315	365	365	395	425
Safety line sleeve	K, mm	GK/1125	GK/ 1125	GK/ 1100	GK/ 1125	GK/ 1125	GK/ 1240	GK/ 1240	GK/ 1250
	J, mm	285	285	315	315	365	365	395	425
Safety heat evacuator inlet/outlet	E, mm	R½/ 1070	R½/ 1070	R½/ 1070	R½/ 1070	R½/ 1070	R½/ 1210	R½/ 1210	R½/ 1210
Flue	F, ø	150	150	150	180	180	206	206	206
	f, mm	945	945	945	930	930	1055	1055	1055
	J, mm	285	285	315	315	365	365	395	425
Flue cleaning opening	O, mm	150/70	150/70	150/70	150/70	150/70	150/70	150/70	150/70
Drain	Y, mm	G½/ 130	G½/ 110	G½/ 110	G½/ 110	G½/ 110	G1/ 130	G1/ 125	G1/ 125
Air intake flap	V, mm	277	277	277	277	277	277	277	277
	J, mm	285	285	315	315	365	365	395	425
Air feed fan	W, mm	277	277	277	277	277	277	277	277
Burner flange (optional)	Z, ø mm		176	176	176	176	176	215	215
Ash and soot container	X	✓	✓	✓	✓	✓	✓	✓	✓
Control unit	U	✓	✓	✓	✓	✓	✓	✓	✓

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