

BURNiT

WBS Active-Pell

pellet boiler

Product Features:

- Ready-to-use set.
Tested and approved according to EN 303-5, class 5.
- Boiler WBS Active is adapted to wood-pellets burning mode by pellet burner Pell and some additional elements as turbulators, upper protective door and mounting kit.
- Microprocessor controller. Functions:
Automatic ignition and pellet feed;
Self-cleaning function of burner;
Controls the operation of central heating pump;
Controls the operation of domestic hot water (DHW);
Controls boiler operations by buffer tank temperature;
- Temperature sensor to monitor boiler temperature.
- Temperature sensor to monitor water heater temperature.
- Two temperature sensors to monitor buffer tank temperature.
- Water mantle embraces the combustion chamber in full to utilize the emitted heat most efficiently.
- Fuel hopper FH 500 with alternative mounting on boiler left- or right-side.

Safety devices:

- Elbow-shape feeder chute of burner prevents backfire entry from burner into the pellet hopper.
- Thermostatic protection (80°C) - into the burner, prevents backfire.
- Fuse 10 A.
- In case of power interruption, all parameter settings are stored in controller memory.
- Safety heat evacuator.
- Pressure relief valve 3 bar.

Available sizes:

kW	WBS Active 20 Pell 25	WBS Active 25 Pell 25	WBS Active 30 Pell 25	WBS Active 40 Pell 25
	WBS Active 50 Pell 40	WBS Active 70 Pell 70	WBS Active 90 Pell 70	WBS Active 110 Pell 90

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WBS Active - Pell

Pellet boiler **BURNiT** WBS Active - Pell

Boiler WBS Active with pre-mounted pellet burner Pell.
Auger. Pellet fuel hopper FH 500.
For heating of medium to large-sized premises through burning of wood-pellets.

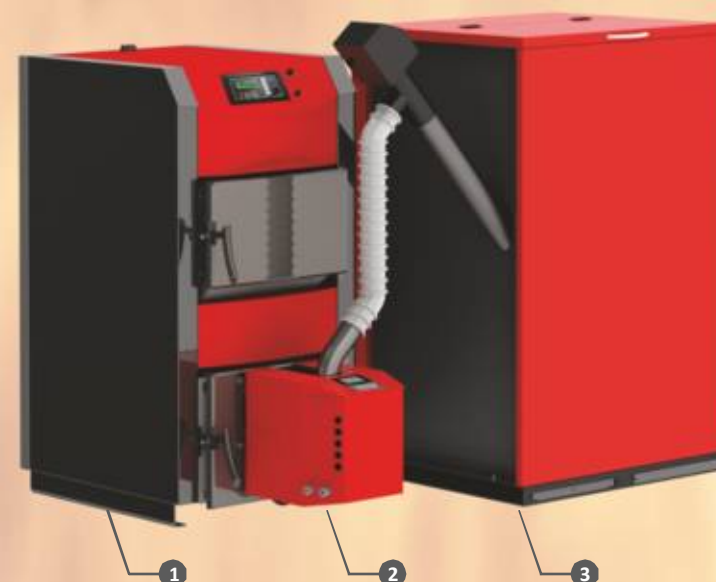
Boiler WBS Active is adapted to wood-pellets burning mode by pellet burner Pell and some additional elements.
Then set WBS Active-Pell would reach the desired level of efficiency.



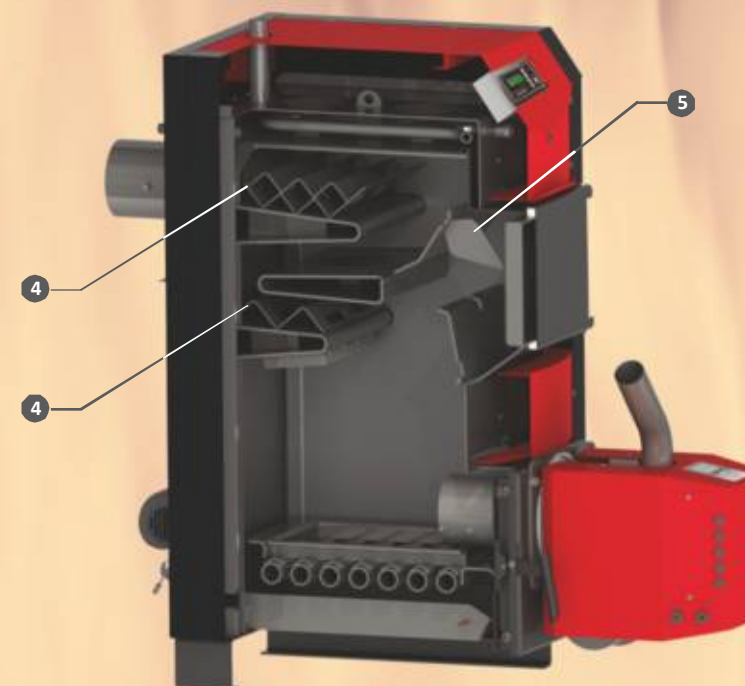
BURNiT WBS Active-Pell

technical specifications

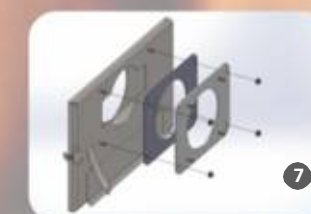
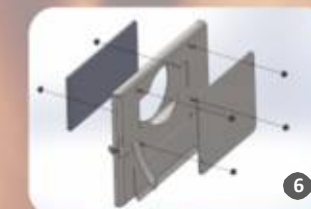
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1. Boiler WBS Active
2. Pellet burner Pell, flexible connection, automatic pellet-feeding auger;
3. Pellet fuel hopper FH 500



4. Turbulators; 5. Upper protective door;
6. Detaching the burner flange cover on lower boiler door;
7. Mounting kit - to connect burner Pell to the boiler.



		WBS Active 20 Pell 25	WBS Active 25 Pell 25	WBS Active 30 Pell 25	WBS Active 40 Pell 40	WBS Active 50 Pell 40	WBS Active 70 Pell 70	WBS Active 90 Pell 70	WBS Active 110 Pell 90
Nominal heat output / Minimum ÷ Maximum heat output	kW	17 / 5÷20	22 / 6÷25	25 / 7÷27	30 / 9÷32	35 / 10÷40	52 / 15÷65	60 / 18÷65	80 / 24÷90
Mass flow of exhaust gases, Minimum ÷ Maximum heat output	kg/s	0.004 ÷ 0.012		0.005 ÷ 0.014	0.011 ÷ 0.025	0.007 ÷ 0.021	0.012 ÷ 0.032	0.010 ÷ 0.031	0.015 ÷ 0.038
Overall size of boiler and burner: Height H Width L / Depth D	mm	1235	1235	1235	1235	1235	1385	1385	1385
	mm	540/1250	540/1315	600/1315	700/1315	700/1375	700/1495	760/1495	820/1495
Water mantle volume	L	60	75	82	96	106	134	145	162
Combustion chamber volume	L	58	62	73	84	97	120	133	160
Required chimney draught	Pa/mbar	10/0.10	10/0.10	11/0.11	12/0.12	14/0.14	26/0.26	30/0.30	36/0.36
Average power consumption WBS Active		60	60	60	60	60	110	110	110
Average power consumption Pell: Firing-Up mode	W	400	400	400	400	400	400	400	400
Operating mode / Self-cleaning mode		60÷70/1300	60÷70/1300	60÷70/1300	60÷70/1300	60÷70/1300	70÷110/1300	70÷110/1300	70÷110/1300
Electric power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Recommended fuel		wood-pellets, diameter 6÷8 mm / EN 14961-2:2011/							
Mounting kit - to connect burner Pell to the boiler/ Additional elements of WBS Active		✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓
Operating temperature range	°C	65-80	65-80	65-80	65-80	65-80	65-80	65-80	65-80
Min. return water temperature	°C	60	60	60	60	60	60	60	60
Operating pressure	bar	3	3	3	3	3	3	3	3
Weight / boiler, burner, fuel hopper/	kg	337	359	384	433	458	538	572	603
Capacity of Pellet fuel hopper FH	L	500	500	500	500	500	500	500	500

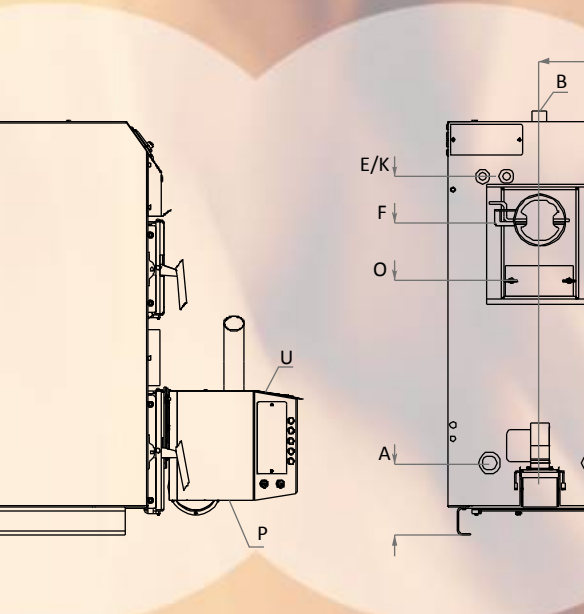
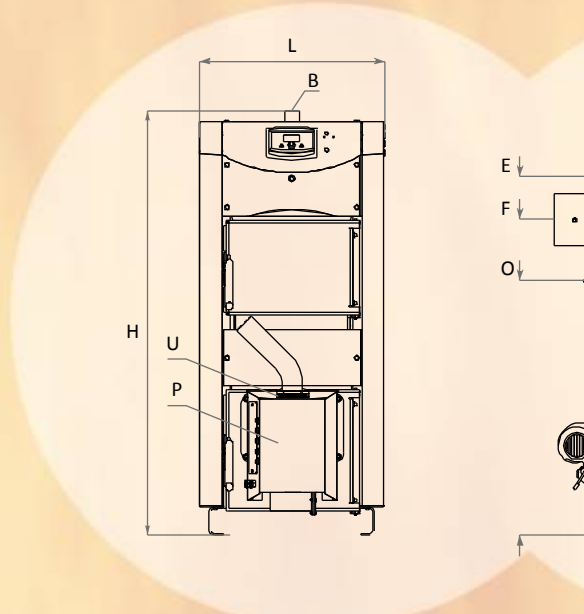
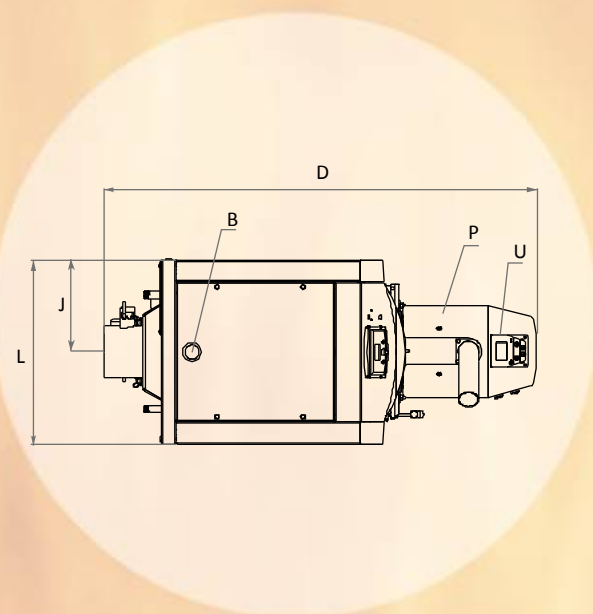
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Cold water inlet	A, mm		R1¼" / 232	R1¼" / 232	R1¼" / 232	R1¼" / 232	R1¼" / 232	R1½" / 232	R1½" / 232	R1½" / 232
Hot water outlet	B, mm		R1¼" / 1265	R1¼" / 1265	R1¼" / 1265	R1¼" / 1265	R1¼" / 1265	R1½" / 1420	R1½" / 1420	R1½" / 1420
Sleeve for sensor of safety valve	K, mm		G½" / 1075	G½" / 1075	G½" / 1075	G½" / 1075	G½" / 1075	G½" / 1225	G½" / 1225	G½" / 1225
Safety heat evacuator inlet/outlet	E, mm		R½" / 1072	R½" / 1072	R½" / 1072	R½" / 1072	R½" / 1072	R½" / 1222	R½" / 1222	R½" / 1222
Flue	F, ø/mm		ø150 / 945	ø150 / 945	ø150 / 945	ø180 / 930	ø180 / 930	ø200 / 1065	ø200 / 1065	ø200 / 1065
	J, mm		270	270	300	350	350	350	380	410
Cleaning opening	O, mm		150/70	150/70	150/70	150/70	150/70	150/70	150/70	150/70
Drain	Y, mm		G½" / 232	G½" / 232	G½" / 232	G½" / 232	G½" / 232	G1" / 232	G1" / 232	G1" / 232
Pellet burner Pell / flange	P		✓	✓	✓	✓	✓	✓	✓	✓
Controller - pellet burner Pell	U		✓	✓	✓	✓	✓	✓	✓	✓

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