## BIOMASS HEATING

# BURNIT<sup>®</sup>

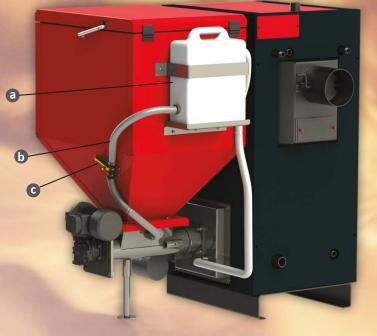
### Combined boiler BURNIT WBS AC-UB

Universal boiler for heating of medium and large premises. Thanks to the universal burner UB is possible burning of different fuel types as coal, wood-pellets and agri-pellets (straw pellets and sunflower pellets).

Constructed in accordance to standard EN 303-5.

#### Set includes: Combined boiler WBS AC-UB, Universal burner UB and Fuel hopper UB.

Heat output, kW: 25, 40



#### Recommended fuels:



Alternatively

**coal**, diamter ø 5-25mm

**wood-pellets** ø 6÷8 mm EN 14961-2:2011

agri-pellets ( straw pellets) ø 6÷8 mm

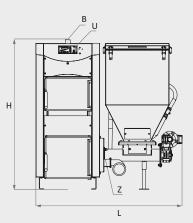
agri-pellets ( sunflower pellets) ø 6÷8 mm

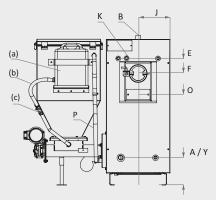


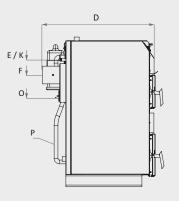
#### **Product Features:**

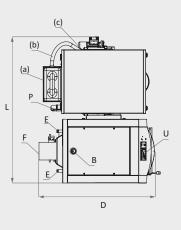
- Built-in control unit. Functions: Automatic combustion control; Controls the operation of central heating pump; Controls the operation of DHW (domestic hot water) pump.
- Universal burner UB. Characteristics: Equipped for burning of different fuel types as coal, wood-pellets and agri-pellets (straw pellets and sunflower pellets). Two Cast Iron grates for coal and pellets; Robust Cast Iron burner body; Long service life and ease of maintenance;
- Boiler combustion chamber with large heat exchanging surface and low chamber resistance.
- •Ribbed chamber surface is equipped with turbolators for longer retention of the gases into combustion chamber. Three-pass flue gas flow.
- **The water mantle** embraces the combustion chamber in full to utilize the emitted heat most efficiently.
- Fuel hopper UB under pressure. Air delivery hose is connected to the fuel hopper. Lateral connection to the boiler. Leveling foot. Convenient hatch for fuel loading.
- Safety devices:
- Controller for boiler temperature monitoring and control.
  Pressure relief valve 3 bar;
- 3) 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.
- 4) STB thermostat monitors boiler temperature not to exceed 95°C;
- <u>Optional</u>: Safety valve for temperature (c) connected to water tank (a) by water delivery hose (b). This prevents backfiring into the fuel hopper.











Combined boiler WBS AC-UB; (2) Fuel hopper UB; (3) Safety heat evacuator; (4) Turbulators;
 Three-pass flue gas flow; (6) Ceramic plate to improve the combustion;
 Universal burner UB; (8) Cast Iron grate for coal;
 Cast Iron grate for wood-pellets / agri-pellets;

		WBS AC-UB 25kW	WBS AC-UB 40kW
Heat output	kW	20	35
Overall dimensions Height H Width L / Depth D	mm	1290 1347/976,6	1290 1347/976,6
Water mantle volume	L	96	114
Combustion chamber volume	L	66	88
Combustion chamber resistance	Pa/mba	r 12/0,12	12/0,12
Power supply	V/Hz 230 AC / 50Hz		
Power consumption Operating Mode	W	1600 60-70	1600 60-70
Recommended Cast Iron grate for coal fuel: Cast Iron grate for pellets (Alternatively)	coal, ø 5-25mm wood-pellets, ø 6÷8mm EN 14961-2:2011 agri-pellets: straw / sunflowerts ø 6÷8mm		
Exhaust gas temperature (operation mode)	°C <250 ÷ 280		
Operating temperature range	°C 65-85		
Operating pressure	bar	3	3
Weight	kg	388	475
Capacity of Fuel hopper UB	kg	380	420
Cold water inlet	A, mm	R¼" /212	R¼" /212
Hot water outlet	B, mm	R¼" /1245	R¼" /1245
Safety heat evacuator inlet/outlet	E, mm	R½"/1052	R½" /1052
Sensor or Safety valve sleeve	K, mm	G½" /1055	G½" /1055
Flue	F,mm J,mm	ø150/945 270	ø180/930 350
Flue cleaning opening	O, mm	150/70	150/70
Drain	Y, mm	G½" /212	G½" /212
Air delivery hose, connected to the fuel hopper	Р	$\checkmark$	$\checkmark$
Controller	U	$\checkmark$	$\checkmark$
Water tank	(a)	(a) option	
Water delivery hose	(b)		
Safety valve for temperature	(c)	(c) option	

The information provided herein is subject to change without prior notice