

Solid fuel boiler WBS



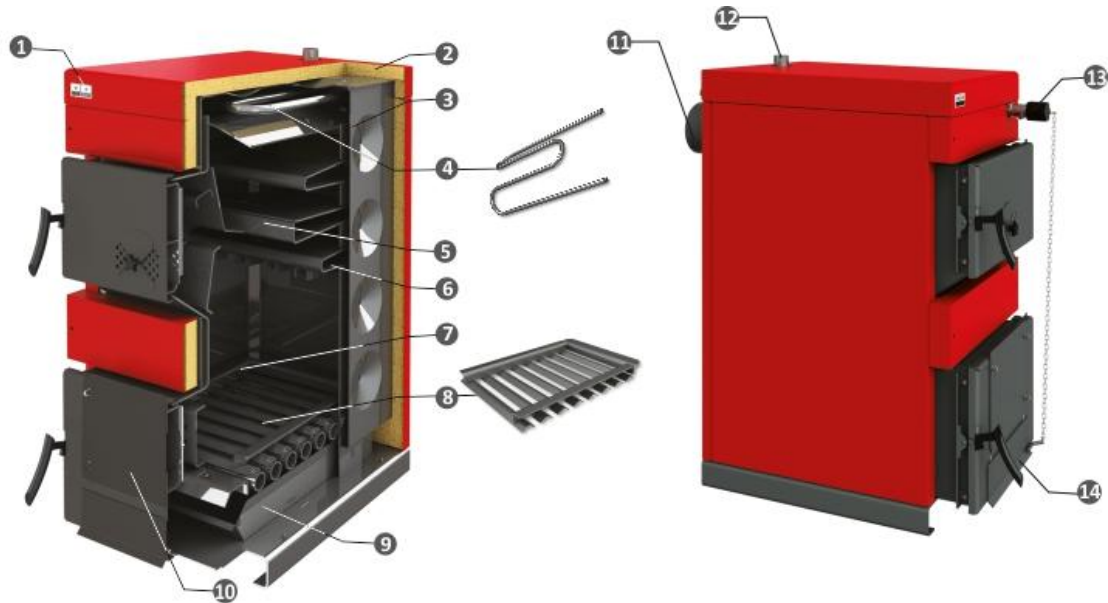
Steel solid fuel boilers WBS range in nominal output from 20 to 110 kW to satisfy the heating demands of medium to large sized spaces. They are engineered for burning solid fuel and provide the option for fitting pellet, oil or gas-fired burners.

Product Features

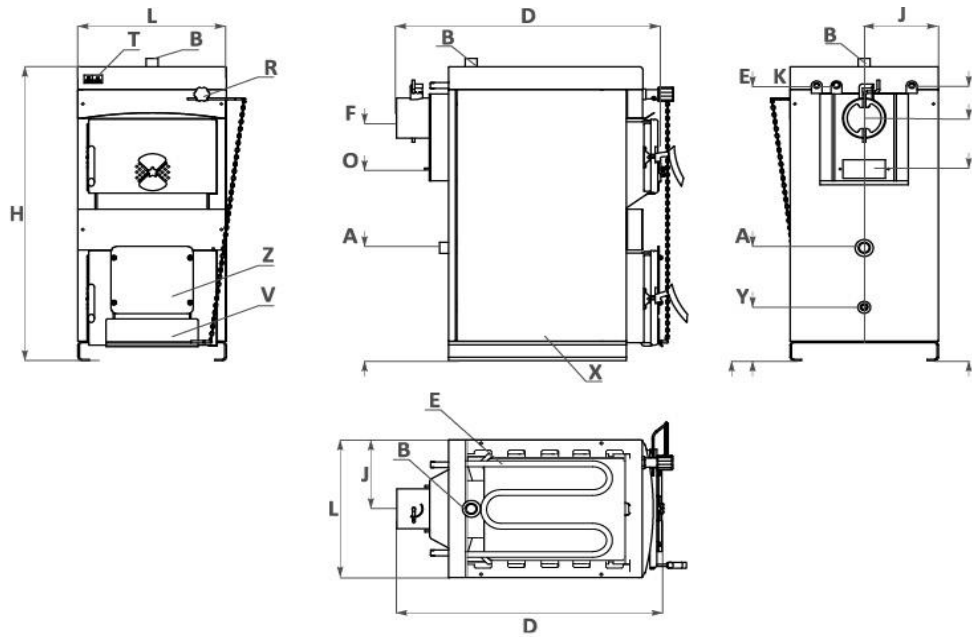
- Simple installation and handling
- Design complying with EN 303-5
- Combustion chamber with large heat exchanging surface and low chamber resistance
- Large firebox door ensures easy loading even with bigger wood chunks
- Ribbed chamber surface and three-pass flue gas flow for improved heat exchange
- Burner flange on lower door for fitting gas, oil, or pellet burners
- Easy cleaning and maintenance
- Pressure relief valve 3 bar included in the delivery set
- Exchangeable metallic ash grate protects the chamber base from the flame
- Removable boiler housing with insulation

Three safety devices:

- Thermostatic draught regulator;
- Pressure relief valve;
- 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.



1. Temperature indicator
2. Housing
3. High efficiency thermal insulation
4. Safety heat evacuator
5. Three-pass flue gas flow
6. Mantle
7. Combustion chamber
8. Metal grate
9. Ash-and-soot container
10. Burner flange
11. Flue
12. Hot water outlet
13. Thermostatic regulator
14. Air intake flap



	WBS 20	WBS 25	WBS 30	WBS 40	WBS 50	WBS 70	WBS 90	WBS 110
Heat output kW	20	25	30	40	50	70	90	110
Heating surface m	90÷120	100÷150	120÷180	140÷250	160÷340	250÷410	350÷480	400÷650
Height H mm	1115	1115	1115	1115	1115	1265	1265	1265
Width L/ Depth D mm	464/870	464/930	524/930	624/930	624/990	624/1110	684/1110	744/1110
Mantle volume l	60	75	82	96	106	134	145	160
Combustion chamber volume l	55	62	74	94	103	170	191	212
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	54/0.54
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	47/0,47
Insulation	Boiler high-efficiency thermal wool							
Doors	Doors high-efficiency thermal wool							
Recommended fuel	wood, humidity 20%; wood briquettes; coal							
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	225	245	265	310	330	410	445	475
Cold water inlet	A, mm	R1½/430	R1½/430	R1½/430	R1½/430	R1½/430	R1½/410	R1½/410
	J, mm	232	232	262	312	312	312	342
Hot water outlet	B, mm	R1½/1145	R1½/1145	R1½/1145	R1½/1145	R1½/1145	R1½/1295	R1½/1295
	J, mm	232	232	262	312	312	342	342
Safety line sleeve	K, mm	G½/1045	G½/1045	G½/1045	G½/1045	G½/1045	G½/1195	G½/1195
Safety heat evacuator inlet/outlet	E, mm	R½/1045	R½/1045	R½/1045	R½/1045	R½/1045	R½/1195	R½/1195
Air vent	I	✓	✓	✓	✓	✓	✓	✓
Flue	∅	150	150	150	180	180	206	206
	F, mm	920	920	920	905	905	1030	1030
	J, mm	232	232	262	312	312	312	342
Flue cleaning opening	O, mm	150/70	150/70	150/70	150/70	150/70	150/70	150/70
	Y, mm	G½/205	G½/205	G½/205	G½/205	G½/205	G1/205	G1/205
Drain	J, mm	232	232	262	312	312	242	272
	J, mm	232	232	262	312	312	312	242
Temperature indicator	T	✓	✓	✓	✓	✓	✓	✓
Thermostatic regulator	R	✓	✓	✓	✓	✓	✓	✓
Air intake flap	V	✓	✓	✓	✓	✓	✓	✓
Burner flange (optional)	Z, ∅ mm	176	176	176	176	176	215	215
Ash-and-soot container	X	✓	✓	✓	✓	✓	✓	✓