

■ A new generation bio boiler

BioComp -boiler is a new generation automatic bio heating boiler. The fire chamber of the BioComp -boiler has a new round structure which improves heat recovery. Excellent efficiency* of the boiler together with its flexible structure enable the use of different burner types. Due to its high equipment level the boiler is suitable for almost all solid biofuels and heating oil.

■ Standard equipment:

- Nominal output 40, 60, 80, 120 and 150 kW
- Automatic convection cleaning - easy to use - small demand for cleaning and maintenance
- Plate heat exchanger for domestic hot water - primary circuit pump also functions as a boiler mixing pump
- Flue gas fan - maintains constant fire chamber pressure and ensures even burning
- Ceramic-insulated, large ash compartment - reduces radiation loss and extends discharge interval
- Burner hatch on either left or right hand side, maintenance hatch in front - flexible installations

Accessories:

- Ash screws below the fire chamber and convection part, secondary ash screw, ash chamber
- Electric resistance - max 2 x 9 kW (40-60 kW: 1 x 9 kW)
- Oil burner kit
- Burner kit according to chosen burner



Arterm boilers and pressure vessels are manufactured according to the highest class of pressure equipment directive (PED).

- High max. operating pressure: 3 bar
- High max. operating temperature: 130 °C

*Equipped with BioJet 60 pellet burner and AM200 automation the BioComp boiler has an excellent, 93 %, efficiency, and low NOx and CO emissions (measured according to EN 303-5 -standard).

■ Technical data

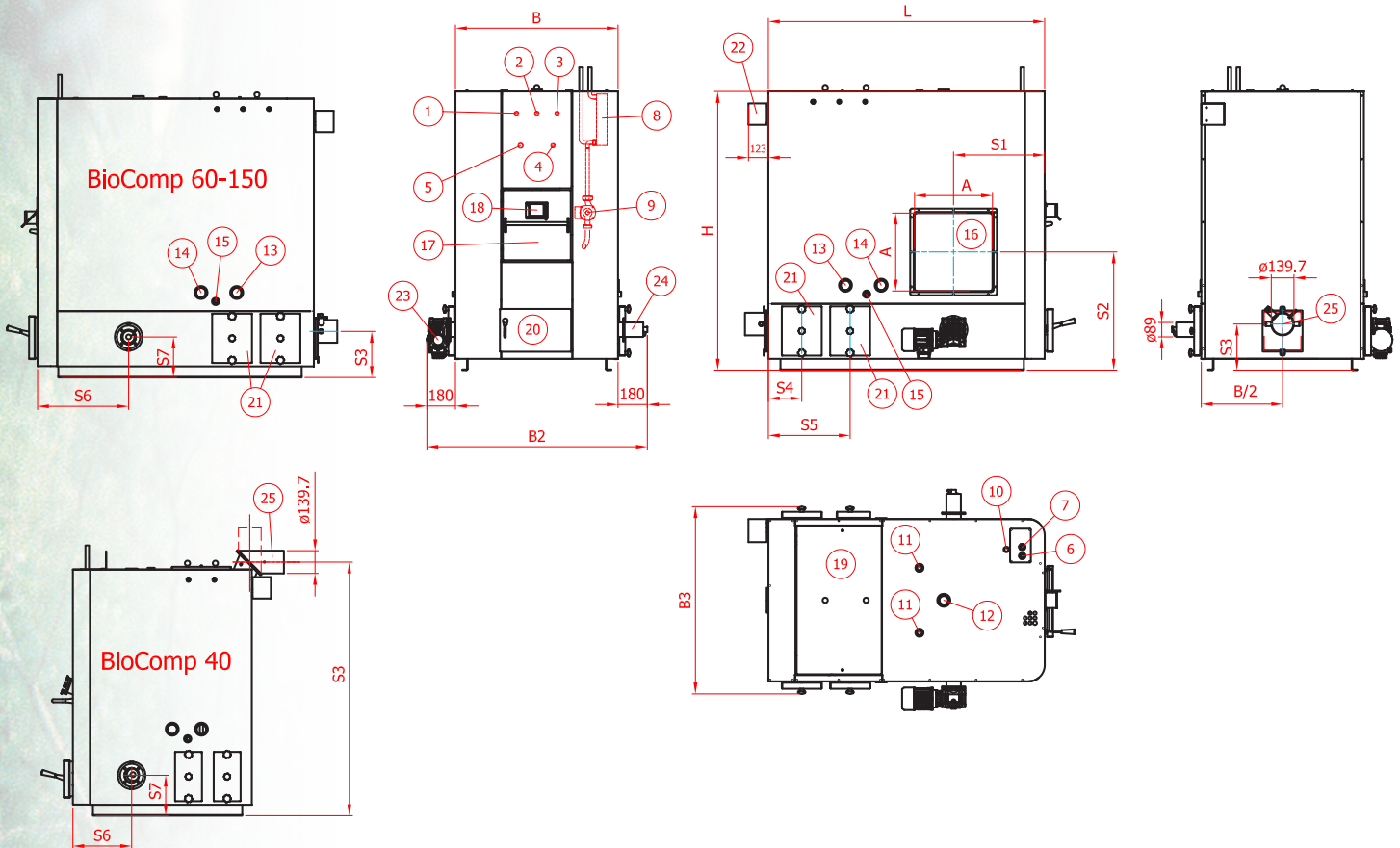
Boiler	BioComp 40	BioComp 60	BioComp 80	BioComp 120	BioComp 150	BioComp 200	BioComp 250	BioComp 300
Power, kW	40	60	80	120	150	200	250	300
Weight, kg	495	640	786	1035	1193	1550	1950	2400
Capacity, l	175	280	330	448	567	980	1160	1340
Max. working pressure, bar	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Max. working temperature, °C	130	130	130	130	130	130	130	130
Chimney ø, mm	150	150	150	200	200	250	250	250

Measurements

kW	40	60	80	120	150	200	250	300
A	250	360	400	440	480	518	588	658
B	610	680	820	900	1000	1282	1282	1282
B2	970	1040	1180	1260	1360	1642	1642	1642
B3	760	830	970	1050	1150	1432	1432	1432
H	1520	1520	1520	1720	1720	1866	2108	2354
L	1100	1260	1420	1530	1700	1989	1989	1989
S1	360	380	455	510	560	665	665	665
S2	610	670	690	710	730	837	837	837
S3	1563	284	284	284	284	284	284	284
S4	152	147	155	205	205	205	205	205
S5	390	425	435	505	505	505	505	505
S6	360	380	455	510	560	665	665	665
S7	250	250	250	250	250	250	250	250



Draft of BioComp 300 cross section



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| 1. Boiler water overheating protection DN 15 | 14. Electric resistance connection DN 50 |
| 2. Boiler water temperature sensor DN 15 | 15. Drain connection DN 20 |
| 3. Spare DN 15 | 16. Burner opening, right or left side |
| 4. Fire chamber overpressure switch DN 15 | 17. Maintenance hatch |
| 5. Fire chamber under/overpressure sensor DN 15 | 18. Viewing screen |
| 6. Cold water Ø 22 Cu | 19. Convector cleaning hatch |
| 7. Warm water Ø 22 Cu | 20. Ash hatch |
| 8. Plate heat exchanger | 21. Cleaning hatch |
| 9. Heat exchanger pump | 22. Convector cleaner motor |
| 10. Bleeding screw for the water network | 23. Ash screw motor |
| 11. Expansion / relief valve DN 25 | |
| 12. Flow to network DN 50 | |
| 13. Return from network DN 50 | |