



SEG BIO



Heat exchanger | vertical and horizontal convection channels | shelf

Effective design adapted for quick cleaning of the exchanger from the front. The construction of the boiler exchanger ensures high heat collection from the furnace.

Flue pipe outlet | at the back of the boiler

The boiler design has been designed in such a way that the flue pipe outlets are located at the back. The use of such a solution in a central heating boiler allows for direct discharge of the flue pipe to the chimney.

Limit switch

For your safety, the boiler is equipped with a limit switch. The end protection system is located in the boiler door and in the tank flap. Each time the door or tank flap is opened, the burner and other boiler elements are automatically stopped until they are closed again.

The PLATINUM PELLET controller supports:

- Pump (DHW, C.O., additional),
- One C.O.1 mixing circuit with a room thermostat,
- RTC clock with a weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder

The controller, based on information received from sensors, determines the fuel demand and doses the appropriate amount. The fuel combustion process itself is therefore very economical, ecological and does not require additional user service.

Swirlers

The swirlers installed in the convection channels effectively reduce the exhaust gas outlet velocity while maintaining high heat collection by the water jacket.

Fireman

Protects the fuel in the boiler tank from ignition.

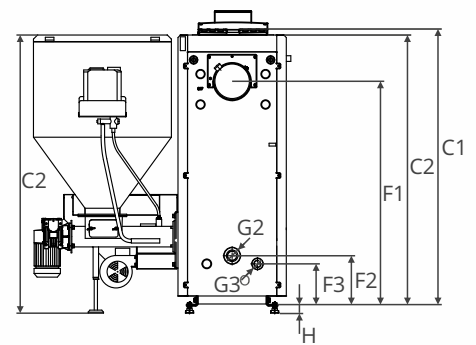
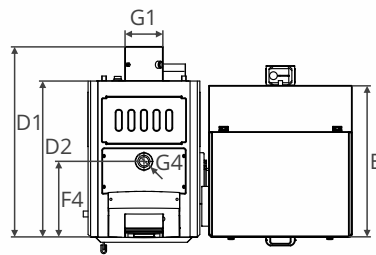
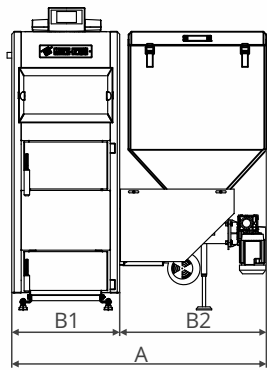
Gutter Burner

- Automatic ceramic igniter,
- Fuel: pell



Boiler model		SEG BIO 15	SEG BIO 20	SEG BIO 30	SEG BIO 40	SEG BIO 50	SEG BIO 75
Nominal power	[kW]	15	20	30	40	50	75
Heatable surface*	[m ²]	67,5-225	90-300	135-450	180-600	225-750	337,5-1125
Fuel	[-]	wood pellets according to the 303-5:2021-09 standard					
Water capacity	[L]	60	68	73	95	120	173
Fuel tank capacity	[L]	190	290	350	350	400	520
Fuel tank capacity	[kg]	114	174	210	210	240	312
Boiler weight	[kg]	396	474	510	530	725	855
Boiler class	[-]	5	5	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes	yes	yes
Energy class	[-]	A+	A+	A+	A+	A+	A+
Seasonal particulate emission	[mg/m ³]	19	19	19	19	19	19
Efficiency for nominal power	[%]	90,76	91,32	91,46	91,86	92,22	93,10
Nominal particulate emission	[mg/m ³]	19,5	18,4	18,7	18,8	18,8	18,9
Efficiency for minimum power	[%]	89,38	89,85	90,22	90,61	90,94	91,82
Minimum particulate emission	[mg/m ³]	19	19,3	19,3	19,4	19,5	19,5

*A new building with very good thermal insulation was assumed for the calculations.



Dimensions		SEG BIO 15	SEG BIO 20	SEG BIO 30	SEG BIO 40	SEG BIO 50	SEG BIO 75
A	[mm]	1256	1256	1256	1306	1406	1505
B1	[mm]	535	535	535	585	682	793
B2	[mm]	680	680	680	680	680	680
C1	[mm]	1160	1355	1415	1415	1484	1520
C2	[mm]	1130	1325	1385	1385	1454	1490
D1	[mm]	870	905	955	955	1218	1413
D2	[mm]	705	745	795	795	1003	1175
E	[mm]	707	720	776	766	850	1075
F1	[mm]	910	1105	1160	1160	1110	1115
F2	[mm]	213	247	245	245	337	350
F3	[mm]	213	207	205	205	190	175
F4	[mm]	350	360	410	410	535	545
G1	[mm]	180	180	180	180	220	220
G2	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½
G3	[cal]	¾	¾	¾	¾	¾	¾
G4	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½
H	[mm]	30	30	30	30	30	30

Additional equipment

Lambda probe	Measures oxygen in exhaust gases and controls its course by changing the fan power
ecoNET Internet module	Smartphone control, Wi-Fi or wired connection
Platinum Touch x40 room thermostat	Analog, wireless
Platinum Touch x80 room thermostat	Touch, wireless
Platinum ecoSTER100 room thermostat	Touch, wired, 5' display
Platinum B&C Module	The extension module can operate as a B or C module. Mode B allows you to extend the functionality of the boiler with: two additional heating circuits, 2x pumps, 2x mixer, 2x universal thermostat, output H. Mode C allows you to extend the functionality of the boiler with two additional heating circuits, 2x pumps, 2x mixer, 2x universal thermostat.