METAL-FACH
HEATING TECHNOLOGY

CATALOG

Central heating boilers

02 | 2024
English language

CONTENTS

METAL-FACH Heating Technology
Manufacturer of
Central Heating Boilers

METAL-FACH Heating Technology

METAL-FACH Heating Technology is a family company established in 1989. For all these years we have been developing the production of central heating boilers, which have become more and more efficient, economical and ecological every year. Our experience has been appreciated both on global markets and in Poland, thanks to obtaining such certificates as EcoDesign (EkoProjekt), 5th class, TÜV Rheinland. Boilers offered by the manufacturer METAL-FACH Heating Technology guarantee the highest quality, they are ecologically, environmentally friendly and financially beneficial for the user.


METAL-FACH
PALNIK
DW 15


DW 15

GRAND PELLET

DW | PPW

Heat Exchanger | vertical convection channels | tubular
An efficient design adapted for automatic cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet at the rear of the boiler | top, side adjustment with fan
The design of the boiler has been engineered so that the flue outlet is located at the rear. Such an arrangement in a central heating boiler allows for direct flue connection to the chimney.

Limit switch
For your safety, the boiler is equipped with a limit switch. The limit protection system is located in the boiler doors. Each time the doors are opened, the burner and other boiler components automatically stop working until the doors are closed again.

Extraction fan | adjustable height
The extraction fan effectively supports the natural draft of flue gases in the boiler.

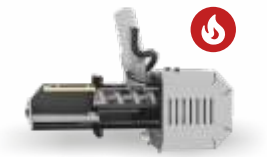
PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
Based on the information received from sensors, the controller determines the fuel demand and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional handling by the user.

Automatic ash removal system
The automatic ash removal process involves pushing the ash outside the boiler into two specially designed containers. Both ash collection containers have wheels and a handle, making them easy to pull or lift.

Turbulators | **with automatic cleaning**
The turbulators installed in the convective channels, combined with an automatic cleaning system, effectively reduce the flue gas outlet velocity. Regular cleaning ensures that the boiler maintains a constant high heat upyese through the water jacket. The use of automatic cleaning of convective channels contributes to reducing fuel demand.

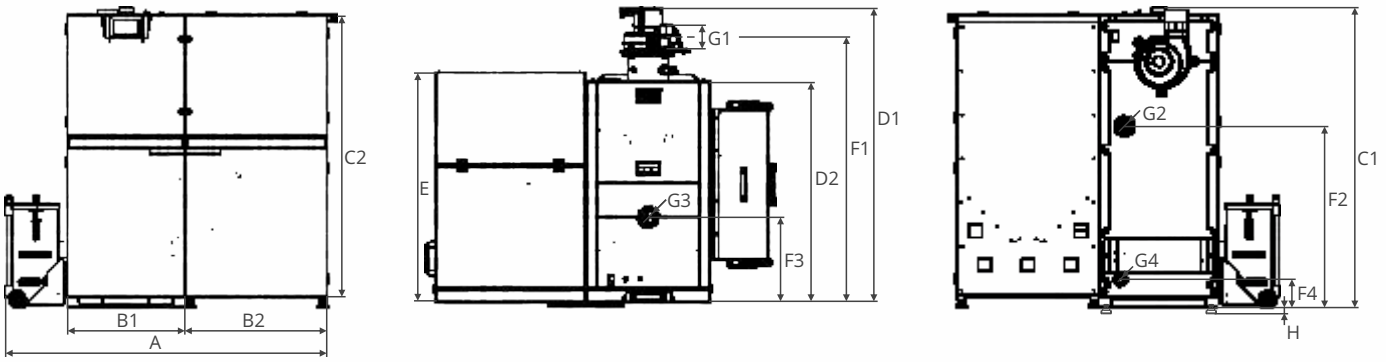
DW Self-Cleaning Burner
- Installed in boilers with a power of 15|20 kW,
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.



PPW Self-Cleaning Burner
- Installed in boilers with a power of 25|34 kW,
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

Boiler model		GRAND PELLET 15	GRAND PELLET 20	GRAND PELLET 25	GRAND PELLET 34
Nominal power	[kW]	15	20	25	34
Heating capacity*	[m²]	67,5-225	90-300	112,5-375	153-510
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	70	92	92	128
Fuel hopper capacity	[L]	270	270	270	290
Fuel hopper capacity	[kg]	162	162	162	174
Boiler weight	[kg]	400	440	445	585
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	18,16	13,92	16,05	16,81
Efficiency for nominal power	[%]	92,52	92,67	92,42	92,72
Nominal emissions of particulate matter	[mg/m³]	11,44	10,32	12,34	13,35
Efficiency for minimal power	[%]	92,98	92,93	92,84	92,26
Minimal emissions of particulate matter	[mg/m³]	19,35	10,32	16,70	17,42

*Calculations are based on a new building with very good thermal insulation.



Dimensions		GRAND PELLET 15	GRAND PELLET 20	GRAND PELLET 25	GRAND PELLET 34
A	[mm]	1400	1400	1400	1450
B1	[mm]	508	508	508	560
B2	[mm]	620	620	620	620
C1	[mm]	1300	1300	1300	1475
C2	[mm]	1300	1265	1265	1440
D1	[mm]	1030	1200	1200	1200
D2	[mm]	760	900	900	900
E	[mm]	940	940	940	940
F1	[mm]	905	1085	1085	1085
F2	[mm]	785	785	785	960
F3	[mm]	319	345	345	405
F4	[mm]	125	125	125	125
G1	[mm]	100	100	100	100
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	1 ½	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾	¾
H	[mm]	30	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	**(Standard equipment)** Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	**(Standard equipment)**
Automatic ash removal system	**(Standard equipment)**
Automatic self-cleaning heat exchanger	**(Standard equipment)**

GRAND PELLET

Heat exchanger | vertical convective channels | tubular
An efficient design adapted for automatic cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet | at the rear of the boiler
The boiler is designed in such a way that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for a direct connection of the flue to the chimney.

Limit switch
In the interest of your safety, the boiler is equipped with a limit switch. The end-stop safety system is placed in the boiler doors. Opening the doors automatically suspends the operation of the burner and other boiler components until they are closed again.

Extraction fan | adjustable height
The extraction fan effectively aids the natural draft of exhaust gases in the boiler.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

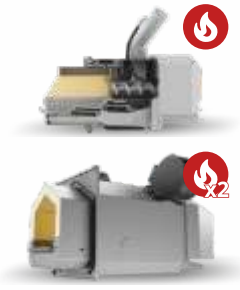
Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Automatic ash removal system
The automatic de-ashing process involves pushing the ash out of the boiler into two specially designed containers. Both ash collection containers are equipped with wheels and a handle, allowing for easy pulling or lifting.

Turbulators | with automatic cleaning
The turbulators installed in the convective channels, in conjunction with an automatic cleaning system, effectively reduce the exhaust gas exit velocity. Systematic cleaning ensures that the boiler maintains consistent high heat absorption through the water jacket. The implementation of automatic cleaning in the convective channels helps to reduce fuel consumption.

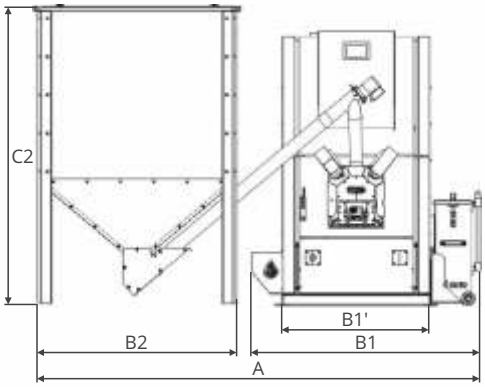
Steel screens
The use of steel screens in the combustion chamber improves the efficiency of the combustion process. The screens increase the temperature in the combustion chamber and capture particles floating above the firebed, burning them off. This enhances the boiler's thermal efficiency and minimizes the amount of harmful compounds in the exhaust gases.

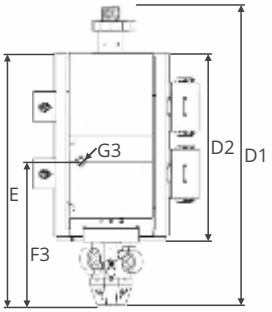
PPW Self-Cleaning Burner
- Automatic cleaning,
- Automatic ceramic igniter (50,75kW),
- Two automatic ceramic igniters (100,150kW),
- Fuel: pellet Φ6-8mm.

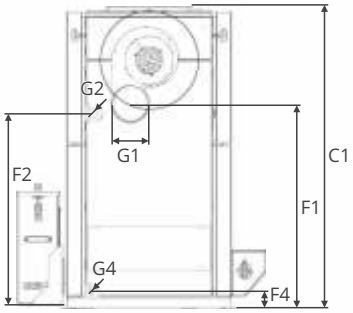


Boiler model		GRAND PELLET 50	GRAND PELLET 75	GRAND PELLET 100	GRAND PELLET 150
Nominal power	[kW]	50	75	100	150
Heating capacity*	[m²]	225-750	337,5-1125	450-1500	675-2250
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	245	245	360	360
Fuel hopper capacity	[L]	1000	1000	1000	1000
Fuel hopper capacity	[kg]	600	600	600	600
Boiler weight	[kg]	880	880	1095	1125
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	13,87	16,01	13,14	16,82
Efficiency for nominal power	[%]	92,82	92,75	92,83	92,78
Nominal emissions of particulate matter	[mg/m³]	10,04	12,15	10,14	11,64
Efficiency for minimal power	[%]	93,09	92,93	92,66	92,93
Minimal emissions of particulate matter	[mg/m³]	14,54	16,69	13,67	17,73

*Calculations are based on a new building with very good thermal insulation.





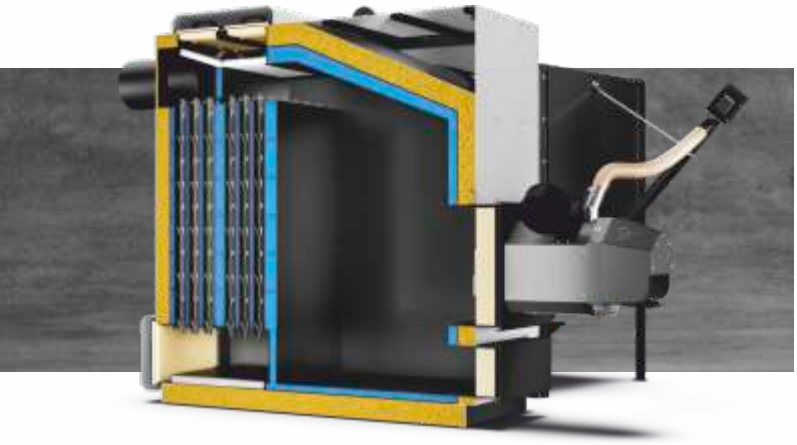


Dimensions		GRAND PELLET 50	GRAND PELLET 75	GRAND PELLET 100	GRAND PELLET 150
A	[mm]	2429	2429	2429	2429
B1 | B1'	[mm]	1255 | 815	1255 | 815	1255 | 815	1255 | 815
B2	[mm]	1111	1111	1111	1111
C1	[mm]	1475	1475	1715	1715
C2	[mm]	1636	1636	1636	1636
D1	[mm]	2190	2190	2500	2600
D2	[mm]	1450	1450	1600	1600
E	[mm]	1890	1890	2130	2230
F1	[mm]	1015	1015	1345	1345
F2	[mm]	970	970	1250	1250
F3	[mm]	1000	1000	1140	1240
F4	[mm]	145	145	145	145
G1	[mm]	180	180	185	185
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	1 ½	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾	¾
H	[mm]	-	-	-	-

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	**(Standard equipment)** Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	**(Standard equipment)**
Automatic ash removal system	**(Standard equipment)**
Automatic self-cleaning heat exchanger	**(Standard equipment)**

GRAND PELLET



Heat exchanger | vertical convective channels | tubular
An efficient design adapted for automatic cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

Extraction fan | adjustable height
(Additional equipment)
The extraction fan effectively assists the natural draft of exhaust gases in the boiler.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

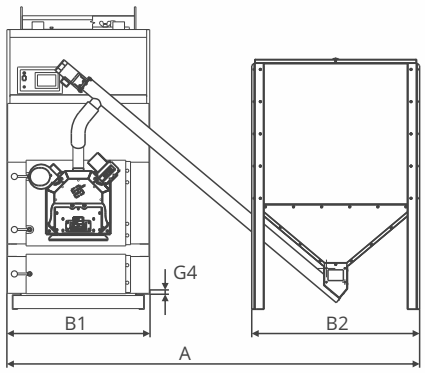
Automatic ash removal system
(Additional equipment)
The automatic de-ashing process involves pushing the ash out of the boiler into two specially designed containers. Both ash collection containers are equipped with wheels and a handle, allowing for easy pulling or lifting.

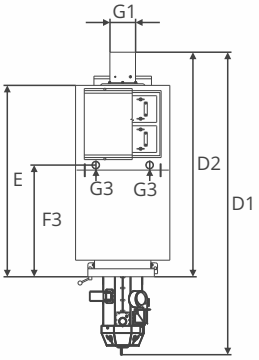
Turbulators | **with automatic cleaning**
(Additional equipment)
The turbulators installed in the convective channels, in conjunction with an automatic cleaning system, effectively reduce the exhaust gas exit velocity. Systematic cleaning ensures that the boiler maintains consistent high heat absorption through the water jacket. The implementation of automatic cleaning in the convective channels helps to reduce fuel consumption.

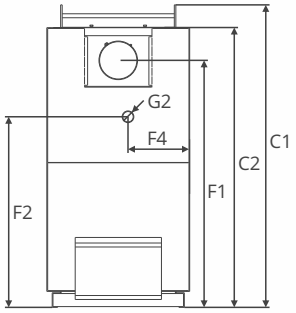
PPW Self-Cleaning Burner
- Automatic cleaning,
- Two automatic ceramic igniters,
- Fuel: pellet Φ6-8mm.

Boiler model		GRAND PELLET 200
Nominal power	[kW]	200
Heating capacity*	[m²]	900-3000
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09
Water capacity	[L]	530
Fuel hopper capacity	[L]	1000
Fuel hopper capacity	[kg]	600
Boiler weight	[kg]	2100
Boiler class	[-]	5
EcoDesign	[-]	yes
Energetic class	[-]	A+
Seasonal emissions of particulate matter	[mg/m³]	17,85
Efficiency for nominal power	[%]	92,91
Nominal emissions of particulate matter	[mg/m³]	12,32
Efficiency for minimal power	[%]	92,17
Minimal emissions of particulate matter	[mg/m³]	18,83

*Calculations are based on a new building with very good thermal insulation.







Dimensions		GRAND PELLET 200
A	[mm]	2700
B1	[mm]	930
B2	[mm]	1111
C1	[mm]	1969
C2	[mm]	1872
D1	[mm]	2952
D2	[mm]	2162
E	[mm]	1838
F1	[mm]	1608
F2	[mm]	1252
F3	[mm]	1060
F4	[mm]	400
G1	[mm]	250
G2	[cal]	2
G3	[cal]	2
G4	[cal]	¾
H	[mm]	-

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	**(Standard equipment)** Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	
Automatic ash removal system	
Automatic self-cleaning heat exchanger	

GRAND PELLET

Heat exchanger | horizontal convective channels | tubular
An efficient design adapted for automatic cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

Extraction fan | adjustable height
(Additional equipment)
The extraction fan effectively assists the natural draft of exhaust gases in the boiler.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Automatic ash removal system
(Additional equipment)
The automatic de-ashing process involves pushing the ash out of the boiler into two specially designed containers. Both ash collection containers are equipped with wheels and a handle, allowing for easy pulling or lifting.

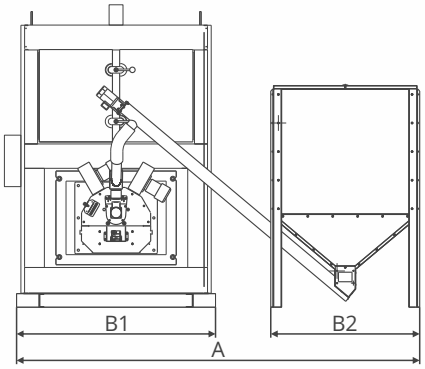
Turbulators | **with automatic cleaning**
(Additional equipment)
The turbulators installed in the convective channels, in conjunction with an automatic cleaning system, effectively reduce the exhaust gas exit velocity. Systematic cleaning ensures that the boiler maintains consistent high heat absorption through the water jacket. The implementation of automatic cleaning in the convective channels helps to reduce fuel consumption.

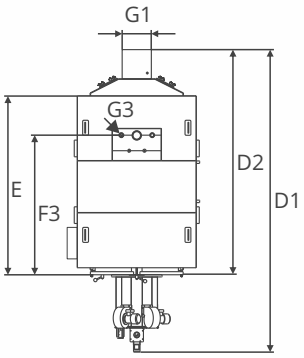
Steel screens
The use of steel screens in the combustion chamber improves the efficiency of the combustion process. The screens increase the temperature in the combustion chamber and capture particles floating above the firebed, burning them off. This enhances the boiler's thermal efficiency and minimizes the amount of harmful compounds in the exhaust gases.

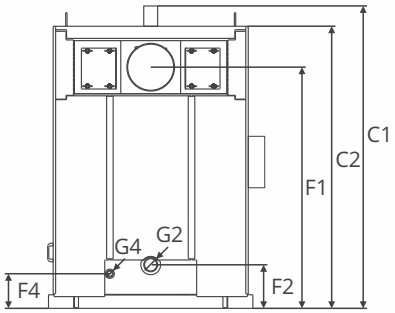
PPW Self-Cleaning Burner
- Automatic cleaning,
- Two automatic ceramic igniters,
- Fuel: pellet Φ6-8mm.

Boiler model		GRAND PELLET 300
Nominal power	[kW]	300
Heating capacity*	[m²]	1350-4500
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09
Water capacity	[L]	1266
Fuel hopper capacity	[L]	1000
Fuel hopper capacity	[kg]	600
Boiler weight	[kg]	2800
Boiler class	[-]	5
EcoDesign	[-]	yes
Energetic class	[-]	A+
Seasonal emissions of particulate matter	[mg/m³]	18
Efficiency for nominal power	[%]	90,5
Nominal emissions of particulate matter	[mg/m³]	19
Efficiency for minimal power	[%]	89,9
Minimal emissions of particulate matter	[mg/m³]	18

*Calculations are based on a new building with very good thermal insulation.







Dimensions		GRAND PELLET 300
A	[mm]	2970
B1	[mm]	1500
B2	[mm]	1111
C1	[mm]	2220
C2	[mm]	2100
D1	[mm]	3630
D2	[mm]	2729
E	[mm]	2060
F1	[mm]	1770
F2	[mm]	206
F3	[mm]	-
F4	[mm]	-
G1	[mm]	350
G2	[cal]	1 ¼
G3	[cal]	1 ¼
G4	[cal]	-
H	[mm]	-

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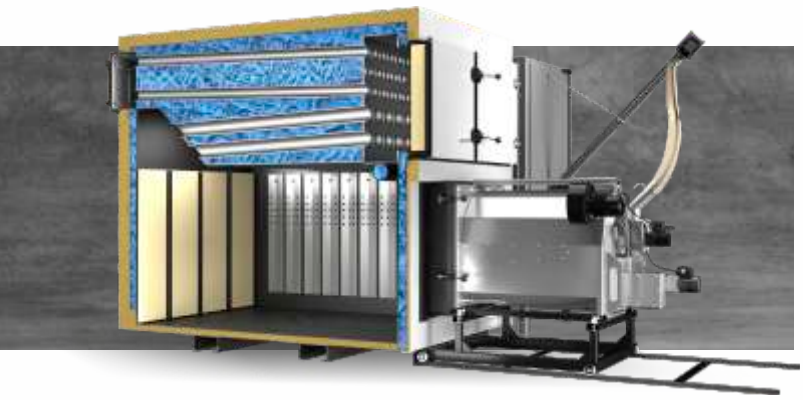
Extractor fan	
Automatic ash removal system	
Automatic self-cleaning heat exchanger	

GRAND PELLET



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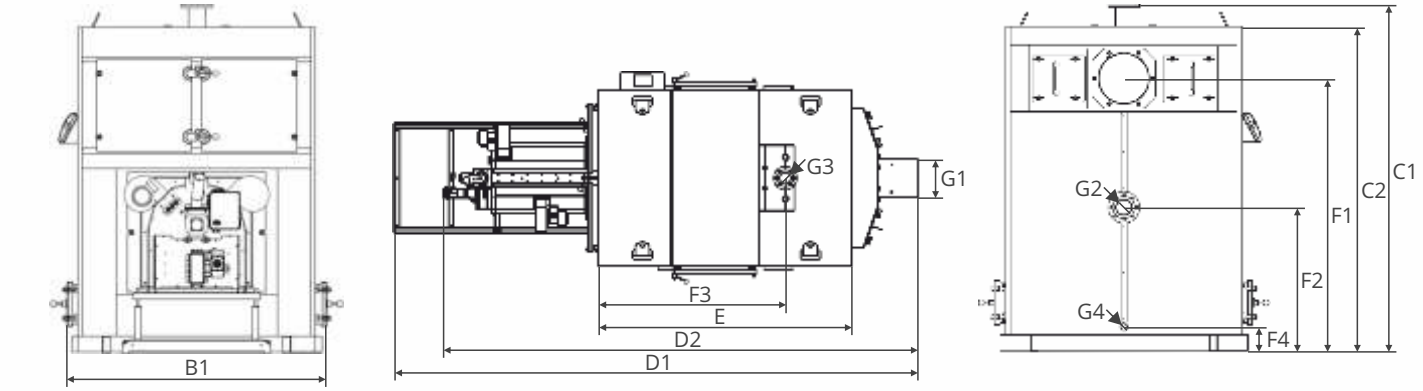
PPW Self-Cleaning Burner
- Automatic cleaning,
- Two automatic ceramic igniters,
- Fuel: pellet Φ6-8mm.

Boiler model		GRAND PELLET 400	GRAND PELLET 500
Nominal power	[kW]	400	500
Heating capacity*	[m²]	1800-6000	2250-7500
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09	
Water capacity	[L]	1500	1750
Fuel hopper capacity	[L]	1000	1000
Fuel hopper capacity	[kg]	600	600
Boiler weight	[kg]	-	-
Boiler class	[-]	5	5
EcoDesign	[-]	yes	yes
Energetic class	[-]	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	19	19
Efficiency for nominal power	[%]	90,7	91
Nominal emissions of particulate matter	[mg/m³]	18	18
Efficiency for minimal power	[%]	90,9	90,5
Minimal emissions of particulate matter	[mg/m³]	19	19

*Calculations are based on a new building with very good thermal insulation.



Dimensions		GRAND PELLET 400	GRAND PELLET 500
A	[mm]	-	-
B1	[mm]	-	-
B2	[mm]	1714	1921
C1	[mm]	2310	2310
C2	[mm]	2160	2160
D1	[mm]	4721	4721
D2	[mm]	4270	4270
E	[mm]	2284	2284
F1	[mm]	1818	1818
F2	[mm]	960	960
F3	[mm]	-	-
F4	[mm]	165	165
G1	[mm]	-	-
G2	[cal]	-	-
G3	[cal]	-	-
G4	[cal]	-	-
H	[mm]	-	-

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	**(Standard equipment)** Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	
Automatic ash removal system	
Automatic self-cleaning heat exchanger	

SLIM PELLET

Heat exchanger | horizontal convective channels | tubular
An efficient design adapted for quick cleaning of the exchanger from the front. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet at the rear of the boiler | top and side adjustment with fan
The design of the boiler has been engineered so that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for direct routing of the flue to the chimney.

Extraction fan | adjustable height
(Additional equipment)
The extraction fan effectively assists the natural draft of exhaust gases in the boiler.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

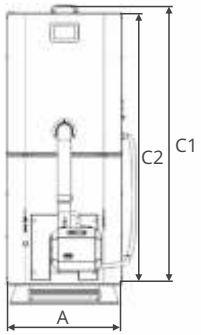
Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

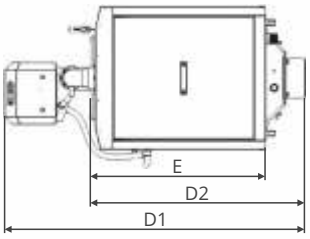
Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

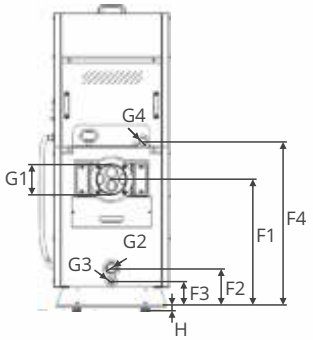
DW Self-Cleaning Burner
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

Boiler model		SLIM PELLET 10	SLIM PELLET 15	SLIM PELLET 20
Nominal power	[kW]	10	15	20
Heating capacity*	[m²]	45-150	67,5-225	90-300
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09		
Water capacity	[L]	45	65	75
Fuel hopper capacity	[L]	120	160	180
Fuel hopper capacity	[kg]	72	96	108
Boiler weight	[kg]	260	310	340
Boiler class	[-]	5	5	5
EcoDesign	[-]	yes	yes	yes
Energetic class	[-]	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	17,84	17,25	15,82
Efficiency for nominal power	[%]	92,26	92,07	92,51
Nominal emissions of particulate matter	[mg/m³]	15,05	16,13	15,07
Efficiency for minimal power	[%]	91,05	91,10	91,58
Minimal emissions of particulate matter	[mg/m³]	18,33	17,45	15,95

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SLIM PELLET 10	SLIM PELLET 15	SLIM PELLET 20
A	[mm]	590	590	690
B1	[mm]	-	-	-
B2	[mm]	-	-	-
C1	[mm]	1550	1550	1550
C2	[mm]	1510	1510	1510
D1	[mm]	1250	1465	1465
D2	[mm]	870	1090	1090
E	[mm]	705	920	920
F1	[mm]	656	656	656
F2	[mm]	200	200	200
F3	[mm]	130	130	130
F4	[mm]	850	850	868
G1	[mm]	160	160	160
G2	[cal]	1 ¼	1 ¼	1 ¼
G3	[cal]	¾	¾	¾
G4	[cal]	1 ¼	1 ¼	1 ¼
H	[mm]	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	

SLIM PELLET MINI

Heat exchanger | horizontal convective channels | tubular
An efficient design adapted for quick cleaning of the exchanger from the front. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

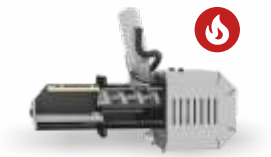
PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

Flue outlet at the rear of the boiler | top and side adjustment with fan
The design of the boiler has been engineered so that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for direct routing of the flue to the chimney.

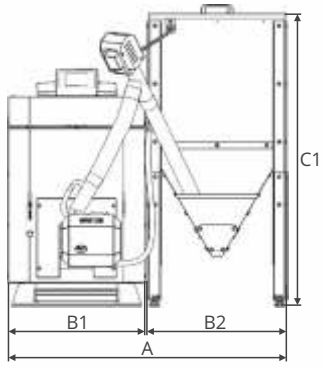
DW Self-Cleaning Burner
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

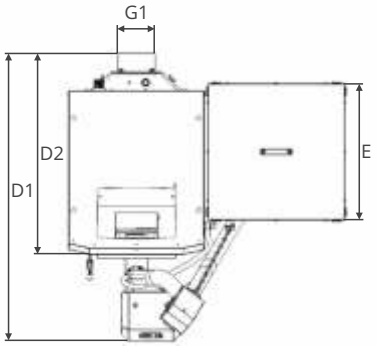


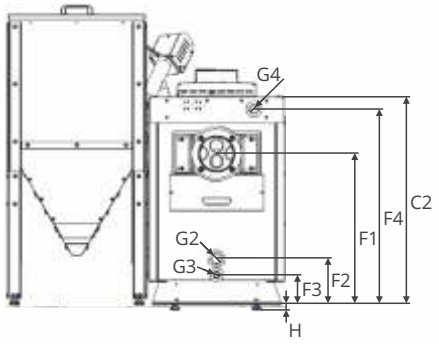
Extraction fan | adjustable height
(Additional equipment)
The extraction fan effectively assists the natural draft of exhaust gases in the boiler.

Boiler model		SLIM PELLET MINI 10	SLIM PELLET MINI 15	SLIM PELLET MINI 20
Nominal power	[kW]	10	15	20
Heating capacity*	[m²]	45-150	67,5-225	90-300
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09		
Water capacity	[L]	45	65	75
Fuel hopper capacity	[L]	230	230	230
Fuel hopper capacity	[kg]	138	138	138
Boiler weight	[kg]	270	305	345
Boiler class	[-]	5	5	5
EcoDesign	[-]	yes	yes	yes
Energetic class	[-]	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	17,84	17,25	15,82
Efficiency for nominal power	[%]	92,26	92,07	92,51
Nominal emissions of particulate matter	[mg/m³]	15,05	16,13	15,07
Efficiency for minimal power	[%]	91,05	91,10	91,58
Minimal emissions of particulate matter	[mg/m³]	18,33	17,45	15,95

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SLIM PELLET MINI 10	SLIM PELLET MINI 15	SLIM PELLET MINI 20
A	[mm]	1200	1200	1300
B1	[mm]	590	590	690
B2	[mm]	605	605	605
C1	[mm]	1270	1270	1270
C2	[mm]	905	905	905
D1	[mm]	1250	1465	1465
D2	[mm]	870	1090	1090
E	[mm]	605	605	605
F1	[mm]	656	656	656
F2	[mm]	200	200	200
F3	[mm]	130	130	130
F4	[mm]	850	850	868
G1	[mm]	160	160	160
G2	[cal]	1 ¼	1 ¼	1 ¼
G3	[cal]	¾	¾	¾
G4	[cal]	1 ¼	1 ¼	1 ¼
H	[mm]	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

Extractor fan

SMART PELLET WF PRO

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Heat exchanger | horizontal convective channels | shelf-type
An efficient design adapted for quick front cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Flue outlet | at the rear or top of the boiler
The boiler is designed to have the flue outlet positioned either at the rear or the top. This design feature in a central heating boiler allows for either direct or indirect routing of the flue to the chimney.

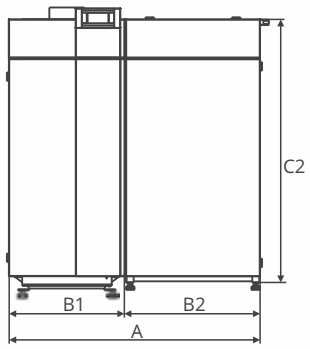
Ceramic plates
The use of ceramic plates in the combustion chamber improves the efficiency of the combustion process. These screens elevate the temperature in the combustion chamber and capture airborne particles above the firebed, burning them off. This results in increased thermal efficiency of the boiler and reduced emissions of harmful environmental compounds.

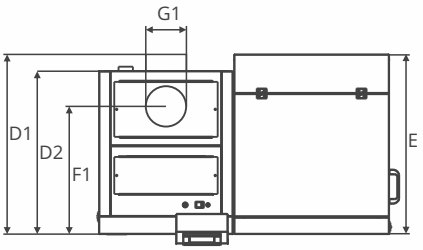
Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

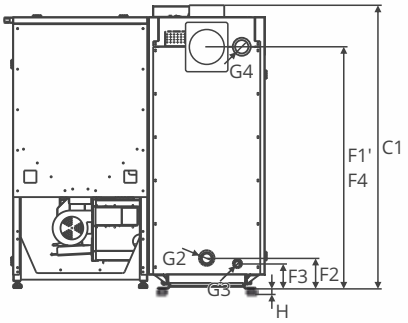
PPW Self-Cleaning Burner
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

Boiler model		SMART PELLET WF PRO 16	SMART PELLET WF PRO 20	SMART PELLET WF PRO 25	SMART PELLET WF PRO 32
Nominal power	[kW]	16	20	25	32
Heating capacity*	[m^2]	72-240	90-300	112,5-375	144-480
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	48	60	71	80
Fuel hopper capacity	[L]	160	175	200	290
Fuel hopper capacity	[kg]	96	105	120	174
Boiler weight	[kg]	335	405	445	495
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m^3]	16,47	17,27	17,25	17,02
Efficiency for nominal power	[%]	92,13	92,36	92,22	92,44
Nominal emissions of particulate matter	[mg/m^3]	11,09	12,94	15,93	15,02
Efficiency for minimal power	[%]	92,68	91,92	91,59	91,57
Minimal emissions of particulate matter	[mg/m^3]	17,42	18,03	17,48	17,37

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SMART PELLET WF PRO 16	SMART PELLET WF PRO 20	SMART PELLET WF PRO 25	SMART PELLET WF PRO 32
A	[mm]	1150	1150	1200	1200
B1	[mm]	530	530	580	580
B2	[mm]	615	615	615	615
C1	[mm]	1345	1400	1400	1490
C2	[mm]	1295	1350	1350	1450
D1	[mm]	770	840	930	955
D2	[mm]	646	716	806	806
E	[mm]	712	716	806	806
F1/F1'	[mm]	520 | 1100	590 | 1160	680 | 1160	665 | 1255
F2	[mm]	140	140	140	140
F3	[mm]	115	115	115	115
F4	[mm]	1100	1160	1160	1255
G1	[mm]	160	160	160	180
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	¾	¾	¾	¾
G4	[cal]	1 ½	1 ½	1 ½	1 ½
H	[mm]	30	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SMART BIO

Heat exchanger | horizontal convective channels | shelf-type
An efficient design adapted for quick front cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat recovery from the combustion chamber.

Flue outlet | at the rear or top of the boiler
The boiler is designed to have the flue outlet positioned either at the rear or the top. This design feature in a central heating boiler allows for either direct or indirect routing of the flue to the chimney.

Limit switch
For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

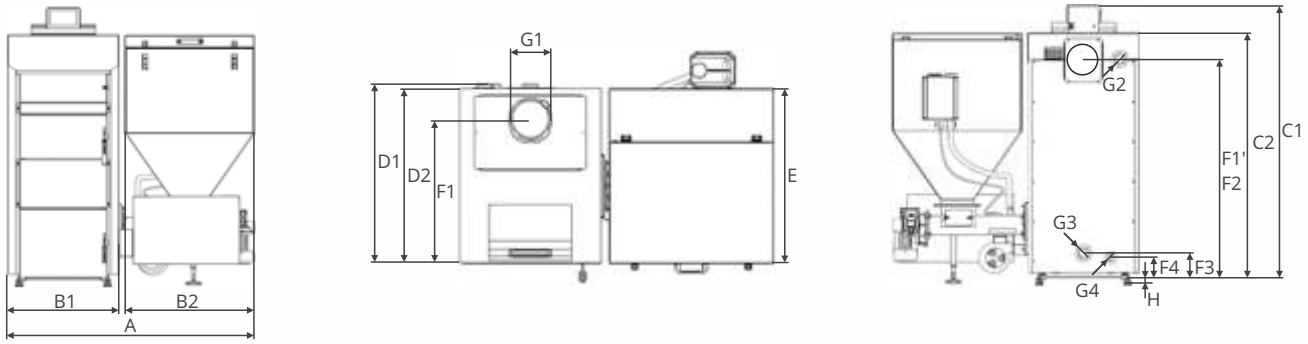
Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Ceramic plates
The use of ceramic plates in the combustion chamber improves the efficiency of the combustion process. These screens elevate the temperature in the combustion chamber and capture airborne particles above the firebed, burning them off. This results in increased thermal efficiency of the boiler and reduced emissions of harmful environmental compounds.

Gutter burner
- Automatic ceramic igniter,
- Fuel: pellets Φ6-8mm.

Boiler model		SMART BIO 15	SMART BIO 20	SMART BIO 25	SMART BIO 30
Nominal power	[kW]	15	20	25	30
Heating capacity*	[m²]	67,5-225	90-300	112,5-375	135-450
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	48	60	71	80
Fuel hopper capacity	[L]	190	200	260	260
Fuel hopper capacity	[kg]	114	120	156	156
Boiler weight	[kg]	335	360	410	430
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	19	14	19	-
Efficiency for nominal power	[%]	90,7	90,2	90,6	90,7
Nominal emissions of particulate matter	[mg/m³]	20	10	15	15
Efficiency for minimal power	[%]	89,9	90,0	90,0	90,2
Minimal emissions of particulate matter	[mg/m³]	12	15	20	16

*Calculations are based on a new building with very good thermal insulation.

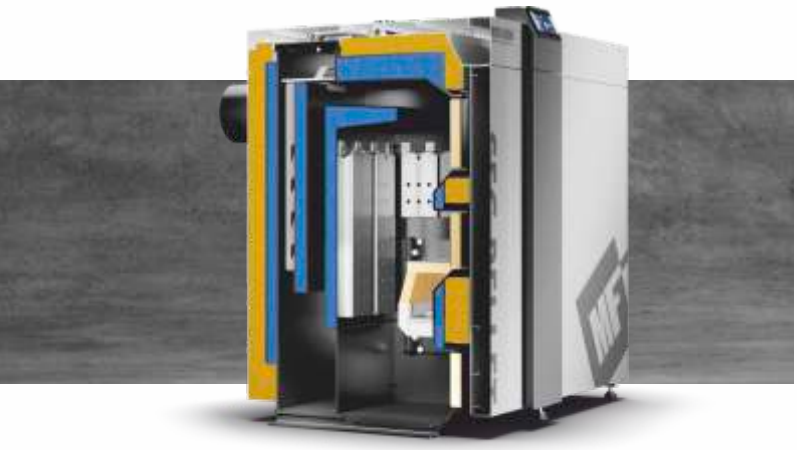


Dimensions		SMART BIO 15	SMART BIO 20	SMART BIO 25	SMART BIO 30
A	[mm]	1150	1135	1300	1300
B1	[mm]	535	535	585	585
B2	[mm]	580	580	680	680
C1	[mm]	1340	1400	1400	1485
C2	[mm]	1240	1300	1300	1395
D1	[mm]	590	660	750	750
D2	[mm]	560	630	720	720
E	[mm]	-	-	-	-
F1/F1'	[mm]	435/1100	505/1155	595/1155	580/1190
F2	[mm]	1100	1160	1160	1255
F3	[mm]	140	140	140	140
F4	[mm]	115	115	115	115
G1	[mm]	160	160	160	180
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	1 ½	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾	¾
H	[mm]	30	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SEG PELLET



PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Heat exchanger | horizontal and vertical convection channels | shelf-type
An efficient design facilitates quick cleaning of the exchanger from both the front and top. This design of the boiler heat exchanger ensures optimal heat extraction from the furnace.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

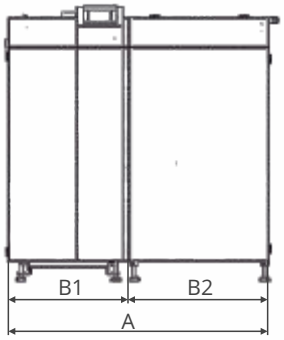
Steel screens
The use of steel screens in the combustion chamber improves the efficiency of the combustion process. The screens increase the temperature in the combustion chamber and capture particles floating above the firebed, burning them off. This enhances the boiler's thermal efficiency and minimizes the amount of harmful compounds in the exhaust gases.

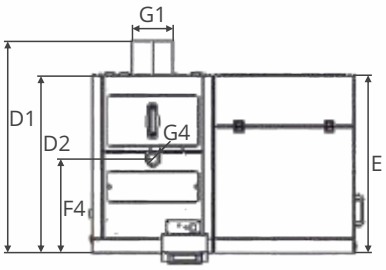
Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

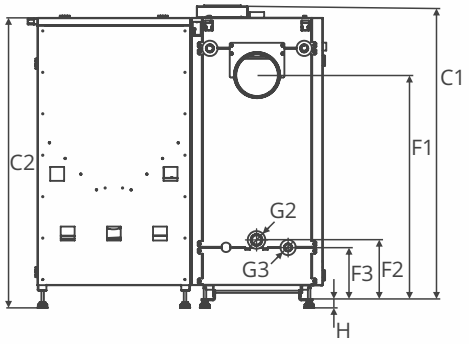
PPW Self-Cleaning Burner
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

Boiler model		SEG PELLET 15	SEG PELLET 20	SEG PELLET 25	SEG PELLET 30
Nominal power	[kW]	15	20	25	30
Heating capacity*	[m²]	67,5-225	90-300	112,5-375	135-450
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	66	74	83	95
Fuel hopper capacity	[L]	150	220	230	230
Fuel hopper capacity	[kg]	90	132	138	138
Boiler weight	[kg]	379	453	484	488,5
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	17	17	28	28
Efficiency for nominal power	[%]	91,2	91,1	91,2	91,3
Nominal emissions of particulate matter	[mg/m³]	19	14	19	19
Efficiency for minimal power	[%]	90,1	89,1	90,3	90,2
Minimal emissions of particulate matter	[mg/m³]	16	17	28	29

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SEG PELLET 15	SEG PELLET 20	SEG PELLET 25	SEG PELLET 30
A	[mm]	1150	1150	1110	1160
B1	[mm]	530	530	530	580
B2	[mm]	615	615	570	540
C1	[mm]	1185	1380	1440	1440
C2	[mm]	-	-	-	-
D1	[mm]	930	970	1020	1020
D2	[mm]	780	815	860	860
E	[mm]	-	-	-	-
F1	[mm]	908	1105	1162	1162
F2	[mm]	214	250	246	246
F3	[mm]	214	210	206	206
F4	[mm]	413	423	472	472
G1	[mm]	180	180	180	180
G2	[cal]	¾	¾	¾	¾
G3	[cal]	1 ½	1 ½	1 ½	1 ½
G4	[cal]	1 ½	1 ½	1 ½	1 ½
H	[mm]	30	30	30	30

Additional equipment	
Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SEG PELLET

Heat exchanger | horizontal and vertical convection channels | shelf-type
An efficient design facilitates quick cleaning of the exchanger from both the front and top. This design of the boiler heat exchanger ensures optimal heat extraction from the furnace.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit Switch
With your safety in mind, the boiler is equipped with a limit switch. This end-stop safety system is installed in the boiler's doors. Opening the doors automatically halts the operation of the burner and other boiler components, until they are closed again.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

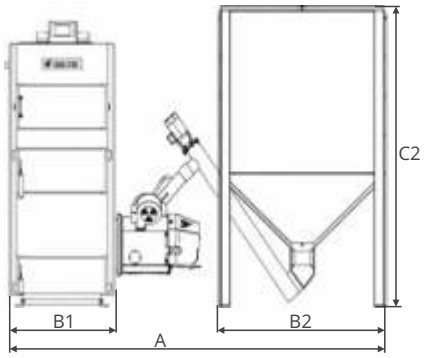
Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

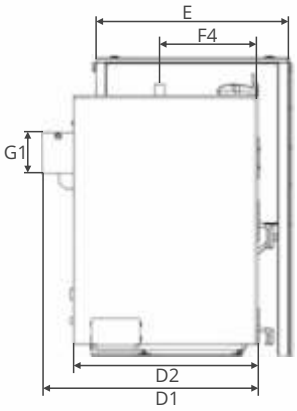
Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

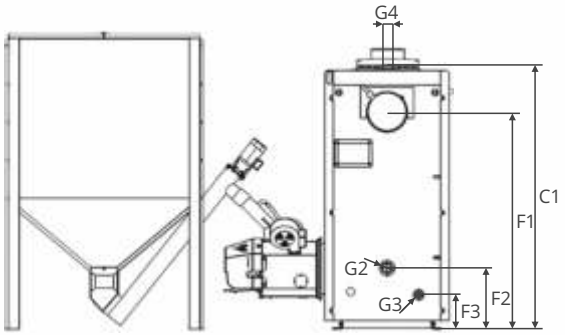
PPW Self-Cleaning Burner
- Automatic cleaning,
- Two automatic ceramic igniters,
- Fuel: pellet Φ6-8mm.

Boiler model		SEG PELLET 42	SEG PELLET 60	SEG PELLET 75	SEG PELLET 100
Nominal power	[kW]	42	60	75	100
Heating capacity*	[m²]	189-630	270-900	337,5-1125	450-1500
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	95	-	173	-
Fuel hopper capacity	[L]	230	1000	1000	1000
Fuel hopper capacity	[kg]	138	600	600	600
Boiler weight	[kg]	488,5	-	855	-
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	-	20	19	20
Efficiency for nominal power	[%]	90,5	91,3	89,4	89,3
Nominal emissions of particulate matter	[mg/m³]	19	16	19	18
Efficiency for minimal power	[%]	89,6	90,1	88,9	89
Minimal emissions of particulate matter	[mg/m³]	36	20	19	20

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SEG PELLET 42	SEG PELLET 60	SEG PELLET 75	SEG PELLET 100
A	[mm]	1160	-	2444	-
B1	[mm]	580	-	793	-
B2	[mm]	540	1093	1093	1093
C1	[mm]	1140	-	1520	-
C2	[mm]	-	1629	1629	1629
D1	[mm]	1020	-	1413	-
D2	[mm]	860	-	1175	-
E	[mm]	-	1093	1093	1093
F1	[mm]	1162	-	1115	-
F2	[mm]	246	-	350	-
F3	[mm]	206	-	175	-
F4	[mm]	472	-	545	-
G1	[mm]	180	-	220	-
G2	[cal]	¾	-	1 ½	-
G3	[cal]	1 ½	-	¾	-
G4	[cal]	-	-	-	-
H	[mm]	30	-	-	-

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SEG BIO

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Heat exchanger | horizontal and vertical convection channels | shelf-type
An efficient design facilitates quick cleaning of the exchanger from both the front and top. This design of the boiler heat exchanger ensures optimal heat extraction from the furnace.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

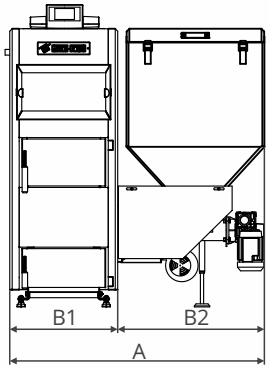
Fire watcher
It safeguards the fuel in the boiler hopper from ignition.

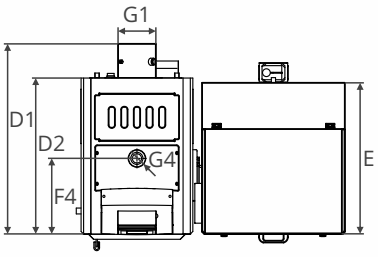
Limit switch
For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

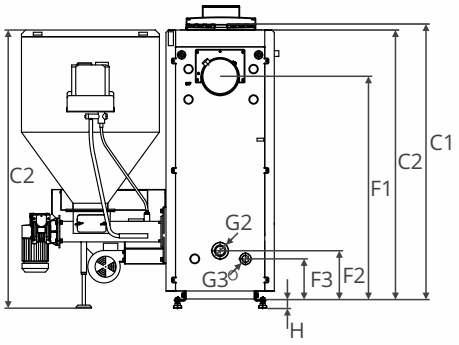
Gutter burner
- Automatic ceramic igniter,
- Fuel: pellets Φ6-8mm.

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
Heating capacity*	[m²]	67,5-225	90-300	135-450	180-600	225-750	337,5-1125
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09					
Water capacity	[L]	60	68	73	95	120	173
Fuel hopper capacity	[L]	190	290	350	350	400	520
Fuel hopper 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
Energetic class	[-]	A+	A+	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	19	19	19	19	19	19
Efficiency for nominal power	[%]	90,76	91,32	91,46	91,86	92,22	93,10
Nominal emissions of particulate matter	[mg/m³]	19,5	18,4	18,7	18,8	18,8	18,9
Efficiency for minimal power	[%]	89,38	89,85	90,22	90,61	90,94	91,82
Minimal emissions of particulate matter	[mg/m³]	19	19,3	19,3	19,4	19,5	19,5

*Calculations are based on a new building with very good thermal insulation.







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	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SD DUO BIO

Heat exchanger | horizontal convection channels | shelf-type
This heat exchanger features an efficient design for fast and easy cleaning. It can be quickly cleaned from the front. The structure of this boiler exchanger is designed to ensure high heat removal from the furnace, enhancing its efficiency and performance.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit switch
For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

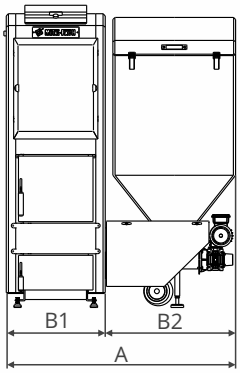
Fire watcher
It safeguards the fuel in the boiler hopper from ignition.

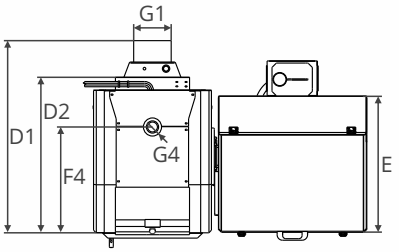
Exhaust gas guide
Elevates the temperature in the combustion chamber, enhancing the emission parameters of the boiler.

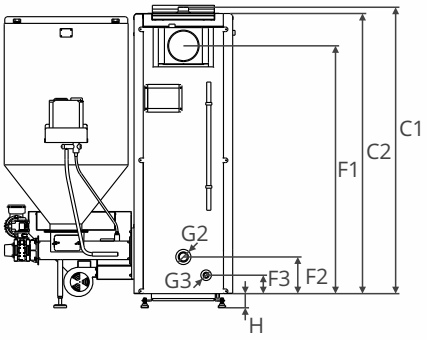
Gutter burner
- Automatic ceramic igniter,
- Fuel: pellets Φ6-8mm.

Boiler model		SD DUO BIO 16	SD DUO BIO 20	SD DUO BIO 28	SD DUO BIO 34
Nominal power	[kW]	16	20	28	34
Heating capacity*	[m²]	72-240	90-300	126-420	153-510
Fuel	[-]	Wood pellets in accordance with standard 303-5:2021-09			
Water capacity	[L]	78	84	90	100
Fuel hopper capacity	[L]	300	300	300	300
Fuel hopper capacity	[kg]	180	180	180	180
Boiler weight	[kg]	460	475	495	520
Boiler class	[-]	5	-	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	14	26	14	10
Efficiency for nominal power	[%]	-	90,1	-	90,1
Nominal emissions of particulate matter	[mg/m³]	-	26	-	13
Efficiency for minimal power	[%]	-	89,1	-	90,7
Minimal emissions of particulate matter	[mg/m³]	-	26	-	9

*Calculations are based on a new building with very good thermal insulation.





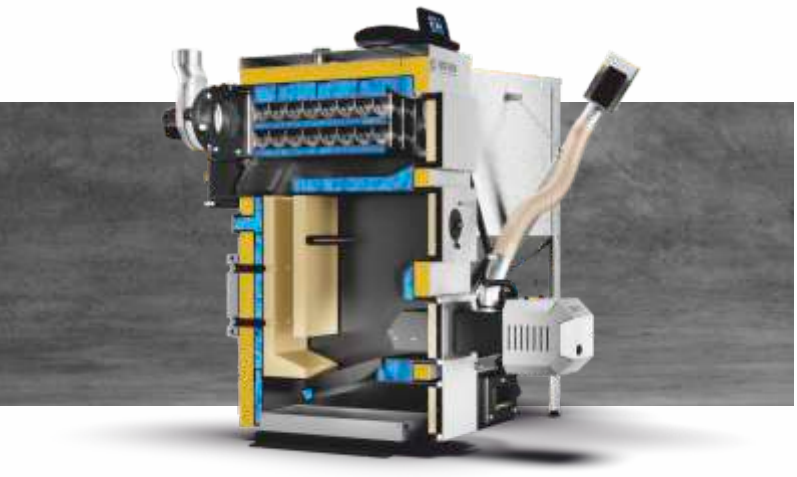


Dimensions		SD DUO BIO 16	SD DUO BIO 20	SD DUO BIO 28	SD DUO BIO 34
A	[mm]	1245	1245	1245	1300
B1	[mm]	541	541	541	591
B2	[mm]	680	680	680	680
C1	[mm]	1665	1665	1665	1665
C2	[mm]	1635	1635	1635	1635
D1	[mm]	830	880	930	930
D2	[mm]	653	703	753	753
E	[mm]	595	595	595	595
F1	[mm]	1400	1400	1400	1400
F2	[mm]	244	244	244	244
F3	[mm]	144	144	144	144
F4	[mm]	442	487	537	537
G1	[mm]	180	180	180	200
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	¾	¾	¾	¾
G4	[cal]	1 ½	1 ½	1 ½	1 ½
H	[mm]	30	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SEM DUOPELL



Wood gasification boiler
It proves to be an ideal solution for farms that have substantial supplies of properly stored firewood.

Heat exchanger|horizontal convection channels|shelf-type and tubular
An efficient design adapted for quick cleaning of the heat exchanger from the front. The construction of the boiler's heat exchanger ensures high heat transfer from the furnace.

Flue outlet at the rear of the boiler|top and side adjustment with fan
The design of the boiler has been engineered so that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for direct routing of the flue to the chimney.

Extraction fan*
It is mounted using an adapter to the rear vertical wall of the flue outlet. The fan generates the necessary draft required for efficient fuel combustion.

***NOTE!**
Air is regulated using exhaust and forced air fans when using a boiler with a feeder.

Flue gas temperature sensor
Together with the controller, the sensor monitors the flue gas temperature.

PLATINUM PELLET controller supports:
- Pump (D.H.W., C.H., additional),
- One mixing C.H. circuit with room thermostat,
- RTC clock with weekly programmer,
- Weather control,
- Winter/summer mode,
- FuzzyLogic & PID.

Secondary and primary air inlet**
Through six openings, air is drawn in to ensure complete combustion of the fuel. The amount of air can be adjusted using sliders.

****NOTE!**
The air inlets must be completely closed when using the boiler with a feeder.

Smoke damper***
Enables the efficient removal of smoke from the combustion chamber.

*****NOTE!**
The smoke flap must be completely closed when using the boiler with a feeder.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Ceramic plates
The use of ceramic plates in the combustion chamber improves the efficiency of the combustion process. These screens elevate the temperature in the combustion chamber and capture airborne particles above the firebed, burning them off. This results in increased thermal efficiency of the boiler and reduced emissions of harmful environmental compounds.

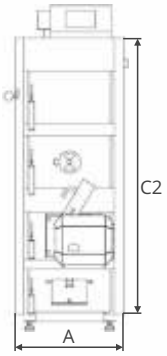
******NOTE!**
The device allows for pellet burning in automatic mode.

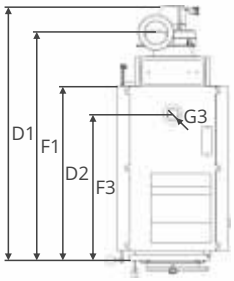
Automatic feeder***
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

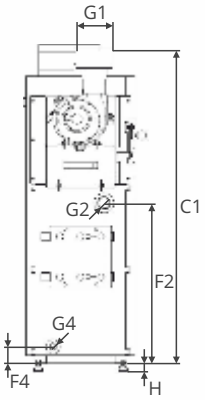
DW Self-Cleaning Burner***
- Automatic cleaning,
- Automatic ceramic igniter,
- Fuel: pellet Φ6-8mm.

Boiler model		SEM DUOPELL 16
Nominal power	[kW]	16
Heating capacity*	[m²]	72-240
Fuel	[-]	Primary fuel - chunky firewood according to standard 303-5:2021-09 Secondary fuel - wood pellets according to standard 303-5:2021-09
Water capacity	[L]	71
Fuel hopper capacity	[L]	230
Fuel hopper capacity	[kg]	138
Boiler weight	[kg]	342
Boiler class	[-]	5
EcoDesign	[-]	yes
Energetic class	[-]	A+
Seasonal emissions of particulate matter	[mg/m³]	20
Efficiency for nominal power	[%]	91,0
Nominal emissions of particulate matter	[mg/m³]	18
Efficiency for minimal power	[%]	89,2
Minimal emissions of particulate matter	[mg/m³]	20
Buffer heat capacity	[l]	600

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SEM DUOPELL 16
A	[mm]	490
B1	[mm]	-
B2	[mm]	-
C1	[mm]	1380
C2	[mm]	1260
D1	[mm]	1070
D2	[mm]	730
E	[mm]	-
F1	[mm]	-
F2	[mm]	713
F3	[mm]	470
F4	[mm]	82
G1	[mm]	159
G2	[cal]	1 ½
G3	[cal]	1 ½
G4	[cal]	¾
H	[mm]	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Extractor fan	**(Standard equipment)**

SEMAX OPTI

Heat exchanger | horizontal convective channels | shelf-type and tubular
An efficiently designed structure adapted for quick front cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat absorption from the combustion chamber.

Smoke damper
Enables the efficient removal of smoke from the combustion chamber.

Flue outlet at the rear of the boiler|top and side adjustment with fan
The design of the boiler has been engineered so that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for direct routing of the flue to the chimney.

Extraction fan
It is mounted using an adapter to the rear vertical wall of the flue outlet. The fan generates the necessary draft required for efficient fuel combustion.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

TECH ST-880 controller with PID supports:
- Pump: C.H.1 (Central Heating); D.H.W. (Domestic Hot Water); additionally,
- One mixing circuit C.H.1 with room thermostat,
- Fan,
- Buffer tank**.

Mechanical thermometer
A mechanical bimetallic thermometer equipped with a long measuring probe.

Secondary and primary air inlet
Air is drawn through six openings to ensure complete combustion of the fuel. The amount of secondary and primary air can be adjusted using slides.

Ceramic plates
The use of ceramic plates in the combustion chamber improves the efficiency of the combustion process. These screens elevate the temperature in the combustion chamber and capture airborne particles above the firebed, burning them off. This results in increased thermal efficiency of the boiler and reduced emissions of harmful environmental compounds.

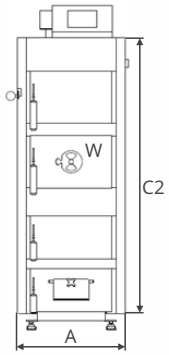
Wood gasification boiler
It proves to be the ideal solution for households that have substantial stocks of properly stored firewood. In gasification boilers, the wood combustion process occurs in two stages. In the batch chamber, with limited access to air, incomplete combustion of the fuel yeses place, and the resulting gases are further combusted in the secondary chamber. A wood gasification boiler is the most efficient boiler for wood heating.

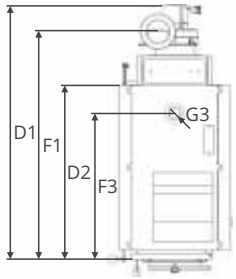
Buffer tank**
Ensures optimal boiler operation conditions. The boiler can operate at its optimal power, and any excess heat is stored in the buffer tank. The home heating system draws as much heat as it needs at any given moment from the buffer tank.

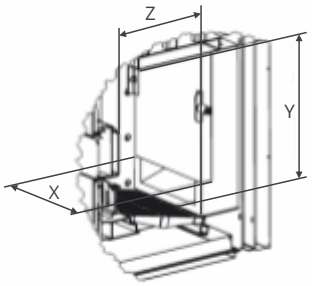
****NOTE!**
The central heating boiler can only be installed in the heating system together with a buffer tank. The tank is not included in the price of the boiler.

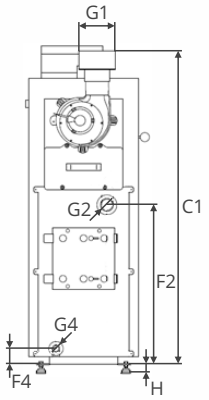
Boiler model		SEMAX OPTI 16
Nominal power	[kW]	16
Heating capacity*	[m²]	160-240
Fuel	[-]	Chunky firewood in accordance with standard 303-5:2021-09
Water capacity	[L]	71
Circuit of glades	[cm]	30-40
Length of glades	[cm]	26
Boiler weight	[kg]	342
Boiler class	[-]	5
EcoDesign	[-]	yes
Energetic class	[-]	A+
Seasonal emissions of particulate matter	[mg/m³]	20
Efficiency for nominal power	[%]	88,85
Nominal emissions of particulate matter	[mg/m³]	15
Buffer heat capacity	[l]	600

*Calculations are based on a new building with very good thermal insulation.







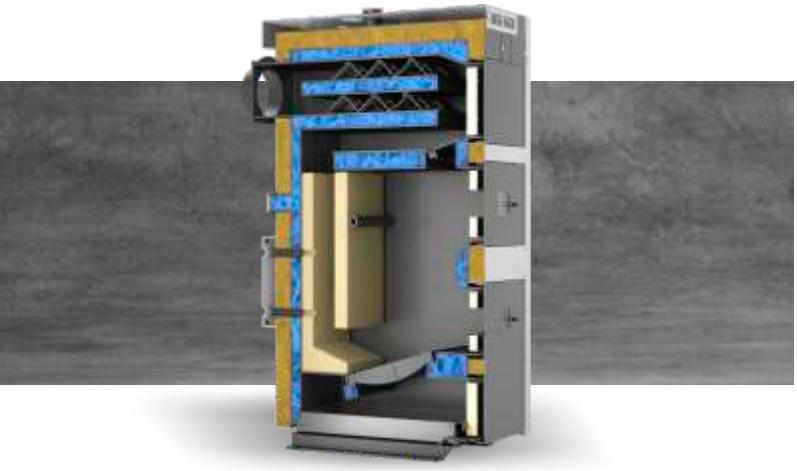


Dimensions		SEMAX OPTI 16
A	[mm]	490
B1	[mm]	-
B2	[mm]	-
C1	[mm]	1380
C2	[mm]	1260
D1	[mm]	1070
D2	[mm]	730
E	[mm]	-
F1	[mm]	-
F2	[mm]	713
F3	[mm]	470
F4	[mm]	82
G1	[mm]	159
G2	[cal]	1 ½
G3	[cal]	1 ½
G4	[cal]	¾
H	[mm]	30
W	[mm]	290x200
X	[mm]	290
Y	[mm]	510
Z	[mm]	330

Additional equipment

ST880 controller + Exhaust fan	**(Standard equipment)** Electronic controller set with exhaust fan
TECH ST280 + ST260 room thermostat	Touch control, wireless connection

SEMAX BASIC



Heat exchanger | horizontal convective channels | shelf-type
An efficient design tailored for quick front cleaning of the exchanger. The construction of the boiler's heat exchanger ensures high heat absorption from the firebed.

Smoke damper
Enables the efficient removal of smoke from the combustion chamber.

Flue outlet at the rear of the boiler
The design of the boiler has been engineered so that the flue outlet is located at the rear. This arrangement in a central heating boiler allows for direct routing of the flue to the chimney.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Draft regulator
Depending on the temperature of the medium, it controls a damper that regulates the airflow into the boiler's combustion chamber.

Mechanical thermometer
A mechanical bimetallic thermometer equipped with a long measuring probe.

Secondary and primary air inlet
Air is drawn through six openings to ensure complete combustion of the fuel. The amount of secondary and primary air can be adjusted using slides.

Ceramic plates
The use of ceramic plates in the combustion chamber improves the efficiency of the combustion process. These screens elevate the temperature in the combustion chamber and capture airborne particles above the firebed, burning them off. This results in increased thermal efficiency of the boiler and reduced emissions of harmful environmental compounds.

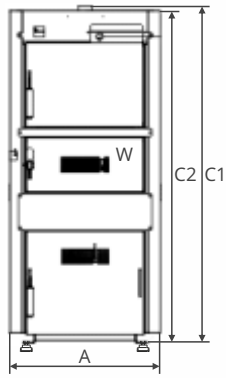
Wood gasification boiler
It proves to be the ideal solution for households that have substantial stocks of properly stored firewood. In gasification boilers, the wood combustion process occurs in two stages. In the batch chamber, with limited access to air, incomplete combustion of the fuel yeses place, and the resulting gases are further combusted in the secondary chamber. A wood gasification boiler is the most efficient boiler for wood heating.

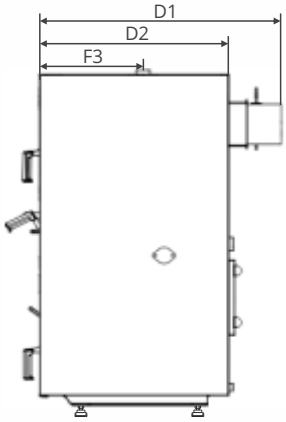
Buffer tank**
Ensures optimal boiler operation conditions. The boiler can operate at its optimal power, and any excess heat is stored in the buffer tank. The home heating system draws as much heat as it needs at any given moment from the buffer tank.

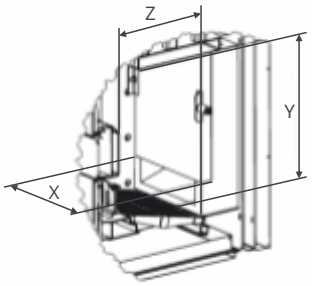
****NOTE!**
The central heating boiler can only be installed in the heating system together with a buffer tank. The tank is not included in the price of the boiler.

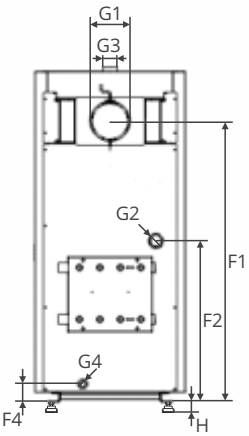
Boiler model		SEMAX BASIC 15	SEMAX BASIC 20	SEMAX BASIC 30	SEMAX BASIC 40
Nominal power	[kW]	15	20	30	40
Heating capacity*	[m²]	150-225	200-300	300-450	400-600
Fuel	[-]	Chunky firewood in accordance with standard 303-5:2021-09			
Water capacity	[L]	71	77	99	116
Circuit of glades	[cm]	30-40	30-40	30-40	30-40
Length of glades	[cm]	26	36	34	34
Boiler weight	[kg]	342	390	415	500
Boiler class	[-]	5	5	5	5
EcoDesign	[-]	yes	yes	yes	yes
Energetic class	[-]	A+	A+	A+	A+
Seasonal emissions of particulate matter	[mg/m³]	20	18	19	19
Efficiency for nominal power	[%]	90	88,7	89,1	89,2
Nominal emissions of particulate matter	[mg/m³]	20	17	19	19
Buffer heat capacity	[l]	555	780	1230	1680

*Calculations are based on a new building with very good thermal insulation.









Dimensions		SEMAX BASIC 15	SEMAX BASIC 20	SEMAX BASIC 30	SEMAX BASIC 40
A	[mm]	490	520	560	660
B1	[mm]	-	-	-	-
B2	[mm]	-	-	-	-
C1	[mm]	1275	1275	1480	1480
C2	[mm]	1255	1255	1460	1460
D1	[mm]	957	1070	1070	1065
D2	[mm]	725	835	835	835
E	[mm]	-	-	-	-
F1	[mm]	1050	1050	1240	1240
F2	[mm]	713	713	713	713
F3	[mm]	368	455	455	455
F4	[mm]	80	80	80	80
G1	[mm]	159	159	177	177
G2	[cal]	1 ½	1 ½	1 ½	1 ½
G3	[cal]	1 ½	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾	¾
H	[mm]	30	30	30	30
W	[mm]	290x200	290x200	340x200	440x200
X	[mm]	290	290	340	440
Y	[mm]	515	515	590	590
Z	[mm]	345	445	420	420

SE

Heat exchanger | horizontal convection channels | shelf-type
This heat exchanger is designed for effective and quick cleaning from the front. The boiler exchanger's design ensures efficient and high heat removal from the furnace.

Secondary air damper
Air opening with regulation, which allows more accurate combustion of fuel particles floating in the combustion chamber.

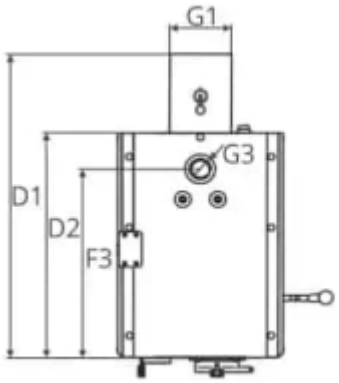
Blower fan
(Additional equipment)
Effectively supports the natural exhaust gas flow in the boiler. Additionally, it prevents smoke from escaping from the boiler to the boiler room. It also requires a driver to be installed.

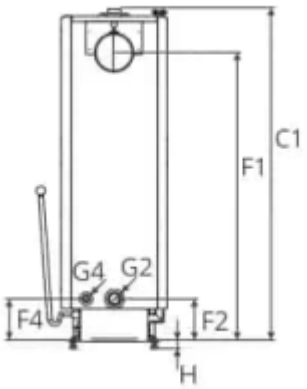
Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Draft regulator
(Additional equipment)
Depending on the temperature of the medium, it controls the flap regulating the air supply to the boiler combustion chamber.

Boiler model		SE 60	SE 75	SE 95	SE 120	SE 150	SE 200	SE 250	SE 350
Nominal power	[kW]	60	75	95	120	150	200	250	350
Heating capacity*	[m²]	600	600-750	750-950	950-1200	1200-1500	1500-2000	2000-2500	2500-3500
Fuel	[-]	Chunky firewood in accordance with standard 303-5:2021-09							
Water capacity	[L]	90	105	115	260	290	316	330	713
Fuel hopper capacity	[L]	-	-	-	-	-	-	-	-
Fuel hopper capacity	[kg]	-	-	-	-	-	-	-	-
Boiler weight	[kg]	438	480	521	850	1015	1090	1160	2050
Boiler class	[-]	-	-	-	-	-	-	-	-
EcoDesign	[-]	-	-	-	-	-	-	-	-
Energetic class	[-]	-	-	-	-	-	-	-	-
Seasonal emissions of particulate matter	[mg/m³]	-	-	-	-	-	-	-	-
Efficiency for nominal power	[%]	-	-	-	-	-	-	-	-
Nominal emissions of particulate matter	[mg/m³]	-	-	-	-	-	-	-	-
Efficiency for minimal power	[%]	-	-	-	-	-	-	-	-
Minimal emissions of particulate matter	[mg/m³]	-	-	-	-	-	-	-	-

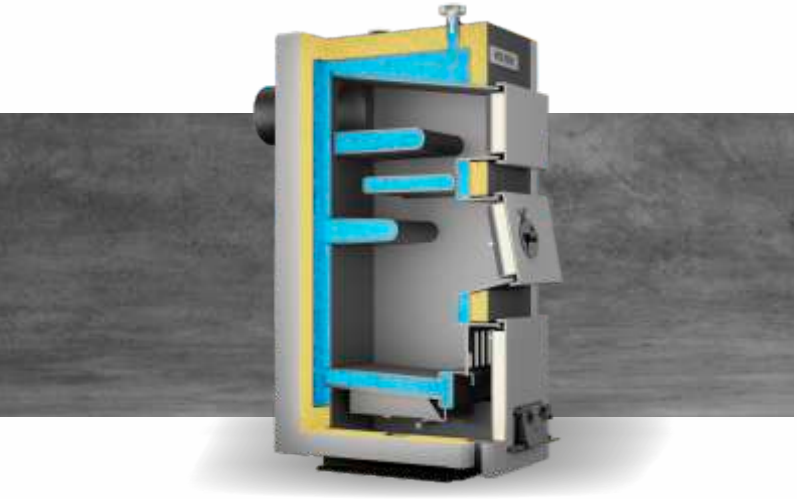
*Calculations are based on a new building with very good thermal insulation.





Dimensions		SE 60	SE 75	SE 95	SE 120	SE 150	SE 200	SE 250	SE 350
A	[mm]	530	580	680	770	860	860	860	1202
B1	[mm]	-	-	-	-	-	-	-	-
B2	[mm]	-	-	-	-	-	-	-	-
C1	[mm]	1530	1530	1530	1830	1910	2110	2110	2030
C2	[mm]	-	-	-	-	-	-	-	-
D1	[mm]	960	960	960	1550	1580	1580	1580	2230
D2	[mm]	800	800	800	1120	1170	1170	1270	1726
E	[mm]	-	-	-	-	-	-	-	-
F1	[mm]	1330	1330	1330	1690	1780	1980	1980	1553
F2	[mm]	225	225	225	195	180	180	180	382
F3	[mm]	584	584	584	480	660	655	655	711
F4	[mm]	175	175	185	100	155	155	155	344
G1	[mm]	200	200	200	250	250	250	250	350
G2	[cal]	1 ½	1 ½	1 ½	2	2	2	2	101,6
G3	[cal]	1 ½	1 ½	1 ½	2	2	2	2	101,6
G4	[cal]	¾	¾	¾	¾	¾	¾	¾	1 ¼
H	[mm]	30	30	30	30	30	30	30	30

SE MAX II



Heat exchanger | horizontal convection channels | shelf-type
This heat exchanger is designed for effective and quick cleaning from the front. The boiler exchanger's design ensures efficient and high heat removal from the furnace.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Secondary air damper
Air opening with regulation, which allows more accurate combustion of fuel particles floating in the combustion chamber.

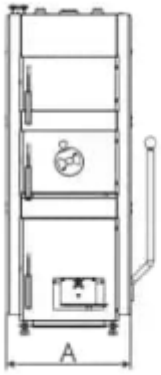
Scaffolding lever
It allows the furnace to be cleaned of unburned ash particles of various sizes. It is worth using it before each re-lighting the boiler.

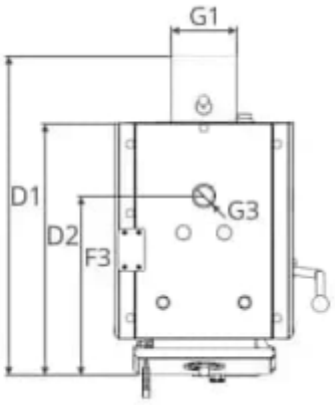
Blower fan
(Additional equipment)
Effectively supports the natural exhaust gas flow in the boiler. Additionally, it prevents smoke from escaping from the boiler to the boiler room. It also requires a driver to be installed.

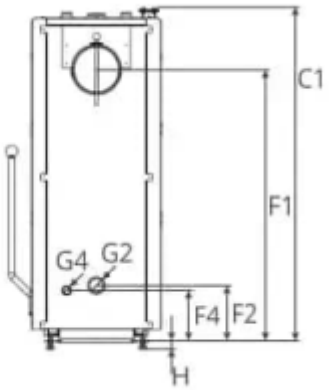
Draft regulator
(Additional equipment)
Depending on the temperature of the medium, it controls the flap regulating the air supply to the boiler combustion chamber.

Boiler model		SE MAX II 15	SE MAX II 20	SE MAX II 25	SE MAX II 30	SE MAX II 35	SE MAX II 40	SE MAX II 50
Nominal power	[kW]	15	20	25	30	35	40	50
Heating capacity*	[m^2]	150	150-200	200-250	250-300	300-350	350-400	400-500
Fuel	[-]	Chunky firewood in accordance with standard 303-5:2021-09						
Water capacity	[L]	30	41	56	71	87	93	111
Fuel hopper capacity	[L]	-	-	-	-	-	-	-
Fuel hopper capacity	[kg]	-	-	-	-	-	-	-
Boiler weight	[kg]	160	198	260	330	350	370	395
Boiler class	[-]	-	-	-	-	-	-	-
EcoDesign	[-]	-	-	-	-	-	-	-
Energetic class	[-]	-	-	-	-	-	-	-
Seasonal emissions of particulate matter	[mg/m^3]	-	-	-	-	-	-	-
Efficiency for nominal power	[%]	-	-	-	-	-	-	-
Nominal emissions of particulate matter	[mg/m^3]	-	-	-	-	-	-	-
Efficiency for minimal power	[%]	-	-	-	-	-	-	-
Minimal emissions of particulate matter	[mg/m^3]	-	-	-	-	-	-	-

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SE MAX II 15	SE MAX II 20	SE MAX II 25	SE MAX II 30	SE MAX II 35	SE MAX II 40	SE MAX II 50
A	[mm]	436	436	450	510	530	580	630
B1	[mm]	-	-	-	-	-	-	-
B2	[mm]	-	-	-	-	-	-	-
C1	[mm]	962	1122	1201	1256	1256	1256	1256
C2	[mm]	-	-	-	-	-	-	-
D1	[mm]	726	777	921	1029	1029	1029	1029
D2	[mm]	561	613	695	804	804	804	804
E	[mm]	-	-	-	-	-	-	-
F1	[mm]	770	914	1035	1090	1090	1090	1090
F2	[mm]	186	190	253	253	253	253	253
F3	[mm]	383	435	547	671	671	671	671
F4	[mm]	169	173	241	241	241	241	241
G1	[mm]	160	160	180	180	180	180	180
G2	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½
G3	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾	¾	¾	¾	¾
H	[mm]	30	30	30	30	30	30	30

GRAND CARBON

Heat exchanger | vertical convection channels | tubular
An efficient design tailored for automatic cleaning of the exchanger. The design of the boiler's heat exchanger ensures optimal heat removal from the furnace.

Flue outlet | at the rear of the boiler
The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit switch
For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

Extraction fan
It is mounted using an adapter to the rear vertical wall of the flue outlet. The fan generates the necessary draft required for efficient fuel combustion.

The PLATINUM controller supports:
- Pump (DHW, central heating 1, central heating 2, circulation, additional pump),
- Two mixing circuits central heating 1 and central heating 2 with room thermostat,
- RTC clock with weekly programmer,
- Weather-compensated control,
- Winter/summer operation,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

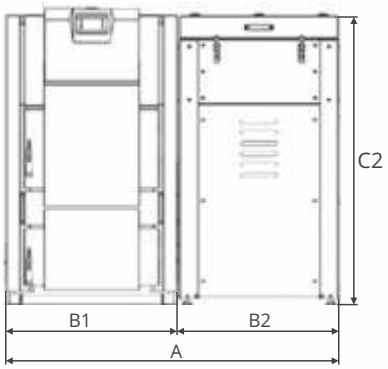
Turbulators | with automatic cleaning
The turbulators installed in the convective channels, in conjunction with an automatic cleaning system, effectively reduce the exhaust gas exit velocity. Systematic cleaning ensures that the boiler maintains consistent high heat absorption through the water jacket. The implementation of automatic cleaning in the convective channels helps to reduce fuel consumption.

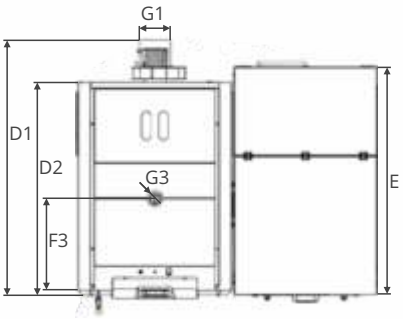
Steel screens
The use of steel screens in the combustion chamber improves the efficiency of the combustion process. The screens increase the temperature in the combustion chamber and capture particles floating above the firebed, burning them off. This enhances the boiler's thermal efficiency and minimizes the amount of harmful compounds in the exhaust gases.

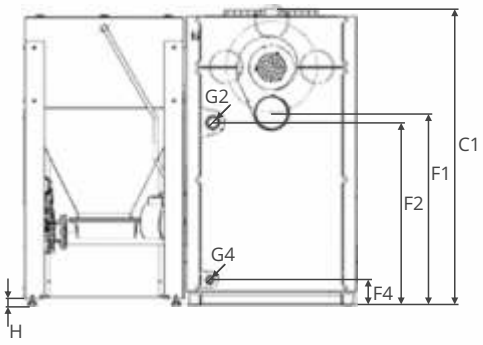
Iron Burner Ekoenergia II
- Cast iron auger,
- Proven and reliable design,
- Fuel: eco-pea coal Φ0-32mm.

Boiler model		GRAND CARBON 50	GRAND CARBON 75
Nominal power	[kW]	50	75
Heating capacity*	[m²]	225-750	337,5-1125
Fuel	[-]	Hard coal in accordance with standard 303-5:2021-09	
Water capacity	[L]	170	225
Fuel hopper capacity	[L]	460	645
Fuel hopper capacity	[kg]	336	472
Boiler weight	[kg]	910	1100
Boiler class	[-]	5	5
EcoDesign	[-]	yes	yes
Energetic class	[-]	B	B
Seasonal emissions of particulate matter	[mg/m³]	26	28
Efficiency for nominal power	[%]	90,5	90
Nominal emissions of particulate matter	[mg/m³]	29	29
Efficiency for minimal power	[%]	90	90,6
Minimal emissions of particulate matter	[mg/m³]	25	20

*Calculations are based on a new building with very good thermal insulation.







Dimensions		GRAND CARBON 50	GRAND CARBON 75
A	[mm]	1560	1630
B1	[mm]	800	860
B2	[mm]	747	765
C1	[mm]	1400	1535
C2	[mm]	-	-
D1	[mm]	1480	1860
D2	[mm]	1115	1465
E	[mm]	1190	1100
F1/F1'	[mm]	885	1065
F2	[mm]	860	950
F3	[mm]	480	625
F4	[mm]	120	80
G1	[mm]	180	180
G2	[cal]	1 ½	1 ½
G3	[cal]	1 ½	1 ½
G4	[cal]	¾	¾
H	[mm]	30	30

Additional equipment	
Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	**(Standard equipment)** Wi-Fi control, wired connection
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SEG EKO

Heat exchanger | horizontal and vertical convection channels | shelf-type

An efficient design facilitates quick cleaning of the exchanger from both the front and top. This design of the boiler heat exchanger ensures optimal heat extraction from the furnace.

Flue outlet | at the rear of the boiler

The boiler is designed so that the flue outlet is located at the rear. This configuration in a central heating boiler allows for the direct routing of the flue to the chimney.

Limit switch

For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

Pressure equalization system

It prevents the flame from backflowing into the hopper.

The PLATINUM controller supports:

- Pump (DHW, central heating 1, central heating 2, circulation, additional pump),
- Two mixing circuits central heating 1 and central heating 2 with room thermostat,
- RTC clock with weekly programmer,
- Weather-compensated control,
- Winter/summer operation,
- FuzzyLogic & PID.

Automatic feeder

The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Turbulators

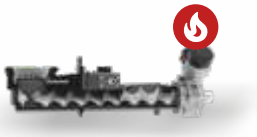
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

Highly efficient combustion chamber

Thanks to the use of ceramic shaped pieces together with the burner, the boiler achieves high efficiency. Such a technological solution raises the temperature in the combustion chamber and stops particles floating above the particles floating above the combustion chamber and burns them out. As a result of this process, the efficiency of the thermal efficiency of the cooker increases and the amount of environmentally harmful compounds harmful to the environment.

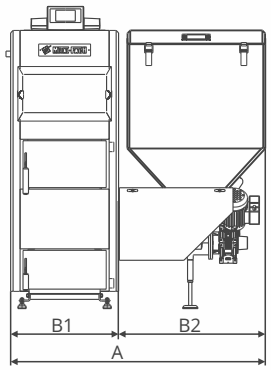
Iron Burner Ekoenergia II | with Igniter

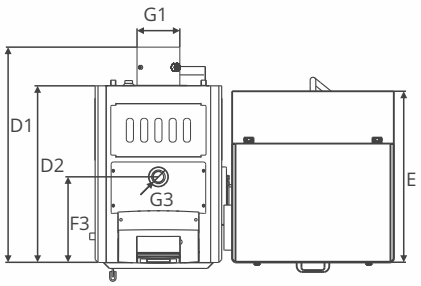
- Automatic igniter,
- Cast iron auger,
- Proven and reliable design,
- Fuel: eco-pea coal Φ0-32mm.

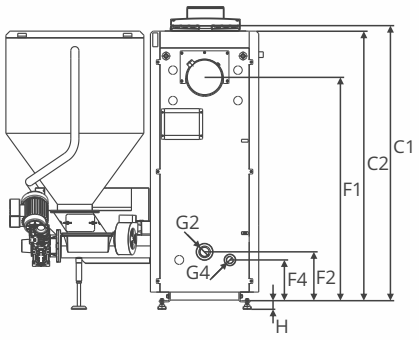


Boiler model		SEG EKO 12	SEG EKO 15	SEG EKO 20	SEG EKO 26	SEG EKO 34	SEG EKO 50	SEG EKO 75	SEG EKO 100	SEG EKO 150	SEG EKO 200	SEG EKO 300
Nominal power	[kW]	12	15	20	26	34	50	75	100	150	200	300
Heating capacity*	[m²]	54-180	67,5-225	90-300	117-390	153-510	225-750	337,5-1125	450-1500	675-2250	900-3000	1350-4500
Fuel	[-]	Hard coal in accordance with standard 303-5:2021-09										
Water capacity	[L]	66	66	74	83	95	120	173	173	339	760	1765
Fuel hopper capacity	[L]	190	190	290	350	350	400	520	520	1000	1500	1500
Fuel hopper capacity	[kg]	139	139	212	256	256	292	380	380	510	1096	1096
Boiler weight	[kg]	438	448	510	539	551	785	935	935	1350	2100	<3000
Boiler class	[-]	5	5	5	5	5	-	-	-	-	-	-
EcoDesign	[-]	yes	yes	yes	yes	yes	-	-	-	-	-	-
Energetic class	[-]	B	B	B	B	B	-	-	-	-	-	-
Seasonal emissions of particulate matter	[mg/m³]	16	21	19	8	8	-	-	-	-	-	-
Efficiency for nominal power	[%]	93,76	92,64	93,42	92,97	90,76	-	-	-	-	-	-
Nominal emissions of particulate matter	[mg/m³]	16,8	12,3	10,6	11,1	12,2	-	-	-	-	-	-
Efficiency for minimal power	[%]	94,73	93,17	92,47	94,13	93,54	-	-	-	-	-	-
Minimal emissions of particulate matter	[mg/m³]	4,7	8,9	7,9	2,0	2,0	-	-	-	-	-	-

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SEG EKO 12	SEG EKO 15	SEG EKO 20	SEG EKO 26	SEG EKO 34	SEG EKO 50	SEG EKO 75	SEG EKO 100	SEG EKO 150	SEG EKO 200	SEG EKO 300
A	[mm]	1250	1250	1250	1250	1300	1443	1505	1505	1965	2500	3140
B1	[mm]	532	532	532	532	582	681	793	795	955	1240	1820
B2	[mm]	680	680	680	680	680	680	680	700	1015	1200	1200
C1	[mm]	1160	1160	1356	1413	1413	1490	1440	1620	2200	2230	2220
C2	[mm]	1130	1130	1326	1383	1383	1460	1410	1590	2170	2200	2190
D1	[mm]	867	867	905	955	955	1218	1413	1570	1560	2240	-
D2	[mm]	705	705	745	796	796	1060	1175	1325	1260	1690	2545
E	[mm]	707	707	720	776	776	850	850	1075	1105	1190	1190
F1	[mm]	907	907	1104	1160	1160	1110	1115	1215	2005	1720	1722
F2	[mm]	213	213	247	245	245	337	350	300	165	375	320
F3	[mm]	349	349	359	409	409	536	545	695	515	890	1774
F4	[mm]	213	213	207	205	205	190	175	175	143	330	-
G1	[mm]	180	180	180	180	180	220	220	220	250	350	-
G2	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	101,6	101,6
G3	[cal]	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	101,6	101,6
G4	[cal]	¾	¾	¾	¾	¾	¾	¾	¾	¾	1 ¼	1 ¼
H	[mm]	30	30	30	30	30	30	30	30	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-fi control, wired connection
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

SMART EKO PLUS

Heat exchanger | horizontal convective channels | shelf-type
An efficiently designed structure adapted for quick front cleaning of the exchanger. The construction of the boiler heat exchanger ensures high heat absorption from the combustion chamber.

Flue outlet | at the rear or top of the boiler
The boiler is designed to have the flue outlet positioned either at the rear or the top. This design feature in a central heating boiler allows for either direct or indirect routing of the flue to the chimney.

Limit switch
For your safety, the boiler is equipped with a limit switch. The end-stop safety system is located in both the boiler's doors and the hopper lid. Any opening automatically suspends the operation of the burner and other boiler components, until they are securely closed again.

Pressure equalization system
It prevents the flame from backflowing into the hopper.

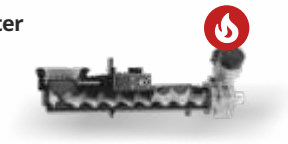
The PLATINUM controller supports:
- Pump (DHW, central heating 1, central heating 2, circulation, additional pump),
- Two mixing circuits central heating 1 and central heating 2 with room thermostat,
- RTC clock with weekly programmer,
- Weather-compensated control,
- Winter/summer operation,
- FuzzyLogic & PID.

Automatic feeder
The controller, based on information received from sensors, determines the fuel requirement and dispenses the appropriate amount. As a result, the fuel combustion process is very efficient, environmentally friendly, and does not require additional intervention from the user.

Turbulators
Installed in the convective channels, turbulators effectively reduce the exhaust gas velocity while maintaining high heat absorption through the water jacket.

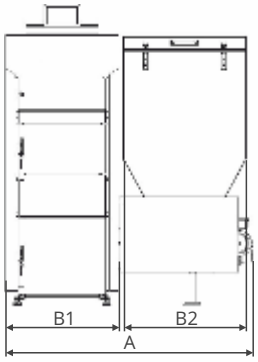
High-efficiency combustion chamber
Thanks to the use of ceramic components along with the burner, the boiler achieves high efficiency. This technological solution raises the temperature in the combustion chamber and captures particles suspended above the firebed, burning them off. As a result of this process, the thermal efficiency of the furnace increases, and emissions have a reduced amount of environmentally harmful compounds.

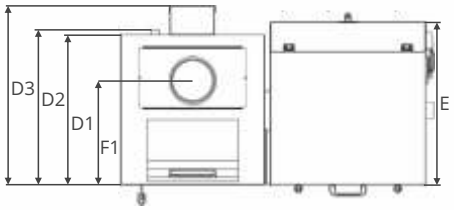
Iron Burner Ekoenergia II | with Igniter
- Automatic igniter,
- Cast iron auger,
- Proven and reliable design,
- Fuel: eco-pea coal Φ0-32mm.

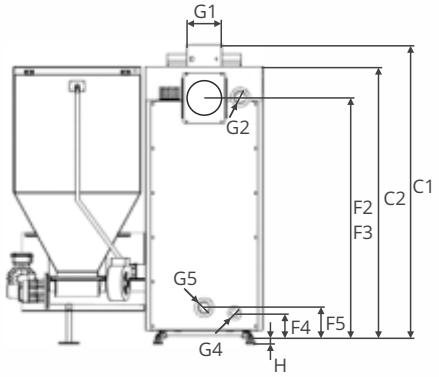


Boiler model		SMART EKO PLUS 15	SMART EKO PLUS 20	SMART EKO PLUS 25
Nominal power	[kW]	15	20	25
Heating capacity*	[m²]	67,5-225	90-300	112,5-375
Fuel	[-]	Hard coal in accordance with standard 303-5:2021-09		
Water capacity	[L]	48	60	71
Fuel hopper capacity	[L]	200	200	200
Fuel hopper capacity	[kg]	146	146	146
Boiler weight	[kg]	380	405	480
Boiler class	[-]	5	5	5
EcoDesign	[-]	yes	yes	yes
Energetic class	[-]	B	B	B
Seasonal emissions of particulate matter	[mg/m³]	23,35	22,58	23,19
Efficiency for nominal power	[%]	90,69	91,00	90,94
Nominal emissions of particulate matter	[mg/m³]	28,02	30,06	28,90
Efficiency for minimal power	[%]	90,95	90,71	90,72
Minimal emissions of particulate matter	[mg/m³]	22,52	21,26	22,18

*Calculations are based on a new building with very good thermal insulation.







Dimensions		SMART EKO PLUS 15	SMART EKO PLUS 20	SMART EKO PLUS 25
A	[mm]	1135	1135	1185
B1	[mm]	535	535	585
B2	[mm]	580	580	580
C1	[mm]	1340	1400	1400
C2	[mm]	1240	1300	1300
D1	[mm]	560	630	720
D2	[mm]	590	660	750
D3	[mm]	680	760	845
E	[mm]	610	630	630
F1	[mm]	435	505	595
F2	[mm]	1100	1155	1155
F3	[mm]	1100	1155	1155
F4	[mm]	115	115	115
F5	[mm]	140	140	140
G1	[mm]	160	160	160
G2	[cal]	1 ½	1 ½	1 ½
G4	[cal]	¾	¾	¾
G5	[cal]	1 ½	1 ½	1 ½
H	[mm]	30	30	30

Additional equipment

Lambda Probe	Continuously modifies fan and feeder settings
ecoNET Internet Module	Wi-Fi control, wired connection
Platinum Touch x40 Room Thermostat	Analog, wireless
Platinum Touch x80 Room Thermostat	Touchscreen, wireless
Platinum ecoSTER100 Room Thermostat	Touchscreen, wired, 5' display
Platinum B Module	Control of buffer operation, additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat
Platinum C Module	Additional two heating circuits, 2x pumps, 2x mixer, 2x thermostat

METAL-FACH
HEATING TECHNOLOGY

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