



Technical and operational documentation

SEMAX BASIC DUO

SEMAX BASIC with automatic fuel filling

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Introduction

Dear Customer, thank you for purchasing a heating boiler from METAL-FACH Technika Grzewcza Sp. z o. o. We hope that the operation of the device will meet your expectations and provide you with much satisfaction. The heating boiler has been designed and manufactured in accordance with applicable norms and standards, ensuring safe and reliable operation. Strict adherence to the instructions in the manual included with the device will ensure optimal and reliable operation of the central heating boiler for many years. This product is not intended for use by persons with impaired physical or mental abilities or lacking experience and knowledge, provided they are supervised or instructed by a person responsible for their safety. Operation by children is prohibited.

Symbols used in the manual



ATTENTION!

Very important information, always read it if it appears in a given place.



TIP!

It is worth reading this information, it makes it easier to use.

Introductory activities

(User)

Activities to be performed when accepting a METAL-FACH Technika Grzewcza Sp. z o. o. boiler:

- carefully check the completeness of the delivered boiler (Chapter: Boiler equipment) and whether the boiler has not been damaged during transport,
- compare the nameplate mounted on the boiler housing on the left or right side with your order, read the operating instructions carefully - it contains information necessary for the proper use of the boiler.

 METAL-FACH TECHNIKA GRZEWcza		Technika Grzewcza Sp. z o.o. 16-100 Sokółka ul. Sikorskiego 66 tel/fax 85 711-94-54 www.metalfachtg.com.pl	
KOCIOŁ GRZEWczy SEMAX BASIC			
Typ kotła	SEMAX BASIC	Przyłącze elektryczne	-
Model	-	Klasa kotła	5
Nr fabryczny	-	Dopuszcz. ciśnienie [bar]	1,5
Data produkcji	-	Temp. max. [°C]	95
Moc nominalna [kW]	-	Poj. Wodna [L]	-
Zakres mocy [kW]	-	Pobór mocy prac/rzupalanie [W]	-
Typ pracy	Kocioł pracuje bez kondensacji	Kategoria kotła	1
Nominalne Obciążenie cieplne	-	Zakres dopływu ciepła	-
Rodzaj paliwa	Drewno kawałkowe zgodne z pkt. 5.3 (Tablica 9) normy PN-EN 303-5:2021-09 Wartość opałowa >17MJ/kg; wilgotność 12-20% w stanie roboczym; zawartość popiołu <1 w stanie roboczym		
			

 METAL-FACH TECHNIKA GRZEWcza		Technika Grzewcza Sp. z o.o. 16-100 Sokółka ul. Sikorskiego 66 tel/fax 85 711-94-54 www.metalfachtg.com.pl	
KOCIOŁ GRZEWczy SEMAX BASIC DUO			
Typ kotła	SEMAX BASIC DUO	Przyłącze elektryczne	
Model		Klasa kotła	
Nr fabryczny		Dopuszcz. ciśnienie [bar]	
Data produkcji		Temp. max. [°C]	
Moc nominalna [kW]		Poj. Wodna [L]	
Zakres mocy [kW]		Pobór mocy prac/rzupalanie [W]	
Typ pracy		Kategoria kotła	
Nominalne Obciążenie cieplne		Zakres dopływu ciepła	
Rodzaj paliwa	Pellet drzewny zgodny z pkt. 5.3 (Tablica 9) normy PN-EN 303-5+A1:2023-05 (średnica: 6 ± 1 mm; 8 ± 1 mm; długość 3,15 ≤ L ≤ 40; wilgotność ≤ 10%; zawartość popiołu ≤ 0,7%; wartość opałowa >17 MJ / kg)		
			

Should any problems arise, please contact the service department or an authorized METAL-FACH Technika Grzewcza Sp. z o. o. service center. These individuals have appropriate training and access to original parts enabling proper service and installation of METAL-FACH Technika Grzewcza Sp. z o. o. boilers, confirmed by a certificate issued at the company's headquarters.

General information

(User)

The Operation and Maintenance Manual is part of the product, delivered with the purchased central heating boiler. The Operation and Maintenance Manual contains information regarding the construction, installation, and operation of SEMAX BASIC boilers. Careful reading of the manual ensures correct and safe use of our boiler.



ATTENTION!

The user is advised to follow all instructions regarding the device contained in this Technical and Operating Manual, Warranty Terms and Conditions and generally applicable legal regulations.

The boilers are delivered fully assembled. They are positioned and permanently attached to the pallet. They are additionally protected by foil packaging.

When transporting a boiler, it should be secured against shifting or rotation on the truck's cargo bed using safety devices, such as belts. Boilers should be transported in accordance with the regulations for the transport of materials. Loading and unloading should be performed using lifting equipment (forklift) with a lifting capacity exceeding 1000 kg.

Application

(User | Installer)

The boiler is designed to supply heat to central heating systems (radiators and underfloor heating) and to provide domestic hot water. The boiler should operate at full rated output in a system with a buffer to store excess heat. The diagram shows an example of a boiler with a buffer. Operating the boiler at rated output allows for better fuel utilization and better exhaust gas quality for the atmosphere. Correct operation and achieving the boiler's full potential depend on the quality of the installation, appropriate chimney draft, and proper boiler operation and maintenance.



ATTENTION!

The boilers are designed for operation in open and closed water systems with gravity or forced circulation, equipped with safety devices compliant with the requirements of the applicable PN-B-02413 Heating and District Heating standard, and a closed system compliant with the PN-EN 12828 Heating systems in buildings. Design standard.



ATTENTION!

In a heating system, a boiler with manual fuel loading must be installed with a buffer to store excess heat!

Boiler equipment

(User)

The scope of delivery includes both basic and additional components, depending on the order placed. Upon receipt, please carefully inspect the product to ensure it has not been damaged during transport and to verify the completeness of the accessories. The components included in the basic and additional equipment are described below.

Basic equipment of the SEMAX BASIC with manual charging	Unit of measurement	Quantity
Central heating boiler	pcs.	1
Thermometer	pcs.	1
Boiler cleaning tools: - poker - brush - scraper	set	1
Feet for leveling the boiler	pcs.	4

Documentation	Unit of measurement	Quantity
Technical and operational documentation of the boiler	pcs.	1

Basic equipment of SEMAX BASIC DUO with automatic hopper	Unit of measurement	Quantity
Central heating boiler	pcs.	1
Microprocessor controller – supports (see controller operating instructions)	pcs.	1
Blower fan	pcs.	1
Fuel supply system with burner	set	1
Fuel tank	pcs.	1
Boiler cleaning tools: - poker - brush - scraper	set	1
Feet for leveling the boiler	pcs.	4

Additional equipment:	Unit of measurement	Quantity
LAMBDA SENSOR module*	pcs.	1

Documentation:	Unit of measurement	Quantity
Technical and operational documentation of the boiler	pcs.	1
Controller user manual and warranty card	pcs.	1
Instruction manual and warranty card for the blower fan	pcs.	1

**ATTENTION!**

The user should carefully read the operating instructions for the controller and fan.

**ATTENTION!**

METAL-FACH Technika Grzewcza Sp. z o. o. reserves the right to introduce changes to the technical parameters, equipment and specifications of the goods offered without prior notice.

Basic elements of boiler construction

(User | Installer)

The appearance and construction of the boiler are shown in the technical drawing. Some of the boiler parts are numbered on the drawing.

There are four doors on the front wall of the boiler:

- Cleanout door (1) allowing access for cleaning and observation of the boiler convection channels.
- The loading door (2) is necessary for loading the boiler with firewood, cleaning, and observing the combustion chamber. An air damper (17) is built into the door.
- The grate door (4) and pre-grate door (20) allow for the laying and lighting of the ignition layer, re-grating, cleaning, and observation of the combustion chamber and the condition of the cast iron grate (19). The door has a built-in swing flap (16) that regulates the supply of primary air for fuel combustion. The flap can be raised or lowered using a built-in knob.
- A linkage (5) is used to open and close the smoke extraction flap (13) in the loading chamber during fuel loading into the boiler. When open, the flap allows exhaust gases to be vented via a shorter route to the chimney. The flap must be closed during boiler operation.

On the rear wall of the boiler there are:

- A connector (10) with a $\frac{3}{4}$ " internal thread for filling and draining water from the boiler.
- A connector (12) with a $1\frac{1}{2}$ " internal thread, which is the water return connector from the central heating system.
- Secondary air intake (9), where air required for full fuel combustion is drawn in through 6 openings. The amount of air can be adjusted using sliders (18).
- Flue with cleanout (8).

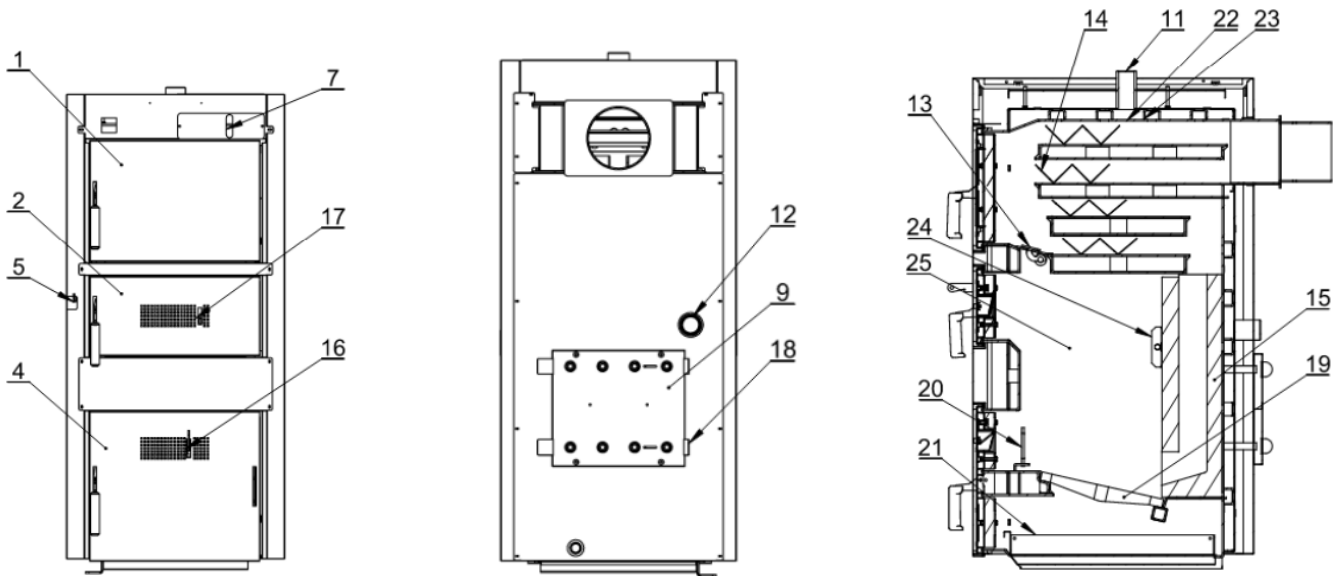
On the upper wall of the boiler there are:

- The connector (11) with a $1\frac{1}{2}$ " internal thread is a connector that supplies hot water to all heat receivers connected to the boiler.

There are plugs on the left and right walls of the boiler that provide access to the ceramic channel protection (24). This protection should be removed if the channel plates need to be replaced.

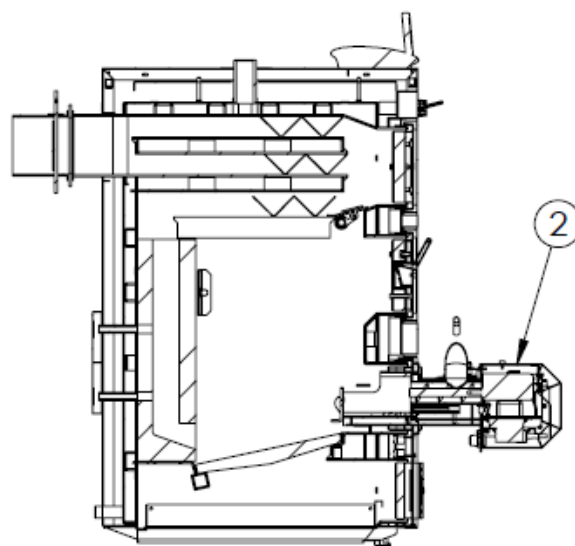
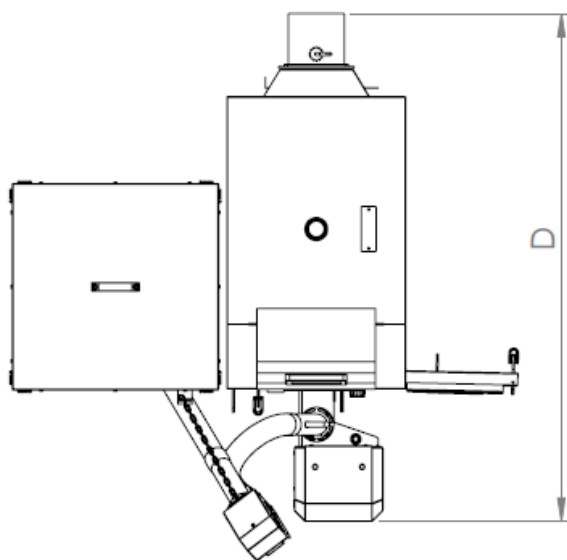
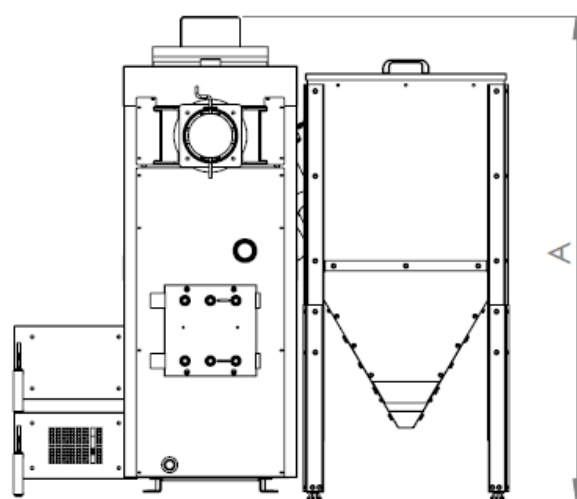
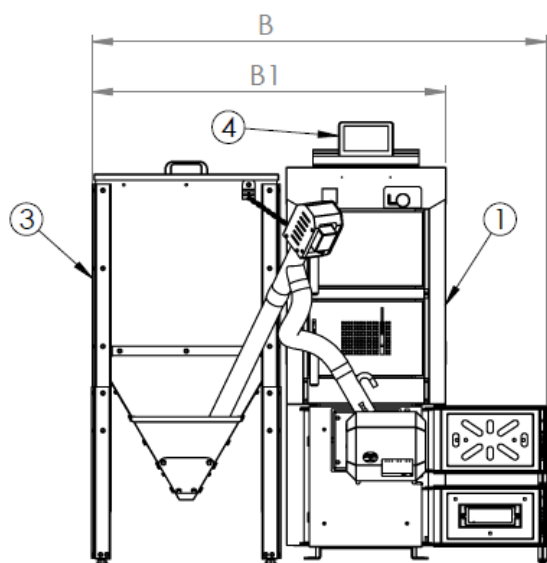
Inside the boiler:

- Ceramic channel (15) in which the combustion and post-combustion of gases produced in the combustion zone on the boiler grate takes place. As a result, these are wood gasification boilers.
- Smoke extraction flap (13).

SEMAX BASIC boiler with manual fuel loading**Legend:**

- | | |
|---------------------------|--|
| 1. Clean doors | 14. Exhaust gas swirler |
| 2. Loading door | 15. Ceramic channel |
| 3. - | 16. Primary air intake flap |
| 4. Ash pan doors | 17. Primary air intake flap |
| 5. Smoke exhaust flap rod | 18. Adjusting the secondary air supply |
| 6. - | 19. Cast iron grate |
| 7. Thrust gauge | 20. Pre-grate doors |
| 8. - | 21. Ash drawer |
| 9. Secondary air intake | 22. Boiler temperature sensor sleeve |
| 10. Drain connector | 23. STB sensor sleeve |
| 11. Supply connector | 24. Securing the ceramic channel |
| 12. Return pipe | 25. Firewood loading chamber |
| 13. Smoke extraction flap | |

SEMAX BASIC DUO boiler with automatic fuel loading



Dimensions	SEMAX BASIC DUO 15	SEMAX BASIC DUO 20
A	1429	1429
B	1458	1458
B1	1135	1135
D	1352	1452

Legend:

1. Exchanger
2. Burner – SEMAX BASIC DUO 15 – DW 15, SEMAX BASIC DUO 20 – DW 20
3. Container
4. Automation – PLUM 920 P1-T controller

Technical data of the SEMAX BASIC 15-40 boiler

(User | Installer)

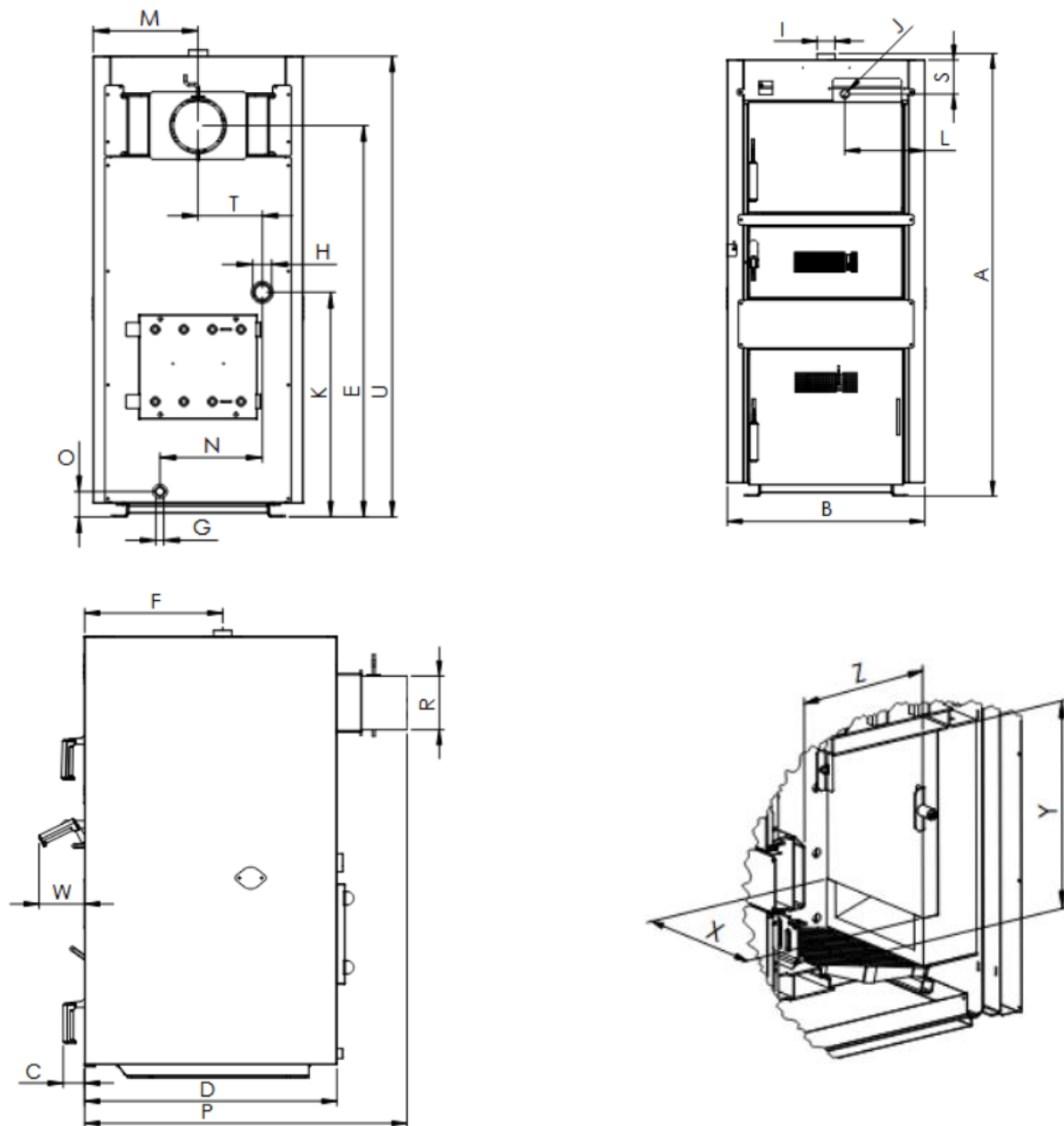
Parameters		SEMAX BASIC			
		15	20	30	40
Nominal thermal power	[kW]	15	20	30	40
Heating surface	[m ²]	2.3	2.8	4.2	4.9
Water capacity	[L]	69	77	99	116
Maximum operating pressure	[bar]	1.5	1.5	3	3
Maximum operating temperature	[°C]	80	80	80	80
Test pressure	[bar]	4.5	4.5	4.5	4.5
Boiler class	[-]	5	5	5	5
Boiler efficiency	[%]	-	-	-	-
Firewood - logs (split) with moisture content Wc = 12-20%					
Fuel	[-]	pellets in accordance with point 5.3. (table 9) of the PN-EN 303-5:2023-05 standard (diameter: 6 ± 1 mm; 8 ± 1 mm, length 3.15 ≤ L ≤ 40, moisture ≤ 10%, ash content ≤ 0.7%, calorific value >17 MJ / kg)			
The circumference of the clearings (logs)	[cm]	30-40			
Length of logs (split)	[cm]	34	44	42	42
Electrical connection	[-]	1A; ~230V; 50Hz			
Temperature controller setting range	[°C]	60-80 (every 1 °C)			
Required chimney draft	[Pa]	22	22	25	28
Design flow resistance ΔT [10K]	[mbar]	12.3	12.3	24.75	29.83
Design flow resistance ΔT [20K]	[mbar]	3.8	3.8	5.05	7.45
Boiler weight	[kg]	342	390	415	500
Heat storage (buffer) capacity	[L]	555	780	1230	1680
Exhaust gas temperature	[°C]	140	140	140	140

*Boiler weight +/- 5kg.

Dimensions of the SEMAX BASIC boiler

(User | Installer)

SEMAX BASIC boiler



ATTENTION!

The boilers have 30 mm high feet.

Dimensions	SEMAX BASIC			
	15	20	30	40
A	1275	1275	1480	1480
B	490	520	560	660
C	80	70	70	70
D	725	835	835	835
C	1050	1050	1240	1240
F	448	455	455	455
G	G ¾"	G ¾"	G ¾"	G ¾"
H	G 1 ½"	G 1 ½"	G 1 ½"	G 1 ½"
I	G 1 ½"	G 1 ½"	G 1 ½"	G 1 ½"
J	G ¾"	G ¾"	G ¾"	G ¾"
K	713	713	713	713
L	127	137	217	267
M	245	255	280	330
N	222	222	222	322
O	80	80	80	80
P	957	1070	1070	1065
R	159	159	177	177
S	114	114	114	114
T	102	102	102	202
U	1255	1255	1460	1460
W	160	150	150	150
X	290	290	340	440
Y	515	515	590	590
Z	345	445	420	420
Loading opening	290x200	290x200	340x200	440x200

*The dimension does not include the height of the boiler leveling feet.

Fuel

(User)

The fuel for firing the boiler is wood chips, hardwood logs, dimensions and moisture content are given in the section "Data technical boiler".

- humidity 12 – 20%,
- ash content $\leq 1\%$,
- calorific value $>17 \text{ MJ / kg}$.

pellets in accordance with point 5.3. (table 9) of the PN-EN 303-5:2023-05 standard (diameter: $6 \pm 1 \text{ mm}$; $8 \pm 1 \text{ mm}$, length $3.15 \leq L \leq 40$, moisture $\leq 10\%$, ash content $\leq 0.7\%$, calorific value $>17 \text{ MJ / kg}$)

Requirements for the boiler room and boiler installation

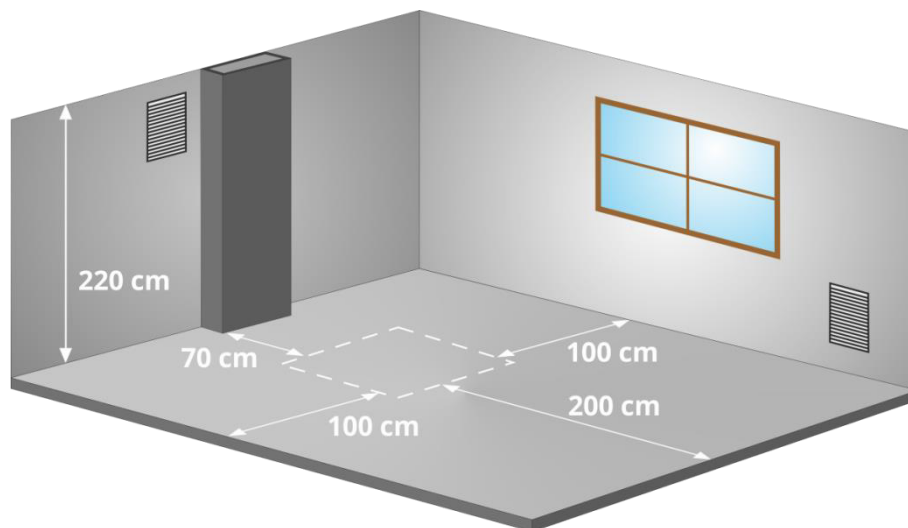
(User | Installer)

In Poland, boiler rooms built for solid fuel should meet the requirements of the PN-87/B-02411 standard "Boiler rooms built for solid fuel" and Journal of Laws 2015.0.1422. They are divided into two types:

1. For small boiler rooms up to 25kW, the following requirements should be met:
 - the boiler should be placed as centrally as possible in relation to the heated rooms and in a separate room;
 - the material from which the floor in the boiler room is made should be non-flammable; in the case of flammable material, the floor should be covered with a 0.7 mm thick steel sheet at a distance of at least 50 cm from the edge of the boiler; the boiler should be placed on a foundation made of non-flammable materials, protruding 0.05 m above the floor level and edged with steel angles;
 - There should be artificial lighting in the room, but natural lighting is also recommended;
 - the positioning of the wheel in the room should allow free access to the boiler during cleaning and maintenance; the distance from the back of the boiler to the wall should not be less than 70 cm, from the side of the boiler to the wall not less than 100 cm, and from the front of the boiler to the opposite wall not less than 200 cm;
 - the height in new buildings should be at least 220 cm, in the case of existing buildings the height of the boiler room is at least 190 cm, with proper ventilation (supply and exhaust);
 - supply ventilation should be provided through an unclosable opening with a minimum cross-section of 200 cm² and located no more than 100 cm above the floor level;
 - exhaust ventilation should be provided by means of an exhaust duct made of non-flammable material with a minimum cross-section of 14 x 14 cm with an inlet opening under the ceiling of the boiler room; the exhaust duct should be led above the roof and placed near the chimney; the exhaust duct must not be fitted with devices that would allow it to be closed;
 - the cross-section of the chimney should be no less than 20 x 20 cm;
 - there should be a floor drain in the floor of the boiler room;
 - the optimal place for storing fuel is a separate room located near the boiler room;
 - ash and slag should be collected in appropriate containers that can be emptied daily.
2. Boiler rooms with a thermal power of 25kW or more should additionally meet the following requirements:
 - the distance of the boiler furthest from the chimney, with gravity draft, cannot exceed 50 cm of the chimney height;
 - the fuel storage and slag storage should be located next to the boiler room at a storage height of up to 220 cm with a free space above the fuel of at least 50 cm;
 - devices and equipment enabling vertical and horizontal transport of fuel and slag should be taken into account;
 - the fuel storage room should have natural, unforced ventilation, allowing for one full air exchange per hour in the fuel storage room and three full air exchanges per hour in the slag storage room;

- the entrance door to the boiler room should be non-flammable (EI30 fire resistance class), minimum width 90 cm, opening outwards; it should have a handleless closing system enabling it to be opened outwards under pressure and inwards using a handle;
- ventilation requirements are the same as for boiler rooms with lower power; additionally, in boiler rooms with power exceeding 400 kW, in addition to supply and exhaust ventilation, there should be mechanical ventilation, switched on periodically during fuel charging and boiler deslagging, ensuring at least 10 full air changes per hour;
- in the boiler room, natural lighting should be provided, illuminating the boiler from its front, and the area of windows should be at least 1/15 of the floor area of the boiler room; half of the installed windows should be openable; electric lighting and an electrical socket with a voltage not exceeding 24 V should also be located in the room;
- there should be a sewage pit in the floor to allow for cooling of water, and its capacity should be equal to the water capacity of the largest boiler, but not greater than 2 m³;
- in the boiler room, the heat pipes should be insulated;
- The boiler setup with the minimum required distances is shown in the boiler room diagram below.

Minimum distances for setting the boiler in the boiler room



ATTENTION!

Mechanical exhaust ventilation should not be used in the boiler room.



ATTENTION!

Ensuring that there is sufficient fresh air in the boiler room will enable efficient fuel combustion.



ATTENTION!

The formation of excessive amounts of carbon dioxide in the room should be prevented.



ATTENTION!

More detailed information regarding the requirements for the construction of boiler rooms can be found in the Regulation of the Minister of Infrastructure of March 12, 2009.



TIP!

The above-mentioned provisions are guidelines that need to be verified as the regulation is subject to amendment.

Boiler installation

(User | Installer)

A key element of installation is the correct positioning and leveling of the SEAMX BASIC boiler. These boilers do not require special foundations. Adjustable feet facilitate boiler leveling. The boiler must be positioned vertically.

1. Check if the set includes four feet.
2. Using a spirit level, level the boiler relative to the ground. If the boiler is horizontal, installing the feet is not required.
3. Screw the four feet into the designated holes.
4. Use a spirit level to level the boiler.



ATTENTION!

An incorrectly leveled boiler may be damaged.

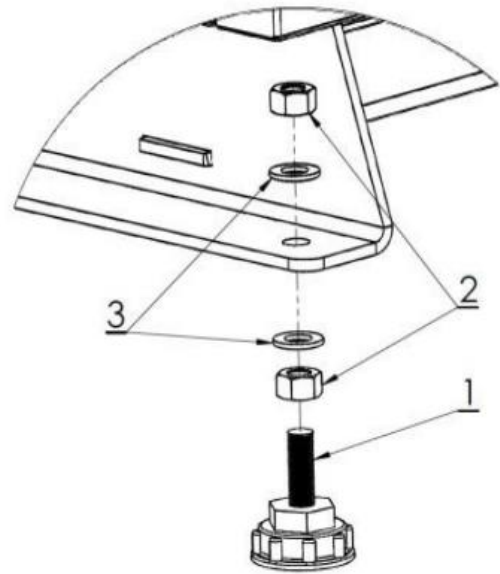


ATTENTION!

It is unacceptable to place the boiler in a damp or wet room, as this accelerates corrosion, quickly leading to the destruction of the boiler.

Method of installing the boiler leveling feet

1. Adjusting foot, 4 pcs.
2. M10 nut, 8 pcs.
3. Washer Ø10, pcs. 8



The boiler should be placed on a heat-insulating, non-flammable base, which should extend 2 cm beyond the boiler base on all sides. If the boiler is located in a basement, it is recommended that it be placed on at least 5 cm of foundation. The strength of the subfloor, as well as fire protection requirements, are key considerations when positioning the boiler in the right location. These include:

- 20 cm safe distance from flammable materials,
- 40 cm for flammable materials with a flammability class of C3,
- 40 cm if the flammability level is unknown.

Flammability degree of building materials and products	Building materials and products
A - Non-flammable	Sandstone, concrete, bricks, fire-resistant plaster, mortar, ceramic tiles, granite
B - Difficult to burn	Wood-cement boards, glass fibers, mineral insulation
C1 - Difficult to burn	Beech wood, oak wood, plywood
C2 - Medium Burning	Pine, larch and spruce cork, sawn wood boards, rubber floor coverings
C3 - Easily combustible	Asphalt plywood, celluloid masses, polyurethane, polystyrene, polyethylene, plastic, PVC

Connecting the boiler to the heating system

(Installer)

The boiler should be connected to the central heating system by a company authorized by the manufacturer, and proper connection should be confirmed on the warranty card attached to this manual. The boiler should be connected according to the manufacturer's recommendations, in accordance with this manual.



ATTENTION!

It is recommended that the first start-up of the boiler be performed in accordance with the guidelines contained in the Operation and Maintenance Manual by a person with valid authorizations.

Information on persons authorized to start up the boiler is available from the Manufacturer at +48 85 711 94 54 ext. 17.



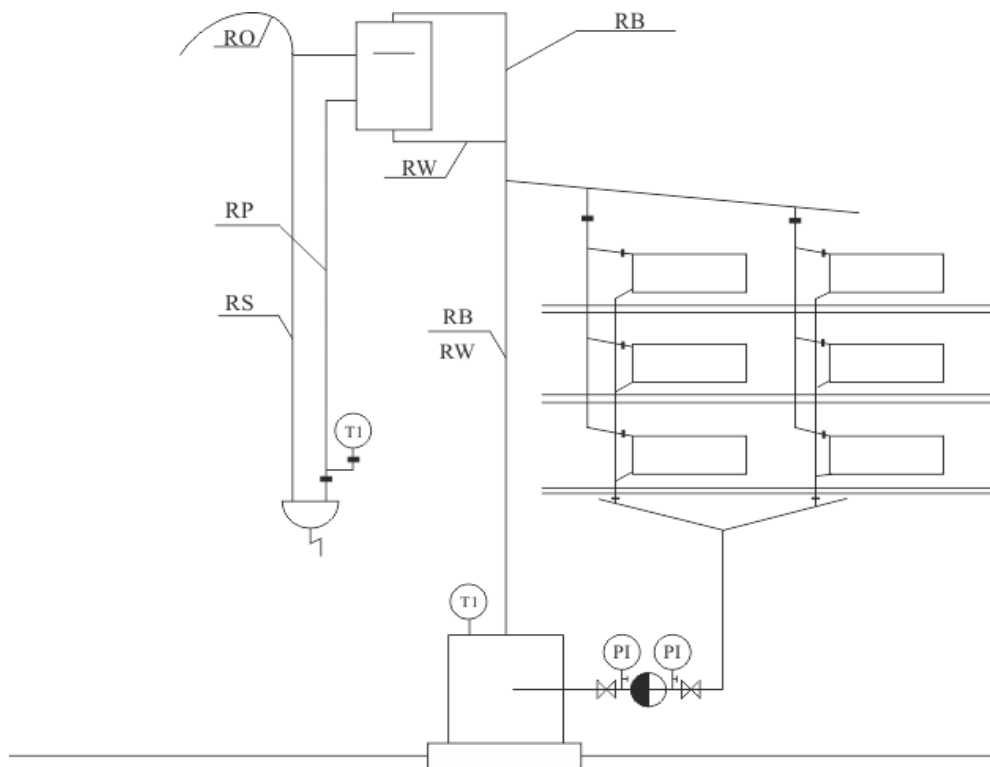
ATTENTION!

The temperature of the water returning from the installation to the central heating boiler should not be lower than 45°C.

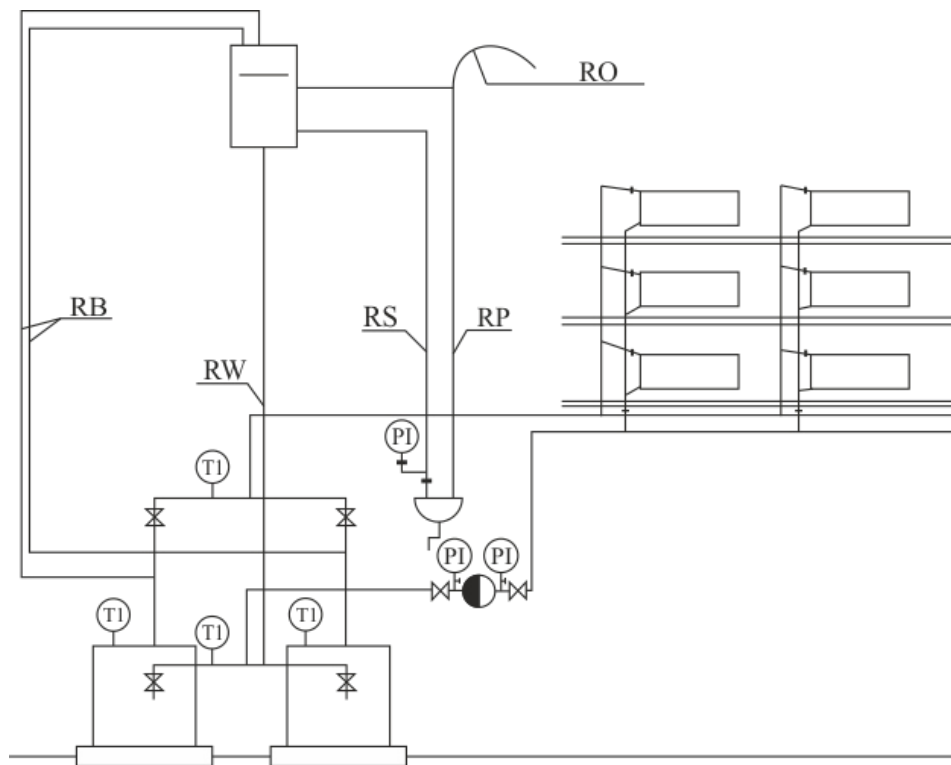


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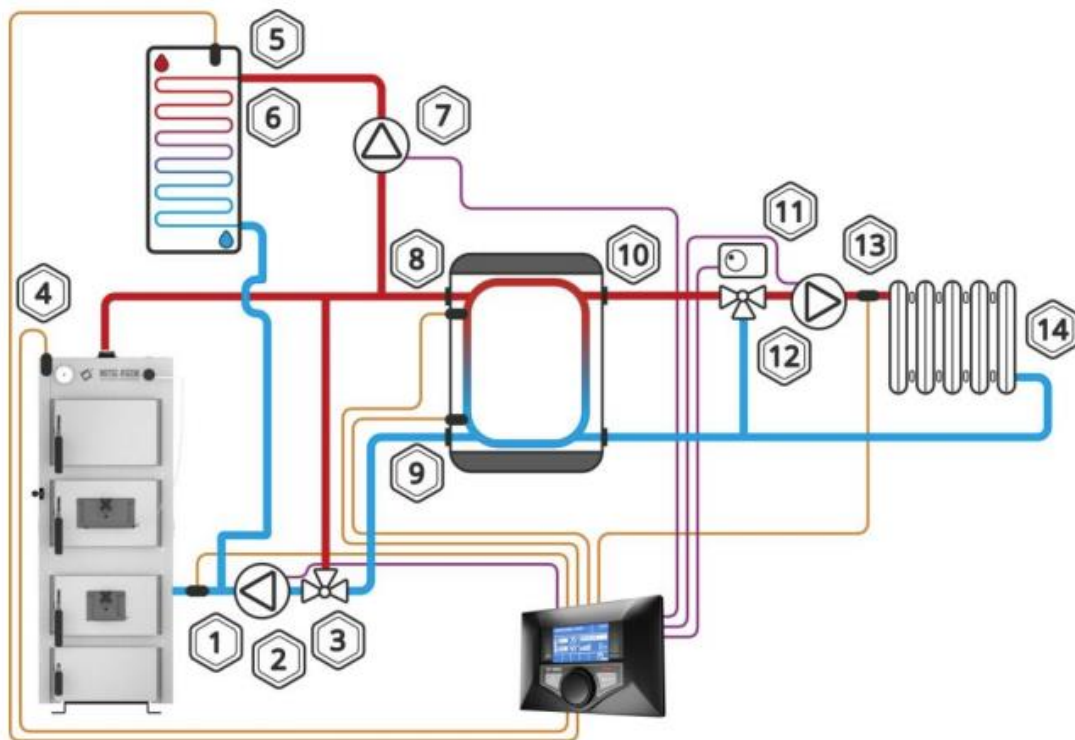
Installation of an APV valve is required (min. 45°C).

Connection diagrams for boilers to the heating system in accordance with the PN - 91/B - 02420 standard


Designation	Description
RO	Vent pipe
RW	Expansion pipe
RS	Signal pipe
RP	Overflow pipe
RB	Safety pipe
T1	Temperature
P1	Pressure

Connection diagrams for boilers to the heating system in accordance with the PN - 91/B - 02420 standard


Designation	Description
RO	Vent pipe
RW	Expansion pipe
RS	Signal pipe
RP	Overflow pipe
RB	Safety pipe
T1	Temperature
P1	Pressure

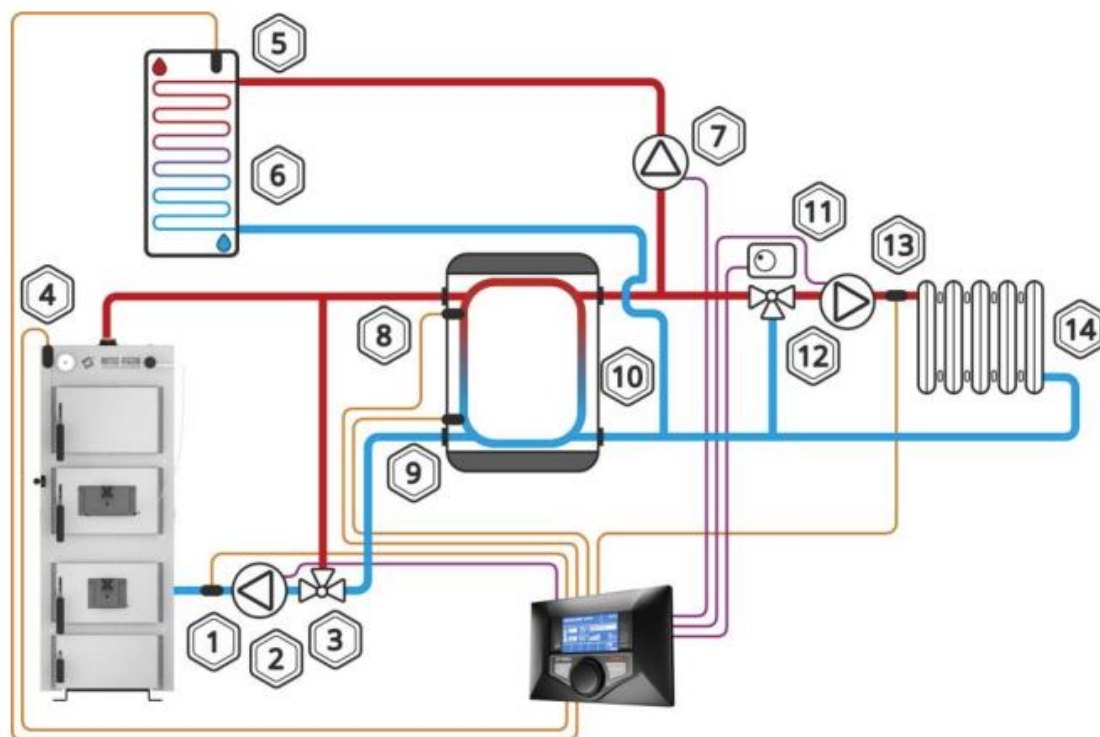
Boiler connection diagram in a system with a buffer (DHW before the buffer)

Legend

- | | |
|--------------------------|----------------------------|
| 1. Return sensor | 8. Buffer top sensor |
| 2. Central heating pump | 9. Buffer bottom sensor |
| 3. 3D thermostatic valve | 10. Buffer |
| 4. Boiler sensor | 11. 3D valve with actuator |
| 5. DHW sensor | 12. Mixer pump |
| 6. Heater | 13. Mixer sensor |
| 7. DHW pump | 14. Heating circuit |


ATTENTION!

In a heating system, a boiler with manual fuel loading must be installed with a buffer to store excess heat!

Boiler connection diagram in a system with a buffer (DHW after the buffer)



Legend

- | | |
|--------------------------|----------------------------|
| 1. Return sensor | 8. Buffer top sensor |
| 2. Central heating pump | 9. Buffer bottom sensor |
| 3. 3D thermostatic valve | 10. Buffer |
| 4. Boiler sensor | 11. 3D valve with actuator |
| 5. DHW sensor | 12. Additional pump |
| 6. Heater | 13. Mixer sensor |
| 7. DHW pump | 14. Heating circuit |



ATTENTION!

In a heating system, a boiler with manual fuel loading must be installed with a buffer to store excess heat!

Expansion vessel requirements

(Installer)

Every open-circuit heating system should be equipped with an expansion vessel, which is designed to absorb the increase in water volume and to vent air. This vessel should be installed at the highest point of the system, vertically above the boiler(s), if possible.

expansion vessel can be estimated by assuming that the unit capacity in relation to one kW of thermal output is 1-2 dm³.

expansion vessel is equipped with a connector for connecting a rising safety pipe, a falling safety pipe, and an overflow pipe with a connected vent. The diameter of the vent pipe and overflow pipe is at least:

$$d = 15 + 1,39 \sqrt{\dot{Q}} \quad [\text{mm}]$$

$\dot{Q}$ - boiler efficiency [kW]

The most important requirements for safety devices are as follows:

- expansion tank should have a volume of approximately 3.5% of the volume of water in the heating system, including the boiler,
- each boiler must have a safety pipe and an overflow pipe,
- the installation should be equipped with a signal and expansion pipe as well as a venting connector for the expansion vessel.

If multiple boilers are installed, each should be equipped with a safety pipe in accordance with the guidelines outlined in PN-91/B02413 – Protection of Open-Vent Water Heating Systems. No shut-off valves should be installed on safety and overflow pipes, and the pipes and vessel should be protected from freezing.

Connecting the boiler to the chimney

(Installer)

Smoke pipes

The purpose of flue gas ducts is to reliably discharge exhaust gases and draw in air for fuel combustion. The chimney draft required for this depends on:

- temperature difference between hot exhaust gases and cold air;
- effective chimney height;
- chimney cross-section not less than 20 x 20 cm;
- construction of the chimney (internal surfaces as smooth as possible) and tightness of the joints;

The effective chimney height is the difference in height between the highest combustion chamber and the chimney outlet. Individual chimneys must have an effective height of at least 4 m, and shared chimneys for solid and liquid fuels must have an effective height of at least 5 m. The height difference between two combustion chambers must not exceed 6.5 m. In the case of sloping roofs, chimneys should terminate at the ridge (the highest point of the roof), in an area of free wind flow. This avoids draft disruptions. Always consider the building's location relative to other buildings.

Selecting a chimney

In most cases, an approximate method or selection according to the chimney manufacturer's diagrams is sufficient for chimney selection. In special cases (unfavorable pressure and temperature dependencies, large exhaust gas volume), chimneys are calculated according to the PN-EN 13384-1+A2:2008 standard.

Chimneys for solid fuel boilers

It should be noted that solid fuel furnaces with a nominal thermal output >20 kW and without a fan require their own chimney. Single-layer brick chimneys can be used for solid fuel furnaces. Currently, three-layer chimneys with a smooth surface and good thermal insulation are used.

The flue

The boiler is connected to the chimney via a flue and a flue pipe. The flue pipe consists of pipes and fittings installed in the rooms. Flues meet fire protection requirements for chimneys and are often made of the same material as the main chimney. Flues should be made of non-flammable materials. Flues or the casing of flues should meet the requirements specified in the Polish Standard for Fire Testing of Small Chimneys. A casing made of 12 cm thick solid brick, built with cement-lime mortar, with external plaster or pointing, is acceptable. Connectors should be as short as possible and run uphill to the chimney to avoid heat loss and additional resistance. They should not be routed to other floors. Flue pipes should not be installed in rooms where fireplaces are not permitted, and they should not be located in walls or ceilings. Due to the low exhaust gas temperature, acid-resistant or ceramic chimney liners should be used to protect the chimney from moisture and draft restriction, with condensate draining to a drain grate. A distance of at least 6 meters should be maintained between the chimney and the nearest tree canopy.

Starting the boiler

(User | Installer)



ATTENTION!

Controller settings are subject to flexibility and adjustment based on the variety of existing central heating systems, building heating requirements, and fuel calorific value. The user sets the boiler's operating parameters independently. This is not subject to service.

Before lighting the fire in the boiler, check whether the central heating installation has been installed correctly and whether it is properly filled with water - until it overflows through the overflow pipe from the expansion vessel .

To fill the entire installation or replenish losses, the most suitable water would be softened/chemically treated water, distilled water or rainwater.

In addition, check whether the ash has been removed from the ash pan.

The SEMAX BASIC boiler is a bottom-firing boiler, meaning the exhaust gas outlet from the hopper is located at the bottom, right next to the grate. The smoke vent is located at the top of the boiler; it serves only to vent smoke from the chamber during fuel refilling during operation and should never be used as a convection channel during combustion.

The kindling should be placed on the grate right next to the exhaust outlet into the ceramic duct. Before lighting the kindling, you should:

- Check whether the smoke extraction flap (13) is closed.
- Turn on the controller to start the exhaust fan and create chimney draft.
- Raise the flap (16) in the ash pan door (4) as far as possible or open the door.
- Close the secondary air supply in the intake (9).
- Light the kindling.

Once the first batch of ignition has ignited, add a little more fuel. If the entire inlet to the ceramic channel is covered with lit fuel, the entire chamber can be filled with it.

Whenever adding fuel, i.e. opening the loading door (2), remember to first open the smoke extraction flap (13) and then close it completely. After this, you can open the secondary air intake (9) and close the ash door, leaving the flap (16) open, held by the knob.

**ATTENTION!**

Smoke and tar on the walls of the hopper in this type of boiler (with bottom combustion) should be considered normal. This does not affect the boiler's efficiency or durability; it is purely aesthetic.

**ATTENTION!**

When opening the door, do not stand in front of the boiler, as burns may occur.

When using the boiler, please remember

(User)

- the boiler may only be operated by adults who are familiar with the operating instructions;
- It is forbidden for children to stay near the boiler without the presence of adults;
- if flammable gases or vapours enter the boiler room or during work during which there is an increased risk of fire or explosion (gluing, painting, etc.), the boiler must be switched off before starting the work;
- when cleaning the carbon deposits in the burner or gutter, the boiler should be turned off ("STOP" position);
- when adding fuel to the tank, the boiler must be turned off ("STOP" position);
- flammable liquids must not be used to light the boiler, the boiler should be ignited automatically (using an igniter);
- before cleaning the boiler, the device must be turned off ("STOP" position) and cooled down;
- During operation, the boiler must not be overheated in any way;
- no flammable objects may be placed on the boiler or in its immediate vicinity;
- when removing ash, flammable materials must not be located at a distance of less than 150 cm from the boiler;
- the ash should be placed in ovenproof containers with a lid;
- when the boiler operates at a temperature lower than 60°C, condensation may occur on the steel heat exchanger and thus lead to corrosion due to the low temperature, which shortens the life of the heat exchanger; therefore, the temperature during boiler operation must be at least 60°C;
- After the heating season, the boiler and the smoke pipe should be thoroughly cleaned;
- the boiler room should be kept clean and dry.

**ATTENTION!**

The product is not intended for use by persons with reduced physical/mental abilities or lacking experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.

**ATTENTION!**

Any independent interference with the electronics or construction of the boiler is prohibited.

Cleaning and maintenance

(User)



ATTENTION!

Cleaning the boiler may only be performed when the device is disconnected from the mains.

To save fuel, keep the boiler's combustion chamber and convection channels clean. The combustion chamber walls and shelves should be cleaned through the cleaning and inspection doors. The boiler heat exchanger and ash pan should also be cleaned regularly.

Cleaning should be performed using wire brushes with extension cords. This should be done during the boiler's periodic shutdown, ideally every 100 hours of operation. A thorough cleaning of the boiler should be performed once a month.

Instructions for disposing of the boiler after its service life has expired

(User)

Before scrapping the boiler, all electronic components must be disconnected. They must be disposed of in accordance with European Directive 2002/96/EC on the disposal of electronic and electrical equipment. For proper disposal, contact the manufacturer of the electronic components in accordance with the aforementioned European Directive.

The steel elements from which the boiler is made should be scrapped in designated places (scrap yards).



ATTENTION!

A used boiler intended for scrapping and its components should not be disposed of with general waste.

Spare parts list

(User | Installer)

Spare parts	Article
Instrumentation	Door handle

Examples of device failure

(User)

Before you call for service, read the most frequently asked questions.

**ATTENTION!**

In the event of an unjustified service call, the customer covers the costs of labor and travel; the price list is available at www.metalfachtg.com.pl/kontakt-z-serwisem

**TIP!**

Online reporting: www.metalfachtg.com.pl/zglos-problem-online

Hotline: +48 85 711 94 54 ext. 17

FAQ: www.metalfachtg.com.pl/kontakt-z-serwisem

Instructional videos: <https://www.youtube.com/@mf.metalfachtg>

Terms and conditions of warranty

User Declaration:

I hereby declare that the boiler (hereinafter also referred to as the "device") was delivered to me in accordance with the order, new and complete. The seller has familiarized me with the operation of the device and provided me with all necessary documentation (including, in particular, the Operation and Maintenance Manual containing, among other things, the installation and operating instructions for the device, and warranty terms). I acknowledge the manufacturer's recommendation to have the device undergo regular annual technical inspections, which must be confirmed in the warranty card.

Date and legible signature of the User

Scope of warranty:

1. Liability under the warranty covers only defects resulting from causes inherent in the device at the time of its delivery to the User.
2. The warranty for the device is provided by the manufacturer (also referred to as the "Guarantor"): Jacek Kucharewicz, conducting business activity under the name METAL-FACH Technika Grzewcza Sp. z o. o., 16-100 Sokółka, ul. Sikorskiego 66, TAX: 545-182-60-12, REGON 050073833, telephone +48 85 711 94 54 ext. 17.
3. Under the warranty, the User is entitled to free repair of the device if defects are discovered during the warranty period. If the Guarantor determines that the device or its parts cannot be repaired, the Guarantor reserves the right to replace the device or its parts with new ones.

Warranty period:

For the device (boiler) – 2 years from the date of sale, but no longer than 36 months from the date of its production except:

- a) exchanger – for which the warranty is 5 years from the date of sale;
- b) moving, cast iron, mechanical elements, worm – for which the warranty is 1 year from the date of sale;
- c) consumables (including sealing cord, gaskets, vermiculite , fireclay), electrical components, screw securing the worm clutch, cotter pins – which are not covered by the warranty.

Terms of use of the guarantee:

1. Installing the device in accordance with the Operation and Maintenance Manual (in particular, connecting the boiler to a properly installed system, performing the first start-up in accordance with the device manufacturer's guidelines, using devices protecting the boiler against cold water returning (four-way valve with actuator, loddomat , etc.).
2. Returning a copy of the properly completed warranty card, signed and stamped by the seller, to the Manufacturer's address within 30 days from the date of sale of the device.
3. When submitting a complaint, please present a properly completed warranty card (signed and stamped by the seller) and provide supporting information regarding the purchase of the device (e.g., receipt, invoice). If the User loses the warranty card, a duplicate will not be issued.
4. The User must comply with the recommendations contained in the Technical and Operational Documentation of the device.
5. The first commissioning of the boiler must be carried out within 6 months of the date of installation by the installer in accordance with the guidelines contained in the Operation and Maintenance Manual, by a person with valid authorization (information on persons authorized to commission the boiler is available from the Guarantor at +48 85 711 94 54 ext. 17), confirmation of this fact in the warranty card, and sending a commissioning report to the Guarantor. The first commissioning of the boiler is a paid service and its cost is covered by the User.
6. Annual inspections of the device, in accordance with the guidelines contained in the Technical and Operational Documentation, carried out by specialist companies with appropriate authorizations (a sample list of specialist

companies is available from the Manufacturer - call +48 85 711 94 54 ext. 17) and recording their performance in the warranty card. Device inspection is a paid service.

7. Service on the device (e.g., device adjustment, cleaning, measurements, exhaust gas analysis) must be performed by specialist companies with appropriate authorizations (a sample list of specialist companies is available from the Manufacturer – call +48 85 711 94 54 ext. 17), in accordance with the guidelines contained in the Operation and Maintenance Manual, and service activities must be recorded in the warranty card. The User may report the need for service interventions to the Guarantor (Hotline +48 85 711 94 54 ext. 17, www.metalfachtg.pl/zglos-problem-online). This service is subject to a fee.
8. Warranty repairs must be carried out only by specialist companies with appropriate authorisations (a list of specialist companies is available from the Guarantor - +48 85 711 94 54 ext. 17), and recorded in the warranty card.
9. Use of spare parts and consumables that meet the parameters specified by the manufacturer. The use of original parts is recommended.
10. The warranty covers the territory of the Republic of Poland.

The warranty does not cover device defects resulting from:

1. Failure by the User to comply with the conditions contained in the Technical and Operational Documentation and, among others, the instructions contained therein regarding the transport, assembly, operation, use and maintenance of the device;
2. Improper storage and transport by the User;
3. Damage to device components caused by the User applying inappropriate voltage. If the device is powered directly or indirectly by generators, UPS systems, or devices, the User should consult the power supply device parameters with the manufacturer;
4. Device defects caused by a faulty heating system connected to the device;
5. Overheating of the boiler by the User;
6. The User connects the boiler to a closed system without using an appropriate cooling device;
7. The User uses inappropriate, poor quality fuel;
8. Unauthorized modifications to the device by the User

Complaints procedure:

1. If you notice that the device is not working properly, before filing a complaint, please make sure that everything has been done in accordance with the Technical and Operational Documentation.
2. The User should report the need for warranty repair immediately, preferably within 7 days of noticing the defect. Reports can be made directly to the Seller or the Guarantor (www.metalfachtg.pl/zglos-problem-online or by calling the hotline at +48 85 711 94 54 ext. 17).
3. It is recommended to refrain from using the faulty device.
4. The user is obliged to ensure free access to the device (in particular, enabling the removal of the device housing and access to the valves).
5. Warranty repairs will be performed by the Guarantor or a specialist company indicated by the Guarantor.
6. The obligations arising from the warranty will be fulfilled within 14 working days, counting from the date the device is made available (at the place of its installation) by the User.
7. The date of making the device available is agreed between the User and the Guarantor.
8. Depending on the scope of the repair, it may be performed at the User's premises, at the place of installation of the device, or at the Guarantor's facility or at the premises of a specialist company performing the work on behalf of the Guarantor.
9. The repair performed under warranty must be confirmed in the warranty card.
10. The warranty is extended by the period during which the user was unable to use the device due to a defect in the device covered by the warranty.
11. The warranty does not exclude, limit or suspend the buyer's rights arising from the provisions on warranty for defects in the sold item.

Confirmation of inspection, warranty repair, and service

Date of execution	Description of activities performed	Signature and stamp of the contractor
1.		
2.		
3.		
4.		
5.		
6.		

Date of execution	Description of activities performed	Signature and stamp of the contractor
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7.

8.

9.

10.

11.

12.

EC/EU Declaration of Conformity

Producer:	Product name and purpose:
METAL-FACH Technika Grzewcza Sp. z o. o. Sikorskiego Street 66 16-100 Sokółka TAX 545-182-60-12	Steel central heating boiler for solid fuel with automatic fuel charging.
	Type: SEMAX BASIC DUO
	Serial number:
	Year of production:

The above-mentioned subject of this EU declaration of conformity complies with the applicable requirements of Union harmonisation legislation .

Reference documents:
1. Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery
2. Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
3. Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of pressure equipment.
4. Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits
5. Commission Regulation (EU) 2015/1189 Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products
6. Commission Regulation (EU) 2015/1187 Directive 2010/30/EU of the European Parliament and of the Council of 19 May 2010 on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products
7. Commission Regulation (EU) 2015/863 (ROSHIII) Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
8. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

Technical documentation :

1. Standard PN-EN 303-5:2021-09 Heating boilers for solid fuels with manual and automatic fuel charging with a nominal power up to 500 kW.
2. PN EN 1708-1:2020 Welding Basic solutions for welded steel joints Part 1. Pressure-bearing components.
3. PN EN 60335-1 2012 Household and similar electrical appliances Safety Part 1: General requirements.
4. PN EN 60335-2-102 2006/A1:2010 - Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid fuel burning appliances having electrical connections.
5. PN EN 61000-6-2:2008 Electromagnetic compatibility (EMC) -- Part 6-2: Generic standards -- Immunity for industrial environments.
6. PN EN 61000-6-3:2008/A1:2012 Electromagnetic compatibility (EMC) -- Part 6-3. Generic standards -- Emission standard for residential, commercial and light-industrial environments.
7. PN-EN IEC 63000:2019-01 Technical documentation for the assessment of electrical and electronic products with regard to the restriction of hazardous substances.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The product is marked with the following marks:

Place and date:



Sokółka, 11.2024

Approving Persons:

President of the Management
Board:
Jacek Kucharewicz

 **PREZES-ZARZADU**
Jacek Kucharewicz

Production Director:
(The person authorized to prepare
technical documentation)
Eliasz Kasperuk

 **DYREKTOR
PRODUKCJI**
Eliasz Kasperuk

Warranty card

Central heating boiler with power [kW]:

Type:

Number:

Production date of the boiler:

Boiler sale date:

Buyer's name and surname:

Buyer's address

Date of purchase and stamp

Customer's signature

I accept the warranty terms:



Personal data provided in this form are processed by Jacek Kucharewicz, conducting business activity under the name METAL-FACH Technika Grzewcza Sp. z o.o., 16-100 Sokółka, ul. Sikorskiego 66, TAX: 545-182-60-12, telephone +48 85 711 94 54 ext. 17 in order to implement the provisions contained in the warranty terms and conditions – in accordance with the Act of 29 August 1997 on Personal Data Protection (consolidated text: Journal of Laws of 2014, item 1182). The user has the right to access their personal data, to correct it, to request cessation of data processing, and to object to data processing in cases indicated by law. All correspondence concerning the processing of personal data should be sent to the following address: METAL-FACH Technika Grzewcza Sp. z o.o., 16-100 Sokółka, ul. Sikorskiego 66. Providing personal data is voluntary. In accordance with the Personal Data Protection Act of 29 August 1997 (consolidated text: Journal of Laws of 2014, item 1182), we hereby inform you that the personal data provided in this form will be protected against unauthorized access.

Complaint submission

Customer data	Central heating boiler data	
Name and surname	Product name:	
Residential address	Model:	
Phone	Serial number	
Purchase document number:	Warranty period	Includes Does not include
Payment settlement document number:		

Detailed description of the fault:	
Seller's signature	

Conditions for initiating the complaint repair procedure:

1. Confirmation by the point of sale that the amount due for the product being complained about has been paid constitutes the basis for initiating the complaint procedure.
2. The warranty card is the only basis for free repair.
3. The complainant undertakes to reimburse the costs incurred by METAL-FACH Technika Grzewcza Sp. z o. o. in the event of an unjustified call for a service team or failure to comply with points 1 or 2 (each commenced hour of the service technician's work PLN 70 net, travel PLN 1 net/km in both directions).
4. The legible signature of the person submitting the complaint confirms that he or she has read the basic terms and conditions of the complaint procedure.

Date of purchase and stamp	Customer's signature
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I declare that I have read the warranty terms and conditions under which I am making a complaint and I consent to the processing of my personal data for the purposes of the complaint process in accordance with the Personal Data Protection Act of 29 August 1997 (Journal of Laws No. 133, item 833).

Legible signature of the person submitting the complaint
--

The manufacturer undertakes to carry out warranty repairs within 14 days from the date of receipt of the user's written notification of damage on the manufacturer's complaint form.

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Report on the first start-up of the boiler

(Copy of the company METAL-FACH Heating Technology)

To verify your purchase and validate your warranty, you must submit a report within 30 days of first use. This can be done by:

1. E-mail - where a scan or photo of the report will be posted.
2. A letter containing a copy of the report will be sent to METAL-FACH Technika Grzewcza Sp. z o. o. The company's address can be found at the end of the Technical and Operational Document.

Boiler	Comment
The conditions contained in the Operation and Maintenance Manual in the chapter "Requirements for the boiler room and boiler installation" are met.	☐
The conditions specified in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the chimney" are met.	☐
Central heating system	Comment
The conditions included in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the heating system" are met.	☐
Expansion vessel " are met.	☐
There is no other heating source. If so, how does it affect the boiler's operation?	☐
Protecting the system against freezing.	☐
Connecting elements to the electrical installation	Comment
The conditions contained in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the electrical installation" are met.	☐
Equipment test	Comment
The sensors are located in the right place.	☐
Sensor readings are consistent with the actual condition.	☐
The direction of fan rotation is correct.	☐
Opening the fan flap using the force of the blower.	☐
The direction of rotation of the screw is correct.	☐
Boiler start-up	Comment
The tightness of the hydraulic connection of the boiler to the installation is maintained.	☐
FIREMAN system test (if installed).	☐
Checking the connection of the fuel feeder to the boiler.	☐
Filling the fuel tank with fuel.	☐
Checking the fuel supply through the feeder.	☐
Firing up the boiler according to the section "Starting the boiler".	☐
Initial adjustment of boiler operating parameter settings.	☐
Final adjustment of boiler operating parameter settings.	☐

Confirmation of user training in the field		Comment
Instructions for the user on how to safely operate the boiler are included in the chapter "When using the boiler, remember to do the following."	☐	
Instruction in the operation of the boiler regulator and regulation of the combustion process.	☐	
Fan speed settings.	☐	
Boiler maintenance chapter "Cleaning and maintenance of the boiler"	☐	
Required fuel quality chapter "Fuel"	☐	
Procedure in case of emergency, chapter "Examples of device failure"	☐	

Launch date	Boiler name	Boiler power [kW]	Serial number
Name and surname of the service technician		Name and surname of the owner	
Address		Address	
Company seal		Contact number	
Signature		Signature	

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Report on the first start-up of the boiler

(Copy of the boiler owner)

To verify your purchase and validate your warranty, you must submit a report within 30 days of first use. This can be done by:

1. E-mail - where a scan or photo of the report will be posted.
2. A letter containing a copy of the report will be sent to METAL-FACH Technika Grzewcza Sp. z o. o. The company's address can be found at the end of the Technical and Operational Document.

Boiler	Comment
The conditions contained in the Operation and Maintenance Manual in the chapter "Requirements for the boiler room and boiler installation" are met.	☐
The conditions specified in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the chimney" are met.	☐
Central heating system	Comment
The conditions included in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the heating system" are met.	☐
Expansion vessel " are met.	☐
There is no other heating source. If so, how does it affect the boiler's operation?	☐
Protecting the system against freezing.	☐
Connecting elements to the electrical installation	Comment
The conditions contained in the Operation and Maintenance Manual in the chapter "Connecting the boiler to the electrical installation" are met.	☐
Equipment test	Comment
The sensors are located in the right place.	☐
Sensor readings are consistent with the actual condition.	☐
The direction of fan rotation is correct.	☐
Opening the fan flap using the force of the blower.	☐
The direction of rotation of the screw is correct.	☐
Boiler start-up	Comment
The tightness of the hydraulic connection of the boiler to the installation is maintained.	☐
FIREMAN system test (if installed).	☐
Checking the connection of the fuel feeder to the boiler.	☐
Filling the fuel tank with fuel.	☐
Checking the fuel supply through the feeder.	☐
Firing up the boiler according to the section "Starting the boiler".	☐
Initial adjustment of boiler operating parameter settings.	☐
Final adjustment of boiler operating parameter settings.	☐

Confirmation of user training in the field		Comment
Instructions for the user on how to safely operate the boiler are included in the chapter "When using the boiler, remember to do the following."	☐	
Instruction in the operation of the boiler regulator and regulation of the combustion process.	☐	
Fan speed settings.	☐	
Boiler maintenance chapter "Cleaning and maintenance of the boiler"	☐	
Required fuel quality chapter "Fuel"	☐	
Procedure in case of emergency, chapter "Examples of device failure"	☐	

Launch date	Boiler name	Boiler power [kW]	Serial number
Name and surname of the service technician		Name and surname of the owner	
Address		Address	
Company seal		Contact number	
Signature		Signature	

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Online form



Video instructions



Website



Contact with service:

Sikorskiego Street 66, 16-100 Sokółka
+48 85 711 94 54 ext. 17
e-mail: p.czepiel@metalfach.com.pl

Producer:

METAL-FACH Technika Grzewcza Sp. z o. o.
Sikorskiego Street 66, 16-100 Sokółka
TAX: 545-182-60-12, REGON: 523566030
www.metalfachtg.com.pl