



# BOILERS

FOR WOOD, PELLETS AND COMBINED

Keeping your home warm

# What is our goal?










Nature and wood have always had and will always have a place in our hearts. We believe in its irreplaceability in the heating sector. This was the reason for the decision to make wood – a local, available and renewable fuel – something special.

Heating with wood has always been associated with effort, time and dirt. But why not try to change that? Can't it be done simply, comfortably and cleanly? These questions led us to found the Czech family company and its pioneering mission – to change the perception of wood heating itself. We want to bring our customers the warmth of a home that can be achieved comfortably and cleanly. At the same time, we want to save fuel, nature and the planet, because we only have one.

In our quest for innovation, we are creating advanced solutions that are more than just effective. They are also environmentally friendly and focused on user comfort. Our values, fearlessness, uniqueness and reliability lead us to further our goals not only in the company but also in the family. A family that is committed to protecting nature, saving time and energy. Come and be part of it. The door is open...

  
**Roman Tihelka**  
CEO

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# Why buy a boiler from the Czech manufacturer BLAZE HARMONY?

- 1

**One fire-up that lasts all season**

The patented mechanical residual fuel detection system ensures unmatched efficiency by automatically stopping the burning process when the fuel runs out. This innovative system maintains a layer of hot embers in the combustion chamber for several hours, drastically reducing the number of re-ignitions and making “one fire-up that lasts all season” a reality.

PATENTED
- 2

**Increased protection and extended boiler life**

The built-in thermostat and specially designed water mixing system integrated into the boiler body provide protection against low-temperature corrosion. This innovation replaces the need for complex mixing valves, such as Laddomat, traditionally used for boiler protection. Additionally, it enables gravity operation without the need for a pump, resulting in significant installation savings and safe operation (for wood gasification and combined boilers).

PATENTED
- 3

**Quality and efficient combustion of any wood**

The three-way air supply system ensures even and gradual combustion of fuel, enabling high-quality performance with fuels of varying sizes. The pre-drying air, which (if necessary) is provided into the upper part of the chamber, dries wet fuel, allowing it to burn efficiently. This process helps maintain the boiler’s high efficiency and low emission values, even when using less-than-ideal fuel conditions.

PATENTED
- 4

**Continuous, economical operation and low emissions**

At the bottom of the stocking chamber, you will find a special designed jet nozzle that has a ray-shape. It keeps the fuel in the correct position, thereby increasing efficiency and reducing emissions. Thanks to its original shape, the nozzle does not clog with ash, allowing continuous operation. At the same time, the nozzle passage size is larger and the fan consumes less electricity.

PATENTED
- 5

**Exchanger cleaning during boiler operation for high efficiency**

The mechanical turbulators located in the boiler exchanger enable cleaning without the need for a shutdown. By simply moving the turbulators up and down with a lever, the user can perform quick and easy maintenance, ensuring consistent high boiler efficiency without dismantling any parts or interrupting operation.
- 6

**Corrosion protection with the insulated warm chamber system**

The insulated loading chamber is designed with walls that are not directly cooled by water. This innovative design ensures higher wall temperatures, effectively preventing condensation and tar appearance. As a result, the boiler’s service life is significantly extended—lasting several times longer than conventional gasification boilers. Additionally, the chamber is replaceable, providing even greater durability and flexibility for long-term use.
- 7

**Innovative combustion chambre design**

The inclined bottom of the gasification chamber works like an automatic ash remover. It makes sure the ash clears out on its own, so you don’t have to clean it before starting again. A feature that saves you time and effort.
- 8

**Balance of efficiency and performance**

The possibility of output adjustability lets you effortlessly set the desired boiler output in precise percentages, giving you full control during operation. By reducing the output, the boiler achieves an extended burn time without compromising the exceptional combustion quality you’d expect at 100 % power. This balance of efficiency and performance not only helps you save on fuel but also allows for the installation of a smaller – more cost-effective buffer tank.

- Low total acquisition cost

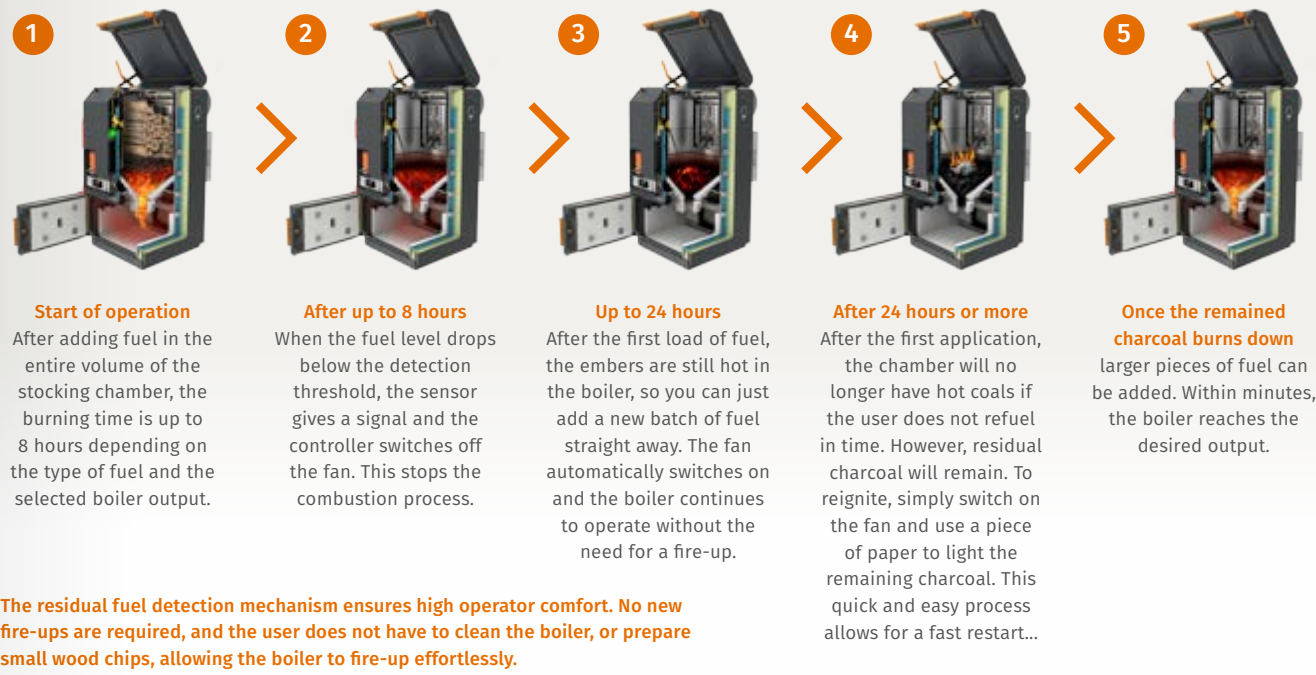
  - Water mixing system directly installed in the boiler
  - Excellent output adjustability allows the same quality operation (in terms of efficiency and comfort) even with a smaller buffer tank volume
  - Small dimensions, low installation requirements, double-sided design
  - Possibility of gravity connection without boiler pump
  - Selected models can be installed without a buffer tank
  - Long boiler lifetime – up to 20 years with a 7-year warranty on the boiler body
- Low operating costs

  - Fuel saving – ensured by the authentic boiler body design, residual fuel detection system, power adjustability and optimized air supply
  - Electricity savings – the gravity connection (without pump and mixing valves) reduces electricity costs
  - Service cost savings – progressive design features (split heat fittings made of special ceramics, replaceable stocking chamber and components made of top-quality heat-resistant steel) ensure low costs for the consumable parts
  - The BN PLUS model allows long-term operation without electricity
- Quality combustion

  - Authentic combustion chamber design
  - **Patented** 3-way air supply system allows combustion of different sized fuels (fully automatic for boilers equipped with lambda probe)
  - The boiler output automatically regulated by the controller based on the configured parameters.
  - Control of the exhaust gas temperature
- Comfortable operation

  - Excellent adjustability and **patented** automatic stator system
  - Top-loading ensures convenient access and better use of the entire volume of the feeding chambre.
  - No need to remove ash from the bottom of the stocking chamber
  - Cleanliness during feeding thanks to smoke extraction by powerful exhaust fan
  - Mechanical turbulators that ensure cleanliness and efficiency of the exchanger without the need to shut down
  - Ceramic glass for combustion chamber visibility

# Semi-automatic operation of wood gasification boiler



## Lambda probe

Wood gasification and combined boilers are equipped with a three-way combustion air supply. Unlike other boilers, the distribution of the air entering the stocking chamber can be easily controlled with BLAZE boilers. The boiler can therefore also be adapted to different fuels. The relative air ratio is determined by a multifunctional sliding damper controlled by a lambda probe via a servo drive (selected models). This makes it possible to efficiently burn both hard and soft wood

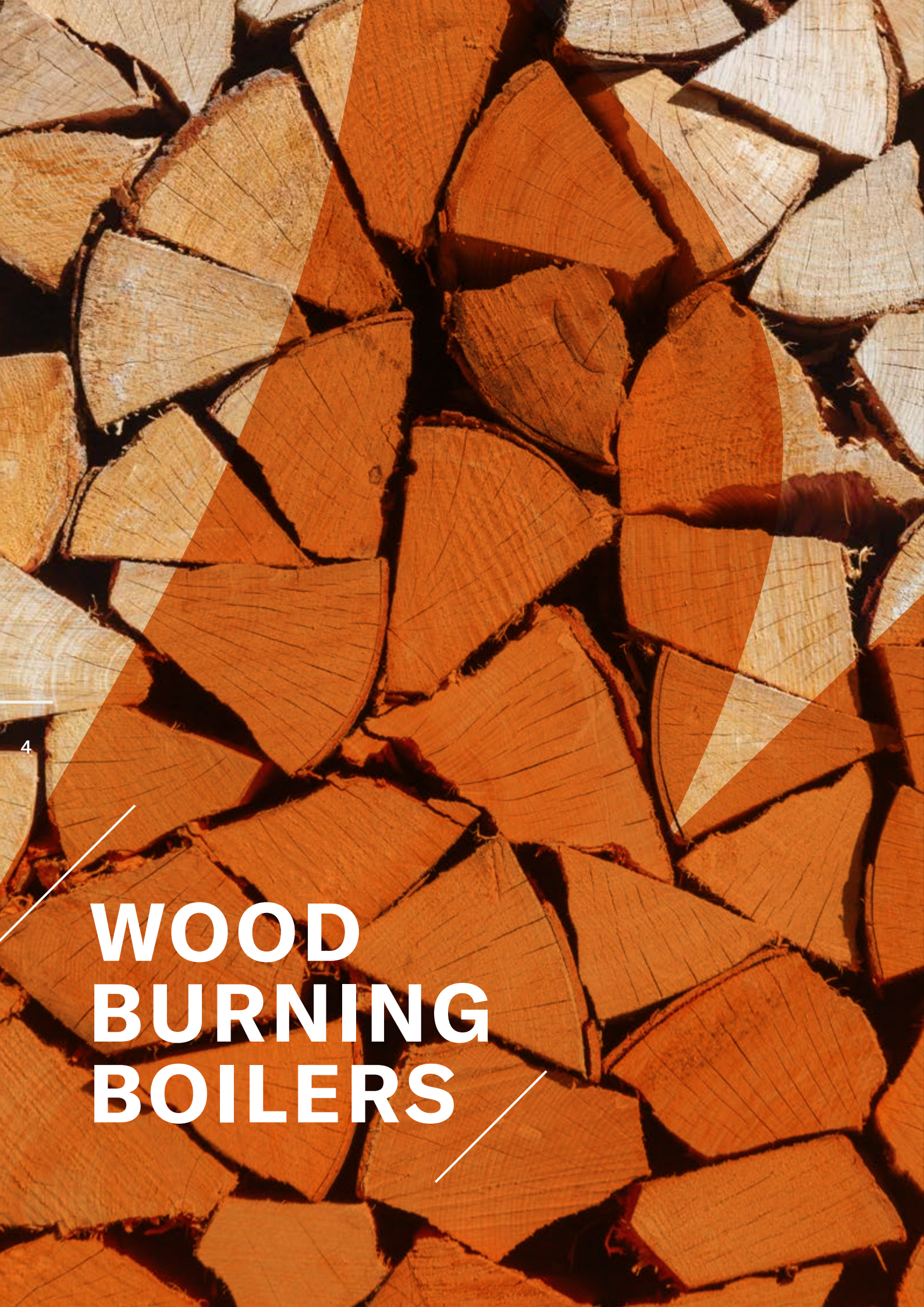
and, if necessary, pre-drying air is supplied to the upper part of the chamber to reduce the fuel moisture to the ideal value. This ensures quality combustion and maintains the boiler’s high efficiency and low emission values. The Lambda probe is an important element that senses the residual oxygen value. This method of automatic combustion control means further savings in fuel consumption.

## Comparison of parameters of gasifying boilers

	BLAZE boilers	Conventional boiler
Possibility of installation without buffer tank (only for boilers with 30–100 % adjustable output)	YES	NO
Certified adjustable output	YES	NO
Possibility of installing a buffer tank with a smaller volume	YES	NO
Integrated mixing of return water	YES	NO
Possibility of gravity connection	YES	NO
Operation during power failure	YES	NO
Top loading	YES	NO
Control unit included in the boiler price	YES	NO
Compact size (space saving)	YES	NO
Easy maintenance	YES	NO
Number of stocking per day*	1–2	2–5
Burning time per load (when the chamber is fully filled with hard wood)	3–8 hours	2–5 hours
Usable volume of the feeding chamber	Approximately 90 %	Approximately 70 % (front loading)
Fuel consumption	0,25–0,35 kg/kWh	0,35–0,45 kg/kWh

\* Indicative values for normal installation. Example of a typical daily consumption of a house with a heat loss of 15 kW during the heating season. Daily consumption is proportional to outdoor temperature.





# WOOD BURNING BOILERS

## NEW GENERATION OF EFFICIENT WOOD BOILERS

Wood gasification boilers from the Czech manufacturer BLAZE HARMONY offer a unique solution for heating your house, workshop or recreational facility. Patented technologies and well-thought-out boiler design allow comfortable, clean and almost unattended operation with low fuel consumption and emissions. The perfect technical solution for burning affordable, economical and renewable fuel – wood logs.

### What is a gasifying boiler?

This is the most modern technology in the field of wood combustion. The efficiency of the gasifier is based on a multi-stage combustion process supported by fan speed control. The wood first releases the so-called wood gas, which burns better and more efficiently than the wood logs itself. The boiler has an exhaust fan that regulates the supply of combustion air, ensuring proper combustion by adjusting its speed. This allows precise control over the combustion process and the boiler's instantaneous output during operation.





# BLAZE GREEN

Modern wood boiler with perfect combustion



7 years warranty on the boiler body



Automatic control unit ecoMAX



Online management via ecoNET

The BLAZE GREEN boiler is the ideal solution for heating homes, recreational and commercial buildings. Thanks to its advanced technology, this boiler stands out as the best product on the market, delivering perfect wood combustion and exceptionally low emissions. Its superior performance makes

it an ideal choice for years to come, particularly in light of potential tightening of emission standards. The BLAZE GREEN boiler incorporates all key design features, ensuring comfortable, economical, and highly efficient operation.

## Benefits of BLAZE GREEN

- Lambda probe for automatic air management
- Certified power adjustability 50–100 %
- Low fuel consumption
- Low emissions (several times lower than required by Emission Class 5)
- 4 patents in one boiler (fuel detection, water mixing, three-way air supply and ray-shaped nozzle)
- Comfortable semi-automatic operation
- Control unit with touch screen
- Insulated stocking chamber
- Lever for cleaning the exchanger
- Possibility of gravity connection
- Compact dimensions

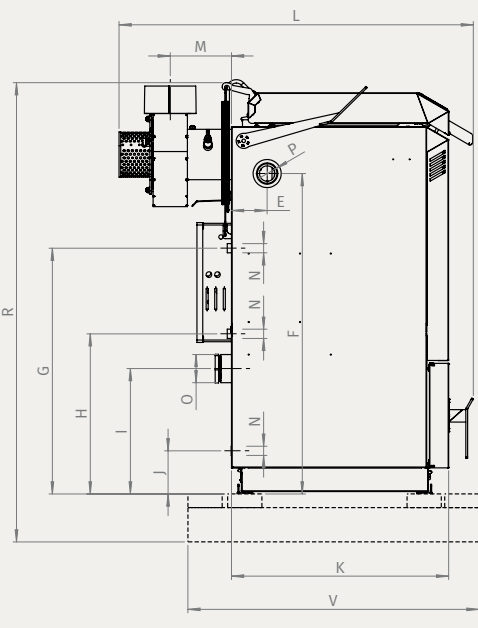
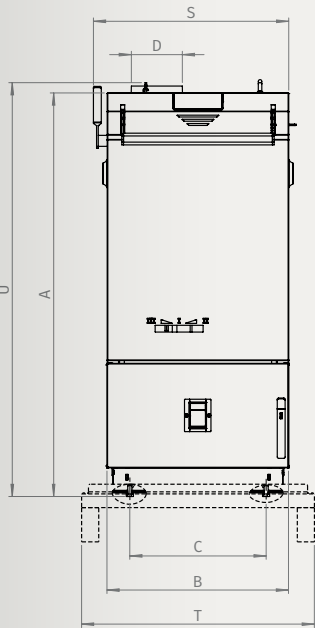
More info about the boiler



## Technical parameters

	BG 10	BG 18	BG 26	BG 33
Nominal output (kW)	10	18	26	33
Adjustable output (kW)	5–10	9–18	13–26	16–33
Efficiency (%)	93	92	92	93
Emission class	5			
Ecodesign	YES			
Energy class	A+			
Log length (cm)	25	33	50	50
Stocking chamber volume (l)	40	80	120	120
Boiler weight (kg)	245	340	440	440
Maximum operating pressure (bar)	3			
Water volume (l)	32	40	55	55

## Dimensions



	BG 10 (mm)	BG 18 (mm)	BG 26 (mm)	BG 33 (mm)
A	1200	1200	1200	1200
B	450	530	714	714
C	320	402	568	586
D	Ø149	Ø149	Ø149	Ø149
E	105	105	105	105
F	945	945	945	945
G	750	750	750	750
H	475	475	475	475
I	280	375	375	375
J	100	135	135	135
K	565	635	635	635
L	955	1035	1035	1035
M	180	180	180	180
N	G 1/2"	G 1/2"	G 1/2"	G 1/2"
O	G 6/4"	G 6/4"	G 6/4"	G 6/4"
P	G 6/4"	G 6/4"	G 6/4"	G 6/4"
R	1317	1317	1317	1317
S	496	576	760	760
T	684	684	868	868
U	1202	1202	1202	1202
V	850	850	850	850

## Emission parameters

All BLAZE HARMONY boilers feature significantly lower emission values than those required by the 303-5 and Ecodesign standards. However, the BLAZE GREEN boiler pushes the limits even further when burning lump wood, achieving even lower emission values. The patented beam nozzle, together with automatic combustion control via a lambda probe, ensures very low emission levels. These values are already at the very limit of measurability and are, for example, comparable to condensing gas boilers. And we still burn biomass – a renewable and affordable fuel.

Fuel: wood		BG 10	BG 18	BG 26	BG 33
CO (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	88	21	18	25
OgC/THC (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	3	<1	<1	4
NO <sub>x</sub> (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	83	114	108	126
Dust (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	15	12	14	12

# BLAZE NATURAL PLUS

The wood boiler that combines technology and tradition

7 years warranty  
on the boiler body

The BLAZE NATURAL PLUS boiler offers a combination of technological sophistication and simplicity of operation. This makes it the ideal solution for the simple replacement of

existing unsuitable boilers. The boiler includes a simplified control unit, which does not offer all the functions of other models, but is characterised by its simplicity of operation.

## Benefits of BLAZE NATURAL PLUS

- Possibility of installation without buffer tank \*
- Certified power adjustability of 30–100 %
- 4 patents in one boiler (fuel detection, mixing of return water, three-way air supply, rayshaped nozzle)
- Insulated stocking chamber
- Lever for cleaning exchanger
- Possibility of gravity connection
- Compact dimensions

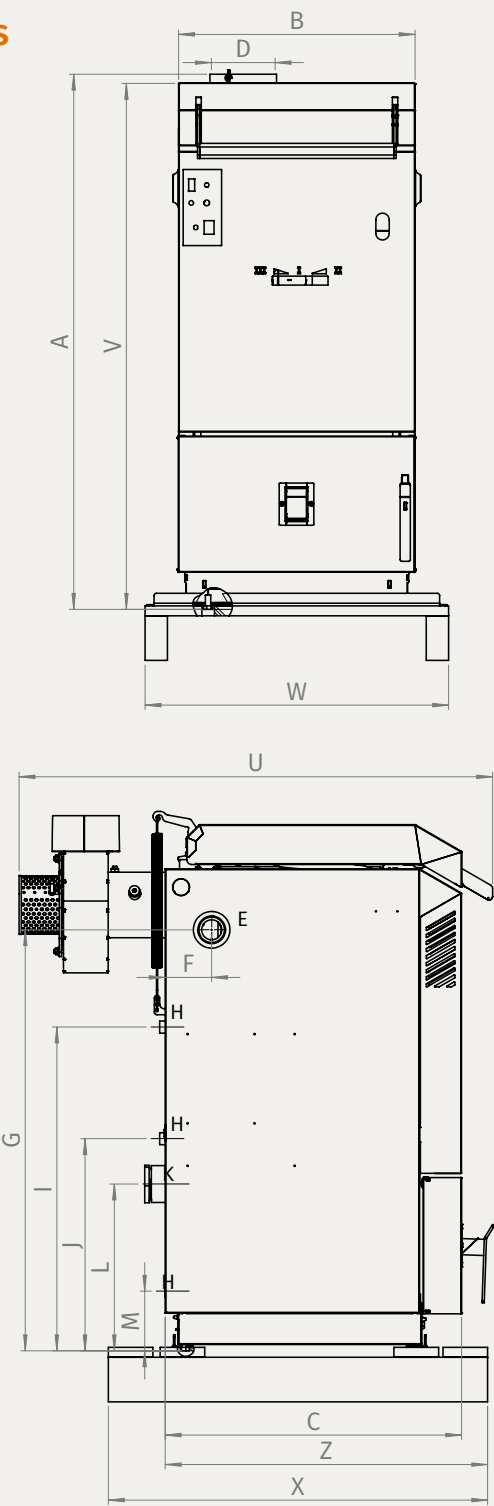
\* However, it is important to note that the installation of a boiler without a buffer tank is not suitable for every building. It depends on the heat loss of the heated house and other characteristics of the particular heating circuit. For more information on the possible installation of a boiler without a buffer tank, please refer to the boiler's operating and installation instructions or contact your installer.



## Technical parameters

	BNP 17	BNP 25	BNP 40
Nominal output (kW)	17	26	40
Adjustable output (kW)	5–17	8–26	12–40
Efficiency (%)	90	90	90
Emission class	5		
Ecodesign	YES		
Energy class	A+		
Log length (cm)	25	33	50
Stocking chamber volume (l)	40	80	120
Boiler weight (kg)	245	340	440
Maximum operating pressure (bar)	3		
Water volume (l)	32	40	55

## Dimensions



	BNP 17 (mm)	BNP 25 (mm)	BNP 40 (mm)
A	1200	1200	1200
B	450	530	714
C	584	664	664
D	Ø149	Ø149	Ø149
E	G 6/4"	G 6/4"	G 6/4"
F	104	104	104
G	939	939	939
H	G 1/2"	G 1/2"	G 1/2"
I	721	721	721
J	471	471	471
K	G 2 1/2" *	G 2 1/2" *	G 2 1/2" *
L	280	370	370
M	100	130	130
N	113	113	113
O	995	995	995
P	200	200	200
R	Ø141	Ø141	Ø141
S	18	18	18
U	960	1040	1040
V	1176	1176	1176
W	680	680	870
X	850	850	850
Y	225	265	324
Z	627	707	707

\* Cold water inlet to the boiler reduced to G 6/4"

# BLAZE PRAKTIK

Modern boiler with the possibility of installation without storage tank and a wide range of outputs



**7** years warranty on the boiler body



Automatic control unit ecoMAX



Online management via ecoNET

The BLAZE PRAKTIK boiler is characterised by quality combustion and comfortable operation in conjunction with a wide range of outputs from 5 to 40 kW thanks to certified adjustability 30–100 %. Certified controllability in this range

allows (even with the use of subsidy programmes) installation without a storage tank. Unlike the BNP boiler, the boiler is equipped with a sophisticated control unit and also a lambda probe for automatic control of air.

## Benefits of BLAZE PRAKTIK

- Possibility of installation without buffer tank\*
- Lambda probe for automatic control ventilation
- Certified power adjustability of 30–100 %
- 4 patents in one boiler (fuel detection, mixing of return water, three-way air supply, ray-shaped nozzle)
- Comfortable semi-automatic operation
- Control unit with touch screen
- Insulated stocking chamber
- Lever for cleaning
- Possibility of gravity connection
- Compact dimensions

\* However, it is important to note that the installation of a boiler without a buffer tank is not suitable for every building. It depends on the heat loss of the heated house and other characteristics of the particular heating circuit. For more information on the possible installation of a boiler without a buffer tank, please refer to the boiler's operating and installation instructions or contact your installer.

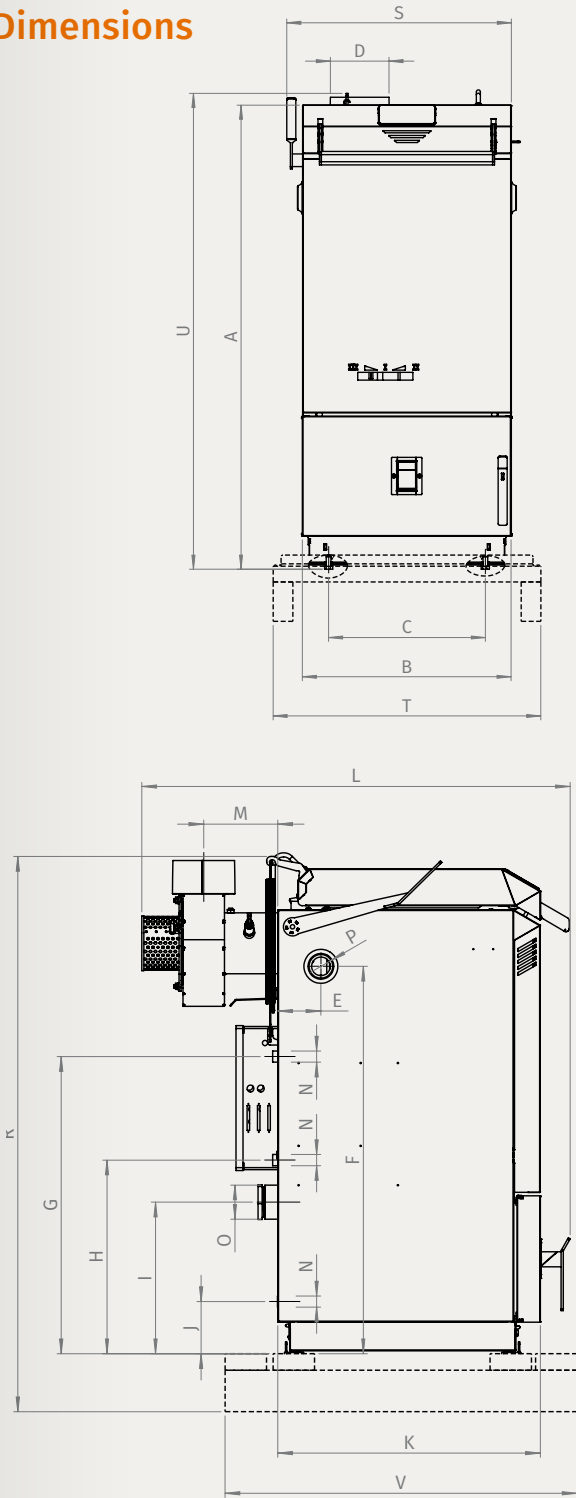
More info about the boiler



## Technical parameters

	BP 17	BP 25	BP 40
Nominal output (kW)	17	25	40
Adjustable output (kW)	5–17	7–25	12–40
Efficiency (%)	88	89	93
Emission class	5		
Ecodesign	YES		
Energy class	A+		
Log length (cm)	25	33	50
Stocking chamber volume (l)	40	80	120
Boiler weight (kg)	245	330	440
Maximum operating pressure (bar)	3		
Water volume (l)	32	40	55

## Dimensions



	BP 17 (mm)	BP 25 (mm)	BP 40 (mm)
A	1200	1200	1200
B	450	530	714
C	320	402	586
D	Ø149	Ø149	Ø149
E	105	105	105
F	945	945	945
G	750	750	750
H	475	475	475
I	280	375	375
J	100	135	135
K	565	635	635
L	955	1035	1035
M	180	180	180
N	G 1/2"	G 1/2"	G 1/2"
O	G 6/4"	G 6/4"	G 6/4"
P	G 6/4"	G 6/4"	G 6/4"
R	1317	1317	1317
S	496	576	760
T	684	684	868
U	1202	1202	1202
V	850	850	850

# BLAZE HARMONY

Wood boiler with large volume stainless steel stocking chamber



7 years warranty  
on the boiler body



Automatic  
control unit  
ecoMAX



Online  
management via  
ecoNET

The BLAZE HARMONY boiler differs from other models due to its slightly more solid and robust construction. The sloping door increases the volume of the feeding chamber, allowing for more wood to be added and thus extending the burning

time. In all models, the feeding chamber is insulated, which significantly extends its lifespan. In the BLAZE HARMONY model, the chamber is also made entirely of stainless steel, further increasing its longevity.

## Benefits of BLAZE HARMONY

- Spacious stocking chamber
- Stainless steel chamber
- Lambda probe for automatic air control
- 3 patents in one boiler (fuel detection, mixing of return water, three-way air supply)
- Comfortable semi-automatic operation
- Control unit with touch panel
- Insulated stocking chamber
- Lever for cleaning the exchanger
- Possibility of gravity connection

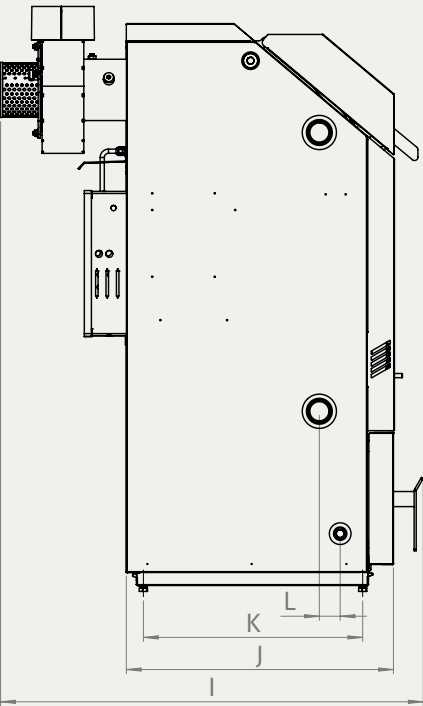
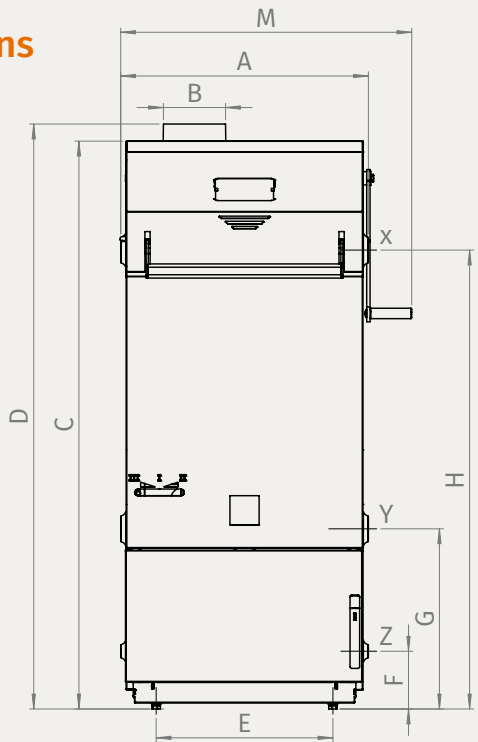
More  
info about  
the boiler



## Technical parameters

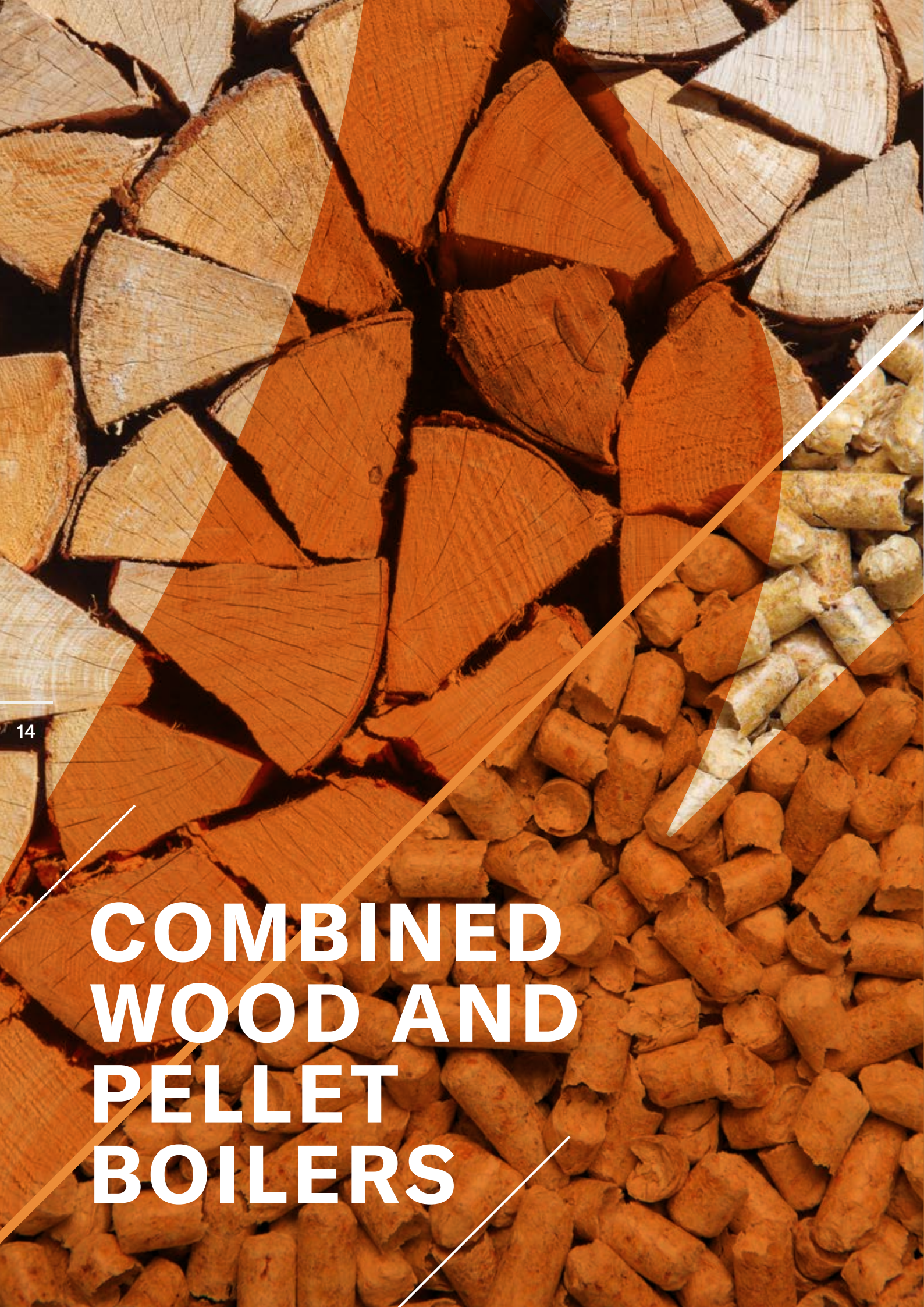
	BH 18	BH 25	BH 33
Nominal output (kW)	20	25	31
Efficiency (%)	90	90	90
Emission class	5		
Ecodesign	YES		
Energy class	A+		
Log length (cm)	33	50	50
Stocking chamber volume (l)	100	150	150
Boiler weight (kg)	400	550	550
Maximum operating pressure (bar)	3		
Water volume (l)	50	60	60

## Dimensions



	BH 18 (mm)	BH 25 (mm)	BH 33 (mm)
A	594	778	778
B	Ø149	Ø149	Ø149
C	1365	1365	1365
D	1404	1404	1404
E	424	608	608
F	138	138	138
G	432	432	432
H	1100	1100	1100
I	1014	1014	1014
J	640	640	640
K	526	526	526
L	50	50	50
M	698	882	882
X	G 6/4"	G 6/4"	G 6/4"
Y	G 6/4"	G 6/4"	G 6/4"
Z	G 1/2"	G 1/2"	G 1/2"





# WOOD BOILERS WITH AUTOMATIC TRANSITION FOR BURNING PELLETS



Combined boilers for wood and pellets have all the advantages of wood gasifying boilers and are extended by a rotary burner with automatic transition to pellet combustion. This solution ensures continuous operation of the boiler heating with the possibility of simple switching to manual refuelling when the pellet burner is automatically switched off.

In addition, the patented burner design with a self-cleaning combustion chamber also enables almost maintenance-free operation. This combination of the ability to burn different fuels in manual and automatic mode makes our combined boilers the most versatile boilers on the market.

➤ For more information about the burner, see page 23.

## From wood to combined wood and pellet combustion!

All our gasification boilers (except BNP) are designed for easy future conversion into automatic combination boilers. This innovative solution enhances user convenience by allowing the boiler to automatically switch to pellet combustion once the wood fuel is depleted, ensuring continuous operation without manual intervention.

BLAZE HARMONY boilers are equipped with a control unit which, after adding a burner control module, is also capable of controlling the combustion of pellets and controlling burner elements including the fuel feeder. There is therefore no need to change the entire control unit for this conversion.

TO CONVERT a wood boiler to a combined wood and pellet boiler, simply purchase the conversion set which includes:

1



Rotary burner

2



Lower boiler door with burner hole

3



Expansion module for burner operation control

# COMBINED WOOD AND PELLET BOILERS



# BLAZE GREEN COMBI

Combined boiler for wood and pellets



7 years warranty  
on the boiler body



Automatic  
control unit  
ecoMAX



Online  
management via  
ecoNET

The BLAZE GREEN boiler, enhanced with a rotary pellet burner, retains all its original advantages while also providing the capability to burn wood pellets. With an automatic switch to

pellet combustion, the boiler ensures seamless and uninterrupted operation.

## Benefits of BLAZE GREEN COMBI

- All the advantages of the BLAZE GREEN boiler
- Rotary burner, maintenance-free operation
- Automatic switch to pellet combustion
- Choice of pellet hopper type and and feeder length

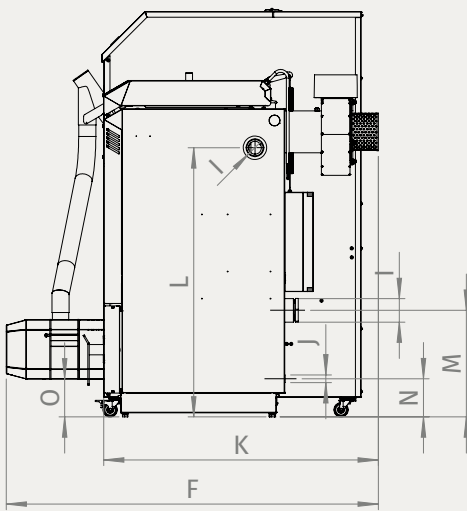
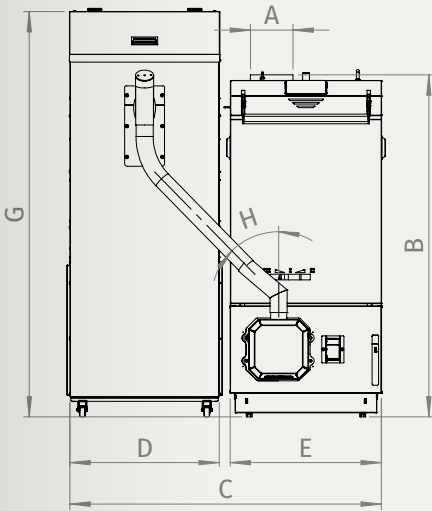
More  
info about  
the boiler



## Technical parameters

	BGC 18	BGC 26	BGC 33
Nominal output wood (kW)	18	26	33
Adjustable output wood (kW)	9–18	13–26	16–33
Adjustable output pellet (kW)	5–20	5–25	5–25
Wood/pellets efficiency (%)	92/94	92/94	93/94
Emission class	5		
Ecodesign	YES		
Energy class	A+		
Log length (cm)	33	50	50
Pellet diameter (mm)	6–8		
Stocking chamber volume (l)	80	120	120
Boiler weight (kg)	360	470	470
Maximum operating pressure (bar)	3		
Water compartment volume (l)	40	55	55
Hopper volume (l)	optional		

## Dimensions



	BGC 18 (mm)	BGC 26 (mm)	BGC 33 (mm)
A	Ø147	Ø147	Ø147
B	1193	1193	1193
C	1104	1288	1288
D	544	544	544
E	530	714	714
F	1294	1294	1294
G	1417	1417	1417
H	45°	45°	45°
I	G 6/4"	G 6/4"	G 6/4"
J	G 1/2"	G 1/2"	G 1/2"
K	956	956	956
L	937	937	937
M	367	367	367
N	127	127	127
O	127	127	127

## Emission parameters

Fuel: wood		BGC 18	BGC 26	BGC 33
CO (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	21	18	25
OgC/THC (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	<1	<1	4
NO <sub>x</sub> (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	114	108	126
Dust (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	12	14	12

Fuel: pellets		BGC 18	BGC 26	BGC 33
CO (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	46	46	46
OgC/THC (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	1	1	1
NO <sub>x</sub> (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	113	114	114
Dust (13 % O <sub>2</sub> )	[mg/m <sup>3</sup> ]	10	12	12



# BLAZE PRAKTIK COMBI

Combined boiler for wood and pellets



**7** years warranty  
on the boiler body



Automatic  
control unit  
ecoMAX



Online  
management via  
ecoNET

The boiler BLAZE PRAKTIK, which is supplemented with a rotary pellet burner. All the advantages of the BLAZE PRAKTIK boiler are retained and the combined boiler also offers the

possibility to burn wood pellets. The changeover to pellet combustion is automatic, thus ensuring continuous operation.

## Benefits of BLAZE PRAKTIK COMBI

- All advantages of the BLAZE PRAKTIK boiler
- Rotary burner, maintenance-free operation
- Automatic changeover to pellet combustion
- Choice of pellet hopper type and and feeder length

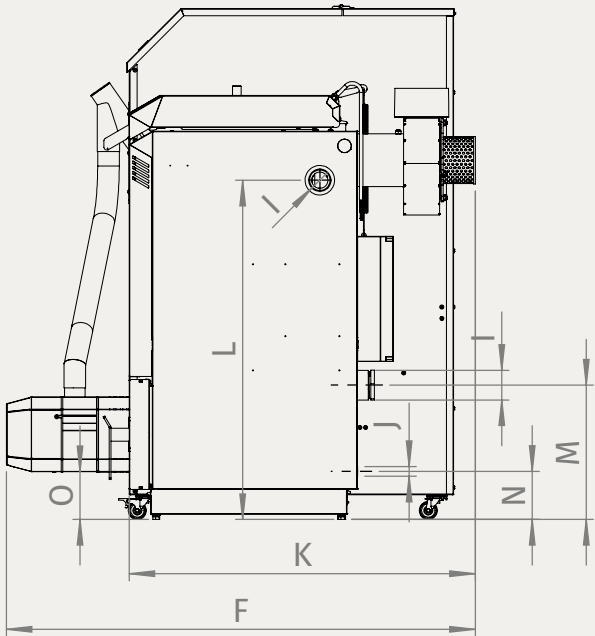
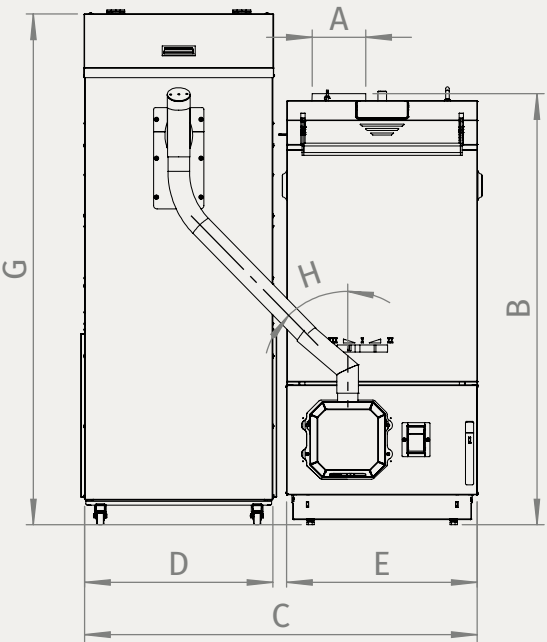
More  
info about  
the boiler



## Technical parameters

	BPC 25	BPC 40
Nominal output wood (kW)	25	40
Adjustable output wood (kW)	7–25	12–40
Adjustable output pellet (kW)	5–20	5–25
Wood/pellets efficiency (%)	93/94	94/94
Emission class	5	
Ecodesign	YES	
Energy class	A+	
Log length (cm)	33	50
Pellet diameter (mm)	6–8	
Stocking chamber volume (l)	80	120
Boiler weight (kg)	370	470
Maximum operating pressure (bar)	3	
Water compartment volume (l)	40	55
Hopper volume (l)	optional	

## Dimensions



	BPC 25 (mm)	BPC 40 (mm)
A	Ø147	Ø147
B	1193	1193
C	1104	1288
D	544	544
E	530	714
F	1294	1294
G	1417	1417
H	45°	45°
I	G 6/4"	G 6/4"
J	G 1/2"	G 1/2"
K	956	956
L	937	937
M	367	367
N	127	127
O	127	127

# HYBRID BIOMASS

Combined boiler for wood and pellets



**7** years warranty  
on the boiler body



Automatic  
control unit  
ecoMAX



Online  
management via  
ecoNET

It is a boiler BLAZE HARMONY, which is supplemented with a rotary pellet burner. All the advantages of the BLAZE HARMONY boiler are maintained, and the combined boiler offers

the possibility to burn also wood pellets. This combined boiler ensures seamless versatility, with an automatic switchover to pellet combustion for uninterrupted operation.

## Benefits of HYBRID BIOMASS

- All the advantages of the BLAZE HARMONY boiler
- Rotary burner, maintenance-free operation
- Automatic switch to pellet combustion
- Choice of pellet hopper size, type, and feeder length

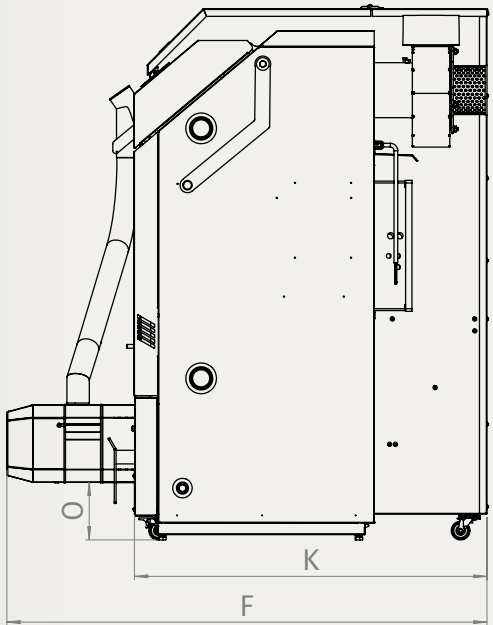
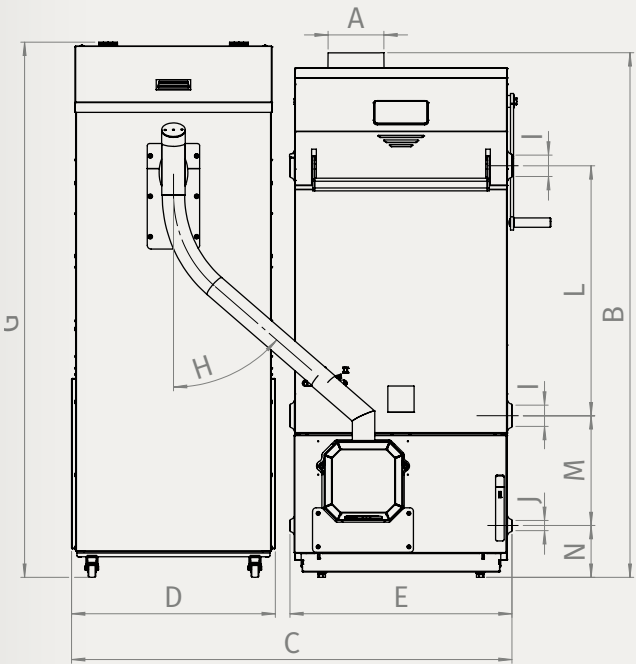
More  
info about  
the boiler



## Technical parameters

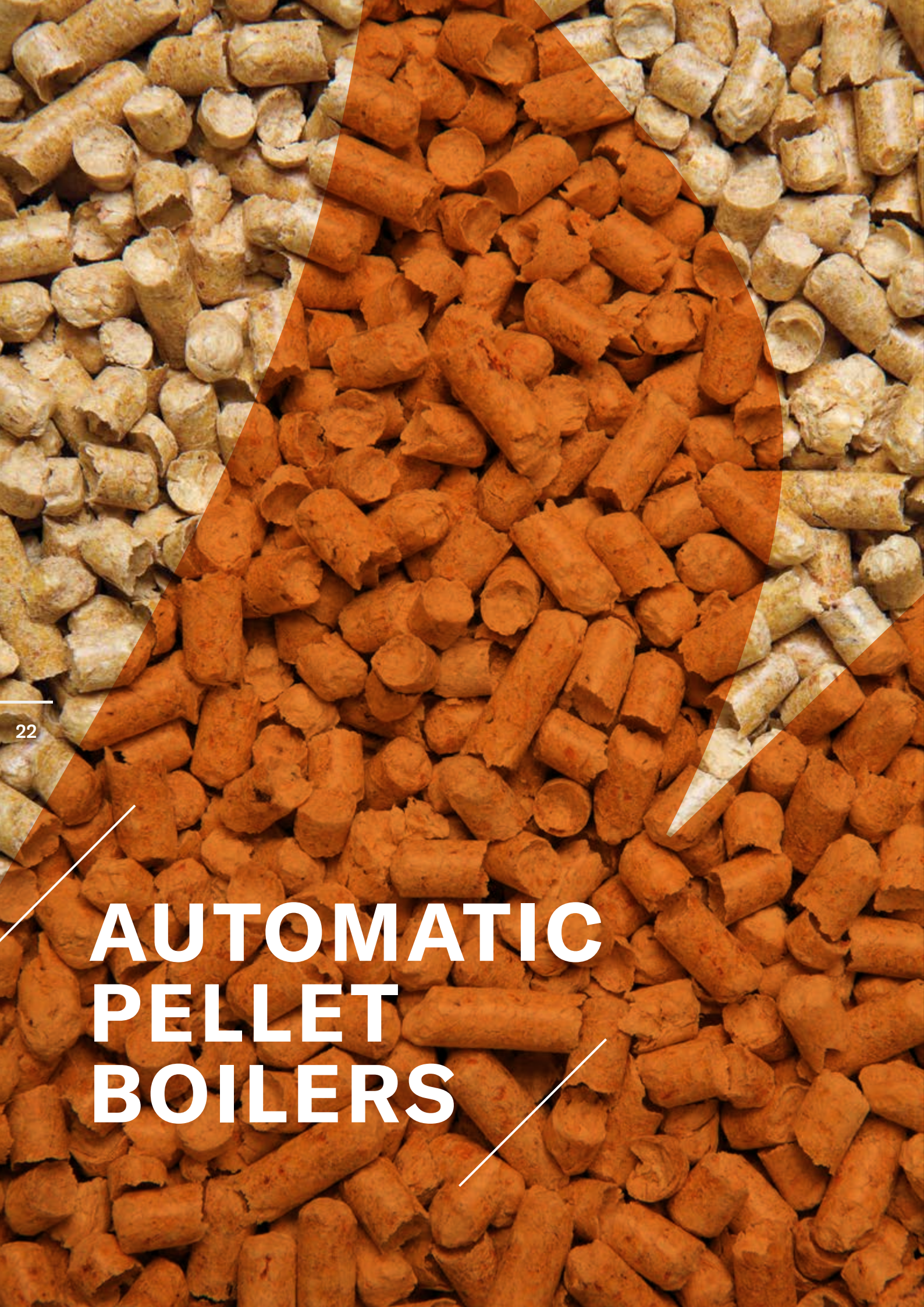
	HB 18	HB 25	HB 33
Nominal output wood (kW)	20	25	31
Adjustable pellet power (kW)	5-18	6-20	6-20
Efficiency wood/pellet (%)	90/92	90/92	90/92
Emission class	5		
Ecodesign	YES		
Energy class	A+		
Log length (cm)	33	50	50
Pellet diameter (mm)	6-8		
Stocking chamber volume (l)	100	150	150
Boiler weight (kg)	430	580	580
Maximum operating pressure (bar)	3		
Water volume (l)	50	60	60
Hopper volume (l)	optional		

## Dimensions



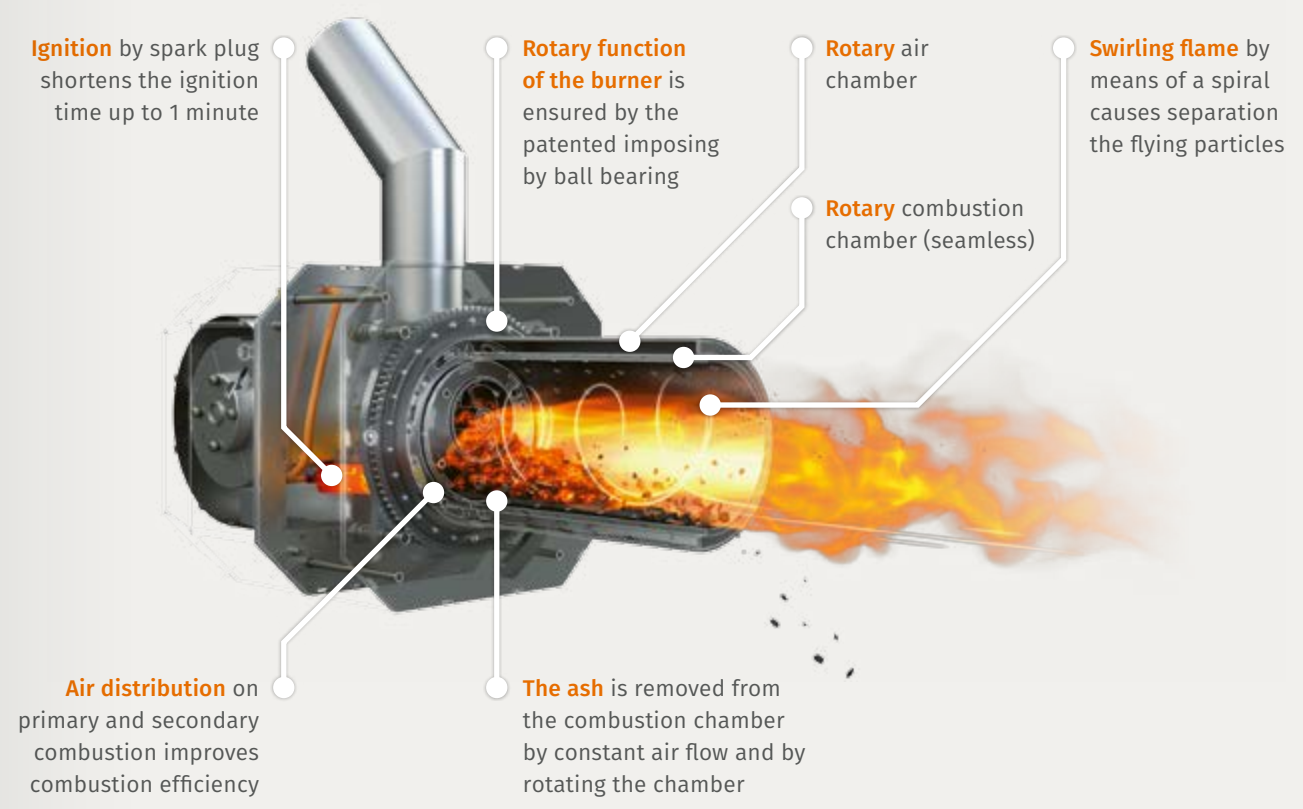
	HB 18 (mm)	HB 25 (mm)	HB 33 (mm)
A	Ø147	Ø147	Ø147
B	1404	1404	1404
C	1262	1462	1462
D	544	544	544
E	594	794	794
F	1232	1253	1253
G	1417	1417	1417
H	51°	51°	51°
I	G 6/4"	G 6/4"	G 6/4"
J	G 1/2"	G 1/2"	G 1/2"
K	903	903	903
L	670	670	670
M	295	295	295
N	138	138	138
O	155	155	155





# AUTOMATIC PELLET BOILERS

## WITH ROTARY BURNER FOR BURNING PELLETS



### Advantages of the burner with rotary combustion chamber

- 1 The ingeniously design of the burner enables almost maintenance-free and efficient combustion of pellets.
- 2 The rotary combustion chamber provides a maintenance-free solution for pellet combustion. A check before the heating season is sufficient.
- 3 Seamless combustion chamber. Refractory tube only, no welded parts.
- 4 Modular design, very simple and fast burner assembly and service. Quick access to all components.
- 5 **PATENTED** bearing seating system. This innovative system ensures exceptional durability by reducing the load on the bearings and eliminating wear on the metal components of the burner. This means a longer lifespan and minimal maintenance.
- 6 **PATENTED** air distribution system for primary and secondary combustion. This ensures higher combustion efficiency and the possibility of setting the optimal combustion for different types of pellets. From 25 kW.
- 7 Automatic cleaning of the aeration chamber is carried out by joint rotation of the combustion and aeration chambers. This method of automatic cleaning eliminates the need for manual cleaning. This eliminates regular burner disassembly and servicing. It ensures a clean chamber and a pressurised burner.
- 8 Combustion of lower quality pellets, where no problems arise, and the combustion process is optimised by splitting the air into primary and secondary combustion.
- 9 Safe operation of the burner is ensured by a temperature sensor in the burner body.
- 10 Fully automatic, unattended and maintenance-free operation.



# ROTARY PELL COMPACT

Automatic pellet boiler with automatic air supply control for maximum pellet combustion efficiency

**5 years warranty**  
on the boiler body



Automatic control unit  
**ecoMAX**



Online management via  
**ecoNET**



## Unique ROTARY PELL COMPACT solution

The boiler output is adjusted by changing the speed of the integrated exhaust fan. It is based on air flow measurement and 100 % tightness of the boiler body. There is a constant vacuum in the boiler combustion chamber, which ensures maximum safety of its operation without the risk of fuel burning into the tank. The air flow meter ensures, together with the exhaust fan, a constant flow of combustion air

according to the selected output. In practice, this means that even if the chimney or heat exchanger becomes clogged, combustion is still efficient and environmentally friendly as the exhaust fan increases its output. This makes installation and commissioning of the boiler easier. No manual adjustment of the fan is required. Similar function to a lambda probe but with lower purchase and running costs.

➔ All the advantages and benefits of the rotary burner are listed on page 23.

## Advantages of ROTARY PELL COMPACT

- High efficiency of up to 95 % ensures low fuel consumption
- Compact dimensions suitable for very small boiler rooms
- Control unit with touch control
- Combustion controlled by boiler exhaust fan and air flow meter
- Door opening sensor = safety
- Integrated fuel tank – suitable for small boiler rooms
- Integrated pump group (optional accessories)
- Automatic ash removal (optional accessory)

More info about the boiler

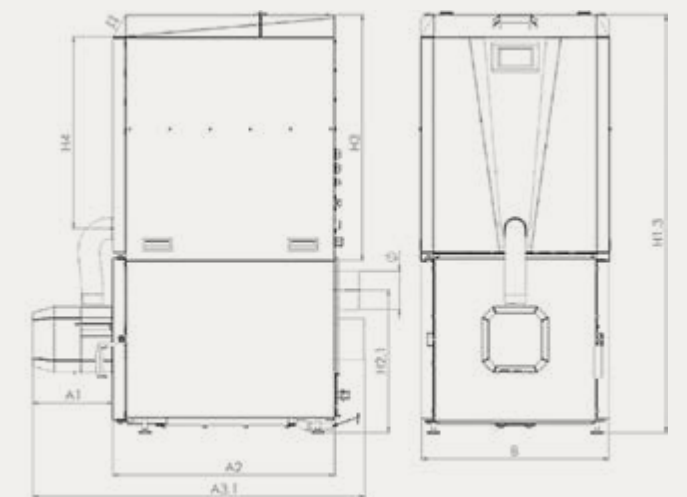


## Technical parameters

	RPC 15	RPC 20	RPC 25	RPC 30
Nominal output pellet (kW)	15	20	25	29
Adjustable output pellet (kW)	4–15	5–20	6–25	7–29
Efficiency (%)	95	95	95	95
Emission class	5			
Ecodesign	YES			
Energy class	A+			
Pellet diameter (mm)	6–8			
Boiler weight (kg)	220	280	280	340
Maximum operating pressure (bar)	3			
Water compartment volume (l)	43	55	55	67
Hopper volume (l)	150	200	200	230

## Dimensions

	RPC 15 (mm)	RPC 20 (mm)	RPC 25 (mm)	RPC 30 (mm)
A1	254	254	254	254
A2	705	780	780	855
A3.1	1055	1130	1130	1205
B	595	650	650	705
H1.1	637	692	692	747
H1.3	1324	1414	1414	1504
H2.1	452	504	504	532
H3	778	813	813	848
H4	606	641	641	676
Ø	125	125	125	125

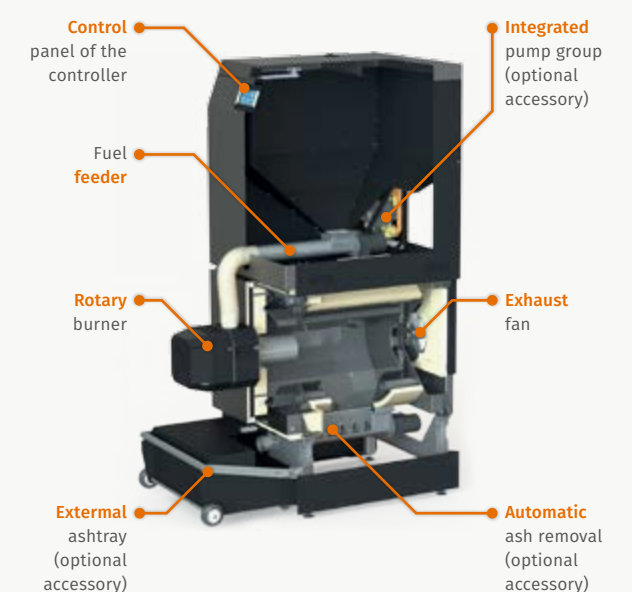
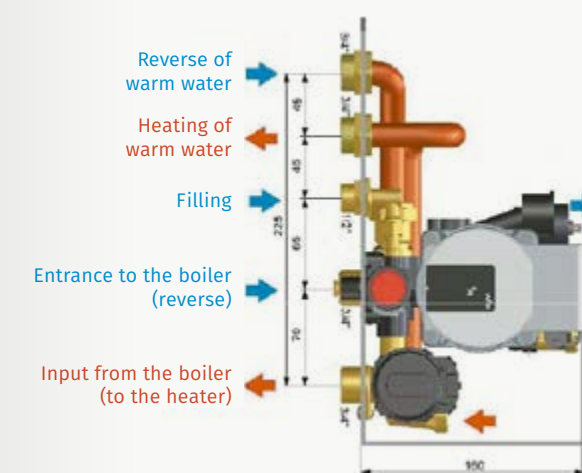


## Integrated pump group

the integrated pump group installed under the fuel tank serves for quick, convenient and easy connection of the boiler to the heating system. This solution also saves money on the installation of the boiler as well as the aesthetic design of the boiler room.

## The assembly includes functional and safety features such as:

- Boiler pump
- Valve for DHW heating
- Thermostatic mixing valve for backflow protection
- Safety valve
- Barometer
- Filling valve



## The door opening sensor

is another element ensuring the safety of the boiler operation. Whether it is when the front door is not fully closed after cleaning the boiler or when the operator opens the boiler door during operation. The door safety sensor immediately sends a signal to the control unit, which activates the alarm and initiates further actions to ensure safety. It deactivates the fuel feed, increases the power of the exhaust fan to 100 % of the power.





# Automatic control unit ecoMAX 860D3 TOUCH



The sophisticated control program of the controller allows you to directly set the desired boiler output in percentage. The range of possible output settings depends on the boiler type. Setting the output lower than 100 % will ensure a long burning time in the boiler, with comparable combustion quality as at 100 % output. The controller automatically adjusts the boiler output to avoid exceeding the maximum water temperature and reduces the risk of overheating.

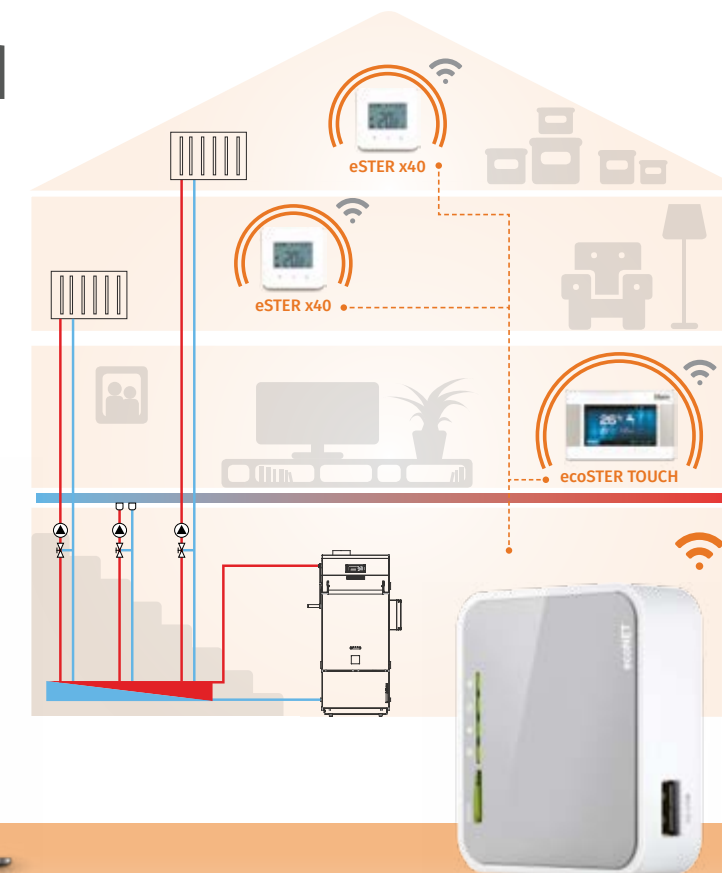
This solution allows the boiler to be operated at a lower output (important especially in the transition period) and allows the installation of a smaller volume of the accumulation tank, which leads to significant financial and space savings. The controller also evaluates the  $O_2$  values measured by the lambda probe (if installed) and controls the primary, secondary and pre-combustion air damper actuator to maintain the set residual  $O_2$  value and at the same time provide the best combustion with lower fuel consumption.

After connecting the extension module for pellet burner operation, this controller also controls the operation of the burner, the feeder and the pellet combustion process by continuously modulating the burner output over its entire range and thus maintaining the desired boiler temperature.

## Control unit functions

- Boiler power control
- Exhaust fan control
- Flue gas temperature control
- Boiler pump operation
- Heating control of the storage tank: upper and lower sensor with % heating indicator
- Feeding assistant according to the heating of the storage vessel
- Automatic switchover to the feeding mode
- Mixer pump control: 2
- Mixer control: 2
- DHW pump
- DHW circulation pump
- Remote control with room thermostat  
ecoSTER90 TOUCH  
ecoSTER 40  
eSTER X80 (wireless)  
eSTER X40 (wireless)
- Remote management via internet (ecoNET300)
- Equithermal control of heating circuits
- Summer/winter mode
- Time schedules
- STB emergency thermostat
- Additional heat source switching
- Pellet feeder control
- Modulation of pellet burner output

# Online boiler and heating system management



The ecoNET internet system allows the user to remotely manage and monitor the boiler and heating system. Thanks to this system, the user has the possibility to change the parameters of the boiler and heating system, but also to view the history of the boiler and heating system operation, which is displayed on a clear graph.

Remote access to the controller is possible from any device that is connected to the internet, whether it is a tablet, computer or mobile phone. Setup is done via a web browser at [www.econet24.com](http://www.econet24.com).

## Online service

The Internet system does not only serve the user. It can also be used by the service company, who can access information about the boiler and, if necessary, intervene in the heating system settings or boiler control and thus significantly reduce service costs.



## Other accessories

### ecoSTER90 TOUCH / eSTER X80 (black or white version)

The remote-control panel with room thermostat function ecoSTER TOUCH allows you to control and change the boiler settings from where the panel is installed, for example the living room. Also available in wireless version eSTER X80.

### ecoSTER40 / eSTER X40

Room thermostat with the possibility of setting basic parameters of the boiler and heating system. eSTER X40 is wireless.

### Expansion module for control of additional heating circuits

It allows control of two additional mixing valves and their pumps. It also provides a function for controlling the DHW circulation pump.

### Outdoor temperature sensor

For equithermal control of mixing circuits



# Product Comparison

## BLAZE HARMONY



	BLAZE GREEN				BLAZE NATURAL PLUS			BLAZE PRAKTIK		
	BG 10	BG 18	BG 26	BG 33	BNP 17	BNP 25	BNP 40	BP 17	BP 25	BP 40
FOR WOOD		●			●			●		
FOR PELLETS		–			–			–		
Control unit ecoMAX 860		●			–			●		
Power adjustment (%)		50–100			30–100			30–100		
Lambda sonda		●			–			●/–		
Can be installed without buffer tank		–			●			●		
Mechanical fuel detection		●			●			●		
Three-way air supply		●			●			●		
Integrated water mixing system		●			●			●		
Jet nozzle		●			●			●		
Turbulator lever		●			–			●		
Rotary pellet burner		–			–			–		
Nominal wood output (kW)	10	18	26	33	17	26	40	17	25	40
Adjustable wood output (kW)	5–10	9–18	13–26	16–33	5–17	8–26	12–40	5–17	7–25	12–40
Adjustable pellet output (kW)		–			–			–		
Wood efficiency (%)	93	92	92	93	90	90	90	88	89	93
Pellet efficiency (%)		–			–			–		
Emission class		5			5			5		
Ecodesign		●			●			●		
Energy class		A+			A+			A+		
Log length (cm)	25	33	50	50	25	33	50	25	33	50
Pellet diameter (mm)		–			–			–		
Stocking chamber volume (l)	40	80	120	120	40	80	120	40	80	120
Boiler weight (kg)	245	340	440	440	245	340	440	245	330	440
Maximum operating pressure (bar)		3			3			3		
Water compartment volume (l)	32	40	55	55	32	40	55	32	40	55
Hopper volume (l)		–			–			–		



BLAZE GREEN COMBI			BLAZE PRAKTIK COMBI		HYBRID BIOMASS		
BGC 18	BGC 26	BGC 33	BPC 25	BPC 40	HB 18	HB 25	HB 33
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
50–100	30–100	–	–	–	–	–	–
●	●	●	●	●	●	●	●
–	●	–	–	–	–	–	–
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
18	26	33	25	40	18	25	33
9–18	13–26	16–33	7–25	12–40	–	–	–
5–20	5–25	5–25	5–20	5–25	5–18	6–25	6–25
92	92	93	93	94	92	92	92
94	94	94	94	94	94	94	94
5	5	5	5	5	5	5	5
●	●	●	●	●	●	●	●
A+	A+	A+	A+	A+	A+	A+	A+
33	50	50	33	50	33	50	50
6–8	6–8	6–8	6–8	6–8	6–8	6–8	6–8
80	120	120	80	120	100	150	150
360	470	470	370	470	430	580	580
3	3	3	3	3	3	3	3
40	55	55	40	55	50	60	60
optional	optional	optional	optional	optional	optional	optional	optional



## WOOD STOVES

After the successful launch of a wide range of innovative wood and pellet boilers, we decided to expand our knowledge of wood heating beyond the boiler market. We are now entering a similar yet different area: the world of wood stoves. Through careful listening to today's users and years of research and development, we have refined the technology to offer you stoves that once again take the industry standards to a new level. Our two BLAZE stove models offer exceptional features for efficient, comfortable and clean burning wood in the interior of your homes, apartments and cottages.

### Why buy a wood stove from BLAZE HARMONY?

- **Combining combustion quality and visual elegance**

Our wood burning stove is a perfect example of how technological sophistication can go hand in hand with aesthetic beauty.

- **Resilience that defies time**

Thanks to the high-quality construction and materials (3 to 8 mm sheet metal, heat-resistant steel, highly heat-resistant refractory concrete fittings and a weight of up to 300 kg), you can rely on the long service life of the BLAZE stove.

- **An impressive view of the dancing flames**

The large glass door and optimised air distribution bring the visual pleasure of quality burning wood.

- **A perfect harmony of functionality and design**

The BLAZE stove is a true masterpiece, seamlessly blending aesthetics, the mesmerizing beauty of flames, and practical functionality. Designed for everyday use, it offers exceptional durability, comfort, and ease of maintenance, all while prioritizing cleanliness and environmental responsibility.

- **Colour variation, choice of size and accessories**

Choose from two stove sizes, a range of accessories, and six stunning colours to perfectly complement your interior design.

- **In-house development and production**

We proudly stand behind the fact that every element of our stoves is carefully developed and manufactured in the Czech Republic.

Scan the code for more information!



## BLAZE ELEMENT

The BLAZE ELEMENT wood stove showcases a minimalist, space-saving design with modern elegance. Their sleek lines and minimalist aesthetic not only enhance everyday comfort but also ensure a seamless and enjoyable user experience. Our wood stoves are the perfect choice for a variety of spaces, including homes, apartments, cottages, and restaurants.

- **Unique wood burning process** PATENTED
- **Mechanical grate for easy and dust-free ash removal into the ash pan** PATENTED
- **Capacious ashtray with lid**
- **Adjustable air supply**
- **Possibility of external air connection – flexible connection from behind or below**
- **Flexibility of flue connection – from above or behind**
- **Accessories adapted to your needs:**
  - **Accumulation superstructure** – for long-lasting heat even after the flames are extinguished
  - **Stylish wood log storage** – a practical and aesthetic addition to your stove
  - **Flexible installation options** – a wide range of accessories with the possibility to add on later according to your wishes and needs

Both types of stoves are available in the following colours:



ANTHRACITE



SILVER GREY



PEARL BEIGE



MAUVE



PEARL BROWN



RED BROWN



## BLAZE SPIRIT

The BLAZE SPIRIT wood stove represents the perfect balance between aesthetics and innovation. With a bold and distinctive design that adds character to any interior, they not only provide warmth and comfort of use, but also incorporate several patented solutions that facilitate everyday use and extend the burning time.

- **Enjoy greater fuel savings and uninterrupted performance!** PATENTED

The innovative mechanical stasis layer detection system automatically shuts off the air supply once the fuel has burned out, leaving only a layer of glowing embers. This smart feature prevents unnecessary heat loss, boosts fuel efficiency, and makes relighting effortless, as new fuel ignites easily.

- **Twice the burn time!** PATENTED

The vertical grate on the rear wall of the chamber ensures efficient fuel usage, allowing the fuel to burn evenly. This design not only extends burn time but also enables more fuel to be added, minimizing the need for frequent stove operation.

- **Simple and dust-free ash removing process** PATENTED

The mechanical grate ensures a simple, dust-free ash removing process without requiring the stove to be shut down.

- **Smoke screen**

Prevents the room from smoking during the feeding process and ensures clean and comfortable operation.

- **Heat exchanger (in preparation)**

BLAZE SPIRIT can be supplemented with a hot water heat exchanger, making them a versatile product that not only heats the room, but also heats water for central heating or hot water.

- **Accumulation superstructure (in preparation)**

For long-lasting heat even after the flames have gone out. Possibility of refilling later.

- **Spacious loading compartment and ashtray**

Designed for everyday convenience, these essential features ensure effortless operation and minimal maintenance.

- **Horizontal top plate**

An excellent opportunity for conveniently warming food.



# About us



BLAZE HARMONY s.r.o. is a purely Czech family company, which focuses on research and development in the field of biomass combustion (wood, pellets, wood chips, etc.). In a short period of time, it has managed to register seven European patents, which are applied to innovative products with an excellent price-performance ratio.



The professional background and experienced team of researchers allows for continuous development and expansion of the biomass boiler range and its continuous improvement.

## PRODUCTION HALL IN TRNÁVKA

In 2021, the construction of a new production facility was completed. On an area of 3,500 m<sup>2</sup>, production and distribution of products worldwide takes place. In 2024, a second production hall was added to the site to expand production capacity and warehouse space. Outside the Czech Republic, BLAZE HARMONY boilers are sold on markets in Germany, France, Poland, Italy, Austria, Chile, etc. Furthermore, the process of expanding exports to many other countries is underway.

The production process is automated using the latest production technologies, so-called Industry 4.0, with maximum use of robots in sheet metal processing, welding, etc. These production means ensure the high quality and reliability of BLAZE HARMONY products.

Take a look inside  
the production area  
and the company  
headquarters.







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751 31 Lipník nad Bečvou  
Czech Republic

✉ sales@blazeharmony.com

**[www.blazeharmony.com](http://www.blazeharmony.com)**

Partner:



Co-funded by  
the European Union