



Wood  
Gasification  
Boiler for Wood  
Logs

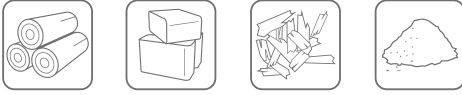
# BLAZE COMFORT



**7 YEAR  
WARRANTY**

- 🔥 3 patents
- 🔥 Competitive price
- 🔥 Certified output adjustability  
50%–100% enables installation of smaller buffer tank
- 🔥 Compact dimensions
- 🔥 Comfort semi-automatic operation
- 🔥 Possible combustion of briquettes, chips, saw dust, wet wood
- 🔥 Low fuel consumption
- 🔥 Enables gravity connection





# Gasification boiler

## BLAZE COMFORT

for lump wood, briquettes, wood chips and saw dust



### 1 Mechanical detection of residual fuel

PATENTED

This unique system provides automatic stable heat (embers), causing the fan to switch off when the level of the fuel decreases. This accurate detection maintains the hot embers layer in the combustion chamber for several hours, reducing the number of times a new fire is started in the boiler per season.

### 2 Protection against low-temperature corrosion

PATENTED

The built-in thermostat with a temperature setting at 60°C and a special structure for mixing inside the boiler protects the boiler. Option of gravity connection to the buffer tank without pumps. Considerable savings during installation and safe operation. 7-year warranty on the boiler body, with no additional conditions. (optional accessory)

### 3 Three-way air supply

PATENTED

Ensures uniform burning of fuel and allows to burn fuels of various dimensions (wood chips, sawdust, briquettes even lower quality). Pre-drying air, which is supplied (if necessary) into the upper part of the chamber will dry up any damp fuel in order to be able to burn it well and maintain high boiler efficiency and low emission values.

### 4 Corrosion protection with an insulated compact hot chamber system

Where the walls of the stoking chamber are not directly cooled by water – they are hotter, which prevents condensation. The service life of these boilers is many times longer than that of conventional gasification boilers. It also allows the combustion of moist fuel, without significantly reducing the boiler's service life. The increased temperature of the walls prevents the unpleasant deposition of tar in the stoking chamber. The compact gasification chamber is a separate element that is insulated from the walls of the water boiler. The chamber can be replaced.

### 5 Inclined bottom of the gasification chamber

Provides automatic ash removal from the combustion chamber during combustion, completely eliminating the need to clean it before firing it up again.

### 6 Top boiler output adjustability

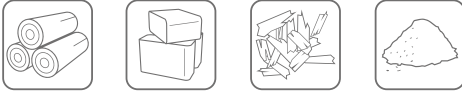
Allows you to set the required boiler output in percentages and regulate the boiler with continuous operation. Setting reduced power will ensure a long period of combustion in the boiler, at a quality comparable to the quality at 100 % power.

## Boiler with three-way combustion air supply

Boilers can easily control the distribution of the air entering the fuel (pre-drying air is supplied over the fuel). Therefore the boiler can be adapted to various fuels. This effectively burns fuel that can be easily burn (wood chips, small briquettes), but also fuels that burns hard (large logs, wet wood).

- primary air
- secondary air
- pre-drying air





# Gasification boiler BLAZE COMFORT COMBI

for lump wood, briquettes, wood chips  
and saw dust



## SEMI-AUTOMATIC operation of the pyrolytic boiler



1

**Stoking** - after stoking fuel to whole volume of the stoking chamber the combustion time is up to 8 hours depends on the fuel type and preset boiler output.

2

**After 8 hours** - when the fuel level decrease under the detection threshold, then the sensor sends signal and controller switch off the fan. This stops the burning process.

3

**Up to 24 hours** from the first fuel stoking, there are still hot coals (embers) in the chamber, so it is sufficient to add directly bigger logs, start the fan and combustion continues.

4

**After 24 hours** and more after first fuel stoking there will not be hot coals (embers). There will remain fuel residual in the form of charcoal. In such a case it is sufficient to start the fan and with small piece of paper fire up the layer of charcoal.

5

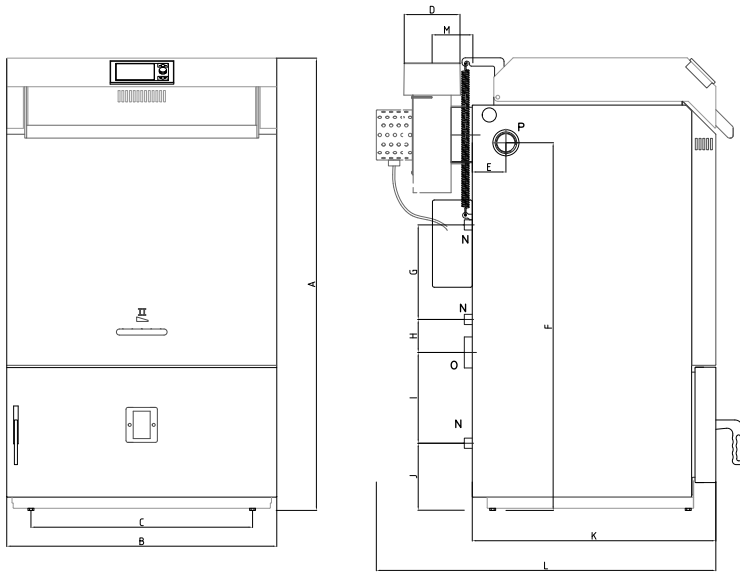
**After short time** the charcoal fires up very well. Then it is possible to add even larger pieces of wood. The residual fuel detection mechanism provides user's high operation comfort due to lack of new ignitions, when user must clean the boiler and cut small pieces of wood and wait until the boiler ignites successfully.

## Gasification boilers parameters comparison:

	BLAZE COMFORT	Usual boiler
Adjustable output	YES	NO
Gravity connection	YES	NO
Operation without electricity	YES	NO
Possibility of combustion of loose fuels	YES	NO
Possibility of combustion of wet fuels	YES	NO
Burning time (max. filled chamber)	3-8 h	2-5 h
Usable stocking chamber volume	ca 90 %	ca 70 % (front door)
Fuel consumption	0,25-0,35 kg/kWh	0,35-0,45 kg/kWh



# Technical parameters and dimensions




	BC15	BC20	BC25	BC30
	dimension (mm)	dimension (mm)	dimension (mm)	dimension (mm)
A	1200	1200	1200	1200
B	530	530	714	714
C	402	402	586	586
D	Ø147	Ø147	Ø147	Ø147
E	89	89	89	89
F	972	972	972	972
G	250	250	250	250
H	87	87	87	87
I	240	240	240	240
J	177	177	177	177
K	644	644	644	644
L	897	897	897	897
M	108	108	108	108
N	G1/2"	G1/2"	G1/2"	G1/2"
O	G2 1/2"	G2 1/2"	G2 1/2"	G2 1/2"
P	G6/4"	G6/4"	G6/4"	G6/4"





Blaze COMFORT	BC15	BC20	BC25	BC30
Adjustable output (kW)	7,5-15	10-20	12,5-25	15-30
Nominal output (kW)	15	20	25	30
Efficiency (%)	92	92	93	94
Emission class	5			
Ecodesign	yes			
Energy class	A+			
Logs length (mm)	350	350	500	500
Stoking chamber volume (l)	80	80	120	120
Weight (kg)	330	330	440	440
Maximal operation pressure (bar)	3			
Exchanger water volume (l)	40	40	55	55

Blaze COMFORT COMBI	BCC15	BCC20	BCC25	BCC30
Adjustable output wood (kW)	7,5-15	10-20	12,5-25	15-30
Nominal output wood (kW)	15	20	25	30
Adjustable output pellets (kW)	4-15	5-20	5-25	5-25
Nominal output pellets (kW)	15	20	20	20
Efficiency (%)	92/94	92/94	93/94	94/94
Emission class	5			
Ecodesign	yes			
Energy class	A+			
Logs length (mm)	350	350	500	500
Pellet diameter (mm)	6-8			
Stoking chamber volume (l)	80	80	120	120
Weight (kg)	360	360	470	470
Maximal operation pressure (bar)	3	3	3	3
Exchanger water volume (l)	40	40	55	55
Fuel silo volume (l)	optional			

Accessories and more information on [www.blazeharmony.com](http://www.blazeharmony.com)



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