

**ECO design**  
Rozp. UE 2015/1189

**5<sup>th</sup> class**  
PN EN 303 5 2012

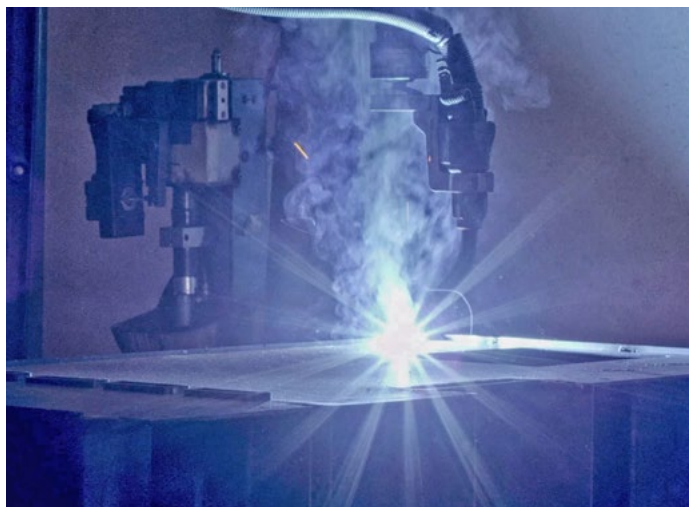


**Heiztechnik®**

**7 kW - 7000 kW**



**GreenLine**  
eco-boilers 5 class



Production Company **Heiztechnik** is a modern factory that produces boilers for burning solid fuels from **3,9 kW** do **7 MW** and complete container boiler rooms and other heating appliances. Production takes place in modern production facilities using high tech machinery; plasma and laser cutting machines for steel, numerically controlled press brakes and robotic welding stations. Manufactured products are characterized by very high energy efficiency, and simple, easy operation. The design office continuously modernizes and prepares for production new heating devices.



The success of the company is the creation of a series of **GreenLine** boilers. Boilers fulfill environmental protection and energy efficiency requirements for the highest, fifth class of PN-EN 303-5:2012. Many devices fulfill **ECO DESIGN** (EKO PROJECT) requirements according to the Regulation of the European Union 2015 / 1189. These features are achieved by the characteristic, for **Heiztechnik** boilers, construction of the heat exchanger and extended combustion chamber. Produced boilers up to 300 kW are suitable for installation in closed systems. Combustion process is steered by the very modern boiler regulators. This boiler regulators in addition to professional control of the combustion process are able to manage the whole heat distribution system. We offer you modern heating devices with capacities from 3,9 kW to 7 MW. Products of the **Heiztechnik** company are creating probably the widest offer of boilers in Poland and are appreciated on foreign markets.



Targi Instalacje 2016



ISO 3834:2006  
Management  
System

www.tuv.com  
ID 9105085778



Targi Expo-Kielce 2015



2010, 2011, 2012, 2013, 2014, 2015, 2016



2015, 2016, 2017



## PELLET BOILERS



HT DasPell Lux GL \_\_\_\_\_  
 HT DasPell GL \_\_\_\_\_  
 HT DasPell \_\_\_\_\_  
 Q Pellet DUO \_\_\_\_\_

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## AUTOMATIC COAL BOILERS



Q Eko GL \_\_\_\_\_  
 Q Eko \_\_\_\_\_  
 Q Eko DUO \_\_\_\_\_  
 HT Eko GL \_\_\_\_\_  
 HT Eko \_\_\_\_\_  
 HT Eko DUO \_\_\_\_\_

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## UNIVERSAL BOILERS



Q HIT \_\_\_\_\_  
 Q HIT PLUS \_\_\_\_\_  
 Q PLUS \_\_\_\_\_  
 HT BASIC / HT \_\_\_\_\_  
 HT PLUS \_\_\_\_\_

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18  
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## BOILERS FOR TRADITIONAL BURNING OF WOOD



HOLZ / HOLZ PLUS \_\_\_\_\_  
 Q PLUS DR \_\_\_\_\_

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## COMMERCIAL BOILERS



MAXPELL GL \_\_\_\_\_  
 MAXPELL \_\_\_\_\_  
 MAXPEL DUO \_\_\_\_\_  
 ASH REMOVAL SYSTEM \_\_\_\_\_  
 Q MAX EKO GL \_\_\_\_\_  
 Q MAX EKO \_\_\_\_\_  
 Q MAX EKO DUO \_\_\_\_\_  
 Q MAX PLUS \_\_\_\_\_  
 Q MAX PLUS DR \_\_\_\_\_  
 Q PLUS AGRO / Q PLUS AGRO B \_\_\_\_\_  
 HT DasPell ZB / MAXPELL ZB \_\_\_\_\_

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## BURNERS, FEEDERS AND TANKS



BURNERS - HT PELLHARD \_\_\_\_\_  
 FEEDERS \_\_\_\_\_  
 TANKS \_\_\_\_\_

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We present a wide range of ecological pellet boilers. Depending on needs, it is possible to select a boiler and fit it into a suitable tank. Boilers tank can be equipped with an additional unit supplying fuel from silo or warehouse.

### Possible configurations of the pellets boilers



Burner in front of the tank on the right



Burner in front, burner on the left



Burner on the right



Burner on the left



Boiler with the SLIM tank



Boiler with the BIG 400 tank



Boiler with the BIG 600 tank



Boiler with the BIG 1000 tank

**NEW!**  
**SLIM TANK**  
**200mm**



### Pellet boilers tanks

Tank name	Width	Depth	Height	Height with the open tank cover	Volume dm <sup>3</sup>
Standard burner in front of boiler 12 - 20 kW	600	600	1400	1840	300
Standard burner in front of boiler 25 - 40 kW	600	750	1400	1970	340
Standard burner in front of boiler 45 - 65 kW	1140	730	1400	1950	400
Standard burner on side of boiler 12 - 40 kW	600	600	1400	1840	185
Standard burner on side of boiler 45 - 65 kW	1140	730	1400	1950	400
Optional tanks					
SLIM 100	200	600	1400	1580	100
Lux 400	1140	730	1400	1950	400
Universal BIG 400	1140	730	1400	1950	400
Universal BIG 600	1140	730	1650	2200	600
BIG 1000	1200	1200	1500	2100	1000
MAX 1500 - 20000	as needed – on request				

HT DasPell LuxGL is the newest boiler of the series **GreenLine**. Device is characterized by the modern exterior and rich equipment is done through a color touch screen display.

Construction of the boiler is based on the **Heiztechnik** exchanger with the highly efficient heat transfer. Boiler body has got a dedicated heating column with smoke tubes set and an optimized combustion chamber. Effect of the used solutions is a very high heat efficiency of the boiler and a very low emission of the pollutions in exhaust fumes. Boiler is enclosed with covers providing esthetic appearance.

Boiler is equipped with a modern pellet burner with the internal auger feeder and the automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame. The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode. By adding additional modules (B, C) we have the option to control additional heating elements. The touch screen display of the remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automatic steers burner operation by modulating the power according to boiler temperature and heat demand. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation is equipped with the big colorful touch screen display and optionally with the internet module.

Boiler may be equipped with the automatic ash cleaning system and the additional fuel feeder, which feeds the fuel from silo or bunker.

Boilers fulfill the requirements about the environment protection of the **5<sup>th</sup> class** (the highest) fixed in the norm PN-EN 303-5:2012 and requirements of the **ECO DESIGN** according to the regulations of the UE 2015 / 1189. Boilers have the certificate of the program „Polskie Ciepło”.

HT DasPell LuxGL 20



**5<sup>th</sup> class**  
PN EN 303 5 2012

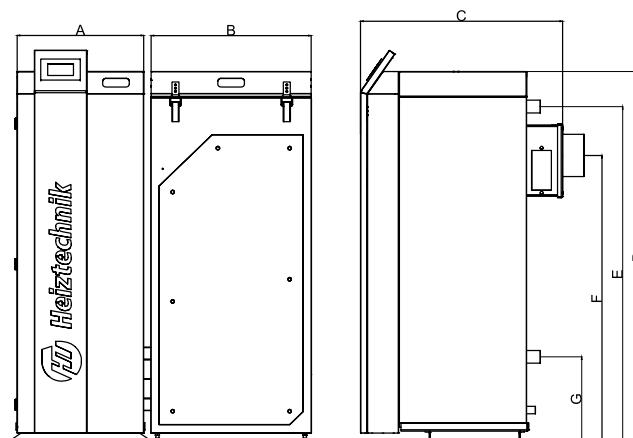
**ECO design**  
Rozp. UE 2015/1189

**A<sup>+</sup>**

Implementation standard: **burner on the right side of the boiler**

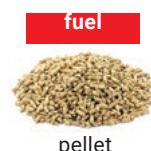
Implementation option: **burner on the right side of the boiler**

Tank option: **Boilers tank – page 4**



HT DasPell LuxGL 20

Burner	
Burner with automatic slag scraper	boiler basic equipment
Control	
HT-tronic® 850 Touch	
Expanding modules for automation	
Module B	
Module C	
ecoSter Touch	Remote control to control the room thermostat
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Lambda probe	
Additional equipment / Execution option	
Enlarged tank Lux 400	
Additional fuel feed unit from the silo to 6 mb	
The automatic ash removal system	
Cooling coil	



fuel

pellet

### HT DasPell LuxGL - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	A - boiler width	Tank volume	B - tank width	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	cm	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm
12	4 - 12	40 - 120	12	85	73	2	1 1/2	150	356	47	190	60	72	148	126	108	32
15	5 - 15	50 - 150	15	85	88	2	1 1/2	150	356	47	190	60	72	148	126	108	32
20	6 - 20	60 - 200	18	85	88	2	1 1/2	150	386	47	190	60	77	148	126	108	32

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

\* - depends on the heat demand of the building

# HT DasPell GL

Pellet boilers 5<sup>th</sup> class

12 - 60 kW

HT DasPell GL is the ecological heating boiler, which construction is based on the smoke tube exchanger **Heiztechnik** with the high efficiency of the heat exchange, it is made in the form of a dedicated heating column. Heating chamber was optimized to get the high quality of burning. Effect of the used solutions is a very high heat efficiency of the boiler and a very low emission of the pollutions in exhaust fumes.

Boiler is equipped with a modern pellet burner with the internal auger feeder. Boiler may be equipped with the automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame. The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode using mixing valve. By adding additional modules (B, C) we have the option to control additional heating elements. The remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automation control the burner operation by modulating the power according to the temperature of the boiler. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation may be equipped with the internet module. Boiler has the burner which is mounted on the front side of the boiler.

Boilers fulfill the requirements about the environment protection of the **5<sup>th</sup> class** (the highest) fixed in the norm PN-EN 303-5:2012 and requirements of the **ECO DESIGN** according to the regulations of the UE 2015 / 1189.

Boilers have the certificate of the program „Polskie Ciepło”.

HT DasPell GreenLine 30



**5<sup>th</sup> class**  
PN EN 303 5 2012

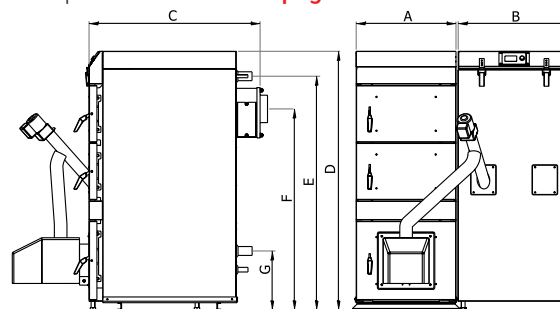
**ECO design**  
Rozp. UE 2015/1189

**A+**

Execution: **burner on the front of the boiler**

Burner option: **burner on the left or right side (12, 15, 20 kW)**

Tank option **Boilers tank – page 4**



HT DasPell GreenLine 30

Burner	
Standard Burner	boiler basic equipment
Burner with automatic slag scraper	
Control	
HT-tronic® 850 Touch	boiler basic equipment
HT-tronic® 850 Touch	
Expanding modules for automation	
Module B	
Module C	
ecoSter Touch	Remote control to control the room thermostat
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Lambda probe	
Additional equipment / Execution option	
Slim tank	
Enlarged universal tank BIG 400, BIG 600 or BIG 1000	
Burner on the left / right side for 12, 15, 20 kW boilers	
Additional fuel feed unit from the silo to 6 mb	
The automatic ash removal system	
Cooling coil	

(\*option)



pellet

## HT DasPell GreenLine - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	A - boiler width	Tank volume (burner at front)	B - tank width (burner at front)	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	cm	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm
12	4 - 12	40 - 120	15	85	73	2	1 1/2	150	352	47	300	60	64	140	126	108	32
15	5 - 15	50 - 150	15	85	73	2	1 1/2	150	355	47	300	60	69	140	126	108	32
20	5 - 20	50 - 200	18	85	88	2	1 1/2	150	375	47	300	60	69	140	126	108	32
25	8 - 25	80 - 250	18	85	94	2	1 1/2	150	420	47	300	60	76	140	126	108	32
30	9 - 30	90 - 300	20	85	103	2	1 1/2	150	470	54	340	60	83	140	126	108	32
37	11 - 37	110 - 370	22	85	118	2	1 1/2	150	500	54	340	60	93	140	126	108	32
50	15 - 50	150 - 500	23	85	145	2	1 1/2	200	530	69	400	114	95	140	126	108	32
60	18 - 60	180 - 600	25	85	155	2	2	200	530	69	400	114	105	140	126	108	32

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

\* - depends on the heat demand of the building

# HT DasPell

12 - 65 kW

Pellet boiler with an emergency cast iron grate.

**HT DasPell GL** is the ecological heating boiler, which construction is based on the smoke tube exchanger **Heiztechnik** with the high efficiency of the heat exchange. Directly above the burner there is a cast iron compartment to heat the flame in order to obtain highquality burning. The cast iron compartment in extreme cases can play the role of a grate for emergency burning of wood. Boiler is equipped with a modern pellet burner with the internal auger feeder. Boiler may be equipped with the automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame.

The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode using mixing valve. By adding additional modules (B, C) we have the option to control additional heating elements. The remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automation control the burner operation by modulating the power according to the temperature of the boiler. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation can be equipped with a large color display and an internet module.

The boiler can be equipped with a large fuel tank, extra fuel feeder - which feeds the fuel from the silo or bunker, and a automatic ash removal system.

HT DasPell 20

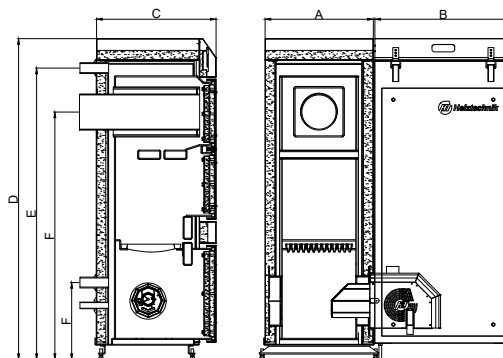


A+

Execution: **burner on the front of the boiler**

Burner option: **burner on the left or right side**

Tank option **Boilers tank – page 4**



HT DasPell 20

Burner	
Standard Burner	boiler basic equipment
Burner with automatic slag scraper	
Control	
HT-tronic® 850 Touch	boiler basic equipment
HT-tronic® 850 Touch	
Expanding modules for automation	
Module B	
Module C	
ecoSter Touch	Remote control to control the room thermostat
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Lambda probe	
Additional equipment / Execution option	
Slim tank	
Enlarged universal tank BIG 400, BIG 600 or BIG 1000	
Burner on the left / right side for 12, 15, 20 kW boilers	
Additional fuel feed unit from the silo to 6 mb	
The automatic ash removal system	
Cooling coil	

## Primary fuel



pellet

## Alternative fuel



Firewood



Briquette

## HT DasPell - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	A – boiler width	Tank volume (burner at front)	B - tank width (burner at front)	Tank volume (burner on the side)	B - tank width (burner on the side)	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height
kW	kW	m2	Pa	°C	L	Bar	"	mm	kg	cm	dm3	cm	dm3	cm	cm	cm	cm	cm	cm
12	4 - 12	40 - 120	15	85	73	2	1 1/2	150	322	48	300	60	185	60	53	140	126	108	32
15	5 - 15	50 - 150	15	85	73	2	1 1/2	150	338	48	300	60	185	60	53	140	126	108	32
20	6 - 20	60 - 200	18	85	88	2	1 1/2	150	354	48	300	60	185	60	58	140	126	108	32
25	8 - 25	80 - 250	18	85	88	2	1 1/2	150	354	48	300	60	185	60	58	140	126	108	32
30	9 - 30	90 - 300	20	85	103	2	1 1/2	150	461	54	340	60	185	60	75	140	126	108	32
40	12 - 40	120 - 400	22	85	118	2	1 1/2	150	500	54	340	60	185	60	80	140	126	108	32
55	17 - 55	170 - 550	23	85	145	2	1 1/2	200	530	69	400	114	300	60	94	140	126	108	32
65	20 - 65	200 - 650	25	85	155	2	1 1/2	200	550	69	400	114	300	60	104	140	126	108	32

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building



# Q PELLET DUO

**15 - 65 kW**

**Double furnace boilers with a chute burner for burning pellet with an emergency water grate.**

**Q PELLET DUO** is the ecological heating boiler, which construction is based on the smoke tube exchanger **Heiztechnik** with the high efficiency of the heat exchange. Above the burner there is a replacement water grate that acts as a heat exchanger and at the same time provides the possibility of burning wood in a traditional way. Above the combustion chamber there is a heating column of high heat exchange efficiency, typical for Heiztechnik products. Boiler is equipped with a modern pellet burner with the internal auger feeder. Boiler may be equipped with the automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame.

The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode using mixing valve. By adding additional modules (B, C) we have the option to control additional heating elements. The remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automation control the burner operation by modulating the power according to the temperature of the boiler. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation can be equipped with a large color display and an internet module.

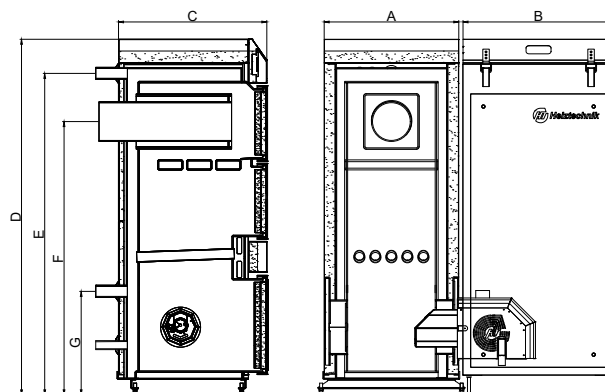
The boiler can be equipped with a large fuel tank, extra fuel feeder - which feeds the fuel from the silo or bunker, and a automatic ash removal system.


**A+**

Execution: **burner on the front of the boiler**

Burner option: **burner on the left or right side (12, 15, 20 kW)**

Tank option **Boilers tank – page 4**



**Q PELLET DUO 15**

Burner	
Standard Burner	boiler basic equipment
Burner with automatic slag scraper	
Control	
HT-tronic® 850 Touch	boiler basic equipment
HT-tronic® 850 Touch	
Expanding modules for automation	
Module B	
Module C	
ecoSter Touch	Remote control to control the room thermostat
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Lambda probe	
Additional equipment / Execution option	
Slim tank	
Enlarged universal tank BIG 400, BIG 600 or BIG 1000	
Burner on the left / right side for 12, 15, 20 kW boilers	
Additional fuel feed unit from the silo to 6 mb	
The automatic ash removal system	
Cooling coil	

## Primary fuel



pellet

## Alternative fuel



Firewood



Briquette

(\*option)

## Q PELLET DUO- Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	A – boiler width	Tank volume (burner at front)	B - tank width (burner at front)	Tank volume (burner on the side)	B - tank width.	C - body depth.	D - body height..	E - Power spigot height	F - Height to chimney mid	G - Return spigot height	H - Width of the furnace	I - Height of the furnace	J - Depth of the furnace
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	cm	dm <sup>3</sup>		dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	
15	5 - 15	50 - 150	15	85	73	2	1 1/2	150	375	54	300	60	185	60	59	141	126	106	39	35	30	37
25	8 - 25	80 - 250	18	85	88	2	1 1/2	150	415	54	300	60	185	60	69	141	126	106	39	35	30	47
35	11 - 35	110 - 350	20	85	103	2	1 1/2	150	510	54	300	60	185	60	74	141	126	106	39	35	30	52
45	14 - 45	140 - 450	23	85	118	2	1 1/2	150	540	54	300	60	185	60	84	141	126	106	39	35	30	62
55	17 - 55	170 - 550	23	85	145	2	1 1/2	200	620	70	400	60	400	114	91	157	144	125	32	50	35	54
65	20 - 65	200 - 650	25	85	155	2	1 1/2	200	726	70	400	60	400	114	96	157	144	125	32	50	35	59

The use of leveling feet increases the height of the boiler to 3 cm.

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In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

\* - depends on the heat demand of the building



# Q Eko GL

## Eco-pea coal class 5 feeder boilers

15 - 69 kW

The Q Eko GL is an environmentally-friendly heating boiler with structure based on the **Heiztechnik** fire tube heat exchanger with high heat exchange efficiency, built in form of a separate heating column. Combustion chamber optimisation enabled reduction of contaminants emission and reaching high thermal efficiency of the boiler. The boiler is equipped with a cast-iron retort burner with an integrated screw conveyor.

The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats.

The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

These boilers meet **class 5** environmental protection requirements according to PN-EN 303-5:2012.

15, 20 and 24 kW boilers meet the **ECO DESIGN** requirements according to the Commission Regulation (EU) 2015/1189.

These boilers have the „Polskie Ciepło” certification.

Q Eko GreenLine 30

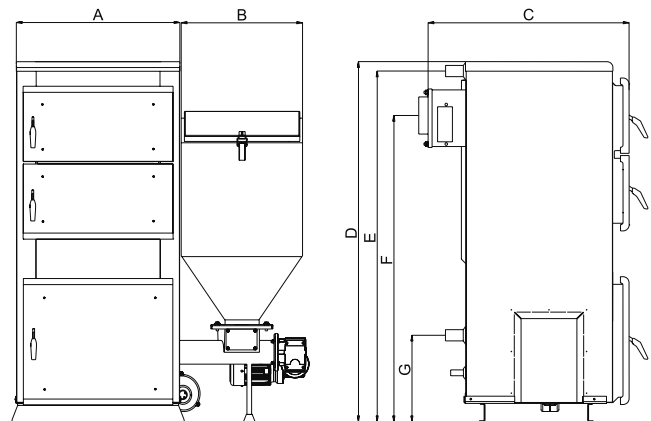


**5<sup>th</sup> class**  
PN EN 303 5 2012

**ECO design**  
Rozp. UE 2015/1189



Execution: **feeder on the right side of the boiler**  
Feeder option: **on the left or right side of the boiler**



Q Eko GreenLine 30

Burner	
Retort burner DUO	- boiler basic equipment
Control	
HT-Tronic® 700	

## Boilers with an automatic fuel feeder for burning eco-pea coal, fine coal

The Q Eko GL is an heating boiler with structure based on the **Heiztechnik** fire tube heat exchanger with high heat exchange efficiency. The boiler is equipped with a cast-iron retort burner with an integrated screw conveyor.

Depending on the burner used, it can burn eco-pea coal in the standard burner, or in addition, lower quality coals and fine coal in the „DUO” burner with the rotation function\*. Equipping the boiler with the „TRIO” burner allows to burn pellets apart from coal. The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats.

The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

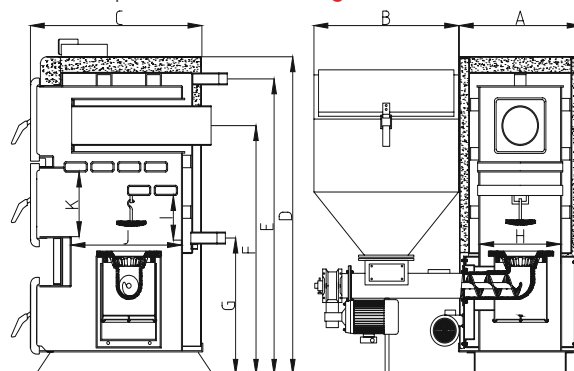
The boiler can be equipped with an OPS module  
- LAMBDA PLUS combustion optimizer.

(\*option)



C

Execution: **feeder on the right side of the boiler**  
Feeder option: **on the left or right side of the boiler**



Q EKO 25

### Primary fuel



Eco-pea coal Fine coal (option)

### Primary fuel for the BIO Burner



pellet cereals

### Alternative fuel on the cast iron grate



coal firewood briquette

Burner	
Retort burner DUO	- boiler basic equipment
Control	
HT-Tronic® 700	- boiler basic equipment
Expanding modules for automation	
Valve module MZ-2	
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Module OPS	Combustion process optimizer LAMBDA PLUS
Additional equipment / Execution option	
Enlarged tank	
Tray feeder sensor	
The automatic ash removal system	
Cooling coil	

## Q EKO - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Tank volume	A - boiler width	B - tank width	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height	H - Width of the furnace	I - Height of the furnace	J - depth of the furnace	K - Height of the loading opening	Set width with Bio burner	Enlarged tank volume	B' - Tank width.
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	dm <sup>3</sup>	cm
15	5 - 15	50 - 150	15	85	61	2	1 1/2	150	382	225	54	59	60	134	130	111	54	35	27	38	27	120	500	830
20	6 - 20	60 - 200	18	85	68	2	1 1/2	150	409	225	54	59	70	134	130	111	54	35	27	48	27	120	500	830
25	8 - 25	80 - 250	20	85	68	2	1 1/2	150	398	225	54	58	70	134	130	111	54	35	27	48	27	120	500	830
35	11 - 35	110 - 350	22	85	100	2	1 1/2	150	512	300	70	52	82	134	130	111	54	50	27	48	27	140	500	830
45	14 - 45	140 - 450	23	85	110	2	1 1/2	150	537	300	70	52	90	134	130	111	54	50	27	53	27	140	500	830
55	17 - 55	170 - 550	23	85	120	2	2	200	683	775	70	87	92	156	148	129	60	50	27	52	25	166	-	-
65	20 - 65	200 - 650	24	85	130	2	2	200	671	775	70	87	97	156	148	129	60	50	18	57	25	166	-	-
75	23 - 75	230 - 750	25	85	140	2	2	200	734	775	70	87	102	156	148	129	60	50	18	62	25	166	-	-

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

# Q Eko DUO

17 - 75 kW

**Double furnace boilers with an automatic fuel feeder for burning eco-pea coal, fine coal\* or biomass\* with an emergency water grate.**

The **Q EKO DUO** is a modern boiler with a design based on the **Q EKO** boiler. Heightening of the boiler made it possible to install a horizontal pipe heat exchanger, commonly referred to as a water grate. The advantage of this solution is the ability to burn traditional fuel in the case of a shutdown of the automatic feeder, or in case of a failure. The boiler's automatic control allows to turn off the feeder and burn fuels on the grate, using the blowing feature, with all the components of the heating system regulation operational. The use of a water grate in the boiler equipped with a feeder resulted in a very wide range of fuels that can be burned. The boiler can be fitted with a „DUO” burner with a rotation function which allows burning of fine coal and lower quality pea-coal. Equipping the boiler with the „TRIO” burner allows to burn pellets apart from coal.

The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats. The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

**The boiler can be equipped with an OPS module**

- **LAMBDA PLUS** combustion optimizer.

(\*opcja)

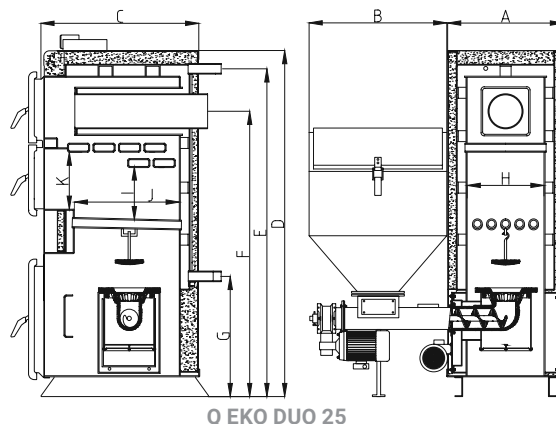
Q EKO DUO 17



C

Execution: **feeder on the right side of the boiler**

Feeder option: **on the left or right side of the boiler**



Q EKO DUO 25

## Primary fuel



Eco-pea coal Fine coal (option)

## Primary fuel for the BIO Burner



pellet cereals

## Alternative fuel on the cast iron grate



coal firewood briquette

Burner	
Retort burner DUO	- boiler basic equipment
Control	
HT-Tronic® 700	- boiler basic equipment
Expanding modules for automation	
Valve module MZ-2	
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Module OPS	Combustion process optimizer LAMBDA PLUS
Additional equipment / Execution option	
Enlarged tank	
Tray feeder sensor	
The automatic ash removal system	
Cooling coil	

## Q EKO DUO - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Tank volume	A - boiler width	B - tank width	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height	H - Width of the furnace	I - Height of the furnace	J - depth of the furnace	K - Height of the loading opening	Set width with Bio burner	Enlarged tank volume	B' - Tank width.
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	dm <sup>3</sup>	cm
17	5 - 17	50 - 170	15	85	73	2	1 1/2	150	415	225	54	59	60	154	150	131	54	35	24	37	27	118	500	830
25	8 - 25	80 - 250	20	85	86	2	1 1/2	150	449	225	54	59	70	154	150	131	54	35	24	47	27	118	500	830
35	11 - 35	110 - 350	22	85	120	2	1 1/2	150	575	300	70	52	85	154	150	131	54	50	24	47	27	138	500	830
48	14 - 48	140 - 480	23	85	130	2	1 1/2	150	660	300	70	52	90	154	150	131	54	50	24	52	27	138	500	830
55	17 - 55	170 - 550	23	85	145	2	2	200	749	775	70	87	92	179	172	152	60	50	35	52	25	164	-	-
65	20 - 65	200 - 650	24	85	155	2	2	200	781	775	70	87	97	179	172	152	60	50	35	57	25	176	-	-
75	23 - 75	230 - 750	25	85	165	2	2	200	765	775	70	87	102	179	172	152	60	50	35	62	25	181	-	-

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

\* - depends on the heat demand of the building

Q EKO DUO



## 15 - 50 kW

### Eco-pea coal class 5 feeder boilers

The **HT Eko GL** is an environmentally-friendly heating boiler with structure based on the **Heiztechnik** fire tube heat exchanger with high heat exchange efficiency, built in form of a separate heating column. Combustion chamber optimisation enabled reduction of contaminants emission and reaching high thermal efficiency of the boiler. The boiler is equipped with a cast-iron retort burner with an integrated screw conveyor.

The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats.

The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

The control systems allow to secure the return temperature by controlling the boiler pump operation.

These boilers meet **class 5** environmental protection requirements according to PN-EN 303-5:2012.

15, 20 and 24 kW boilers meet the **ECO DESIGN** requirements according to the Commission Regulation (EU) 2015/1189.

These boilers have the „Polskie Ciepło” certification.



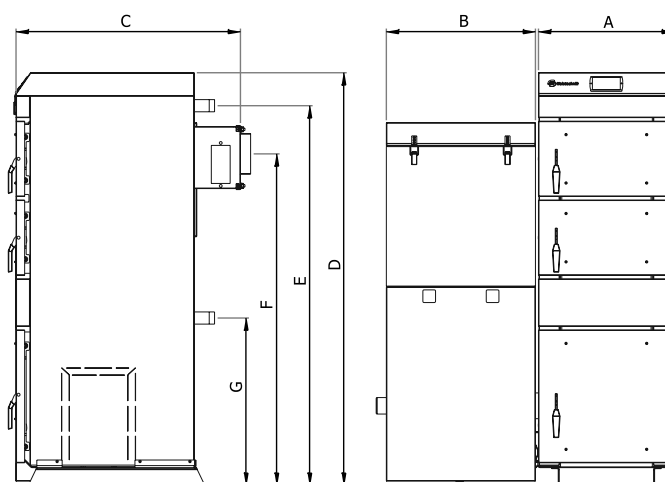
HT Eko GreenLine 30

**5<sup>th</sup> class**  
PN EN 303 5 2012




















**ECO design**  
Rozp. UE 2015/1189

Execution: **feeder on the right side of the boiler**

Feeder option: **on the left or right side of the boiler**



HT Eko GreenLine 30

<b>Burner</b>	
Retort burner DUO	- boiler basic equipment
<b>Control</b>	
HT-Tronic® 700	           - boiler basic equipment
<b>Expanding modules for automation</b>	
Valve module MZ-2	      
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Module OPS	Combustion process optimizer LAMBDA PLUS
<b>Additional equipment / Execution option</b>	
Tray feeder sensor	
The automatic ash removal system	
Cooling coil	

## HT Eko GreenLine - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Tank volume	A – boiler width	B - tank width	C - body depth	D - body height.	E - Power spigot height	F - Height to chimney mid	G - Return spigot height
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm
15	5 - 15	50 - 150	15	85	90	2	1 1/2	150	450	250	54	59	76	163	150	131	37
20	6 - 20	60 - 200	20	85	104	2	1 1/2	150	548	250	54	59	86	163	150	131	37
24	8 - 24	80 - 240	20	85	104	2	1 1/2	150	554	255	54	59	96	163	150	131	37
30	9 - 30	90 - 300	22	85	140	2	1 1/2	150	610	300	70	53	86	163	150	131	37
40	12 - 40	120 - 400	23	85	150	2	1 1/2	150	630	300	70	53	90	163	150	131	37
50	15 - 50	150 - 500	23	85	160	2	1 1/2	150	700	300	70	53	92	182	150	131	37

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

## 15 - 50 kW

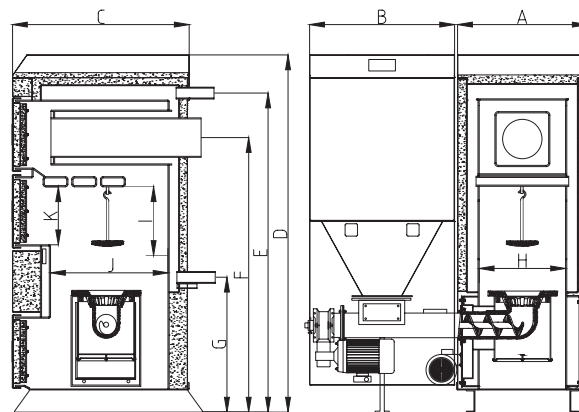
**Double furnace boilers with an automatic fuel feeder for burning eco-pea coal, fine coal\* or biomass\*.**

The **HT EKO/HT BIO** is the newest version of the **Q EKO/Q BIO** bioler in terms of design of the heat exchanger and the feeding system. The boiler is characterized by a modern look. The differences consist in equipping the boiler with automatic control. The automatic control was incorporated into the boiler's design. The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats. The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

The boiler can be equipped with an OPS module - LAMBDA PLUS combustion optimizer.



Execution: **feeder on the right side of the boiler**  
Feeder option: **on the left or right side of the boiler**



HT FKO 15

### Primary fuel



eco-pea coal



fine coal (option)



pellet



cereals

### Primary fuel for the BIO Burner



CO2






















firewood



briquette

### Alternative fuel on the cast iron grate

<b>Burner</b>	
Retort burner DUO	- boiler basic equipment
<b>Control</b>	
HT-Tronic® 700	           - boiler basic equipment
<b>Expanding modules for automation</b>	
Valve module MZ-2	      
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Module OPS	Combustion process optimizer LAMBDA PLUS
<b>Additional equipment / Execution option</b>	
Tray feeder sensor	
The automatic ash removal system	
Cooling coil	

## HT EKO - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Tank volume	A – boiler width	B - tank width	C - body depth	D - body height.	E -Power spigot height	F - Hight to chimney mid	G- Return spigot height	H -Width of the furnace	I- Height of the furnace	J - depth of the furnace	K - Height of the loading opening
kW	kW	m2	Pa	oC	L	Bar	"	mm	kg	dm3	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
10	3 - 10	30 - 100	15	85	30	2	1 1/2	105/150	231	130	39	52	53	111	99	77	51	-	-	-	-
15	5 - 15	50 - 150	15	85	61	2	1 1/2	150	395	250	54	59	60	143	130	111	54	35	27	38	27
20	6 - 20	60 - 200	18	85	68	2	1 1/2	150	405	250	54	59	70	143	130	111	54	35	27	48	27
25	8 - 25	80 - 250	20	85	68	2	1 1/2	150	430	250	54	59	70	143	130	111	54	35	27	48	27
35	11 - 35	110 - 350	22	85	100	2	1 1/2	150	529	300	70	53	86	143	130	111	54	35	27	48	27
45	14 - 45	140 - 450	23	85	100	2	1 1/2	150	547	300	70	53	91	143	130	111	54	35	27	53	27

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

# HT EKO DUO

17 - 48 kW

Double furnace boilers with an automatic fuel feeder for burning eco-pea coal, fine coal\* or biomass\* with an emergency water grate.

The HT EKO DUO/HT BIO DUO is the latest version of the Q EKO DUO/Q BIO DUO boiler, equipped with modern automatic control, having an unchanged structure of the heat exchanger and the feeding system. The automatic control was incorporated into the boiler's design.

The boiler is operated with the **HT-tronic® 700** weather control system, capable of controlling a mixing valve, central heating and domestic hot water pump. It allows connecting additional mixing valve modules and the Internet control module. The control systems may work in the HT Logic system that sets working parameters automatically and adjusts the boiler efficiency depending on the fuel quality and boiler temperature. The control systems allow to secure the return temperature by controlling the boiler pump operation and give the possibility to connect room thermostats. The boiler may be supplied with an automatic ash removal system, built-in cooling coil, or may be equipped with a conveyor rotation control sensor.

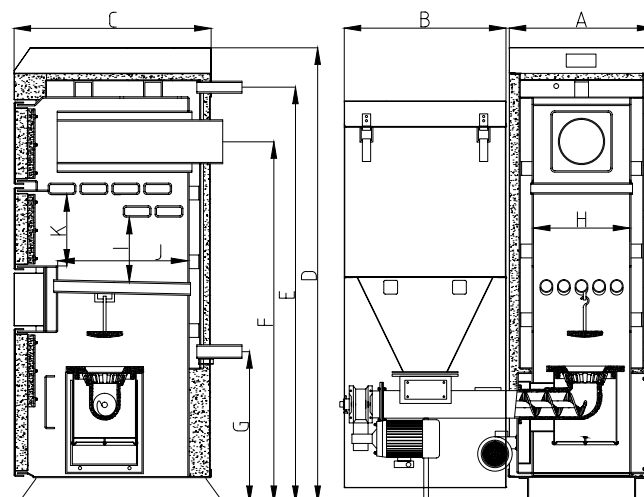
The boiler can be equipped with an OPS module - LAMBDA PLUS combustion optimizer.

HT EKO DUO 17



C

Execution: **feeder on the right side of the boiler**  
Feeder option: **on the left or right side of the boiler**



HT EKO DUO 25

## Primary fuel



eco-pea coal fine coal (option)

## Primary fuel for the BIO Burner



pellet cereals

## Alternative fuel on the cast iron grate



coal firewood briquette

Burner	
Retort burner DUO	- boiler basic equipment
Control	
HT-Tronic® 700	- boiler basic equipment
Expanding modules for automation	
Valve module MZ-2	
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Module OPS	Combustion process optimizer LAMBDA PLUS
Additional equipment / Execution option	
Tray feeder sensor	
The automatic ash removal system	
Cooling coil	

## HT EKO DUO - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Tank volume	A - boiler width	B - tank width	C - body depth	D - body height	E - Power spigot height	F - Height to chimney mid	G - Return spigot height	H - Width of the furnace	I - Height of the furnace	J - depth of the furnace	K - Height of the loading opening
kW	kW	m2	Pa	°C	L	Bar	"	mm	kg	dm3	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
17	5 - 17	50 - 170	15	85	73	2	1 1/2	150	437	250	54	59	60	163	150	131	54	35	24	37	27
25	8 - 25	80 - 250	20	85	86	2	1 1/2	150	473	250	54	59	70	163	150	131	54	35	24	47	27
35	12 - 35	120 - 350	22	85	120	2	1 1/2	150	595	300	70	53	85	163	150	131	54	50	24	47	27
48	15 - 48	150 - 480	23	85	130	2	1 1/2	150	610	300	70	53	90	163	150	131	54	50	24	52	27

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building



# Q HIT

7 - 35 kW

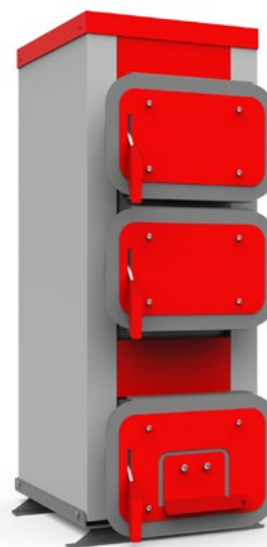
Boilers for conventional combustion of coal and wood.

The **Q HIT** is a modern central heating boiler intended for traditional upper combustion of coal and wood with the use of chimney draft. Its purpose is the production of heat for heating buildings ranging in size from 3 to 35 kW.

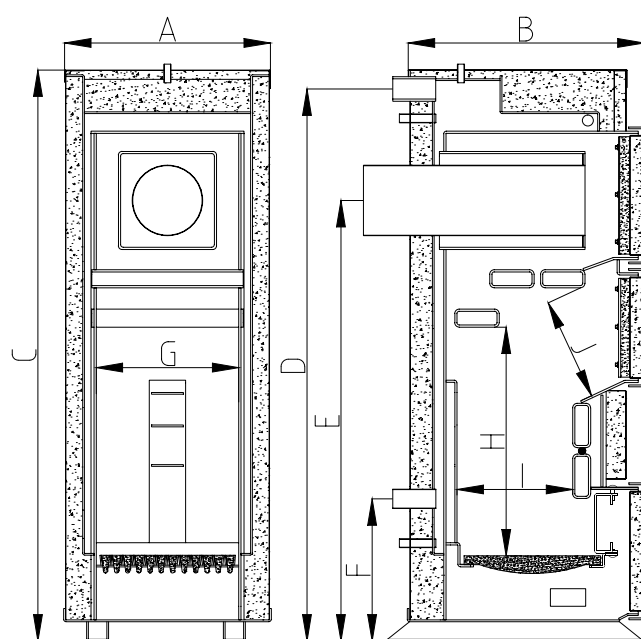
The boiler body is made using the latest metalworking technology, from certified steel plates. The furnace chamber is equipped with a cast iron grate (does not cool down the embers, which improves the combustion conditions). The combustion chamber is equipped with nozzles, through which secondary air is fed into the combustion. Thanks to the secondary air, we achieve a higher combustion quality and higher efficiency of the boiler.

Above the combustion chamber there is a horizontal heating column of high heat exchange efficiency. This column greatly reduces the tendency of the boiler for flue gas condensation and reduces the risk of corrosion. Combustion control consists in determining the optimal amount of air moving through the hole in the ash door. This adjustment should be made automatically through the use of a draft regulator, which is designed to regulate the temperature of the boiler. The boiler has a large loading chamber, which can store a considerable amount of fuel, the result of which is a long operation time of the boiler. Fuel is loaded through a large loading door. All operations, including cleaning of the heat exchanger, take place in front of the boiler, which makes its handling much easier. The boiler has very good thermal insulation made of mineral wool, and it is encased with shields made of powder coated steel.

Boilers can be made with an upwards exhaust and with built-in cooling coil.



Q HIT 15



Q HIT 15

## Primary fuel



coal

## Alternative fuel



firewood



briquette

## Q HIT - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace volume	A - boiler width	B - body depth.	C - body height..	D - Power spigot height.	E - Height to chimney mid	F - Return spigot height	G - Width of the furnace	H - Height of the furnace	I - depth of the furnace	J - Height of the loading opening
kW	kW	m2	Pa	°C	L	Bar	"	mm	kg	dm3	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
7	2 - 7	20 - 70	18	85	23	2	1 1/2	105/150	148	20	37	48	101	97	76	28	23	45	22	19
11	3 - 11	30 - 110	18	85	26	2	1 1/2	105/150	160	30	37	53	101	97	76	28	23	45	27	19
15	5 - 15	50 - 150	20	85	42	2	1 1/2	150	238	45	47	53	129	124	100	32	32	52	27	22.5
20	6 - 20	60 - 200	20	85	47	2	1 1/2	150	255	55	47	58	129	124	100	32	32	52	32	22.5
25	8 - 25	80 - 250	22	85	52	2	1 1/2	150	275	60	47	63	129	124	100	32	32	52	37	22.5
30	9 - 30	90 - 300	22	85	57	2	1 1/2	150	292	70	47	68	129	124	100	32	32	52	42	22.5
35	11 - 35	110 - 350	24	85	62	2	1 1/2	150	311	80	47	73	129	124	100	32	32	52	47	22.5

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

# Q HIT PLUS

7 - 35 kW

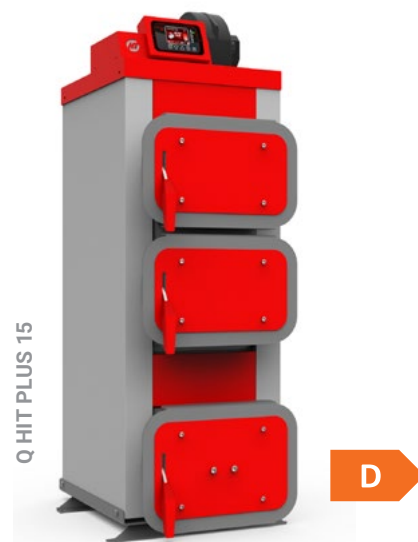
Boilers for traditional burning of coal and wood, with automatic control and a fan.

The **Q HIT PLUS** boiler is a device that combines all the advantages of the **Q HIT** boiler and the controlled combustion process. The **Q HIT PLUS** boiler is equipped with a blow fan. The fan is controlled via the boiler automatic control, which operates in a modulated blow intensity mode. Thanks to the modulation, the boiler adjusts the heat output to the variable heat demand - stabilizing the temperature of the boiler. The modulated blow system's operation results in lower fuel consumption.

The standard automatic control of the **HT-tronic® 100** boiler directs the operation of the central heating pump. The boiler can be equipped with modern automatic control **HT-tronic® 200** or **HT-tronic® 201**. This automatic control directs boiler operation in a modulated manner, supports the DHW system, cooperates with a room thermostat and has an ignition program. A large display provides intuitive device operation.

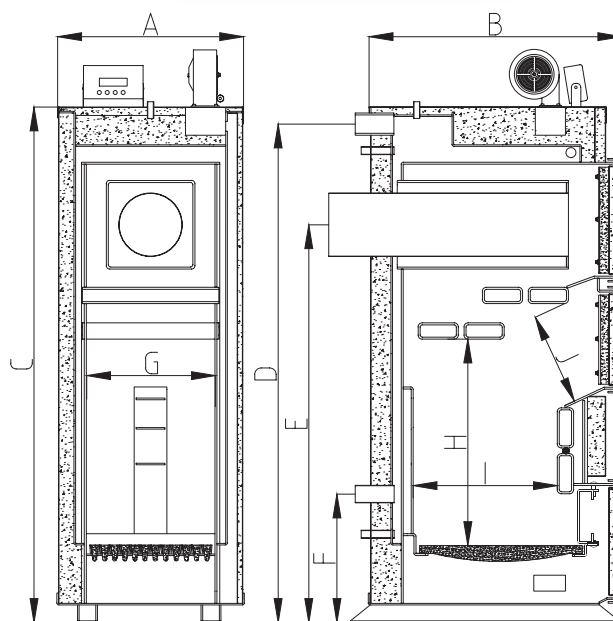
**The HT-tronic® 201** additionally controls the actuator and pump of the mixing valve with the possibility of working in weather mode, it is possible to expand by two modules of mixing valve and internet connection.

Boilers can be made with an upwards exhaust and with built-in cooling coil.



Q HIT PLUS 15

D



Q HIT PLUS 20

## Primary fuel



coal

## Alternative fuel



firewood

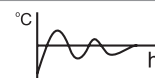


briquette

Control	
HT-Tronic® 100	- boiler basic equipment
HT-Tronic® 200*	
HT-Tronic® 201*	
Expanding modules for automation	
Valve module MZ-2	for HT-tronic® 201
Internet Module	for HT-tronic® 201

(\*option)

## Modulated boiler operation



## Q HIT PLUS - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace volume	A - boiler width	B - body depth.	C - body height..	D - Power spigot height.	E - Height to chimney mid	F - Return spigot height	G - Width of the furnace	H - Height of the furnace	I - depth of the furnace	J - Height of the loading opening
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
7	2 - 7	20 - 70	18	85	23	2	1 1/2	105/150	155	20	37	48	101	97	76	28	23	45	22	19
11	3 - 11	30 - 110	18	85	26	2	1 1/2	105/150	168	30	37	53	101	97	76	28	23	45	27	19
15	5 - 15	50 - 150	20	85	42	2	1 1/2	150	241	45	47	53	129	124	100	32	32	52	27	22.5
20	6 - 20	60 - 200	20	85	47	2	1 1/2	150	259	55	47	58	129	124	100	32	32	52	32	22.5
25	8 - 25	80 - 250	22	85	52	2	1 1/2	150	281	60	47	63	129	124	100	32	32	52	37	22.5
30	9 - 30	90 - 300	22	85	57	2	1 1/2	150	295	70	47	68	129	124	100	32	32	52	42	22.5
35	11 - 35	110 - 350	24	85	62	2	1 1/2	150	324	80	47	73	129	124	100	32	32	52	47	22.5

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

# Q PLUS

15 - 75 kW

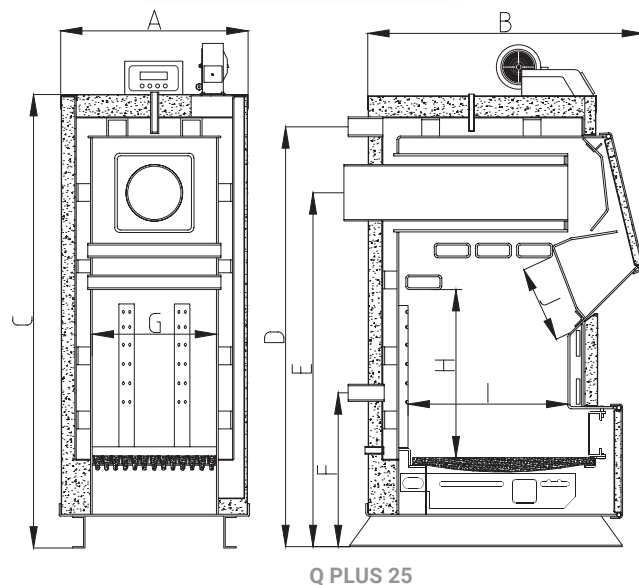
**Universal boilers for burning fine coal, coal and wood, with automatic control and a fan.**

The **Q PLUS** is a central heating boiler designed for: upper combustion of fine coal, coal and, as an alternative fuel, wood and briquettes, using a blow system.

The loading chamber in the boiler was increased, which improved the quality of service, improved the quality of combustion and increased the slow-burning time. The furnace chamber is equipped with a cast iron grate (does not cool down the embers, which improves the combustion conditions). The extended furnace aeration system caused an increase in the amount of secondary air in the combustion chamber. A very big combustion chamber in combination with a large, inclined door allows easy loading of large amounts of fuel.

The boiler operation is directed by modern **HT-tronic® 200** or **HT-tronic® 201** automatic control. A large display provides intuitive device operation. The automatic control, in a modulated manner, directs the blow fan, supports the DHW system, and cooperates with a room thermostat. **HT-tronic® 201** additionally controls the actuator and pump of the mixing valve with the possibility of working in weather mode, it is possible to expand by two modules of mixing valve and internet connection.

Boilers can be made with an upwards exhaust and with built-in cooling coil.



Q PLUS 25

## Primary fuel



coal



fine coal (option)



firewood



briquette

## Alternative fuel



Air regulation  
(primary, secondary)

## Control

**HT-Tronic® 200** - boiler basic equipment

**HT-Tronic® 201\***

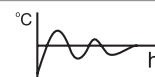
## Expanding modules for automation

**Valve module MZ-2** for HT-tronic® 201

**Internet Module** for HT-tronic® 201

(\*option)

## Modulated boiler operation



## Q PLUS- Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace volume	A - boiler width	B - body depth.	C - body height..	D - Power spigot height.	E - Height to chimney mid	F - Return spigot height	G - Width of the furnace	H - Height of the furnace	I - depth of the furnace	J - Height of the loading opening
kW	kW	m <sup>2</sup>	Pa	°C	L	Bar	"	mm	kg	dm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
15	5 - 15	50 - 150	20	85	79	2	1 1/2	150	294	58	53	69	139	135	110	36,5	35	58	34	20
25	8 - 25	80 - 250	22	85	95	2	1 1/2	150	344	74	53	79	139	135	110	36,5	35	58	45	20
35	11 - 35	110 - 350	22	85	115	2	1 1/2	200	435	105	69	97	139	135	110	36,5	50	58	45	20
45	14 - 45	140 - 450	23	85	125	2	1 1/2	200	457	117	69	102	139	135	110	36,5	50	58	50	20
55	17 - 55	170 - 550	24	85	150	2	2	200	586	162	73	102	169	-	136	39,5	54	74	50	22
65	20 - 65	200 - 650	25	85	160	2	2	200	601	178	73	106	169	-	136	39,5	54	74	55	22
75	23 - 75	230 - 750	26	85	170	2	2	200	627	195	73	111	169	-	136	39,5	54	74	60	22

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

Q PLUS



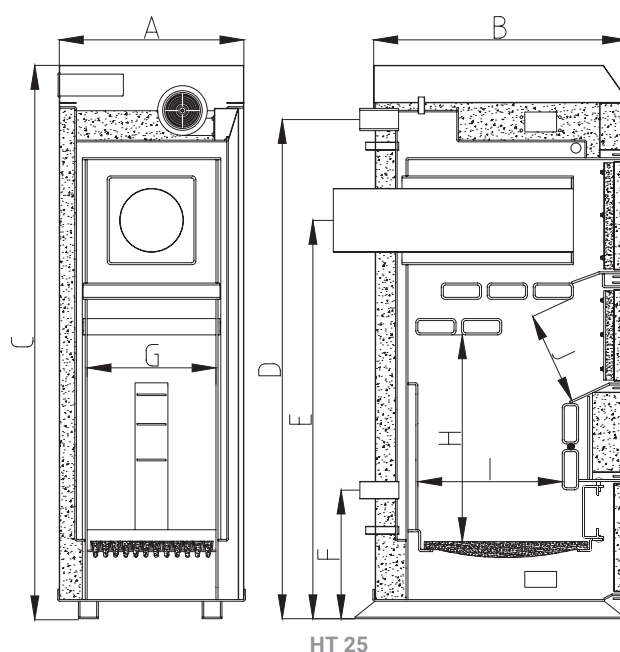
# HT BASIC / HT 7 - 35 kW

**HT BASIC - Boilers for conventional combustion of coal and wood.**

The HT BASIC is a modern central heating boiler intended for traditional upper combustion of coal and wood with the use of chimney draft. Its purpose is to generate heat for heating buildings ranging in size from 3 to 35 kW. The boiler design alludes to the Q HIT boiler. The boiler is equipped with a modern housing and meets the expectations of the most demanding customers. Combustion control consists in determining the optimal amount of air moving through the hole in the ash door. This adjustment should be made automatically through the use of a draft regulator, which is designed to regulate the temperature of the boiler. The boiler has a large loading chamber, which can store a considerable amount of fuel, the result of which is a long operation time of the boiler. Fuel is loaded through a large loading door.

**HT - Boilers for traditional burning of coal and wood, with automatic control and a fan.**

The HT is a central heating boiler intended for traditional upper combustion of coal and wood with the use of a blow fan. By default, the boiler has automatic control type HT-tronic® 220 with DHW support. A large display provides intuitive device operation. The firing-up function of automatic control makes it easier to start up the device with a set blow strength. After the firing-up time runs out, automatic control switches to the working mode. The possibility of cooperation with a room thermostat provides thermal comfort in the heated rooms and much lower fuel consumption. The boilers can be equipped with the HT-tronic® 221 automatic control, which additionally controls the mixing valve actuator, the valve pump, and the thermostat line. The automatic control allows to manage the temperature of the heating system in a weather mode. Boilers can be made with an upwards exhaust and with built-in cooling coil.



## Primary fuel



coal

## Alternative fuel



firewood



briquette

## Control

HT-Tronic® 220 - boiler basic equipment

HT-Tronic® 221\* - boiler basic equipment

## Expanding modules for automation

Valve module MZ-2 for HT-tronic® 201

Internet Module for HT-tronic® 201

(\*option)

## Modulated boiler operation



## HT - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace volume	A - boiler width	B - body depth.	C - body height..	D - Power spigot height.	E - Height to chimney mid	F - Return spigot height	G - Width of the furnace	H - Height of the furnace	I - depth of the furnace	J - Height of the loading opening
kW	kW	m2	Pa	°C	L	Bar	"	mm	kg	dm3	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
7	2 - 7	20 - 70	18	85	23	2	1 1/2	105	162	20	37	48	111	97	76	28	23	45	22	19
11	4 - 11	40 - 110	18	85	26	2	1 1/2	105	176	30	37	53	111	97	76	28	23	45	27	19
15	5 - 15	50 - 150	20	85	42	2	1 1/2	150	251	45	47	53	138	124	100	32	32	52	27	23
20	6 - 20	60 - 200	20	85	47	2	1 1/2	150	269	55	47	58	138	124	100	32	32	52	32	23
25	8 - 25	80 - 250	22	85	52	2	1 1/2	150	293	60	47	63	138	124	100	32	32	52	37	23
30	9 - 30	30 - 300	22	85	57	2	1 1/2	150	305	70	47	68	138	124	100	32	32	52	42	23
35	11 - 35	110 - 350	24	85	62	2	1 1/2	150	336	80	47	73	138	124	100	32	32	52	47	23

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

\* - depends on the heat demand of the building

## 15 - 45 kW

**Universal boilers for burning fine coal, coal and wood,  
with automatic control and a fan.**

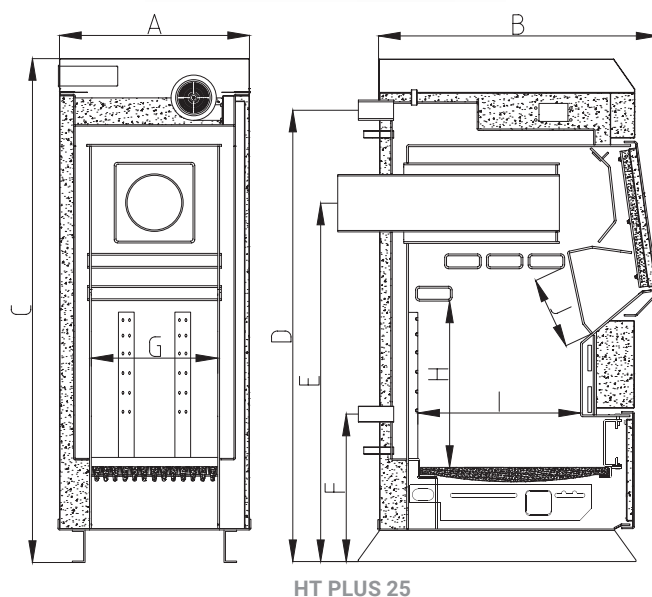
The **HT PLUS** boiler is the latest version of the universal boiler, characterized by a large loading chamber volume, modern design and an extended aeration system for the combustion process.

The boiler design alludes to the **Q PLUS** boiler. The furnace chamber is equipped with a cast iron grate (does not cool down the embers, which improves the combustion conditions).

Both the blower and the automatic control are located under the top casing of the boiler. There is a mechanical shutter in the ash chamber, which allows you to regulate the amount of primary and secondary air. Automatic control directs the blower operation in a modulated manner, which results in stable operation of the boiler.

By default, the boiler has automatic control type **HT-tronic® 220** with DHW support. A large display provides intuitive device operation. The firing-up function of automatic control makes it easier to start up the device. After the firing-up time runs out, automatic control switches to the working mode. The possibility of cooperation with a room thermostat provides thermal comfort in the heated rooms and much lower fuel consumption. The boilers can be equipped with the **HT-tronic® 221** additionally controls the actuator and pump of the mixing valve with the possibility of working in weather mode, it is possible to expand by two modules of mixing valve and internet connection.

Boilers can be made with an upwards exhaust and with built-in cooling coil.



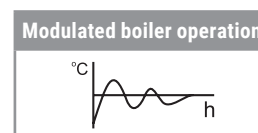
# HT PLUS



Air regulation  
(primary, secondary)

Contol	
HT-Tronic® 220	- boiler basic equipment
HT-Tronic® 221*	
Expanding modules for automation	
Valve module MZ-2	for HT-tronic® 201
Internet Module	for HT-tronic® 201

(\*option)



## HT PLUS- Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace volume	A – boiler width	B - body depth.	C - body hight..	D- Power spigot height.	E- Hight to chimney mid	F- Return spigot height	G- Width of the furnace	H- Height of the furnace	I- depth of the furnace	J- Height of the loading opening
kW	kW	m2	Pa	oC	L	Bar	"	mm	kg	dm3	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
15	5 - 15	50 - 150	20	85	79	2	1 1/2	150	307	58	53	70	149	135	110	36,5	35	58	34	20
25	8 - 25	80 - 250	22	85	95	2	1 1/2	150	357	74	53	80	149	135	110	36,5	35	58	45	20
35	11 - 35	110 - 350	22	85	115	2	1 1/2	200	448	105	69	98	149	135	110	36,5	50	58	45	20
45	14 - 45	140 - 450	23	85	125	2	1 1/2	200	470	117	69	103	149	135	110	36,5	50	58	50	20

The use of leveling feet increases the height of the boiler to 3 cm.

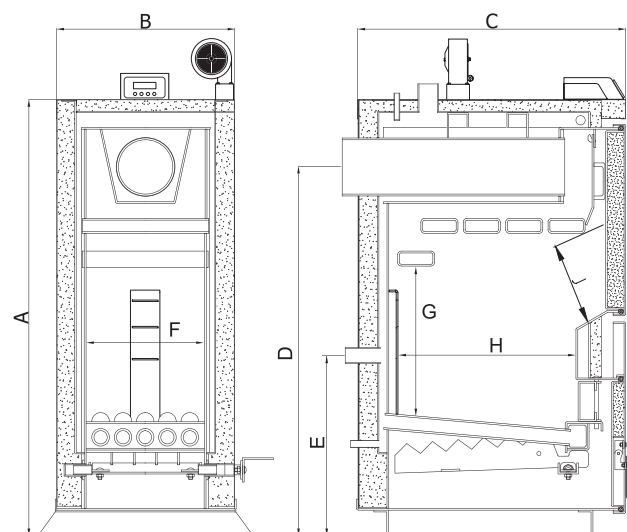
The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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\* - depends on the heat demand of the building

The boiler has a large loading chamber, which houses a large amount of fuel, resulting in a long boiler run time on one fuel load. The fuel is loaded through a large door. All operations including cleaning of the exchanger are carried out on the front of the boiler, which makes it easy to operate.

The **Holz PLUS** boiler is equipped with a blower. The fan is controlled by boiler automation, which operates in modulated blow mode. Thanks to modulation, the boiler adjusts the heating power to the variable heat demand - stabilizing the boiler temperature. Modular operation of the blower system and secondary air system results in less fuel consumption. The standard **HT-tronic® 100** boiler automation controls the CO pump. The boiler can be equipped with modern automatics - **HT-tronic® 200** or **HT-tronic® 201**. This modular regulator controls the boiler operation, operates the DHW pump, works with the room thermostat and has a firing program. **HT-tronic® 201** automatic control, which additionally controls the mixing valve actuator, the valve pump, and the thermostat line. The automatic control allows to manage the temperature of the heating system in a weather mode.



HOLZ PLUS 22

Internet Module  for HT-tronic® 201

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(\*option)

coal

Rated power	Power range	Max. work temperature	Water capacity	Maximum operating pressure	Min. chimney draft	Installation connection	Chimney connection	Boiler mass	B - boiler width	C - body depth	A - body height	D - Height to chimney mid	E - Return spigot height	F - Width of the furnace	G - Height of the furnace	H - depth of the furnace	J - Height of the loading opening
kW	kW	°C	L	Bar	Pa	"	mm	kg	cm	cm	cm	cm	cm	cm	cm	cm	cm
13	4 - 13	85	28	2	18	1 1/2	105/150	198	43	58	104	88	49	26	41	36	17
17	5 - 17	85	36	2	20	1 1/2	150	251	49	58	119	101	49	32	41	36	22
22	7 - 22	85	46	2	20	1 1/2	150	295	49	73	119	101	49	32	41	51	22

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# Q PLUS DR

15 - 40 kW

Boilers for wood burning with automatics and fan.

The **Q Plus DR** boiler is made using modern metal processing technology from certified steel sheets. The boiler construction is based on a high performance, some tube heat exchanger, characteristic for **Heiztechnik** products.

The extensive furnace chamber makes it easy to load large amounts of wood. Lower combustion allows the boiler to operate at constant power regardless of the amount of loaded fuel. Suitable secondary air system connected with steel elements, working as catalysts, improve combustion efficiency. Aeration system based on modulated fan operation, enables smooth boiler power regulation and influences on combustion quality and significantly reduces fuel consumption. Boiler is equipped with the modern automatic **HT-tronic® 201**. Automatic in the modular way steers the work of the boiler, supports the CO and DHW pump, cooperates with the room thermostat and has a lightning program. It controls the actuator and the mixing valve pump with the possibility of work in the weather mode, gives you the opportunity to expand by two modules of the mixing valve and the internet connection. Automation enables the return temperature to be controlled by operating the boiler pump.



D

## Primary fuel

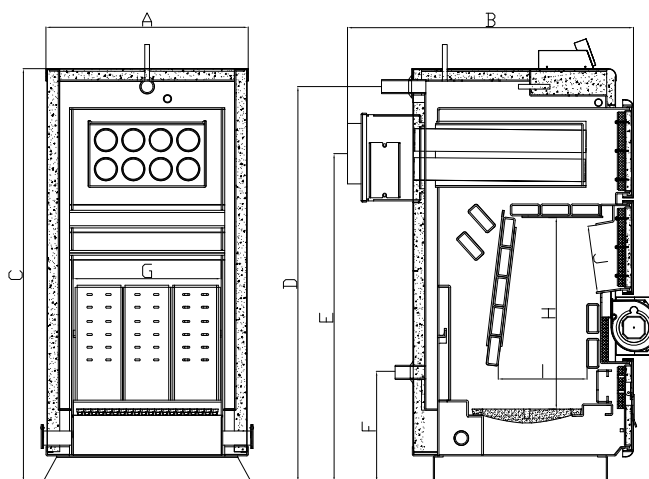


firewood

## Alternative fuel



coal



Q PLUS DR 20

## Control

HT-Tronic® 201



## Automation expansion modules

Valve module MZ-2



Internet Module



## Modulated boiler operation



## Q PLUS DR - Basic dimensions and specifications

Rated power	Power range	Heating area*	Min. chimney draft	Water capacity	Installation connection	Chimney connection	Boiler mass	A - boiler width	B - body depth	C - body height	D - Power spigot height	E - Height to mid. of the chimney	F - Return pigot height.	G - Furnace width	H - Furnace height	I - Furnace head	J - Hole height
kW	kW	m <sup>2</sup>	Pa	L	"	mm	kg	cm	cm	cm	cm	cm	cm	cm	cm	cm	cm
15	5 - 15	50 - 150	20	82	1 1/2	150	440	54	84	139	133	110	36,5	35	64	41	20
20	6 - 20	60 - 200	20	95	1 1/2	200	523	70	92	139	133	110	36,5	50	64	31	20
30	9 - 30	90 - 300	22	115	1 1/2	200	551	70	102	139	133	110	36,5	50	64	41	26
40	12 - 40	120 - 400	23	125	1 1/2	200	598	70	112	139	133	110	36,5	50	64	49	26

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

Q PLUS DR

Boiler **MAXPell GL** is based on the construction of the modern smoke tube heat exchanger **Heiztechnik**. It is equipped with the pellet launcher with internal auger feeder and automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame.

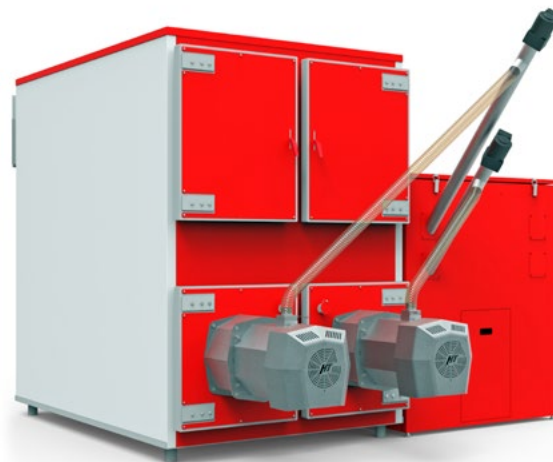
The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode using mixing valve. By adding additional modules (B, C) we have the option to control additional heating elements. The remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automation control the burner operation by modulating the power according to the temperature of the boiler. Work in the Fuzzy Logic mode enables smooth power modulation. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation can be equipped with the internet module.

Boilers with power from 80 to 300 kW can be equipped with an oxygen sensor. Boilers above 300 kW are equipped with two burners.

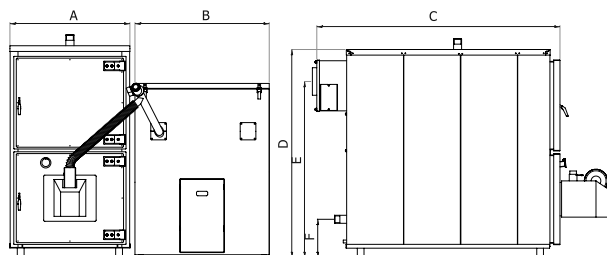
Depending on needs, the boiler can be equipped with various sizes of fuel tank (tanks) or whole systems for fuel supply from silo or bunker.

The boiler can be equipped with a pneumatic cleaning system of the exchanger and automatic removal of ash.

Boilers fulfill the requirements about the environment protection of the **5<sup>th</sup> class** (the highest) fixed in the norm PN-EN 303-5:2012 and requirements of the **ECO DESIGN** according to the regulations of the UE 2015/1189. Boilers have the certificate of the program „Polskie Ciepło”.



MAXPell GreenLine 450



MAXPell GreenLine 250

Burner	
Burner with automatic slag scraper	boiler basic equipment
Pneumatic system for burner cleaning	option
Control	
HT-tronic® 850	boiler basic equipment
HT-tronic® 850 Touch	option
Expanding modules for automation	
Module B	
Module C	
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
ecoSter Touch	Remote control to control the room thermostat
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Cascade automation	
Lambda probe	
Additional equipment / Execution option	
Enlarged tank or atypical	
A common tank for handling two boilers	
Additional fuel feed unit	
The automatic ash removal system	
Pneumatic system for exchanger cleaning	
Cooling coil for 80 - 300 kW	

(\*option)



fuel



pellet

### MAXPell GreenLine - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	*Tank volume	A - boiler width	C - body depth	D - body height	E - Height to mid. of the chimney	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	m <sup>3</sup>	cm	cm	cm	cm	cm
80	24 - 80	24	85	250	2	2	200	1165	1	84	125	161	136	30,5
100	30 - 100	25	85	370	2	2 1/2	200	1385	1	84	150	161	136	30,5
120	36 - 120	26	85	490	2	2 1/2	200	1576	1	84	175	161	136	30,5
150	45 - 150	26	85	610	2	3	250	2326	1	108	191	192	164	35
200	60 - 200	28	85	920	2	3	250	2686	1	108	221	192	164	35
240	72 - 240	26	85	1040	2	3	300	3048	1	108	232	209	178	35
300	90 - 300	26	85	1300	2	3	300	3665	1	147	225	216	186	35
370	111 - 370	26	85	1570	2	Dn100	350	3945	1	147	240	216	186	35
450	135 - 450	26	85	1730	2	Dn100	400	4132	1	147	255	216	186	35

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

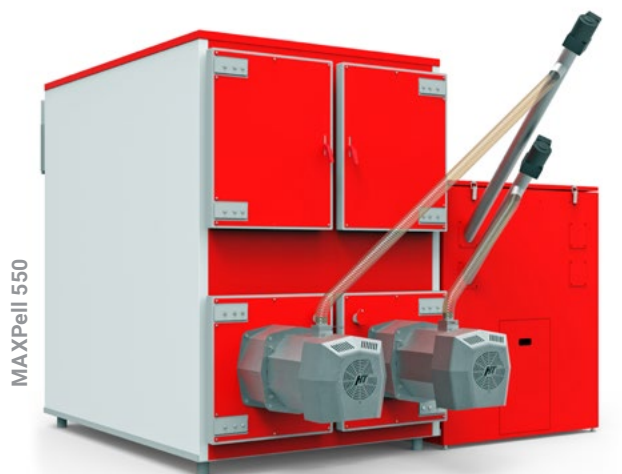
In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

Boiler **MAXPell GL** is based on the construction of the modern smoke tube heat exchanger **Heiztechnik**. It is equipped with the pellet launcher with internal auger feeder and automatic slag scraper. The burner has an automatic igniter and photoelement to control the flame.

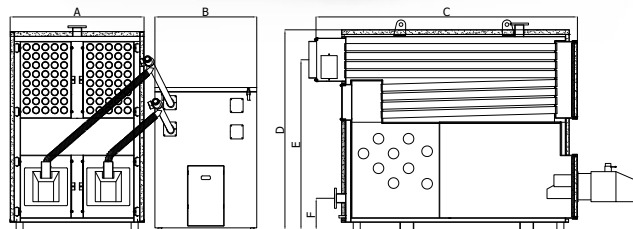
The boiler automation, in addition to burner operation, provides the ability to operate an advanced heating system in weather mode using mixing valve. By adding additional modules (B, C) we have the option to control additional heating elements. The remote control of the room thermostat enables the service of the heating installation providing the comfortable temperature of the heated rooms. Automation control the burner operation by modulating the power according to the temperature of the boiler. Work in the Fuzzy Logic mode enables smooth power modulation. Modulation minimizes the amount of consumed fuel and the boiler runs at maximum efficiency. Automation can be equipped with the internet module.

Boilers with power from 80 to 300 kW can be equipped with an oxygen sensor (Lambda Probe). Boilers above 300 kW are equipped with two burners.

Depending on needs, the boiler can be equipped with various sizes of fuel tank (tanks) or whole systems for fuel supply from silo or bunker. The boiler can be equipped with a pneumatic cleaning system of the exchanger and automatic removal of ash.



MAXPell 550



MAXPell 550

Burner	
Burner with automatic slag scraper	boiler basic equipment
Pneumatic system for burner cleaning	option
Control	
HT-tronic® 850	boiler basic equipment
HT-tronic® 850 Touch	option
Expanding modules for automation	
Module B	
Module C	
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
ecoSter Touch	Remote control to control the room thermostat
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
ecoNET 300	Internet Module
Cascade automation	
Lambda probe	
Additional equipment / Execution option	
Enlarged tank or atypical	
A common tank for handling two boilers	
Additional fuel feed unit	
The automatic ash removal system	
Pneumatic system for exchanger cleaning	
Cooling coil for 80 - 300 kW	

fuel



pellet

### MAXPell - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	*Tank volume	A - boiler width	C - body depth	D - body height	E - Height to mid. of the chimney	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	m <sup>3</sup>	cm	cm	cm	cm	cm
80	24 - 80	24	85	250	2	2	200	1050	1	84	125	149	122	30,5
100	30 - 100	25	85	370	2	2 1/2	200	1205	1	84	150	149	122	30,5
120	36 - 120	26	85	490	2	2 1/2	200	1352	1	84	175	149	122	30,5
150	45 - 150	26	85	610	2	3	250	2112	1	108	191	189	160	35
200	60 - 200	28	85	920	2	3	250	2368	1	108	221	189	160	35
250	75 - 250	26	85	1040	2	3	300	2785	1	108	232	209	173	35
300	90 - 300	27	85	1160	2	3	300	3168	1	108	262	209	173	35
450	135 - 450	26	85	1730	2	Dn100	400	4095	1	147	255	216	186	35
550	165 - 550	27	85	2130	2	Dn100	400	4578	1	147	285	216	186	35
630	189 - 630	28	85	2600	2	Dn100	400	5006	1	147	325	216	186	35

\* Dimensions of boilers equipped with a automatic ash removal system are changed

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

# MAXPell DUO

## Pellet boilers with additional furnace

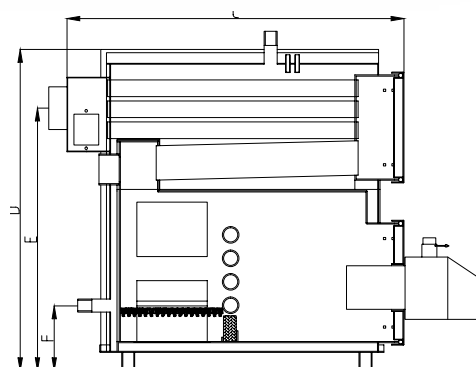
The **MAXPell DUO** is based on the construction of the modern smoke tube heat exchanger **Heiztechnik**. The furnace chamber is divided into two fireplaces. The first one is equipped with the pellet launcher with internal auger feeder. The second furnace in the back of the boiler is equipped with a cast iron grate and blower fan - controlled by **HT-tronic® 100** automatics.

The boiler control, in addition to the burner operation, provides the possibility of operating an advanced heating system in the weather mode using a mixing valve. By adding additional modules (B, C) we have the option of controlling additional heating elements. The remote control unit with room thermostat allows operation of the installation ensuring the comfortable temperature of the heated rooms.

Automation controls the burner's operation modulating the power depending on the boiler temperature. The Fuzzy Logic mode enables smooth power modulation. Modulation ensures that the amount of fuel consumed is minimized and the boiler operates at the highest efficiency. Automation can be equipped with a large color display and an internet module.

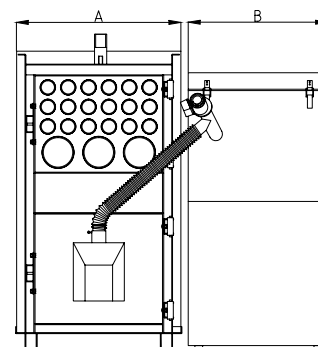
The boiler can be equipped with a burner with an automatic slag scraper. Burners have an igniter and photoelement for flame control.

Depending on needs, the boiler can be equipped with various sizes of fuel tank (tanks) or whole systems for fuel supply from silo or bunker. The boiler can be equipped with a pneumatic cleaning system of the exchanger and automatic removal of ash.



Control	
HT-tronic® 850	CO CWU ZAW [symbols] boiler basic equipment
HT-tronic® 850 Touch *	CO CWU ZAW [symbols] [color screen icon] option
HT-Tronic® 100	KOTLA CO [symbols] - boiler basic equipment
Expanding modules for automation	
Modul B	ZAW ZAW bufora [symbols]
Modul C	ZAW ZAW CYRKUL [symbols]
ecoSter 200	Remote Control Panel with room thermostat- HT-tronic® 850
ecoSter Touch	Remote control to control the room thermostat [color screen icon]
ecoNET 300	Internet Module [internet icon]

(\*option)



MAXPell DUO 100

### MAXPell DUO- Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	*Tank volume	A - boiler width	C - body depth	D - body height	E - Height to mid. of the chimney	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	m³	cm	cm	cm	cm	cm
100	30 - 100	25	85	370	2	2 1/2	200	1345	1	83	150	149	122	30,5
120	35 - 120	26	85	490	2	2 1/2	200	1535	1	83	175	149	122	30,5
150	45 - 150	26	85	610	2	3	250	2212	1	107	192	189	160	35
200	60 - 200	28	85	920	2	3	250	2502	1	107	222	189	160	35
250	75 - 250	26	85	1040	2	3	300	2863	1	107	232	209	178	35
300	90 - 300	27	85	1160	2	3	300	3331	1	107	262	209	178	35
450	135 - 450	26	85	1730	2	Dn100	400	4315	1	146	255	217	186	35
550	165 - 550	27	85	2130	2	Dn100	400	4780	1	146	285	217	186	35
630	185 - 630	28	85	2600	2	Dn100	400	5300	1	146	325	217	186	35

#### Primary fuel



pellet

#### Alternative fuel on the grate



coal

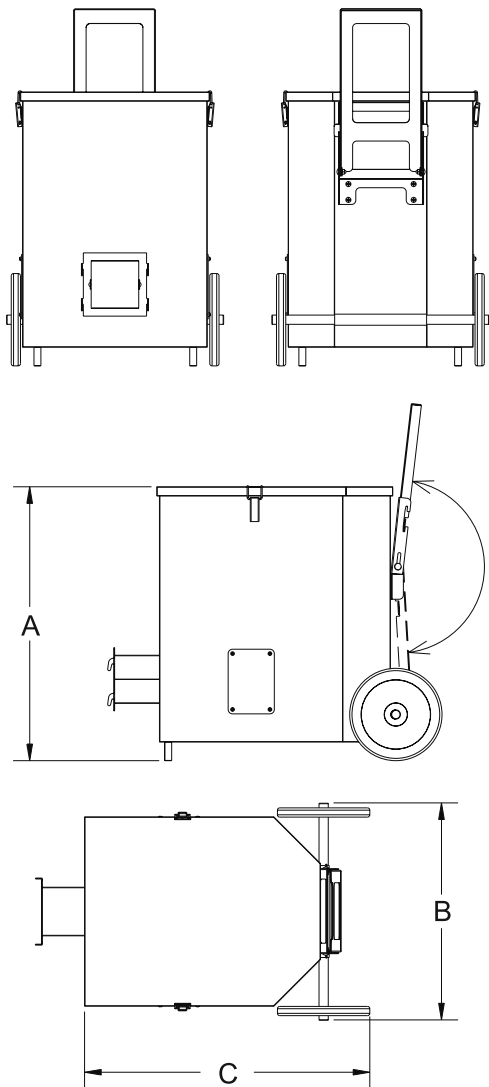


firewood

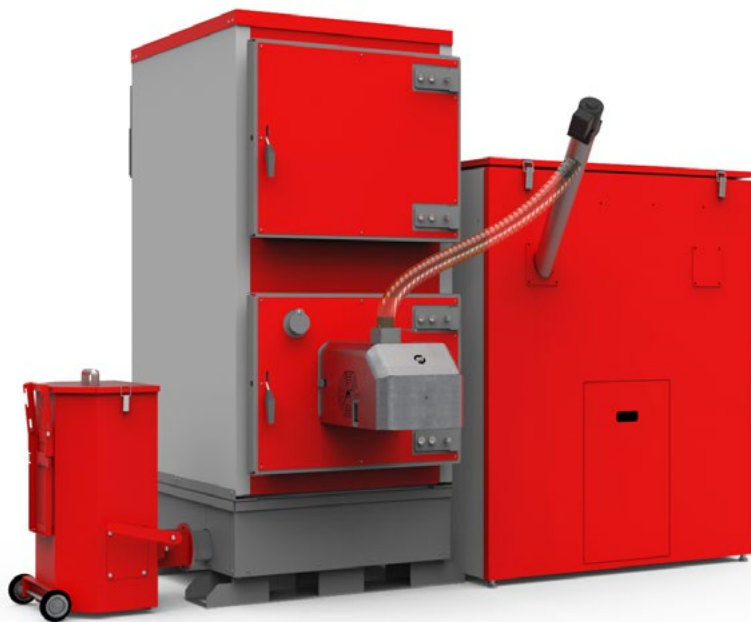


# ASH REMOVAL SYSTEM

The ARS is intended for storing ash generated in the ash burning process. It is equipped with revisions enabling connection of the pouring feeder to the secondary tank



HT DasPell - with Ash Removal System



MaxPell - with Ash Removal System

ASHPAN		
	HT DasPell / Q Pellet Duo	MaxPell
Height (A)	59 cm	59 cm
Width (B)	47 cm	47 cm
Depth (C)	42 cm	62 cm
Volume	60 L	100 L



# Q MAX EKO GL 100 - 240 kW

## Eco-pea coal class 5 feeder boilers



The **Q MAX EKO GL** is an automatic heating boiler with structure based on the **Heiztechnik** fire tube heat exchanger with high heat exchange efficiency. The boiler is equipped with a cast-iron retort burner with an integrated screw conveyor. The boiler may be equipped with two independent burners with controllers. This boiler is characterised by high efficiency and simple control.

As a standard, the boiler is equipped with the **HT-tronic® 750** weather control system with a colour display ensuring intuitive control and the capability of controlling a boiler pump, central heating pump, mixing valve and domestic hot water pump with the possibility of room thermostat and valve thermostat connection. The control system may be additionally equipped with optional **MZ-2** modules, operating in a network or individually. The controller allows installation of the Internet module.

The control systems allow to secure the return temperature by controlling the boiler pump operation.

The boiler may be supplied with automatic ash removal systems and a pneumatic heat exchanger cleaning system.

Installation of an additional grate is impossible.

These boilers meet **class 5** environmental protection requirements according to PN-EN 303-5:2012.

These boilers have the „Polskie Ciepło” certification.



Burner	
Retort burner DUO	- boiler basic equipment
Control	
HT-Tronic® 750	boiler basic equipment
Expanding modules for automation	
Valve module MZ-2	
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Combustion process optimizer	
Additional equipment / Execution option	
Enlarged tank	
Tray feeder sensor (1 item)	
The automatic ash removal system	
Pneumatic system for exchanger cleaning	
Cooling coil	

fuel



Eco-pea coal

### Q MAX EKO GL - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Number of feeders	Tank volume	A + B Width of the set	A - boiler width	B - tank width	C - body depth	D - body height	D1 - Ash rem. mod. height	E - Height to chimney mid	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	szt	m <sup>3</sup>	m <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm
100	30 - 100	26	85	680	2	2 1/2	200	1450	1	1	170	83	87	170	192	22	164	35
120	30 - 120	26	85	720	2	2 1/2	200	1600	1	1	170	83	87	198	192	22	164	35
150	45 - 150	26	85	920	2	3	250	2200	2	1+1	180	93	87	238	194	22	164	35
200	60 - 200	28	85	1200	2	3	300	2700	2	1+1	205	103	102	238	214	22	183	35
240	72 - 240	26	85	1400	2	3	300	3100	2	1+1	205	103	102	268	214	22	183	35
300	- Information available on request																	
350	- Information available on request																	
400	- Information available on request																	
480	- Information available on request																	

\* Dimensions of boilers equipped with a automatic ash removal system are changed

# Q MAX EKO

## Automatic boilers for burning of eco-pea coal or biomass\*

The **Q MAX EKO GL** is an automatic heating boiler with structure based on the **Heiztechnik** fire tube heat exchanger with high heat exchange efficiency. The boiler is equipped with a cast iron re-tort burner with integrated screw feeder. Depending on the burner used, it can burn coal in an „**STANDARD**” burner or, in addition, carbon black or carbonated coal in a „**DUO**” rotary burner\*. The **Q MAX EKO** can be equipped with a „**BIO BURNER**”, intended for burning biomass such as cereals, pellets, etc. Depending on the power (standard power for more than 150 kW), the boiler is equipped with two independent burners and controllers. The boiler is characterized by high efficiency and very simple operation.

The **HT-tronic® 750** is equipped with a color display for intuitive operation, with boiler pump, CO, mixing valve and DHW, with the possibility of connecting the room thermostat and the valve thermostat.

The automatics can be equipped with additional **MZ-2** modules operating in a boiler or independent network. The driver enables the installation of the internet module and GSM.

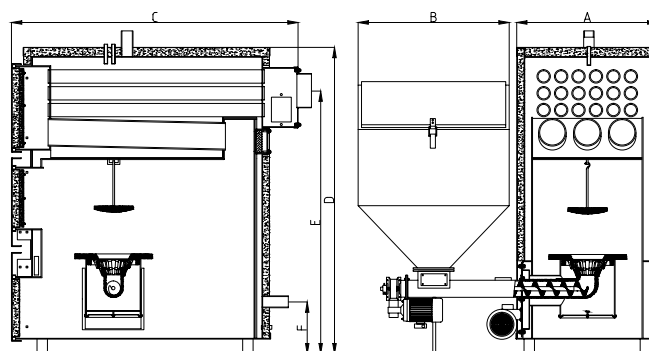
The control systems allow to secure the return temperature by controlling the boiler pump operation.

The boiler can be fitted with an automatic ash removal system and executed with a feeder mounted on the rear wall of the boiler.

(\*option)



Q MAX EKO 500



Q MAX EKO 150

Control	
HT-Tronic® 750	
Expanding modules for automation	
Valve module MZ-2	
Internet Module	
GSM Module	GSM

### Primary fuel



eco-pea coal fine coal (option)

### Primary fuel for the BIO Burner



pellet cereals

## Q MAX EKO - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Number of feeders	Tank volume	A + B Width of the set	A - boiler width	B - tank width	C - body depth	D - body height	E - Height to chimney mid	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	szt	m³	m³	cm	cm	cm	cm	cm	cm
90	27 - 90	24	85	370	2	2	200	1170	1	1	166	83	87	143	180	154	35
120	36 - 120	26	85	490	2	2	200	1320	1	1	166	83	87	173	180	154	35
150	45 - 150	26	85	610	2	2 1/2	250	1400	1	1	166	83	87	203	180	154	35
200	60 - 200	28	85	920	2	2 1/2	250	2220	2	1+1	213	103	102	223	210	181	35
250	75 - 250	26	85	1040	2	2 1/2	300	2400	2	1+1	213	103	102	233	210	181	35
300	90 - 300	27	85	1160	2	3	300	2580	2	1+1	213	103	102	253	210	181	35
350	105 - 350	26	85	1280	2	3	350	2730	2	1+1	213	103	102	283	210	181	35
400	120 - 400	27	85	1700	2	Dn100	350	4290	2	1+1	259	147	102	245	217	186	35
500	150 - 500	26	85	2150	2	Dn100	400	5070	2	1+1	259	147	102	295	217	186	35
600	180 - 600	27	85	2600	2	Dn100	400	5850	2	1+1	259	147	102	345	217	186	35
750	225 - 750	- Information available on request															
1000	300 - 1000	- Information available on request															

\* Dimensions of boilers equipped with a automatic ash removal system are changed

# Q MAX EKO DUO

**Automatic Boilers for burning of eco-pea coal or biomass\* with an additional furnace.**

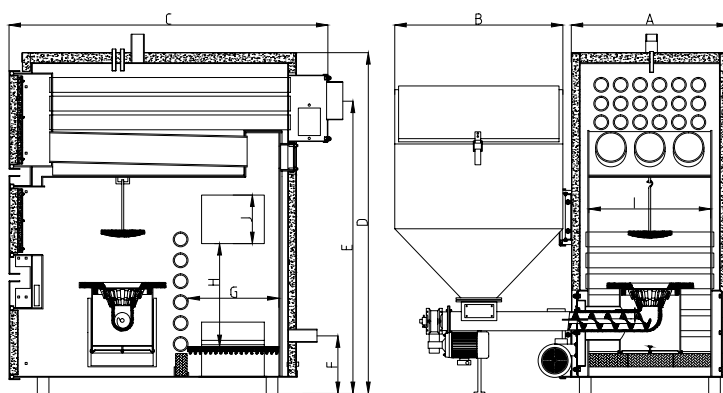
The **Q MAX EKO DUO** is a boiler combining the features of a boiler with an automatic fuel feeder, with a boiler intended for traditional burning of solid fuels.

The combustion part of the boiler is divided into two furnaces by means of a wall made of water pipes. The first furnace is fitted with a burner with an automatic screw conveyor fuel feeder and automatic control **HT-tronic® 750**.

The second furnace located at the back of the boiler is fitted with a cast-iron bar grate and an independent blow fan - the burning process control is executed by the **HT-tronic® 100** automatic control. Both furnaces are operated by two independent regulators, which allows for easy usage of each furnace separately or together. Loading of fuel in the form of wood, coal and briquettes for burning takes place through the loading door located at the back on the side wall of the boiler.

The boiler can be equipped with a pneumatic cleaning system of the exchanger and automatic removal of ash. (\*option)

Q MAX EKO DUO 200



Q MAX EKO DUO 120

## Primary fuel



## Primary fuel for the BIO Burner



## Alternative fuel on the cast iron grate



## Control

HT-Tronic® 750	
HT-Tronic® 100	

## Automation expansion modules

Valve module MZ-2	
Internet Module	
GSM Module	GSM

## Q MAX EKO DUO - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Number of furnace	Tank volume	A + B Width of the set	A - boiler width	B - tank width	C - body depth	D - body height	E - Height to chimney mid	F - Return spigot height
kW	kW	Pa	°C	L	Bar	"	mm	kg	szt	m³	m³	cm	cm	cm	cm	cm	cm
120	36 - 120	26	85	490	2	2	200	1420	2	1	163	83	87	173	180	154	35
150	45 - 150	26	85	610	2	2 1/2	250	1570	2	1	163	83	87	203	180	154	35
200	60 - 200	28	85	920	2	2 1/2	250	2320	2	1	193	103	87	223	210	181	35
250	75 - 250	26	85	1040	2	2 1/2	300	2550	2	1	193	103	87	243	210	181	35
300	90 - 300	27	85	1160	2	3	300	2730	2	1	193	103	87	263	210	181	35

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.



# Q MAX PLUS

Steel boilers for burning fine coal, coal and wood, with automatic control and a fan.

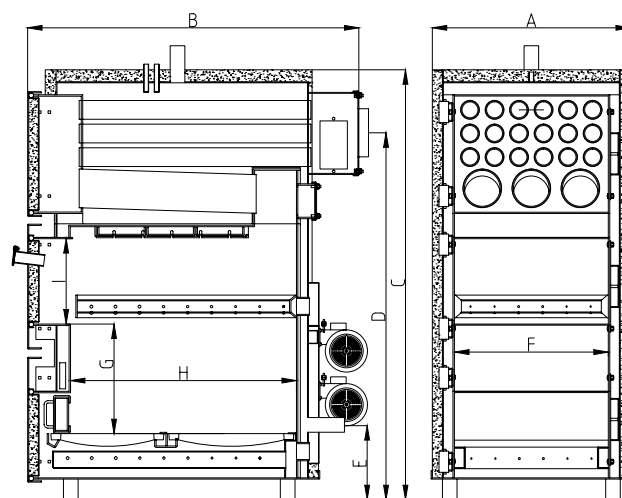
The **Q MAX PLUS** boiler is a device that uses modern solutions in traditional solid fuel combustion technology. Its three-pass, fire tube design results in a high efficiency heat exchange with a minimal tendency of flue gas condensation.

A large feeding chamber allows for loading large amounts of fuel through a large feed opening. The combustion takes place on a cast iron grate, improve the efficiency of furnace aeration and combustion quality. In order to improve combustion, the furnace chamber is equipped with a secondary air nozzle system. A steel screen placed on the ceiling of the furnace acts as a deflector.

The boiler has a **HT-tronic® 250** controller, which independently supports two blowers. The fans independently aerate the combustion process. One fan supplies air under the cast iron grate, the other gives the secondary air to upper part of the furnace. The automation manages the operation of the central heating and hot water pumps and gives the possibility of connecting a room thermostat.

As an option, the **HT-tronic® 251** controller is available, which gives the possibility to control the mixing valve actuator, which can operate in weather mode. The control systems allow to secure the return temperature by controlling the boiler pump operation.

Q MAX PLUS 90



Q MAX PLUS 90

## Primary fuel



coal



fine coal (option)

## Alternative fuel



firewood

## Control

HT-Tronic® 250

KOTLA CO CWU - boiler basic equipment

HT-Tronic® 251\*

KOTLA CO CWU bufora ZAW

## Automation expansion modules

Valve module MZ-2

ZAW ZAW

Internet Module

www

GSM Module

GSM

(\*option)

## Modulated boiler operation



## Q MAX PLUS - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Volume of furnace	A - boiler width	B - body depth	C - body height	E - Height to mid. of the chimney	F - Return pigot height.	G - Furnace width	H - Furnace height	I - Furnace head	I - Height of the loading opening
kW	kW	Pa	°C	L	Bar	"	mm	kg	cm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm
90	27 - 90	30	85	380	2	2	200	1200	300	84	140	180	154	35	64	50	94	35
120	36 - 120	32	85	500	2	2	200	1400	400	84	170	180	154	35	64	50	124	35
150	45 - 150	30	85	620	2	2 1/2	250	1650	500	84	200	180	154	35	64	50	154	35
200	60 - 200	32	85	940	2	2 1/2	250	1940	550	97	193	210	176	35	74	50	136	35
200W	60 - 200	32	85	1040	2	2 1/2	250	2150	620	108	173	247	215	35	84	60	116	35
250	75 - 250	30	85	1060	2	2 1/2	300	2160	620	97	203	210	176	35	74	50	146	35
250W	75 - 250	30	85	1160	2	2 1/2	300	2250	690	108	194	247	215	35	84	60	131	35
300	90 - 300	32	85	1180	2	3	300	2360	690	97	233	210	176	35	74	50	176	35
300W	90 - 300	32	85	1280	2	3	300	2450	760	108	209	247	215	35	84	60	146	35
350	105 - 350	30	85	1300	2	3	350	2670	760	97	263	210	176	35	74	50	207	35
350W	105 - 350	30	85	1400	2	3	350	2750	840	108	224	247	215	35	84	60	161	35

The use of leveling feet increases the height of the boiler to 3 cm.

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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# Q MAX PLUS DR

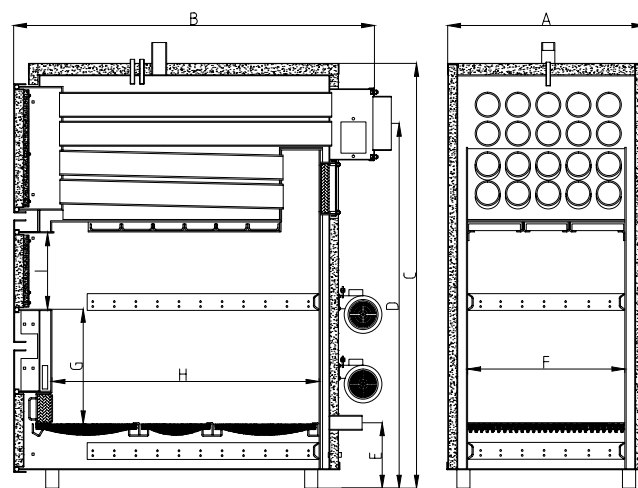
Boilers for wood burning with automatics and fan.

The **Q MAX PLUS DR** boiler is a new boiler designed for burning firewood. The construction of the boiler is reminiscent of the **Q PLUS PLUS** boiler. The differences consist in increasing the diameter of combustion tubes in order to reduce flue gas flow resistance, and in limiting the amount of primary air (under the grate) with simultaneous increasing of the amount of secondary air fed to the combustion part of the boiler. Thanks to such structure, we achieved an increase in combustion quality and decrease in the amount of gas pitch which may form during combustion of finely broken down wood. The boiler has a long loading chamber, thanks to which long logs can be used for burning.

The boiler has a **HT-tronic® 251** controller, which independently supports two blowers. The fans independently aerate the combustion process. One fan supplies air under the cast iron grate, the other gives the secondary air to the upper part of the hearth. The automation manages the work of pumps: CO, CWU, buffer and gives the possibility of connecting a room thermostat.

The controller provides the ability to control the mixing valve actuator, which can operate in weather mode. The control systems allow to secure the return temperature by controlling the boiler pump operation.

Q MAX PLUS DR 150



Q MAX PLUS DR 150

Primary fuel



firewood

Alternative fuel



coal

## Control

HT-Tronic® 251



## Automation expansion modules

Valve module MZ-2



Internet Module



GSM Module

GSM

## Modular boiler work



## Q MAX PLUS DR - Basic dimensions and specifications

Moc znamionowa	Zakres mocy	Min. ciąg kominowy	Max. temperatura pracy	Pojemność wodna	Max. ciśnienie robocze	Przyłącze instalacji	Przyłącze kotłowa	Masa kotła	Pojemność palen.	A - Szerokość kotła	B - Głębokość korp.	C - Wysokość korp.	D - Wys. do sr. kom.	E - Wys. kr. pow.	F - Szer. paleniska	G - Wys. paleniska	H - Gł. paleniska	I - Wys. otworu załadunkowego
kW	kW	Pa	°C	L	Bar	"	mm	kg	cm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm
90	27 - 90	30	85	380	2	2	200	1300	410	92	140	197	172	35	73	52	94	35
120	36 - 120	32	85	500	2	2	200	1520	540	92	170	197	172	35	73	52	124	35
150	45 - 150	30	85	620	2	2 1/2	250	1700	670	92	200	197	172	35	73	52	154	35
200	60 - 200	32	85	940	2	2 1/2	250	2100	700	97	200	215	178	35	74	52	143	35
250	75 - 250	30	85	1060	2	2 1/2	300	2200	780	97	220	215	178	35	74	52	163	35
300	90 - 300	32	85	1180	2	3	300	2300	870	97	240	215	178	35	74	52	183	35
350	105 - 350	30	85	1300	2	3	350	2980	960	97	260	215	178	35	74	52	203	35

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.

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# Q PLUS AGRO / Q PLUS AGRO B

30 - 100 kW

150 - 300 kW

**Boilers designed for burning straw in cube bales and round bales with automatic control and a fan.**

The **Q PLUS AGRO** boiler is designed for burning straw in cube bales. The **Q PLUS AGRO 30** can be loaded with two cube bales, the **Q PLUS AGRO 50** with four and the **Q PLUS AGRO 100** with eight straw cube bales with dimensions of 40 x 40 x 80cm.

Good aeration of the combustion chamber through the use of secondary air nozzles ensures efficient combustion of quickly gasifying straw while maintaining correct combustion parameters. Use of modulated operation of blow fans allows to achieve high combustion quality.

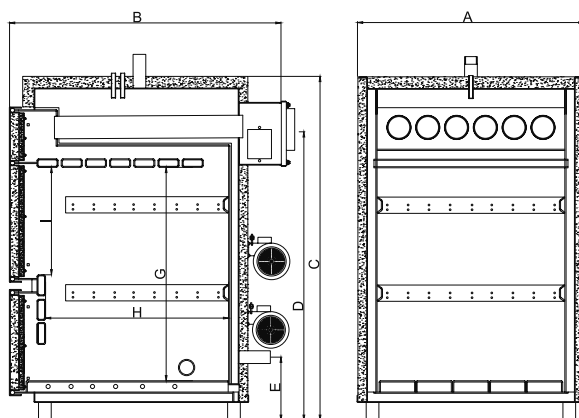
The **Q PLUS AGRO B** boiler is intended for burning straw in round bales with a diameter of ca. 120 cm. The **Q PLUS AGRO B 150** boiler can be loaded with one round bale of straw, and the **Q PLUS AGRO B 300** – with two round bales of straw.

AGRO boilers are fitted with the **HT-tronic® 251** automatic control.



Straw in cube bales - Q PLUS AGRO  
Straw in round bales - Q PLUS AGRO B

Q PLUS AGRO 50



Q PLUS AGRO 50

Control	
HT-Tronic® 251	
Automation expansion modules	
Valve module MZ-2	
HT-tronic TPP	Room thermostat, wired with a weekly program
HT-tronic TPBP	Room thermostat, wireless with weekly program
Internet Module	
Additional equipment / Execution option	
Cooling coil	

## Q PLUS AGRO - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	Furnace capacity	A - boiler width	B - body depth	C - body height	D - Hight to mid. of the chimney.	E - Return spigot height	F - Width of furnace	G - Height of furnace	H - Depth of furnace	I - Height of loading opening
kW	kW	Pa	°C	L	Bar	"	mm	kg	cm <sup>3</sup>	cm	cm	cm	cm	cm	cm	cm	cm	cm
30	20 - 30	22	85	260	2	1 1/2	200	900	350	70	132	160	134	30	50	102	87	51
50	30 - 50	24	85	360	2	1 1/2	200	1200	620	110	132	165	140	30	90	102	87	51
100	50 - 100	30	85	610	2	2 1/2	250	1850	1150	110	212	180	154	35	90	98	167	51

## Q PLUS AGRO B - Basic dimensions and specifications

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Maximum operating pressure	Installation connection	Chimney connection	Boiler mass	A - boiler width	B - body depth	C - body height	D - Hight to mid. of the chimney..	F - Depth of furnace	G - Diam. of furnace
kW	kW	Pa	°C	L	Bar	"	mm	kg	cm	cm	cm	cm	cm	cm
150	50 - 150	28	85	1300	2	3	350	2200	183	216	226	201	150	148
300	100 - 300	30	85	2200	2	3	350	3500	183	357	226	201	290	148

The dimensions given may vary from actual dimensions to 2%. Other detailed dimensions are available on the website.  
In order to improve the product, Heiztechnik reserves the law to change specifications and equipment. The above prospectus does not constitute an offer within the meaning of commercial law.

# HT DasPell ZB

20 - 60 kW



## Automatic biomass combustion kit

HT DasPell ZB is the boilers, that construction is based on the boiler exchanger HT DasPell. Automatic biomass combustion kit consists of the drop up burner, automatic, auger feeder and tank equipped with the fuel choosing system. Burner is equipped with the igniter, auger feeder and slag scraper. Automatic controls the burner operation, feeder system with tank equipped with mixing system and heating installation.

## HT DasPell ZB - Basic dimensions and technical data

Rated power	Power range	Heating area	Min. chimney draft	Max. work temperature	Water capacity	Installation connection	Chimney connection	Boiler mass	A - boiler width	*Balanced volume	C - body depth	D - body height	E - Power pigot height	F - Hight to mid. of the chimney	G - Return pigot height
kW	kW	m <sup>2</sup>	Pa	°C	L	"	mm	kg	cm	m <sup>3</sup>	cm	cm	cm	cm	cm
20	6 - 20	60 - 200	18	85	88	1 1/2	150	320	48	1	58	140	126	108	32
40	12 - 40	120 - 400	22	85	118	1 1/2	150	460	54	1	80	140	126	108	32
60	20 - 60	200 - 600	25	85	155	1 1/2	200	510	69	1	104	140	126	108	32

\*- depends on the heat demand of the building

### Burner

Burner with the slag scraper

### Control

HT-tronic® 850

- boiler basic equipment

HT-tronic® 850 Touch\*

### Modules enlarging automatic

Module B

Module C

ecoSter 200 Remote control with room thermostat - HT-tronic® 850

ecoSter Touch Touch display screen ( color ) remote control with room thermostat

ecoNET 300 Internet module

Lambda Probe

### Additional equipment

Additional unit for fuel supply

Spring selector

Automatic ashing system

Cooling coil

(\*option)

**fuel**



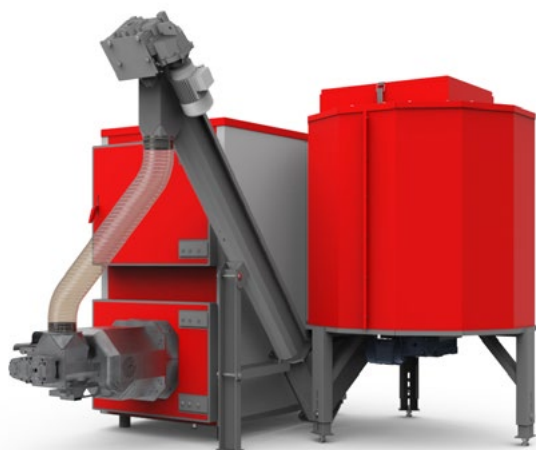
woodchips



pellet

# HT MaxPell ZB

80 - 250 kW



## Automatic biomass combustion kit

HT MAXPell ZB is the boilers, that construction is based on the boiler exchanger HT MAXPell. Automatic biomass combustion kit consists of the drop up burner, automatic, auger feeder and tank equipped with the fuel choosing system. Burner is equipped with the igniter, auger feeder and slag scraper. Automatic controls the burner operation, feeder system with tank equipped with mixing system and heating installation.

## MAXPell GL ZB - Basic dimensions and technical data

Rated power	Power range	Min. chimney draft	Max. work temperature	Water capacity	Installation connection	Chimney connection	Boiler mass	*Balanced volume	A - boiler width	C - body depth	D - body height	E - Hight to mid. of the chimne	F - Return pigot height
kW	kW	Pa	°C	L	"	mm	kg	m <sup>3</sup>	cm	cm	cm	cm	cm
80	24 - 90	24	85	250	2 1/2	200	886	1	84	125	149	122	30,5
100	30 - 100	24	85	370	2 1/2	200	1050	1	84	150	149	122	30,5

### Burner

Burner with the slag scraper

### Control

HT-tronic® 850

- boiler basic equipment

HT-tronic® 850 Touch\*

### Modules enlarging automatic

Module B

Module C

ecoSter 200 Remote control with room thermostat - HT-tronic® 850

ecoSter Touch Touch display screen ( color ) remote control with room thermostat

ecoNET 300 Internet module

Lambda Probe

### Additional equipment

Additional unit for fuel supply

Spring selector

Automatic ashing system

Cooling coil

Pneumatic cleaning system of the exchanger

(\*option)

**fuel**



woodchips

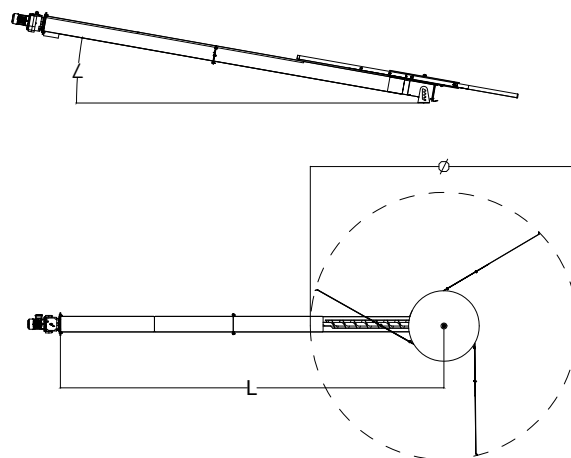
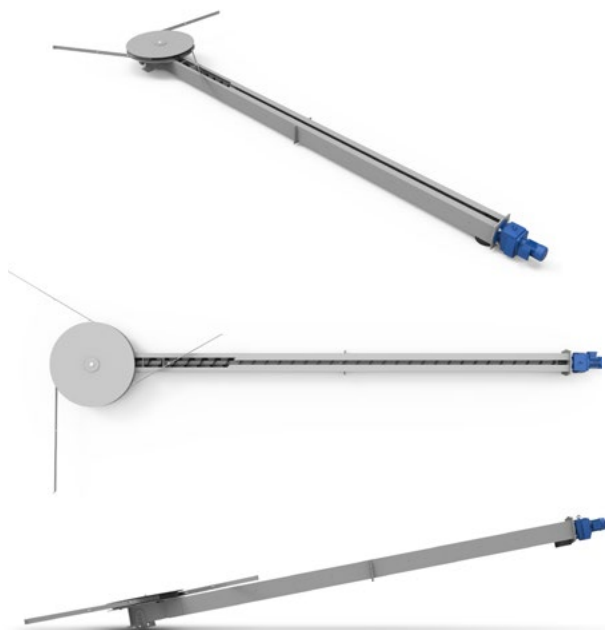


pellet



# FEEDING SYSTEM

The feeding system with a screw feeder is an ideal solution when it is necessary to transport fuel from a storage or storage container located a few meters away from the boiler. The fuel feeder can be adjusted depending on the demand in the range from 3 to 5m. The reel with a maximum working diameter of 5 m can be installed in a matched tank as well as a separate room for fuel.



## FEEDING SYSTEM

angle ( $\angle$ )	0-15°
length (L)	3 - 5 m
diameter of agitator arm	3 - 5 m
engine power	0,25 kW

# CONTAINER BOILER PLANTS

## Containers with a mounted boiler, installation and automatic control

The **KNTK** container boiler plant is a specially designed steel, thermally-insulated container fitted with a central heating boiler with full control. The container is equipped with hydraulic, electric and chimney installations. The boiler can be fitted with an automatic ash removal system.

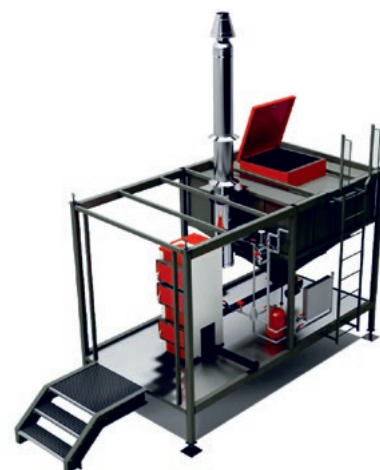
Mounted on the steel floor of the container is the automatic central heating boiler. Installed in the roof part of the contain is a large fuel tank. Loading of fuel into the tank is done through the loading opening. The container has a large door which enables mounting, operation and servicing of the boiler.

When submitting an order, the container boiler plant's user specifies in detail its equipment including: boiler type and power rating, electric and hydraulic installation type as well as chimney type and its connection.

The container boiler plant is a very convenient solution – built and commissioned at the factory in accordance with the order, it is transported to the location of operation fully prepared to be connected. The container ensures reliable protection for the boiler and other devices installed in it, it is resistant to external elements – it can be placed next to the facility it is intended to heat.

The container boiler plant is prepared for road and rail transport. Fitted at the top part of the container are handles for crane unloading. The container boiler room can be equipped with a boiler with a capacity of up to 200 kW.

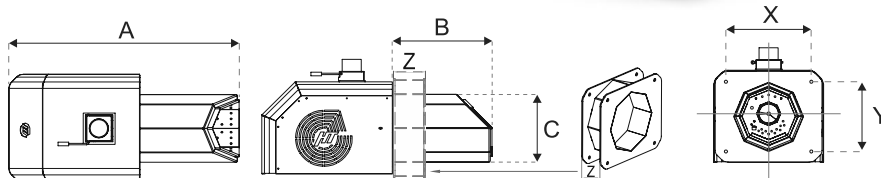
KNTK			
name	width	height	length
	cm	cm	cm
KNTK 4	2160	2490	4190
KNTK 5	2160	2490	5090
KNTK 6	2160	2490	6090



### HT PelHard

#### Pellet burner with automatic and feeder

Innovative burner HT PelHard is designed to burn pellets from wood. Modern construction is based on many years of experience and successfully solves the process of precise fuel combustion. Innovative solutions such as the unique shape of the combustion chamber and air distribution provide a wide range of usable power in the burner. Burner is equipped with the igniter and optics that fully controls the combustion process. The burner made of high quality materials in the form of heat resistant steel and stainless steel guarantees long-term work



### HT PelHard Plus

#### Pellet burner with automatic slag scraper, automatic and feeder

Burner HT PelHard Plus is an enriched version of the burner HT PelHard. Burner is equipped with the slag scraper, that is fitted to the burner shape. Slag scraper removes excess of the slag from the burner allowing re-firing of the burner, even with lower quality fuel, and enlarges the maintenance-free and long term work. Application of fully controlled mechanism of the feeder in the form of the actuator produced by the reputable company guarantees long-term faultless work.

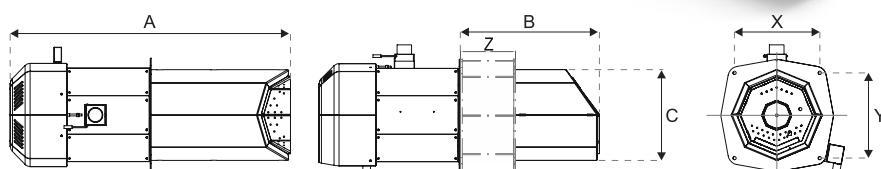
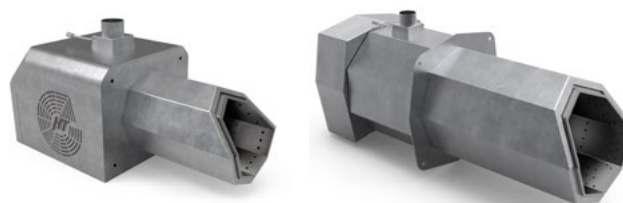


Table of dimensions - HT PelHard

Burner power	14kW	20kW	28kW	35kW	45kW	55kW	70kW	90kW	135kW	170kW	230kW	280kW
A - Total length [mm]	470	480	505	600	650	670	720	750	805	865	935	1036
B - Burner length [mm]	160	170	195	230	280	300	310	330	385	415	470	515
C - Burner height [mm]	133	150	170	182	194	211	219	232	279	303	325	336
X - Horizontal mounting distance [mm]	240	240	240	235	235	235	235	235	280	280	315	315
Y - Vertical mounting distance [mm]	185	185	185	209	220	220	220	220	280	280	315	315

#### Control

HT-tronic® 850

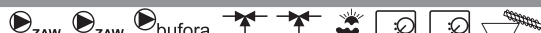


HT-tronic® 850 Touch \*



#### Automation enlarging modules

Module B



Module C



ecoSter 200

Remote control with room thermostat - HT-tronic® 850

ecoSter Touch

Touch display screen ( color ) remote control with room thermostat

ecoNET 300

Internet module

Lambda Probe



## Pellet boiler tanks



Tank SLIM



Tank 300



Tank BIG 400



Tank BIG 600



Tank BIG 1000

Pellet boiler tanks	Width	Depth	Height	Height with the open tank cover	Volume dm <sup>3</sup>
SLIM 100	200	600	1400	1580	100
Lux 400	1140	730	1400	1950	400
Universal BIG 400	1140	730	1400	1950	400
Universal BIG 600	1140	730	1650	2200	600
BIG 1000	1200	1200	1500	2100	1000
MAX 1500 - 20000	as needed - on request				

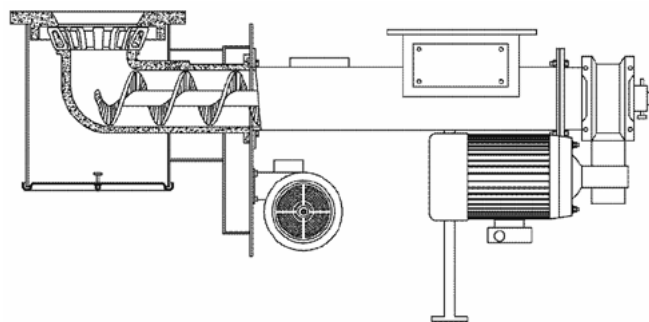
# Solid Fuel burners

The burners used in the **Heiztechnik** automatic boilers are characterized by very good combustion parameters, simple operation and reliable operation. Due to the type of fuel used, burners differ in construction and mode of operation.

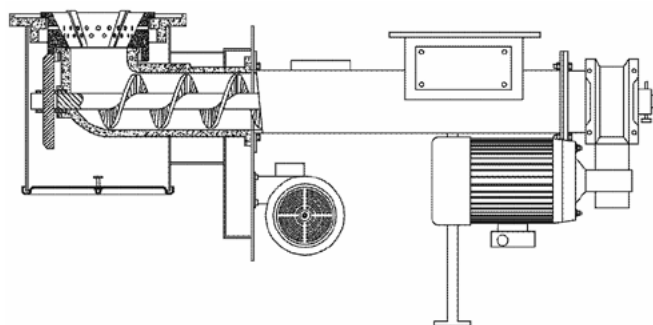
**The feeder with a PPS STANDARD** solid fuel burner with a capacity of 15-300 kW produced by Pancerpol is designed for burning coal, with a granulation of 5 - 10 mm, occurring under the trade name „eco-pea coal”.

The fuel is fed from the reservoir to the burner by means of a screw feeder, which is driven by a controlled geared motor. Combustion of fuel takes place in the burner. The elements of the furnace are made of refractory cast iron that guarantees durable and trouble-free operation.

The combustion process in order to obtain the desired power and optimal parameters is controlled by the appropriately programmed automation. The controlled operating parameters are the amount of fuel and air fed.

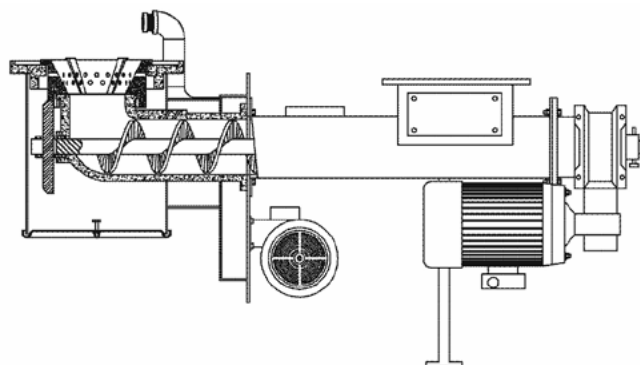


**The feeder with a solid-fuel type PPS DUO** burner of 17-150 kW produced by Pancerpol is designed for burning coal in the form of „eco-pea coal” as well as a mixture of „eco-pea coal” with dry coal dust. The extension of used fuels was achieved thanks to the use of the rotation function of one of the elements of the retort furnace, called the „gear ring”. The rotation of the furnace impedes the formation and caking of the slag generated in the combustion process. Rotation of the „garland” causes a stable air supply and an even distribution of fuel inside the furnace. Rotation of the furnace is carried out with a carrier placed at the end of the screw shaft, which engages with the „gear ring” to move it.



**The feeder with a PPS TRIO** type solid fuel burner with a capacity of 25-75 kW produced by Pancerpol is an expanded version of the PPS DUO rotary burner. It is intended for burning coal in the form of „eco-pea coal” as well as a mixture of „eco-pea coal” with dry coal dust. In addition, biomass such as pellets and grains can be burned in the burner. The burner is additionally equipped with aeration nozzles, through which, in the case of biomass combustion, we supply secondary air directly above the burner.

The burner has been equipped with a quenching system with a thermostatic valve - so-called firefighter.





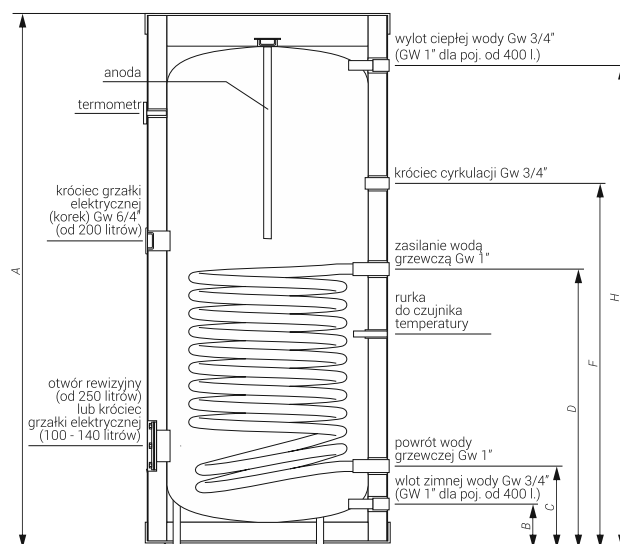
## Vertical Heat Exchanger HT SHW

Enameled exchanger with spiral coil for heating water using a central heating boiler.

### Additional equipment:

Electric heater assembly:  
GDV-1.4 kW / 230V; GDV-2.0 kW / 230V;  
GDV-3.0 kW / 230V; GDV-4.5 kW / 400V  
in capacities from 100 liters,  
and GRW-6.0 kW / 400V in capacities  
from 250 liters.

Nominal pressure (tank / coil)	0,6 / 1,0 MPa
Efficiency class energy (up to 500 liters)	<b>C</b>



### HT SHW - Basic dimensions

	Diameter(mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
HT SHW-100	500	1195	111	214	727	-	817	-	1064	-
HT SHW-120	500	1365	111	214	822	-	912	-	1235	-
HT SHW-140	500	1435	111	214	822	-	912	-	1305	1200
HT SHW-200	595	1610	127	258	813	-	913	-	1464	1334
HT SHW-250	695	1380	127	241	740	-	841	-	1230	1116
HT SHW-300	695	1615	127	241	852	-	953	-	1464	1350
HT SHW-400	755	1660	125	254	856	-	986	-	1490	1377
HT CWU-500	854	1800	136	266	990	-	1220	-	1584	1453

### HT SHW - Technical data

Product code	Capacity (l)	Coil surface (m <sup>2</sup> )	Coil power (kW)	Stagnation losses (W)	Anode model
HT SHW-100	105	0,8	34	65	AMW.660
HT SHW-120	124	1,0	41	72	AMW.800
HT SHW-140	134	1,0	41	67	AMW.800
HT SHW-200	204	1,1	40	86	AMW.M8.450
HT SHW-250	250	1,2	44	88	AMW.M8.450
HT SHW-300	300	1,5	53	94	AMW.M8.400
HT SHW-400	375	1,7	58	101	AMW.M8.500
HT SHW-500	465	2,25	85	82	AMW.M8.500

\* At the parameters 80/10 / 450C (heating water temperature / supply water temperature / usable water temperature), heating water flow through the coil 3,0 m<sup>3</sup> / h.

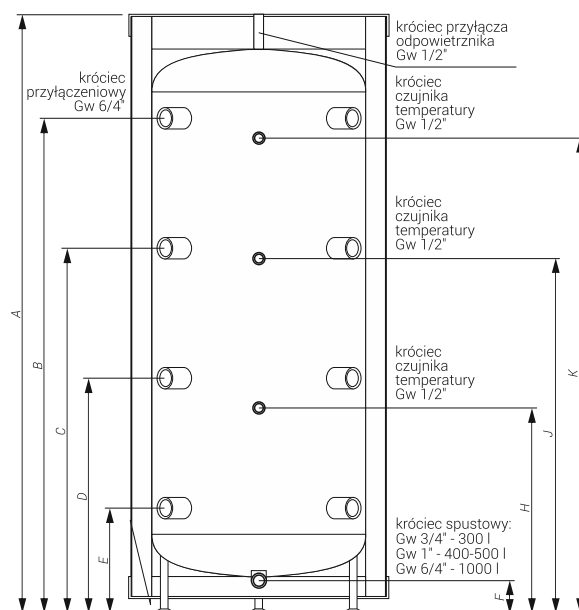
\*\* According to commission regulation (EU) 812/2013, 814/2013.



## Zbiornik buforowy HT BT

Zbiornik przeznaczony do magazynowania ciepłej wody z kotła CO oraz innych źródeł energii na cele grzewcze.

Nominal pressure (tank / coil)	0,6 / 1,0 MPa
Efficiency class energy (up to 500 liters)	<b>C</b>



### HT BT - Basic dimensions

	Diameter (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)
HT BT-500	854	1761	1446	1051	656	261	130	-	629	-	1064	1379
HT BT-1000	1054	2042	1681	1216	751	287	147	-	749	-	1185	1599

### HT BT - Technical data

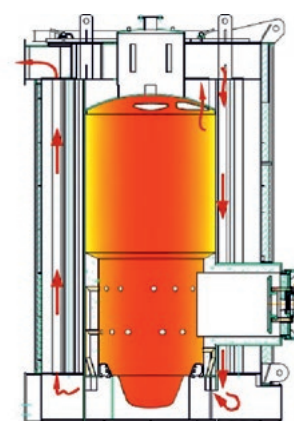
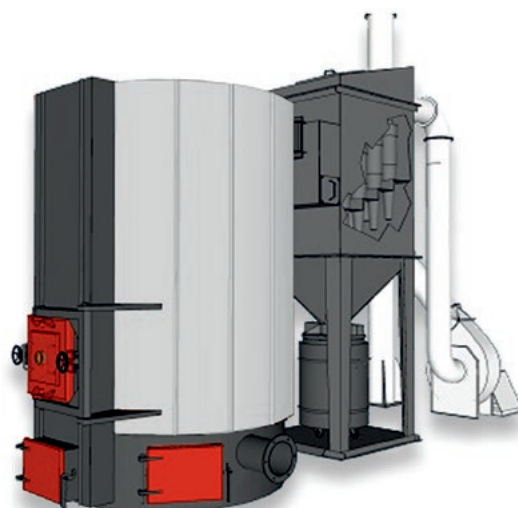
Product code	Capacity (l)	Stagnation losses * (W)
HT BT-500	485	83
HT BT-1000	995	-



# HT MegaBio by Ventil

Vertical three-pass boilers for automatic burning of biomass.

**HT MegaBio by Ventil** boiler is the latest product, which is a result of cooperation of companies **Heiztechnik** and **Ventil**. The boiler is equipped with a ceramic cylindrical combustion chamber. The chamber is equipped with three-point airflow for combustion, divided into primary and two secondary air streams with the possibility of automatic control in connection with a lambda probe. In addition, appropriate orientation of the secondary air inlets allowed for swirl the flame causing a better mixing of air with flammable gases. The use of ceramic combustion chamber allowed combustion of fuels with high humidity. The most important feature of boilers **HT MegaBio by Ventil** is a large surface of the heat exchanger related directly with a large water capacity of the boiler (boiler buffer). This provides a very stable water temperature and a high level of thermal safety of the system. Heat exchange takes place in a vertical Fire tube, steel heat exchanger surrounding the furnace and combustion chamber. A large amount of combustion tubes, forming a three-pass exhaust gas recirculation, allowed to obtain the appropriate size of the boiler heating surface, which then resulted in the achievement of high efficiency of the heat exchange. This design is the main advantage of boilers **HT MegaBio by Ventil**. It prevents dust deposition on the surface of the heat exchanger, which has a great importance, especially during the combustion of biomass. The result is an extended lifetime without intervention of staff, with no decrease in efficiency of due to contamination of the heat exchanger. In summary, the use of a vertical heat exchanger, combustion tubes, combined with a large heat exchanger surface and a large amount of water, provides the highest stability and thermal efficiency of the boiler as well as its long service life. The entire system is controlled by a central regulatory panel, collecting information from all the sensors, feeding and combustion system, boiler water, and optionally the entire heating system. This global approach to control of the heating system, allows us to reach a high level of performance, security as well as cost control provided by dynamically adjusting to the heating requirements mode of the heating system work. This fully automated software, minimizes the need of technical intervention and ensures reliable operation. In addition, the control system is accessible by all kinds of mobile devices with the Internet access.



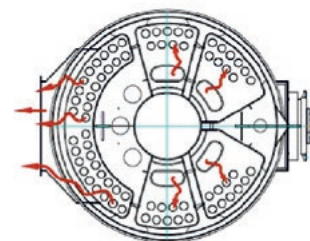
Primary fuel



woodchips



pellet



## HT MegaBio by Ventil Basic dimensions and technical data

Model	Nominal power	Height	Diameter	Boiler house (minimum height)	Heat transfer area	Mass	Water capacity	Maximum water temperature	Average thermal efficiency
	kW	cm	cm	m	m <sup>2</sup>	kg	L	°C	%
HT MBV 300	350	260	143	4,5	16	2 600	1 100	109	85 - 90
HT MBV 500	580	293	205	5	24	4 200	2 000	109	85 - 90
HT MBV 750	870	321	210	5	35	4 600	3 100	109	85 - 90
HT MBV 1000	1160	377	232	5,5	52	4 730	4 550	109	85 - 90
HT MBV 1250	1450	382	240	5,5	65	7 900	5 200	109	85 - 90
HT MBV 1500	1750	396	244	6	79	5 200	5 600	109	85 - 90
HT MBV 2000	2320	396	258	6	112	10 800	6 900	109	85 - 90
HT MBV 3000	3480	481	311	7	174	13 000	9 400	109	85 - 90
HT MBV 4000	4640	511	340	8	230	29 500	13 000	109	85 - 90
HT MBV 5000	5800	560	370	8	314	34 500	18 000	109	85 - 90
HT MBV 6500 - Information available on request									
HT MBV 7000 - Information available on request									

## Cooling Coil

In order to install the solid fuel boiler in the so-called closed system, it is necessary to execute a version of the boiler with cooling coil. The boiler executed in such method, in collaboration with SYR 3065 thermal protection, meets the requirements of PN-EN303-5 standard for installation of boilers in pressure systems. The coil serves to take over such amount of heat that the boiler is able to produce at zero heat distribution by the heating system, not causing a pressure increase in the heating system up to the dangerous state. The coil is submerged in boiler water.



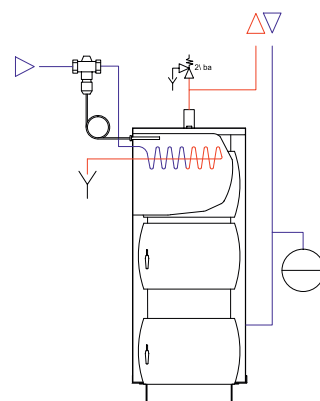
### SYR 3065



3065 thermal protection manufactured by SYR company is a device which allows to connect the boiler to a system protected with a safety valve, in accordance with the applicable regulations.

The valve is intended for temperature protection of the boiler during uncontrolled overheating thereof. The connection scheme and the principle of operation are presented on the figure. The valve, in combination with the cooling coil and the efficient water supply system constitutes a very good protection against boiling of the water in the boiler. Upon temperature increase to approximately 950C it must open and then cold water flowing through the coil must take over the heat contained in the excessively heated boiler water. The water from the coil is drained to the sewer system.

The valve has 3/4" connections. The capillary should be screwed into a prepared internal 3/4" threaded opening.



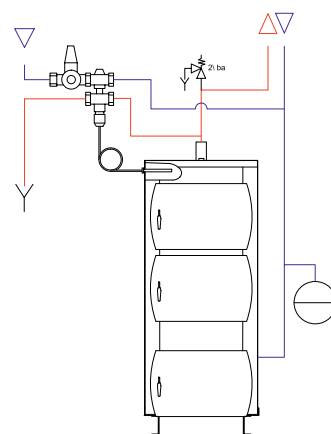
### SYR 5067
























Zabezpieczenie termiczne **SYR 5067** jest to 5067 thermal protection manufactured by SYR company is a device which allows to connect the boiler to a system protected with a safety valve, in accordance with the applicable regulations.

The valve is intended for temperature protection of the boiler during uncontrolled overheating thereof. The connection scheme and the principle of operation are presented on the figure. The valve is executed in two-way version; it does not have to be connected to any additional device, and it is only connected with boiler supply and return. Its aim is, upon temperature increase to approximately 940C, to first open the filling valve connected with the pressure reducer, and then, upon temperature increase to approximately 970C, to open the drain valve, draining the hot water to the sewer system. While flowing through the boiler, cold water is to cool down the excessively heated boiler exchanger. For correct operation of the valve, it is necessary to protect the heating system with a 2 bar safety valve.

The valve has 3/4" connections. The capillary should be screwed into a prepared internal 3/4" threaded opening.



# Legend

	Bolier pump (inducted successively)		Boiler operation in Fuzzy Logic mode
	Central heating pump		Boiler operation in HT Logic mode
	Hot water pump		Boiler firing program
	Mixing valve pump		Automatic boiler firing
	Circulating circulation pump		Internet module
	Buffer pump		Colorful screen display
	Control of the mixing valve actuator		Touch screen display
	Control of valve actuator in weather mode		GSM module
	Thermostatic line / room thermostat		Lambda probe
	Control of additional fuel feeder		Modulated boiler operation
	Energy class		

## Realization option

1. Boilers can be equipped with a cooling coil.
2. Feeder boilers can be equipped with an automatic ashing removal system.
3. Feeder boilers can be equipped with pneumatic cleaning system of the exchanger.
4. Feeder and pellet boilers can be equipped with an enlarged fuel tank.
5. Feeder boilers can be equipped with GPS module.
6. Pellet boilers can be equipped with the Lambda probe.
7. Boiler with the auger feeder can be equipped with the feeder rotation control panel.
8. Pellet boilers can be equipped with the self cleaning feeder.
9. Pellet Burners can be equipped with the pneumatic cleaning system



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Dystrybutor



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