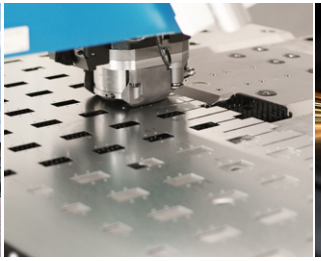
kamen

Product Catalogue 2021

Kamen About Company

The Kamen company was founded in 1990. Initially, it functioned as a small workshop of several people. After more than 30 years of presence on the market, it has become a company employing about one hundred qualified employees. The company specializes in the production of high-quality solid fuel boilers, which have gained recognition among many domestic and foreign customers. This is evidenced by numerous awards, incl. The Gold Medal of the International Construction Fair in Rzeszów for functionality, reliability and aesthetics, or the Podkarpacie Economic Award in the category of the best products.
All boilers manufactured by our company have the required approvals and certificates, guaranteeing high thermal efficiency, ecological combustion and safe operation.


We also have a modern design office employing high-class specialists who work every day to improve and modernize our products. They have at their disposal a modern research and development laboratory where our boilers are tested on an ongoing basis.
The exceptional durability of welded elements is achieved thanks to qualified welders and welding robots, the use of which in the production process increases production efficiency, improves the quality of welded joints and repeatability of welds, etc. All boiler bodies are subjected to rigorous pressure tests. Constant quality control of the welds and the tightness of the exchangers guarantees the reliability and long life of the boilers.
The company has a modern machine park that allows to provide the following services:

- sheet metal bending with Fiber and CO2 laser
- sheet metal bending with CNC press brakes
- punching with hammer cutters
- coiling of pipes and cones
- production of tanks
- locksmith and welding services

It feels **good** to come back
to a **warm** house

5th Class and Ecodesign - What is it?

Boilers that meet the 5th class and Ecodesign requirements are devices of the highest class in terms of ecology of combustion and in terms of efficiency. These boilers are very often covered by co-financing programs for the purchase of a boiler in communes, poviats and countries. Confirmation of compliance with the requirements of the 5th class or Ecodesign is a certificate issued by an accredited research laboratory.

What is a 5th class boiler?

Class 5 is the highest class of the boiler, which has the most stringent requirements in terms of both emissions and device efficiency. A boiler that meets the requirements of the 5th class guarantees low dust, CO and organic carbon emissions to the atmosphere and the highest efficiency, which gives savings in the form of lower fuel consumption.

What is Ecodesign?

Ecodesign is a concept that defines the Directive of the European Parliament 2009/125/EC on energy and emission requirements for energy-related products. EU Commission Regulation 2015/1189 of April 28, 2015 regulating these issues in the field of central heating boilers The regulation applies throughout Europe from the beginning of 2020. Ecodesign requires a modern boiler to ensure high efficiency and low pollution emission during the entire period of use.
The idea of this regulation is based on the problem that the boiler works only for a short period of time during the heating season at nominal capacity, and the remaining period is the time of operation with reduced power, i.e. in the sustain mode (this applies especially to coal-fired boilers) and standstill. The exhaust emission values when reaching the minimum power are then higher compared to the operation at maximum power. The implementing regulation of the Ecodesign Directive organizes this issue by introducing limit values for the emission of dust, organic gaseous compounds (OGC), carbon monoxide and nitrogen oxides (NOx) at both maximum and minimum power.
Ecodesign also introduces the term of seasonal energy efficiency.
To put it simply: Energy efficiency = boiler efficiency less electricity consumption.

From April 1, 2017, all boilers on the market must have labels specifying the energy class of the device.

Kamen Perfekt Bio

Automatic pellet boiler with a built-in fuel tank

- 5th class according to PN-EN 303-5:2012
- Meets Ecodesign requirements
- Self-cleaning pellet burner
- Automatic igniter
- High efficiency

7 Up to 7-year warranty

6 mm Certified boiler steel

Built-in fuel tank

Modern electronic controller

Ecological boiler

Possibility of heating DHW

Support for 4 pumps

Support for mixing valve

Adjustable feet

POWER RANGE

11 - 20 kW

BASIC EQUIPMENT

- Self-cleaning pellet burner Venma Comfort
- Touch controller Tech ST-976
- System of mechanical cleaning of the boiler exchanger
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Pellet 6 - 8 mm

ADDITIONAL EQUIPMENT (extra charge)

- Room regulator
- Ethernet module

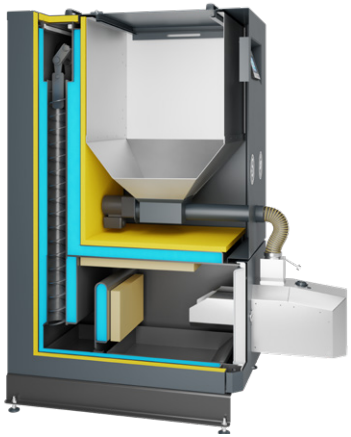
ADDITIONAL OPTIONS

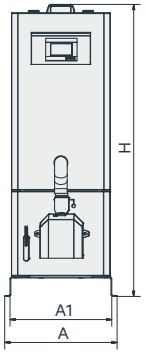
- The door opening to the left side

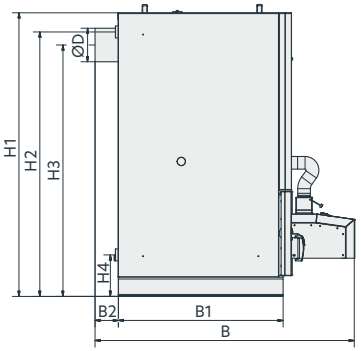
WARRANTY

- 4 years for tightness of the heat exchanger **extendable to 7 years** (more information on page 16)
- 2 years for installed components

Technical DATA



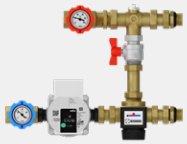




Extend the warranty to 7 years

Upon purchase and proper installation of an automatic boiler with the **Kamen Control** system (pump group protecting the boiler return), the warranty for the tightness of the boiler is extended to **7 years**.

More details on page 16.



Parameter	Unit	Kamen Perfekt Bio		
Type	-	10	15	20
Power range	kW	4 - 11	5 - 15	6 - 20
Heating surface	m2	1,3	1,8	2,2
Class according to PN-EN 303-5: 2012	-	5	5	5
Meets Ecodesign requirements	-	Yes	Yes	Yes
Energy efficiency class	-	A+	A+	A+
Maximum width (A)	mm	540	610	680
Boiler width (A1)	mm	475	545	615
Maximum length (B)	mm	1240	1240	1240
Length of the boiler casing with the door (B1)	mm	830	830	830
Length of the flue (B2)	mm	105	105	105
Maximum height (H)*	mm	1395	1395	1395
Boiler height (H1)*	mm	1355	1355	1355
Height of the water supply (H2)*	mm	1265	1265	1265
Height to the axis of the flue (H3)*	mm	1200	1200	1200
Diameter of the flue (ØD)	Ø mm	Ø158	Ø158	Ø158
Water return height (H4)*	mm	200	200	200
Fuel tank capacity	l kg	127 ~80	145 ~95	164 ~105
Boiler weight	kg	280	320	360
Water capacity	l	76	87	94
Thermal efficiency	%		~ 90,7 - 90,8	
Maximum working pressure	bar		1,8	
Supply water temperature (min-max)	°C		55 - 90	
Supply and return diameter	cal		G 1 1/2	
Electric supply	V/Hz		~230 / 50	
The required exhaust draft	Pa	20	22	24
The minimum height of the chimney	m	6	7	8
The minimum cross-section of the chimney	mm cm x cm	Ø170 15 x 15	Ø190 17 x 17	Ø200 18 x 18
Area of heated rooms**	m^2	up to 110	110 - 150	150 - 200
Area of heated rooms (well-insulated houses)***	m^2	100 - 140	140 - 200	200 - 260

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen Pellet Kompakt

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

5th class according to PN-EN 303-5:2012

Meets Ecodesign requirements

Self-cleaning pellet burner

Automatic igniter

High efficiency up to 93%

7 Up to 7-year warranty

mm **6** Certified boiler steel

Ecological boiler

Modern electronic controller

Possibility of heating DHW

Support for mixing valve

Chimney draft regulation

Support for 4 pumps

Adjustable feet

POWER RANGE

17 - 50 kW

BASIC EQUIPMENT

- Self-cleaning pellet burner Venma Comfort
- Touch controller Tech ST-976
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Pellet 6 - 8 mm

ADDITIONAL EQUIPMENT (extra charge)

- Cooling coil
- Room regulator
- Ethernet module

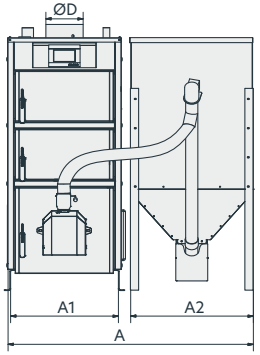
ADDITIONAL OPTIONS

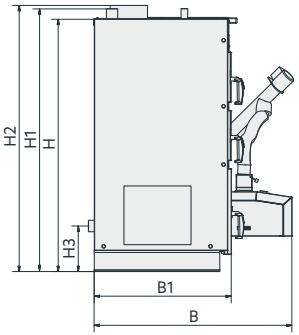
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

WARRANTY

- 4 years for tightness of the heat exchanger **extendable to 7 years** (more information on page 16)
- 2 years for installed components

Technical **DATA**

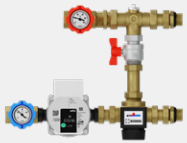




Extend the warranty to 7 years

Upon purchase and proper installation of an automatic boiler with the **Kamen Control** system (pump group protecting the boiler return), the warranty for the tightness of the boiler is extended to **7 years**.

More details on page 16.



Parameter	Unit	Kamen Pellet Kompakt				
Type	-	17	20	25	34	50
Power range	kW	5 - 17	7 - 20	8 - 25	10 - 34	15 - 50
Heating surface	m²	2.0	2.5	3.0	3.5	5.0
Class according to PN-EN 303-5: 2012	-	5	5	5	5	5
Meets Ecodesign requirements	-	Yes	Yes	Yes	Yes	Yes
Energy efficiency class	-	A+	A+	A+	A+	A+
Maximum width (A)	mm	1145	1195	1265	1265	1400
Boiler width (A1)	mm	475	545	615	615	745
Fuel tank width (A2)	mm	600	600	600	600	600
Maximum depth of the boiler (B)	mm	980	980	980	1080	1340
Boiler casing depth with door (B1)	mm	655	655	655	755	855
Depth of the fuel tank	mm	600	600	600	600	600
Boiler height (H)*	mm	1210	1210	1210	1210	1620
Height of the water supply (H1)*	mm	1230	1230	1230	1230	1640
Height to the top of the flue (H2)*	mm	1315	1315	1315	1315	1725
Diameter of the flue (ØD)	Ø mm	Ø159	Ø178	Ø178	Ø178	Ø194
Water return height (H3)*	mm	215	215	215	215	225
Fuel tank capacity	l kg	260 ~160	260 ~160	260 ~160	260 ~160	500 ~300
Boiler weight	kg	435	485	535	595	760
Water capacity	l	79	86	96	115	189
Thermal efficiency	%	90,6 - 92,7				
Maximum working pressure	bar	1.8				
Supply water temperature (min-max)	°C	55 - 90				
Supply and return diameter	cal	G 1 1/2				G 2 1/2
Electric supply	V/Hz	~230 / 50				
The required exhaust draft	Pa	22	24	26	28	33
The minimum height of the chimney	m	7	7	8	8	10
The minimum cross-section of the chimney	mm cm x cm	Ø160 15 x 15	Ø180 17 x 17	Ø180 17 x 17	Ø200 19 x 19	Ø260 23 x 23
Area of heated rooms**	m²	100 - 170	170 - 200	200 - 250	250 - 340	340 - 500
Area of heated rooms (well-insulated houses)***	m²	160 - 220	220 - 260	260 - 330	330 - 450	450 - 660

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen Pellet Kompakt LUX

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

- 5th class according to PN-EN 303-5:2012
- Meets Ecodesign requirements
- Self-cleaning pellet burner
- Automatic igniter
- High efficiency up to 93%

7 Up to 7-year warranty

6 mm Certified boiler steel

Ecological boiler

Modern electronic controller

Possibility of heating DHW

Support for mixing valve

Chimney draft regulation

Support for 4 pumps

Adjustable feet

POWER RANGE

12 - 25 kW

BASIC EQUIPMENT

- Self-cleaning pellet burner Venma Comfort umieszczony z boku kotła
- Touch controller Tech ST-976
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Pellet 6 - 8 mm

ADDITIONAL EQUIPMENT

(extra charge)

- Cooling coil
- Room regulator
- Ethernet module

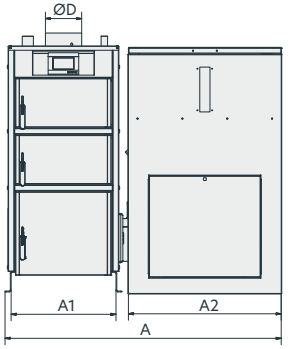
ADDITIONAL OPTIONS

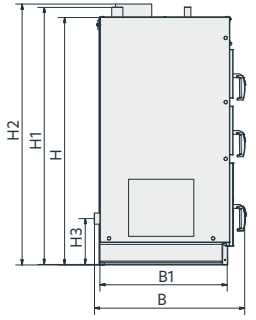
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

WARRANTY

- 4 years for tightness of the heat exchanger **extendable to 7 years** (more information on page 16)
- 2 years for installed components

Technical **DATA**

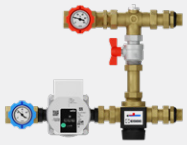




Extend the warranty to 7 years

Upon purchase and proper installation of an automatic boiler with the **Kamen Control** system (pump group protecting the boiler return), the warranty for the tightness of the boiler is extended to **7 years**.

More details on page 16.



Parameter	Unit	Pellet Kompakt Lux			
Type	-	12	17	20	25
Power range	kW	4 - 12	5 - 17	7 - 20	8 - 25
Heating surface	m²	1.5	2.0	2.5	3.0
Class according to PN-EN 303-5: 2012	-	5	5	5	5
Meets Ecodesign requirements	-	Yes	Yes	Yes	Yes
Energy efficiency class	-	A+	A+	A+	A+
Maximum width (A)	mm	1280	1280	1350	1420
Boiler width (A1)	mm	495	495	565	635
Fuel tank width (A2)	mm	755	755	755	755
Maximum depth of the boiler (B)	mm	670	750	750	750
Boiler casing depth with door (B1)	mm	575	655	655	655
Depth of the fuel tank	mm	600	600	600	600
Boiler height (H)*	mm	1210	1210	1210	1210
Height of the water supply (H1)*	mm	1230	1230	1230	1230
Height to the top of the flue (H2)*	mm	1315	1315	1315	1315
Diameter of the flue (ΦD)	Ø mm	Ø159	Ø159	Ø178	Ø178
Water return height (H3)*	mm	215	215	215	215
Fuel tank capacity	l kg	280 ~170	280 ~170	280 ~170	280 ~170
Boiler weight	kg	380	435	485	535
Water capacity	l	69	76	83	93
Thermal efficiency	%	90,6 - 92,7			
Maximum working pressure	bar	1.8			
Supply water temperature (min-max)	°C	55 - 90			
Supply and return diameter	cal	G 1 1/2			
Electric supply	V/Hz	~230 / 50			
The required exhaust draft	Pa	20	22	24	26
The minimum height of the chimney	m	6	7	7	8
The minimum cross-section of the chimney	mm cm x cm	Ø160 15 x 15	Ø160 15 x 15	Ø180 17 x 17	Ø180 17 x 17
Area of heated rooms**	m²	up to 120	100 - 170	170 - 200	200 - 250
Area of heated rooms (well-insulated houses)***	m²	up to 160	160 - 220	220 - 260	260 - 330

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen Multi K5

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

5th class according to PN-EN 303-5:2012

Meets Ecodesign requirements

Highly efficient burner

Capacious fuel tank

High efficiency up to 92,5%

7 Up to 7-year warranty

6 mm Certified boiler steel

Ecological boiler

Modern electronic controller

Support for 4 pumps

Support for mixing valve

Chimney draft regulation

Quiet and reliable fan

Adjustable feet

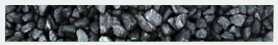
POWER RANGE

10 - 48 kW

BASIC EQUIPMENT

- ST-480K controller
- WPA06 fan
- Ekoenergia cast iron feeder (10 - 32 kW)
- Steel feeder (48 kW)
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL



Coal of an assortment 8-30 mm

ADDITIONAL EQUIPMENT

(extra charge)

- Bruli controller
- Cooling coil

ADDITIONAL OPTIONS

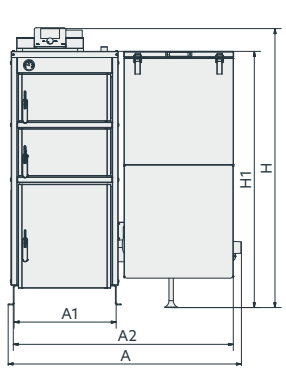
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

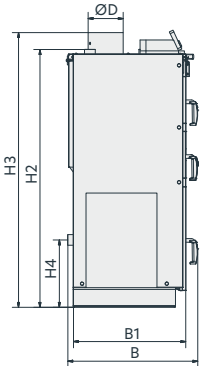
WARRANTY

- 4 years for tightness of the heat exchanger **extendable to 7 years** (more information on page 16)
- 2 years for installed components

Technical **DATA**

10 kW, 15 kW, 20 kW, 26 kW, 32 kW
(Ekoenergia cast iron feeder)





48 kW
(steel feeder)

Extend the warranty to 7 years

Upon purchase and proper installation of an automatic boiler with the **Kamen Control** system (pump group protecting the boiler return), the warranty for the tightness of the boiler is extended to **7 years**.

More details on page 16.

Parameter	Unit	Kamen Multi K5					
Type	-	10	15	20	26	32	50
Power range	kW	3 - 10	5 - 15	6 - 20	8 - 26	10 - 32	15 - 48
Heating surface	m²	1.4	1.8	2.4	2.9	3.5	5.5
Class according to PN-EN 303-5: 2012	-	5	5	5	5	5	5
Meets Ecodesign requirements	-	Yes	Yes	Yes	Yes	Yes	Yes
Energy efficiency class	-	C	B	B	B	B	C
Maximum width (A)	mm	1150	1090	1200	1200	1250	1550
Boiler width (A1)	mm	475	475	545	545	615	745
Boiler with the tank width (A2)	mm	1090	1090	1125	1125	1200	1530
Maximum depth of the boiler (B)	mm	635	670	670	750	750	1050
Boiler casing depth with door (B1)	mm	540	575	575	655	655	955
Maximum height (H)*	mm	1375	1415	1415	1415	1415	1745
Boiler height (H1)*	mm	1250	1290	1290	1290	1290	1620
Height of the water supply (H2)*	mm	1270	1310	1310	1310	1310	1640
Height to the top of the flue (H3)*	mm	1355	1395	1395	1395	1395	1725
Diameter of the flue (ØD)	mm	Ø159	Ø159	Ø178	Ø178	Ø178	Ø194
Water return height (H4)*	mm	345	345	345	345	345	345
Fuel tank capacity	kg	~180	~180	~180	~180	~220	~300
Boiler weight	kg	400	480	530	570	620	780
Water capacity	L	58	65	77	95	107	188
Thermal efficiency	%	~ 89,3 - 92,5					
Maximum working pressure	bar	1.8					
Supply water temperature (min./max.)	°C	55 - 90					
Supply and return diameter	cal	G 1 1/2					G 2 1/2
Electric supply	V/Hz	~230 / 50					
The required exhaust draft	Pa	20	20	22	24	27	33
The minimum height of the chimney	m	6	6	7	8	8	10
The minimum cross-section of the chimney	Ømm cm x cm	Ø170 15 x 15	Ø170 15 x 15	Ø190 17 x 17	Ø200 18 x 18	Ø220 20 x 20	Ø260 23 x 23
Area of heated rooms**	m²	up to 100	100 - 150	150 - 200	200 - 260	260 - 320	320 - 500
Area of heated rooms (well-insulated houses)***	m²	up to 130	130 - 200	200 - 260	260 - 340	340 - 420	420 - 660

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen WDS

Ecological 5th class boiler of lower combustion

5th class according to PN-EN 303-5:2012

Meets Ecodesign requirements

Large combustion chamber

Compact dimensions

High efficiency reaching 90%

4 Do 4 lat gwarancji

6 mm Certified boiler steel

The use of a ceramic nozzle

High burning stability

Ecological boiler

Energy-saving boiler

Chimney draft regulation

Adjustable feet

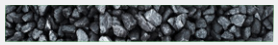
POWER RANGE

10 - 20 kW

BASIC EQUIPMENT

- Cleaning kit
- Adjustable feet

FUEL



Coal of an assortment 25-80 mm

ADDITIONAL EQUIPMENT

(extra charge)

- Cooling coil

ADDITIONAL OPTIONS

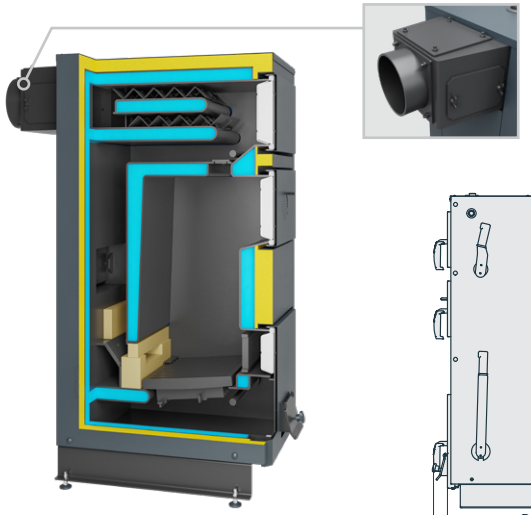
- The door opening to the left side
- Flue directed to the side or up (mounted on 4 bolts)

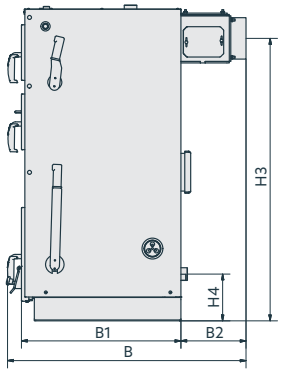
WARRANTY

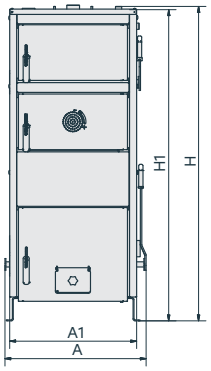
- 4 years for tightness of the heat exchanger

The boiler can only operate at nominal power and with the use of a heat buffer (accumulation tank).

Technical DATA







Parameter	Unit	Kamen WDS		
Type	-	10	15	20
Rated thermal power	kW	10	15	20
Heating surface	m²	1,1	1,7	2,2
Class according to PN-EN 303-5: 2012	-	5	5	5
Meets Ecodesign requirements	-	Yes	Yes	Yes
Energy efficiency class	-	B	B	B
Minimum safe capacity of the accumulation tank****	l	500	1000	1500
Maximum width (A)	mm	500	530	600
Boiler width (A1)	mm	435	475	545
Maximum depth (B)	mm	850	1000	1000
Boiler casing depth with door (B1)	mm	590	680	680
Length of the flue (B2)	mm	250	250	250
Maximum height (H)*	mm	1190	1360	1360
Boiler height (H1)*	mm	1170	1340	1340
Height of the water supply (H)*	mm	1190	1360	1360
Height to the axis of the flue (H3)*	mm	1045	1215	1215
Diameter of the flue (ØD)	Ø mm	158	178	178
Water return height (H4)*	mm	200	200	200
Width of the charging door frame	mm	275	310	380
Height of the charging door frame	mm	210	210	210
The capacity of the charging chamber	l kg	22 ~16	44 ~30	54 ~37
Loading chamber width	mm	263	298	368
Loading chamber depth	mm	230	335	335
Maximum height of the loading chamber	mm	510	655	655
Boiler weight	kg	260	330	360
Water capacity	l	62	93	102
Thermal efficiency	%	89,2	89,1	89,3
Maximum working pressure	bar		1.8	
Supply water temperature (min-max)	°C		55-90	
Supply and return diameter	cal		G 6/4	
Electric supply	V/Hz		n/d	
The required exhaust draft	Pa	18	20	25
The minimum height of the chimney	m	6	7	8
The minimum cross-section of the chimney	mm cm x cm	Ø160 15x15	Ø180 16 x 16	Ø200 18 x 18
Area of heated rooms**	m²	60 - 100	100 - 150	150 - 200
Area of heated rooms (well-insulated houses)***	m²	100 - 150	150 - 200	200 - 260

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100W / m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75W / m²
**** min. safe capacity of the accumulation tank calculated in accordance with PN-EN 303-5: 2012 for constant flammability TB = 5h.

Kamen Multi Plus Agro

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

- Automatic or manual operation
- Convenient charging
- Highly efficient burner
- Capacious fuel tank
- High efficiency up to 92,5%

7 Up to 7-year warranty

6 mm Certified boiler steel

Ecological boiler

Modern electronic controller

Support for 4 pumps

Support for mixing valve

Chimney draft regulation

Quiet and reliable fan

Adjustable feet

POWER RANGE

14 - 75 kW

BASIC EQUIPMENT

- ST-480K controller
- WPA06 fan
- Ekoenergia cast iron feeder
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Non-wood biomass in the form of briquettes made of straw, hay, miscanthus

ADDITIONAL EQUIPMENT

(extra charge)

- Bruli controller
- Cooling coil

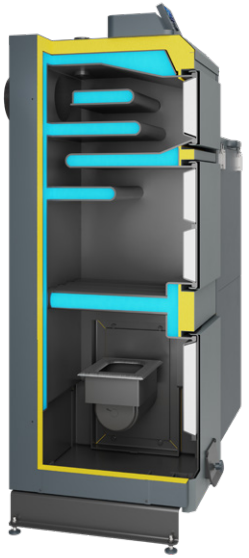
ADDITIONAL OPTIONS

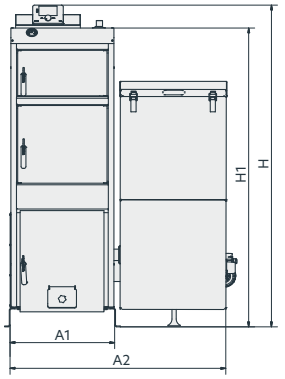
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

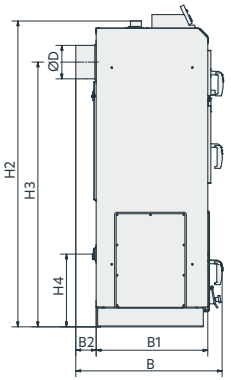
WARRANTY

- 4 years for tightness of the heat exchanger
- 2 years for installed components

Technical DATA







Parameter	Unit	Kamen Multi Plus Agro						
Rated output	kW	14 kW	20 kW	26 kW	32 kW	40 kW	50 kW	75 kW
Heating surface	m2	1.8	2.4	2.9	3.5	4.3	5.2	7.5
Maximum width (A)	mm	1155	1200	1200	1200	1280	1550	1700
Boiler width (A1)	mm	475	545	545	545	615	750	840
Width of the boiler supply (A2)	mm	1080	1125	1125	1125	1250	1540	1680
Maximum length (B)	mm	705	740	820	920	970	1025	1235
Length of the boiler casing with the door (B1)	mm	535	570	650	750	750	820	1030
Flue length (B2)	mm	105	105	105	105	140	140	140
Maximum height (H) *	mm	1690	1690	1690	1690	1715	1885	1995
Boiler height (H1) *	mm	1565	1565	1565	1565	1590	1760	1865
Amount of power (H2) *	mm	1585	1585	1585	1585	1610	1790	1895
Height of the axis of the flue (H3) *	mm	1390	1390	1390	1390	1400	1545	1620
Flue diameter (ØD)	Ø mm	Ø159	Ø178	Ø178	Ø178	Ø198	Ø228	Ø248
Water return height (H4) *	mm	360	360	360	360	360	370	370
Width of the combustion chamber	mm	298	368	368	368	438	560	650
Depth of the combustion chamber	mm	340	375	455	555	555	620	800
Height of the combustion chamber	mm	290	290	290	290	290	290	290
Frame of the charging door	cm x cm	31x38	38x38	38x38	38x38	45x38	45x38	45x38
Fuel tank capacity	kg	~180	~180	~180	~180	~220	~300	~400
Boiler weight	kg	490	540	570	650	700	780	900
Water capacity	l	72	83	99	111	124	155	195
Thermal efficiency	%	~ 83 - 85						
Maximum operating pressure	bar	1.8						
Flow temperature (min-max)	°C	55 - 90						
The diameter of the supply and return	cal	G 6/4				G 2		
Power supply	V/Hz	~230 / 50						
Required exhaust draft	Pa	20	22	24	27	30	33	36
Minimum chimney height	m	6	7	8	8	9	10	11
Minimum cross-section of the chimney	mm cm x cm	Ø170 15x15	Ø190 17x17	Ø200 18x18	Ø220 20x20	Ø250 22x22	Ø280 25x25	Ø280 25x25
Area of heated rooms **	m2	do 140	140-200	200-260	260-320	320-400	400-500	500-750
Area of heated rooms (well insulated houses) ***	m2	do 185	185-265	265-345	345-425	425-530	530-665	665-1000

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen Multi Agro

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

- Additional cast iron grate
- Convenient charging
- Highly efficient burner
- Capacious fuel tank
- High efficiency up to 92,5%

7 Up to 7-year warranty

6 mm Certified boiler steel

Ecological boiler

Modern electronic controller

Support for 4 pumps

Support for mixing valve

Chimney draft regulation

Quiet and reliable fan

Adjustable feet

POWER RANGE

10 - 75 kW

BASIC EQUIPMENT

- ST-480K controller
- WPA06 fan
- Ekoenergia cast iron feeder
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Non-wood biomass in the form of briquettes made of straw, hay, miscanthus

ADDITIONAL EQUIPMENT

(extra charge)

- Bruli controller
- Cooling coil

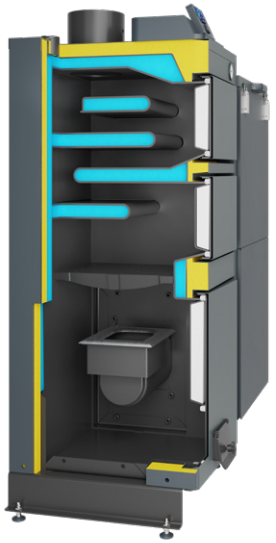
ADDITIONAL OPTIONS

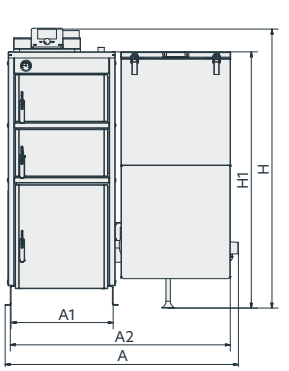
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

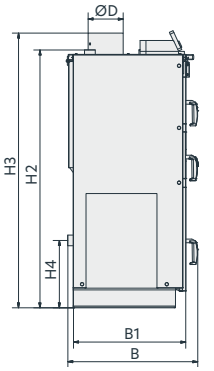
WARRANTY

- 4 years for tightness of the heat exchanger
- 2 years for installed components

Technical **DATA**







Parameter	Unit	Kamen Multi Agro							
Rated output	kW	10 kW	14 kW	20 kW	26 kW	32 kW	40 kW	50 kW	75 kW
Heating surface	m2	1.4	1.8	2.4	2.9	3.5	4.3	5.2	7.5
Maximum width (A)	mm	1055	1055	1200	1200	1250	1300	1550	1700
Boiler width (A1)	mm	475	475	545	545	615	615	750	850
Width of the boiler supply (A2)	mm	1080	1080	1125	1125	1200	1250	1580	1700
Maximum length (B)	mm	710	745	745	840	840	1025	1060	1240
Length of the boiler casing with the door (B1)	mm	535	570	570	650	650	815	820	1000
Flue length (B2)	mm	105	105	105	105	105	140	140	140
Maximum height (H) *	mm	1405	1475	1475	1475	1475	1495	1745	1765
Boiler height (H1) *	mm	1280	1350	1350	1350	1350	1370	1620	1640
Amount of power (H2) *	mm	1300	1370	1370	1370	1370	1390	1640	1660
Height of the axis of the flue (H3) *	mm	1110	1180	1180	1180	1180	1190	1400	1410
Flue diameter (ØD)	Ø mm	Ø159	Ø159	Ø178	Ø178	Ø178	Ø198	Ø228	Ø248
Water return height (H4) *	mm	360	360	360	360	360	360	370	370
Width of the combustion chamber	mm	298	298	368	368	438	438	560	650
Depth of the combustion chamber	mm	340	375	375	455	455	620	620	800
Height of the combustion chamber	mm	220	185	185	185	185	185	250	250
Frame of the charging door	cm x cm	31x21	31x21	38x21	38z21	38x21	38x21	38x25	38x25
Fuel tank capacity	kg	~180	~180	~180	~180	~180	~220	~300	~400
Boiler weight	kg	400	440	490	540	590	640	720	850
Water capacity	l	54	65	77	95	107	120	148	188
Thermal efficiaency	%	~ 83 - 85							
Maximum operating pressure	bar	1.8							
Flow temperature (min-max)	°C	55 - 90							
The diameter of the supply and return	cal	G 6/4					G 2		
Power supply	V/Hz	~230 / 50							
Required exhaust draft	Pa	20	20	22	24	27	30	33	36
Minimum chimney height	m	6	6	7	8	8	9	10	11
Minimum cross-section of the chimney	mm cm x cm	Ø170 15x15	Ø170 15x15	Ø190 17x17	Ø200 18x18	Ø220 20x20	Ø250 22x22	Ø280 25x25	Ø280 25x25
Area of heated rooms **	m2	do 100	100-140	140-200	200-260	260-320	320-400	400-500	500-750
Area of heated rooms (well insulated houses) ***	m2	do 130	130-185	185-265	265-345	345-425	425-530	530-665	665-1000

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen Pellet Plus

Ecological boiler with automatic fuel feeding

ON REQUEST:
Flue to the rear

- Additional cast iron grate
- Capacious fuel tank
- Self-cleaning pellet burner
- Automatic igniter
- High efficiency up to 93%

7 Up to 7-year warranty

6 mm Certified boiler steel

Ecological boiler

Modern electronic controller

Possibility of heating DHW

Support for mixing valve

Chimney draft regulation

Support for 4 pumps

Adjustable feet

POWER RANGE

17 - 50 kW

BASIC EQUIPMENT

- Self-cleaning pellet burner Venma Comfort
- Touch controller Tech ST-976
- Cleaning kit
- Ash drawer
- Adjustable feet

FUEL

Pellet 6 - 8 mm

ADDITIONAL EQUIPMENT

(extra charge)

- Cooling coil
- Room regulator
- Ethernet module

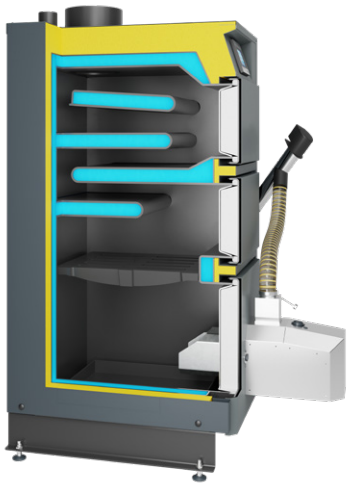
ADDITIONAL OPTIONS

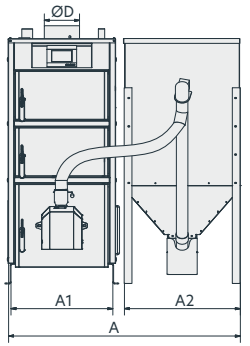
- Fuel tank on the right or left side of the boiler
- The door opening to the left side
- The flue directed to the rear

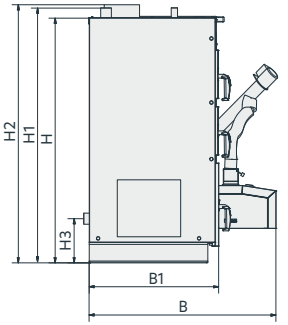
WARRANTY

- 4 years for tightness of the heat exchanger
- 2 years for installed components

Technical DATA







Parameter	Unit	Kamen Pellet Plus				
Type	-	17	20	25	34	50
Power range	kW	5 - 17	7 - 20	8 - 25	10 - 34	15 - 50
Heating surface	m²	2.0	2.5	3.0	3.5	5.0
Energy efficiency class	-	A+	A+	A+	A+	A+
Maximum width (A)	mm	1145	1195	1265	1265	1400
Boiler width (A1)	mm	475	545	615	615	745
Fuel tank width (A2)	mm	600	600	600	600	600
Maximum depth of the boiler (B)	mm	980	980	980	1080	1340
Boiler casing depth with door (B1)	mm	655	655	655	755	855
Depth of the fuel tank	mm	600	600	600	600	600
Boiler height (H)*	mm	1210	1210	1210	1210	1620
Height of the water supply (H1)*	mm	1230	1230	1230	1230	1640
Height to the top of the flue (H2)*	mm	1315	1315	1315	1315	1725
Diameter of the flue (ØD)	Ø mm	Ø159	Ø178	Ø178	Ø178	Ø194
Water return height (H3)*	mm	215	215	215	215	225
Fuel tank capacity	l kg	300 ~185	300 ~185	300 ~185	300 ~185	300 ~185
Boiler weight	kg	435	485	535	595	760
Water capacity	l	79	86	96	115	189
Thermal efficiency	%	90,6 - 92,7				
Maximum working pressure	bar	1.8				
Supply water temperature (min-max)	°C	55 - 90				
Supply and return diameter	cal	G 1 1/2				G 2 1/2
Electric supply	V/Hz	~230 / 50				
The required exhaust draft	Pa	22	24	26	28	33
The minimum height of the chimney	m	7	7	8	8	10
The minimum cross-section of the chimney	mm cm x cm	Ø160 15 x 15	Ø180 17 x 17	Ø180 17 x 17	Ø200 19 x 19	Ø260 23 x 23
Area of heated rooms**	m²	100 - 170	170 - 200	200 - 250	250 - 340	340 - 500
Area of heated rooms (well-insulated houses)***	m²	160 - 220	220 - 260	260 - 330	330 - 450	450 - 660

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

Kamen WG AGRO

Central heating boiler for non-wood biomass

ON REQUEST:
Electronic controller with blowing

- Large combustion chamber
- Large charging door
- Adapted for mounting a blower kit
- Durable water grate
- Mechanical ash removal from the furnace

4 4-year warranty

6 Certified boiler steel

High efficiency

Adapted for the installation of a draft regulator

Energy-saving boiler

Chimney draft regulation

Adjustable feet

POWER RANGE

10 - 40 kW

BASIC EQUIPMENT

- Cleaning kit
- Adjustable feet
- Built-in air duct for retrofitting a fan with a controller
- Movable grate (up to 40 kW)

FUEL

Non-wood biomass in the form of briquettes made of straw, hay, miscanthus

ADDITIONAL EQUIPMENT

(extra charge)

- Cooling coil
- Draft regulator

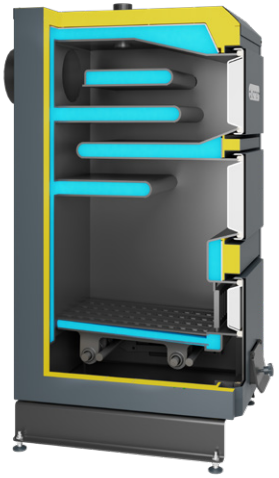
ADDITIONAL OPTIONS

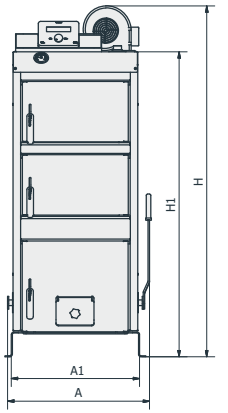
- The door opening to the left side
- Flue directed upwards

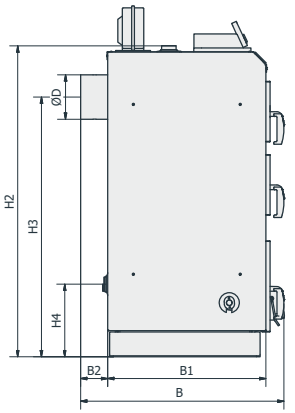
WARRANTY

- 4 years for tightness of the heat exchanger

Technical **DATA**







Parameter	Unit	Kamen WG Premium AGRO							
Rated thermal power	kW	10 kW	13 kW	17 kW	22 kW	28 kW	34 kW	40 kW	50 kW
Heating surface Heating surface	m²	1.2	1.5	1.8	2.2	2.8	3.6	4.0	5.0
Maximum width (A)	mm	495	495	550	550	600	670	740	690
Boiler casing width (A1)	mm	435	435	490	490	540	610	680	690
Maximum length (B)	mm	780	780	780	830	830	880	930	1060
Boiler casing length with door (B1)	mm	605	605	605	655	655	705	710	840
Flue length (B2)	mm	105	105	105	105	105	105	140	140
Maximum height (H) *	mm	1310	1380	1380	1460	1460	1460	1570	1680
Boiler height (H1) *	mm	1130	1200	1200	1280	1280	1280	1385	1500
Height of the water supply (H2) *	mm	1150	1220	1220	1300	1300	1300	1405	1530
Height to the axis of the flue (H3)	mm	945	1015	1015	1095	1095	1095	1195	1290
Flue diameter (ΦD)	Ømm	Ø159	Ø159	Ø178	Ø178	Ø178	Ø178	Ø194	Ø228
Water return height (H4) *	mm	290	290	290	290	290	290	365	355
Width of the combustion chamber	mm	263	263	318	318	368	438	495	475
Depth of the combustion chamber	mm	400	400	400	450	450	500	500	600
Height of the combustion chamber	mm	280	350	350	430	430	430	430	480
Frame of the charging door	cm x cm	27,5x21	27,5x21	33x21	33x21	38x21	45x21	45x25	45x25
Combustion chamber capacity	l	29	36	44	61	71	94	105	135
Boiler weight	kg	245	260	280	315	345	410	440	520
Water capacity	l	55	62	70	85	95	115	124	148
Thermal efficiency	%	~82 - 84							
Maximum working pressure	bar	1.8							
Supply water temperature (min - max)	°C	55 - 90							
Supply and return diameter	cal	G 6/4						G 2	
Electric supply	V/Hz	~230 / 50							
The required exhaust draft	Pa	20	20	22	26	28	30	32	32
The minimum height of the chimney	m	6	6	7	8	8	9	10	10
The minimum cross-section of the chimney	Ømm cm x cm	Ø170 15 x 15	Ø190 17 x 17	Ø200 18 x 18	Ø220 20 x 20	Ø220 20 x 20	Ø250 22 x 22	Ø280 25 x 25	Ø280 25 x 25
Area of heated rooms**	m²	80-100	100-130	130-170	170-220	220-280	280-340	340-400	400-500
Area of heated rooms (well-insulated houses)***	m²	105-130	130-170	170-225	225-290	290-370	370-450	450-530	530-665

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

WDS

Kamen Dremax Agro

Central heating boiler for non-wood biomass

ON REQUEST:
Electronic controller with blowing

- Large combustion chamber
- Enlarged charging door
- Adapted for mounting a blower kit
- Durable water grate
- Mechanical ash removal from the furnace

4 4-year warranty

mm 6 Certified boiler steel

High efficiency

Adapted for the installation of a draft regulator

Energy-saving boiler

Chimney draft regulation

Adjustable feet

POWER RANGE

10 - 40 kW

BASIC EQUIPMENT

- Cleaning kit
- Adjustable feet
- Built-in air duct for retrofitting a fan with a controller
- Movable grate (up to 32 kW)
- Flue outlet at 45°
- Fixed 45° elbow with inspection

FUEL

Non-wood biomass in the form of briquettes made of straw, hay, miscanthus

ADDITIONAL EQUIPMENT

(extra charge)

- Cooling coil
- Draft regulator

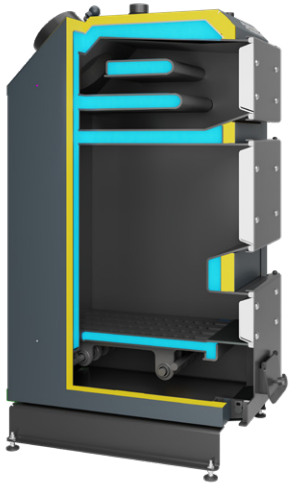
ADDITIONAL OPTIONS

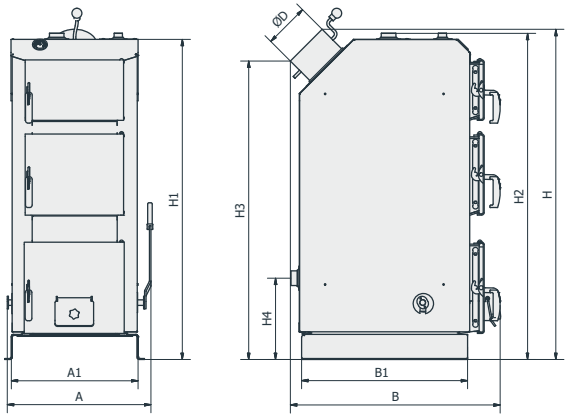
- The door opening to the left side

WARRANTY

- 4 years for tightness of the heat exchanger

Technical **DATA**





Parameter	Unit	Kamen Dremax AGRO					
Rated thermal power	kW	10 kW	16 kW	20 kW	26 kW	32 kW	40 kW
Heating surface Heating surface	m²	1.3	1.9	2.2	2.8	3.4	4.1
Maximum width (A)	mm	495	495	550	600	670	640
Boiler casing width (A1)	mm	435	435	490	540	610	610
Maximum length (B)	mm	720	770	820	820	870	1015
Boiler casing length with door (B1)	mm	635	685	735	735	785	885
Flue length (B2)	mm	105	105	105	105	105	140
Maximum height (H) *	mm	1110	1190	1295	1375	1375	1510
Boiler height (H1) *	mm	1105	1185	1255	1335	1335	1435
Height of the water supply (H2) *	mm	1125	1205	1275	1355	1355	1455
Height to the bottom edge of the flue (H3)	mm	1005	1105	1160	1240	1240	1380
Flue diameter (ΦD)	Ømm	Ø159	Ø159	Ø178	Ø178	Ø178	Ø194
Water return height (H4) *	mm	290	290	290	290	290	290
Width of the combustion chamber	mm	263	263	318	368	438	438
Depth of the combustion chamber	mm	400	450	500	500	550	650
Height of the combustion chamber	mm	385	465	535	615	615	615
Frame of the charging door	cm x cm	27,5 x 21	27,5 x 29	33 x 29	38 x 29	45 x 29	45 x 29
Combustion chamber capacity	l	35	50	80	108	142	170
Boiler weight	kg	230	250	290	340	400	480
Water capacity	l	49	59	71	82	96	114
Thermal efficiency	%	~82 - 84					
Maximum working pressure	bar	1.8					
Supply water temperature (min - max)	°C	55 - 90					
Supply and return diameter	cal	G 6/4					G2
Electric supply	V/Hz	~230 / 50					
The required exhaust draft	Pa	20	23	26	28	30	32
The minimum height of the chimney	m	6	7	8	8	9	10
The minimum cross-section of the chimney	Ømm cm x cm	Ø170 15 x 15	Ø190 17 x 17	Ø220 20 x 20	Ø220 20 x 20	Ø250 22 x 22	Ø280 25 x 25
Area of heated rooms**	m²	up to 100	100-160	160-200	200-260	260-320	320-400
Area of heated rooms (well-insulated houses)***	m²	up to 130	130-210	210-265	265-345	345-425	425-530

* when using the adjustable feet, the height increases by 24 to 32 mm
** maximum area of heated rooms assumed for the building's heat demand q = 100 W/m²
*** maximum area of heated rooms assumed for the building's heat demand q = 75 W/m²

HIGH-POWER Boilers

Kamen also offers industrial high-power boilers for heating public buildings, production halls, farm buildings, etc. We produce high-power boilers up to 400kW as a standard. Above this range, we make boilers adjusting selected parameters to the specification of the building in which the boiler will operate.

The exchangers of high-power boilers are made of certified boiler steel with a thickness of 8 mm, and their design is based on convection channels that are bent many times. All boilers have large doors and cleanout openings for convenient operation.

mm **8** Certified boiler steel

4 4-year warranty

Energy-saving boiler

For large buildings

High efficiency

High-power boilers are developed designs of standard exchangers and are available in the following versions:

Kamen WG Agro DM **Kamen Multi Agro DM** **Kamen NG Agro DM**

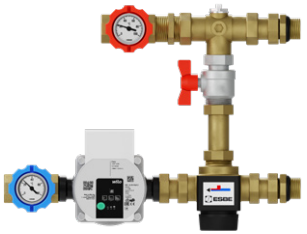
Technical and operational parameters of the above-mentioned boilers with dimensions can be found on our website
www.kamen.com.pl
Other DM version boilers on request.

IMPORTANT installation and utility information

- The boiler output should be adequate to the heat demand of the building. When selecting a boiler, you should also take into account the demand for domestic hot water production. Consult your choice with the installer or seller before purchasing.
- Only an installation of the boiler with a return protection system guarantees its efficient, fully effective operation and obtaining of the declared nominal power of the device and extends its life.
- The installation of the boiler with one of the Kamen coupling systems ensures proper operation of the entire central heating installation.
- The chimney system must meet the requirements of the boiler. Its height and cross-section depend on the boiler model and power.
- The boiler operating temperature cannot be lower than 60 ° C. Thanks to this, you will reduce the formation of soot and condensate from the fuel, and also protect the boiler against low-temperature corrosion.
- Using only the right fuel, regular cleaning of the entire heat exchanger and chimney system will ensure the efficient operation of the boiler.

Extend the warranty to 7 years

7-YEAR WARRANTY on the tightness of the heat exchanger in case of correct installation of the Kamen boiler with the **Kamen Control** system (pump group protecting the boiler return), a short-circuit pump (before the Kamen Control system) and the return protection function included in the controller (minimum return temperature 50°C).

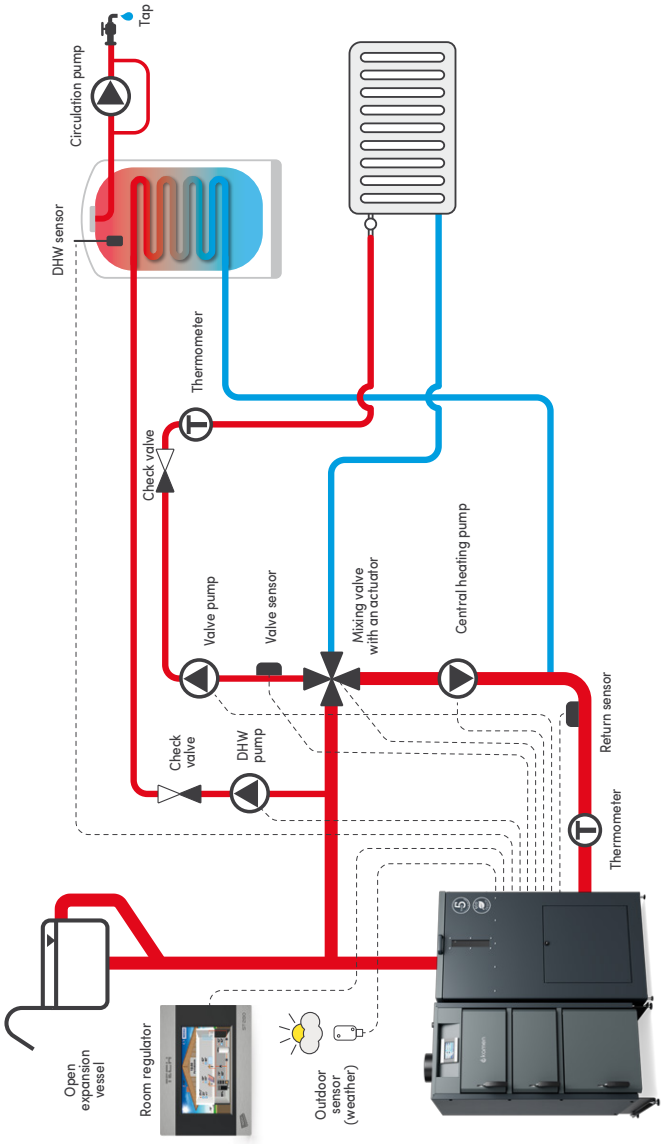


5-YEAR WARRANTY for the tightness of the heat exchanger in the case of installation of the Kamen automatic boiler with the correct use of any valve that will ensure constant control of the temperature of the medium returning to the boiler and maintain it at a level of min. 50°C.

Connection diagrams are available on our website

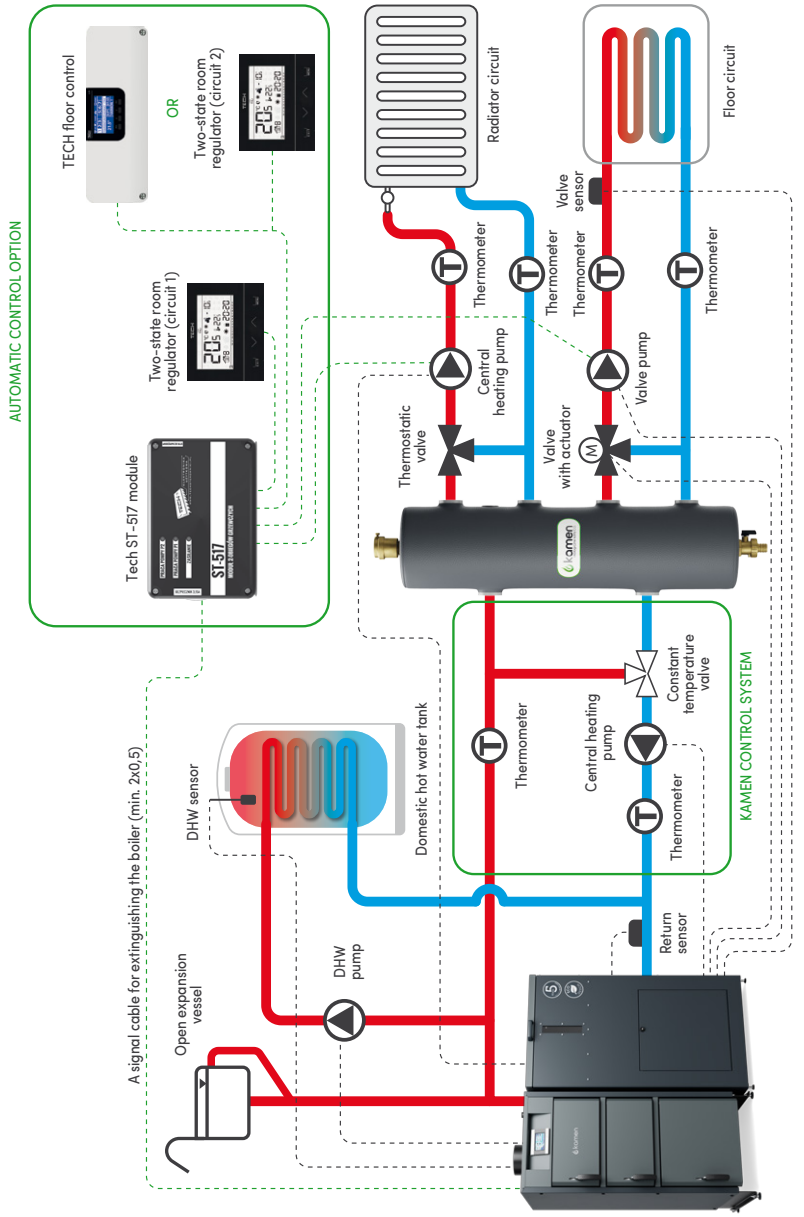
www.kamen.com.pl

Recommended method of installation with **1 heating circuit**



According to the ordinance of the Minister of Infrastructure, it is allowed to install the boiler in a closed system, if it is equipped with a device for removing excess heat. Kamen boilers in a version with a built-in cooling coil are designed for installation in a closed system.

Recommended method of installation with **2 heating circuits**



CONTROLLERS for Kamen boilers

TECH ST-480K

Basic controller for automatic boilers

ES BRULI

Online automatic boiler controller with flue gas temperature control

TECH ST-976

Modern controller with a touch screen for pellet boilers with Venma burners

OPTIONS of controllers

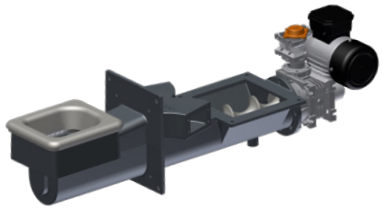
● exists ○ option - possibility

	TECH		ES
DEVICE SUPPORT	**ST 480K**	**ST 976**	**BRULI**
The central heating pump 1	●	●	●
The central heating pump 2 (floor)	●	●	●
DHW Pump	●	●	●
Circulation pump	●	●	●
Additional pump	-	○	●
Pump overflow	-	-	-
Mixing valve 1	●	●	●
Mixing valve 2	○	○	○
Feeder	●	●	●
Fan	●	●	●
Heat buffer pump	-	-	●
Heater	-	●	-
SENSORS			
Central heating sensor 1	●	●	●
Room sensor 1	-	-	●
Central heating sensor 2	●	●	●
Room sensor 2	-	-	●
Outdoor sensor	●	●	●
Boiler sensor	●	●	●
DHW sensor	●	●	●
Return sensor	●	●	●
Feeder sensor	●	●	●
Flue gas sensor PID	-	-	●
Heat sensor	-	●	-
OTHER FUNCTIONS			
Room regulation	○	○	○
Ethernet	○	○	●
GSM	○	○	-
Controlling external fuel feeder	-	●	-
Software update	●	●	●
Resetting	●	●	●
Remote Support	○	○	○

FEEDERS for Kamen boilers

Feeders for automatic boilers

CAST IRON SCREW FEEDER



A new generation cast iron burner with a screw feeder allows the use of a wide range of powdered fuels with a granulation of 0-32mm. The basic fuel is coal with a granulation of up to 32 mm. The body is made of gray cast iron, while the screw is made of nodular cast iron. The product in its current form is a refined and tested design, characterized by a long service life, high reliability and versatility.

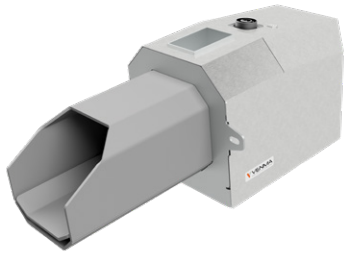
STEEL SCREW FEEDER

Installed in boilers:
Multi K5 48 kW

The PPS solid fuel feeder is a device used to feed fuel a granulation of up to 25 mm. The feeder has a steel body and a steel screw equipped with a tip in the form of a bent claw, which facilitates the removal of fuel from the bent part of the knee. The furnace itself is made of refractory cast iron, which guarantees long-term and failure-free operation. This type of feeders is distinguished by quiet operation and high combustion efficiency of eco-pea coal.

Burners for pellet boilers

Feeder with a burner for burning pellets
VENMA COMFORT



The Venma Comfort burner is a modern burner designed to burn biofuels such as pellets, oats, etc. The burner is made of stainless steel and the furnace is equipped with a self-cleaning system. The device is characterized by high efficiency, automatic operation and ease of use as well as low electricity consumption. The device has a touch controller as standard.

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www.kamen.com.pl

DISTRIBUTOR

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