



MANUFACTURER OF ECOLOGICAL BOILERS



Product catalogue of MPM Projekt

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MANUFACTURER OF ECOLOGICAL BOILERS

Meet the new image of MPM Projekt

We are growing, and with that we are changing our image. First of all, the logotype, the external appearance of the boilers have changed, we have expanded the machinery, and the whole process took place in cooperation with external designers. The conscious introduction of industrial design into the company's development strategy of the company, is a step to increase the quality of manufactured products.

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WOOD GASIFICATION BOILERS

MPM Wood Plus

General information

New generation of wood boiler

The MPM Wood Plus boiler is the next version of the boiler gasifying solid fuel - wood. The next generation of our (Polish) production with an applied system of smoke exhaustion of the loading chamber, which protects the boiler room from smoke during fuel addition. The boiler has been designed with the user's comfort in mind, equipped with a large loading chamber, it allows to reach a long burning time with full power/operation on a single load. For the building are used attested materials, which makes the construction of the boiler solid and durable, this is a guarantee of stable operation for many years.

Smoke extraction duct of the loading chamber

Does smoke come out during adding fuel to the boiler? We have a way for that! MPM Wood Plus boiler, equipped with an automatic smoke removal system for the loading chamber, which does not disturb the burning process in the boiler. It also makes adding fuel to the boiler more comfortable and safer.

The main advantages of the Wood Plus boiler:

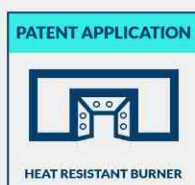
- LOW DUST EMISSIONS
- HIGH EFFICIENCY
- QUALIFICATION FOR THE CLEAN AIR PROGRAM
- SMOKE REMOVAL DUCT OF THE LOADING CHAMBER
- FUEL ECONOMY



Wood Plus boiler
Also available in C.S.!* version.



MPM Wood Plus 6 kW boiler

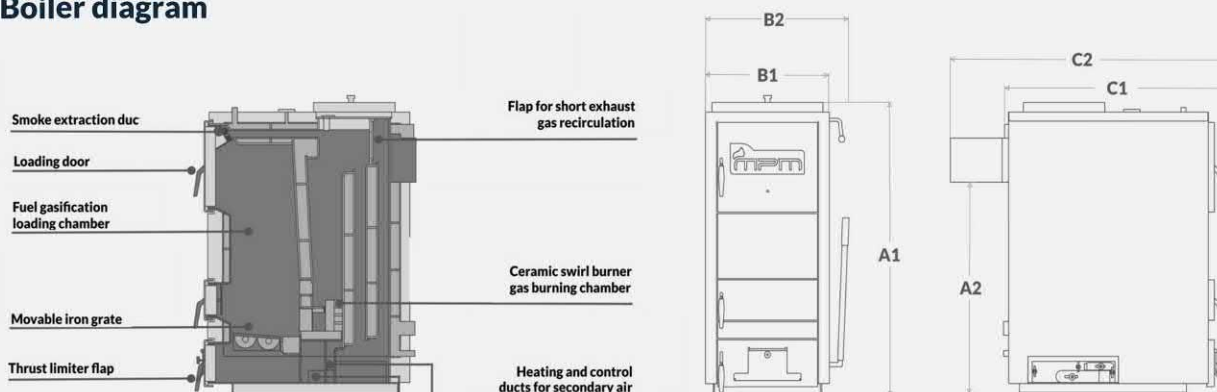


*adapted for Closed System operation, in this version the boiler has an additional thermal protection, in the form of the DBV-1 valve.

Technical parameters

Parametr		Unit	Value						
Power of the boiler		kW	6	10	14	18	26	34	68
Heating surface		m ²	1,0	1,5	2,0	2,4	2,9	3,6	6,0
Height	A1	mm	805	940	1100	1100	1183	1200	1480
Height to the bottom edge of the flue	A2	mm	555	680	790	790	910	895	1115
Housing width	B1	mm	410	480	480	550	600	710	735
Total width	B2	mm	455	585	585	655	655	780	830
Length without flue	C1	mm	815	870	905	945	945	1050	1780
Total length	C2	mm	1035	1070	1105	1145	1220	1250	1980
Dimensions of the loading door		mm	230x230	250x300	270x300	270x370	250x425	250x530	350x530
Dimensions of the loading chamber (H x L)		mm	485x270	610x230	700x250	710x260	800x350	730x530	900x700
Capacity of the loading chamber		dm ³	~30	~42	~52	~70	~120	~135	~330
Indicated operating temperature		°C	60-90	60-90	60-90	60-90	60-90	60-90	60-90
Water capacity of the boiler		dm ³	~40	~63	~74	~80	~94	~102	~300
Boiler weight		kg	170	270	300	370	450	490	850
Max. allowable operating pressure		bar	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Max. operating temp.		°C	90	90	90	90	90	90	90
Required flue gas draught		Pa	0,16-0,18	0,17-0,19	0,17-0,19	0,18-0,2	0,22-0,3	0,3-0,35	0,4-0,45
Min. chimney cross section		mm	160x160	180x180	180x180	180x180	180x180	180x180	180x180
Flue dimensions		mm	Ø139	Ø178	Ø178	Ø178	Ø178	Ø178	Ø178
Min.chimney height		m	7	7	7	8	9/10	11	13
Diameter of supply and return		"	1	6/4	6/4	6/4	6/4	6/4	2

Boiler diagram



AUTOMATIC PELLET BOILERS

MPM ECONERGY + TOUCH CONTROLLER

Technical parameters

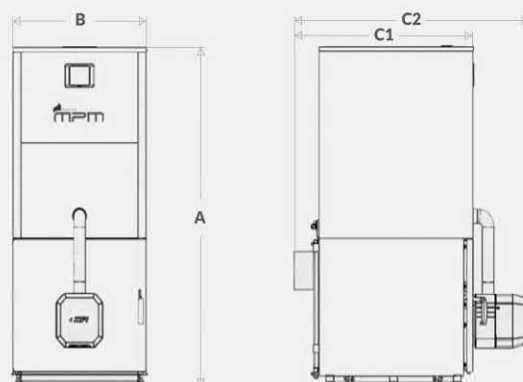
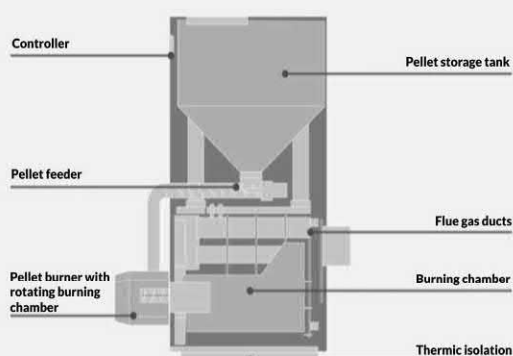
Parametr		Unit	Value				
Power of the boiler		kW	10	15	20	25	30
Total height	A	mm	1455	1455	1455	1455	1655
Total width	B	mm	580	580	660	660	745
Length without burner installed	C1	mm	780	780	880	880	980
Total length	C2	mm	1034	1034	1134	1134	1234
Tank capacity		dm³	175	175	230	230	317
Approved operating temperature		°C	50 - 85				
Water capacity of the boiler		dm³	~35,5	~35,5	~50	~50	~66
Weight of the set		kg	240	245	295	300	390
Max. allowable operating		bar	3				
Diameter of supply and return		"	1				
Max.operating temp.		°C	85				
Required flue gas draught (min.)		Pa	0,15				
Flue dimensions		mm	159				
Min.chimney height		m	7				
Power supply		V/Hz	230 / 50				



Compact design

Automatic pellet boilers usually take up a lot of space, because of the loading hoppers located next to the boiler. In the MPM Econergy ecoTouch 860 boiler, the loading hopper is located above the heat exchanger. With its compact design, this boiler is perfect for small rooms.

Boiler diagram





MPM ECONERGY + GRAPHIC CONTROLLER

Technical parameters

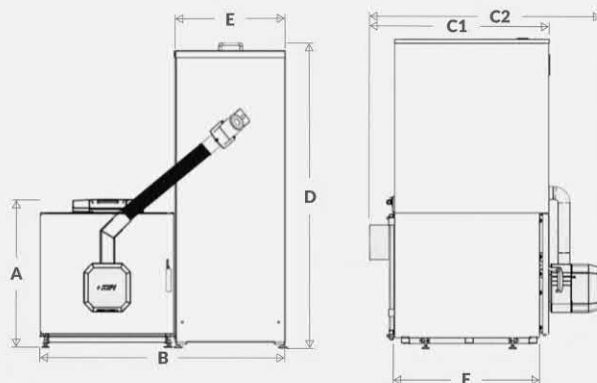
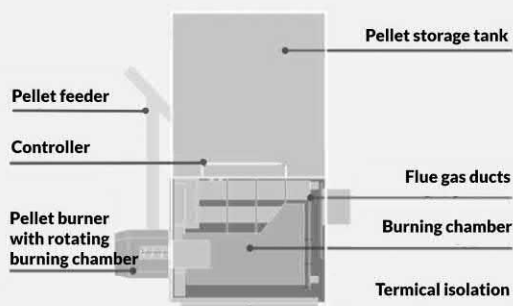
Parametr	Unit	Value				
Boiler power	kW	10	15	20	25	30
Total height	A1	mm	669	669	770	
Total width	B	mm	580	660	745	
Length without burner installed	A2	mm	780	880	980	
Total length	B1	mm	1034	1134	1234	
Tank height	B2	mm	1290			
Tank width	C1	mm	500			
Tank length	C2	mm	660			
Tank capacity	dm ³		350			
Approved operating temperature	°C		50 - 85			
Water capacity of the boiler	dm ³	~35,5	~35,5	~50	~50	~66
The weight of the set	kg	250	255	305	310	400
Max. allowable operating pressu	bar		3			
Diameter of supply and return	"		1			
Max.operating temp.	°C		85			
Required flue gas draught (min.)	Pa		0,15			
Flue dimensions	mm		159			
Min.chimney height	m		7			
Power supply	V/Hz		230/50			



Enlarged storage tank

Econergy series boilers with a graphic controller are marked by an enlarged pellet tank compared to the boilers of the line with a touchscreen controller. In the model of 10 kW boiler, the capacity of the tank is up to two times larger. This convenience allows the user to enjoy longer boiler burnability.

Boiler diagram



DUAL-FUEL BOILERS FOR WOOD AND COAL

MPM DS Plus 14 kW

Technical parameters

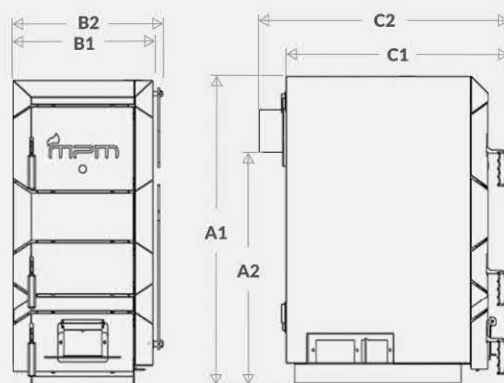
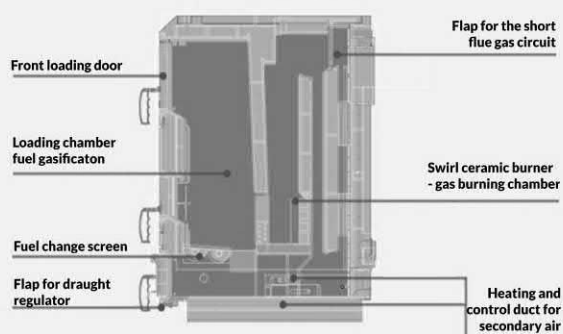
Parametr		Unit	Value
Boiler power		kW	14
Heating surface		m ²	2,0
Height	A1	mm	1070
Height to the lower edge of the flue pipe	A2	mm	770
Housing width	B1	mm	480
Total width	B2	mm	570
Length without flue	C1	mm	880
Total length	C2	mm	1100
Loading door dimensions		mm	250x300
Loading door dimensions - top loading		mm	210x300
Loading chamber dimensions		mm	650x220
Loading chamber dimensions - top loading		mm	740x220
Approved operating temperature		°C	60-80
Boiler water volume		dm ³	~ 73
Boiler weight		kg	310
Max.permissible operating pressure		bar	1,5
Max.operating temp.		°C	85
Required flue draught		Pa	20-30
Min. chimney cross section		mm	180x180
Dimensions of the flue pipe		m	Ø178
Min. chimney height		m	8
Supply and return diameters		"	6/4



Boiler with patent application no. P.430080

The wood gasification boiler with patent application no. P.430080 is a heating unit with bottom burning solid fuel (wood and coal). Boilers of this type are very popular because of their easy handling. Their greatest advantage is efficient and clean burning, long service life and fuel economy. In a two-chamber bottom-burning boiler, good fuel will be burned in the most efficient way and in harmony with the environment. The boiler is available in side-loading or top-loading version.

Boiler diagram



DUAL-FUEL BOILERS FOR PELLETS AND WOOD

MPM Wood Pell

Technical parameters

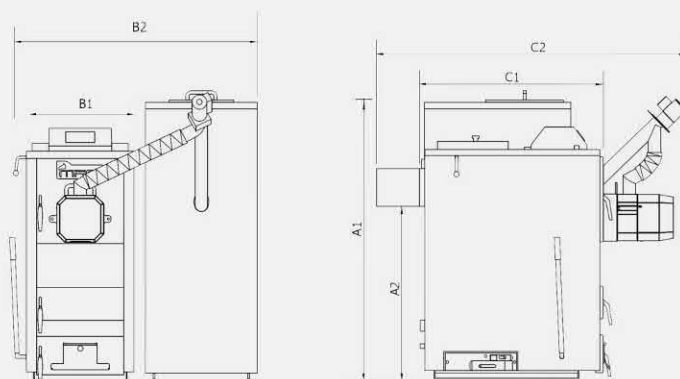
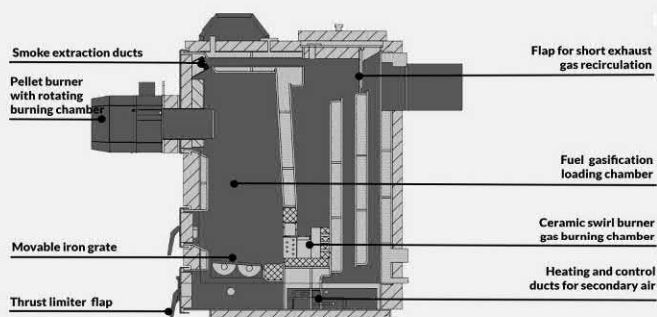
Parametr		Unit	Value
Boiler power		kW	14
Heating surface		m ²	2,0
Height	A1	mm	1070
Height to the lower edge of the flue pipe	A2	mm	770
Housing width	B1	mm	480
Total width	B2	mm	570
Length without flue	C1	mm	880
Total length	C2	mm	1100
Loading door dimensions		mm	350x300
Loading chamber dimensions		mm	700x250
Approved operating temperature		°C	60-80
Boiler water volume		dm ³	~ 73
Boiler weight		kg	310
Max.permissible operating pressure		bar	1,5
Max.operating temp.		°C	85
Required flue draught		Pa	20-30
Min. chimney cross section		mm	180x180
Dimensions of the flue pipe		m	Ø178
Min. chimney height		m	8
Supply and return diameters		"	6/4



The MPM Wood Pell is a dual-fuel unit designed to burn pellets and wood. The power range is from 4 kW to 14 kW. The MPM Wood Pell boiler burns pellets automatically and has many features in common with the MPM Econergy and MPM Bio Pell boilers, including equipment with a self-cleaning KIPi burner with a rotary burning chamber, operation of pumps and valves of the central heating and hot water systems. The replacement fuel is hardwood logs burned in the fuel gasification process when the boiler is switched to manual loading*.

*Changing the boiler mode from automatic to manual and reverse is done manually.

Boiler diagram





OPTIONAL EQUIPMENT

Exhaust ventilator

The flue gas exhaust fan is used on solid fuel boilers to improve flue draught. Ideally suited for all Wood Plus boiler models.

Anticondensation valve

Anticondensation thermostatic mixing valve 5/4" - 55°C. Raising the temperature on the return to the boiler

eSTER x80

Wireless remote control panel with room thermostat function and full coded two-way ISM radio transmission.

ecoSTER TOUCH

Serves as a remote control for PLUM devices, allows reading and editing of all parameters of controllers and heating and ventilation circuits. It controls weather-based mixing circuits and automatically corrects the heating curve to reheat the circuit.

DBV-1 valve

Thermostatic valve DBV-1 is designed to protect the boiler against overheating.

Electronic draught regulator Unister /Unister Duo

The electronic draught regulator UNISTER is intended for controlling the temperature of a solid fuel boiler by opening and closing the flap which regulates the air inflow to the furnace. The unit controls the operation of the circulation pump, and moreover, the Unister Duo additionally controls the operation of the exhaust ventilator in heating systems.

ecoNET 300

A web-based system with a mobile application with a management and service function. It supports and manages the online operation of PLUM devices in the WiFi network standard.

eSTER x40

Wireless room thermostat with two-way coded radio transmission.

Plum ecoMAX 800D

The ecoMAX 800D dual-mode boiler controller is used to automatically maintain the set temperature of the domestic hot water cylinder, one mixer heating circuit and the boiler by controlling the fuel combustion process. The set temperature of the heating circuits can be set on the basis of a weather sensor. The controller can cooperate with a room thermostat, so it helps to maintain a comfortable temperature in heated rooms.

COMPLETE BOILER ROOM WITH MPM PROJECT



Electronic draught regulator Unister Duo

It is designed to control the temperature of a solid-fuel boiler by opening and closing the flap which regulates the air supply to the furnace. The unit controls the operation of the circulation pump and the exhaust ventilator in heating systems.

Exhaust ventilator

The flue gas exhaust ventilator is used on solid fuel boilers to improve the chimney draught. Ideally suited for Wood Plus and Wood Pell boiler models.

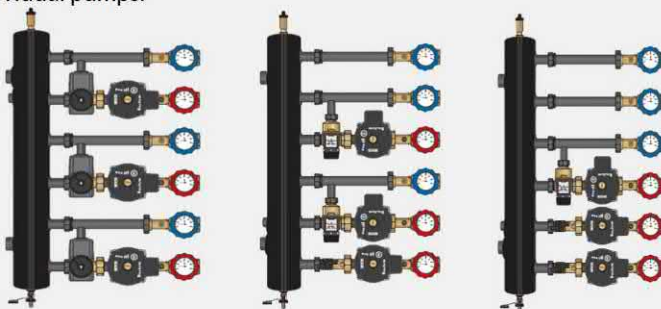
Anticondensation system

The MPM 55 mixing, anticondensation system is designed for central heating installations with the possibility of cooperation with a buffer tank. Its most important function is to keep high efficiency and vitality of the boiler. Additionally, the unit helps in proper assembly of the boiler to the central heating system. The task of the anticondensation system is to raise the temperature of water (heating medium) on the return to the boiler. In this way, we protect the boiler against the negative effects of low-temperature corrosion.

By purchasing the boiler together with the MPM 55 anticondensation system, you get a boiler with the system installed, as shown in the picture above.

Hydraulic module

The hydraulic module allows the boiler to be connected to two or three pump groups, while preventing interference with individual pumps.



Ask your dealer about other hydraulic module configurations!



BUFFER TANKS



Technical parameters

Parametr	Unit	Value			
Model		P300	P500	P800	P1000
Capacity	l	300	465	798	885
Height with cover	mm	1460	1660	1910	2090
Height without cover	mm	1410	1610	1860	2040
Installation height	mm	1430	1640	1900	2075
Diameter with cover	mm	750	850	990	990
Diameter without cover	mm	650	650	790	790
Max. operating pressure	bar	3	3	3	3
Max. operating	°C	95	95	95	95
Weight with cover	kg	70	102	134	151



The buffer tank holds the hot water generated by the various heating units, which is then used to supply the central heating system. The buffer tank without a coil makes it possible to reduce the frequency of switching on the central heating boiler or heat pump and to maintain a stable temperature in the system. At the same time, it acts as a so-called coupling in the system and protects the system from overheating.

Suggested buffer capacity depending on boiler output :

Wood Plus 6 -> 300L

Wood Plus 10 -> 300L - 500L

Wood Plus 14 -> 500L - 800L

Wood Plus 18 -> 500L - 800L

Wood Plus 26 -> 800L - 1000L

Wood Plus 34 -> 1000L - 1500L

Wood Plus 68 -> 3000L

Wood Pell 14 -> 500L - 800L

DS Plus 14 -> 500L - 800L

INDUSTRIAL MANIFOLDS

Technical parameters

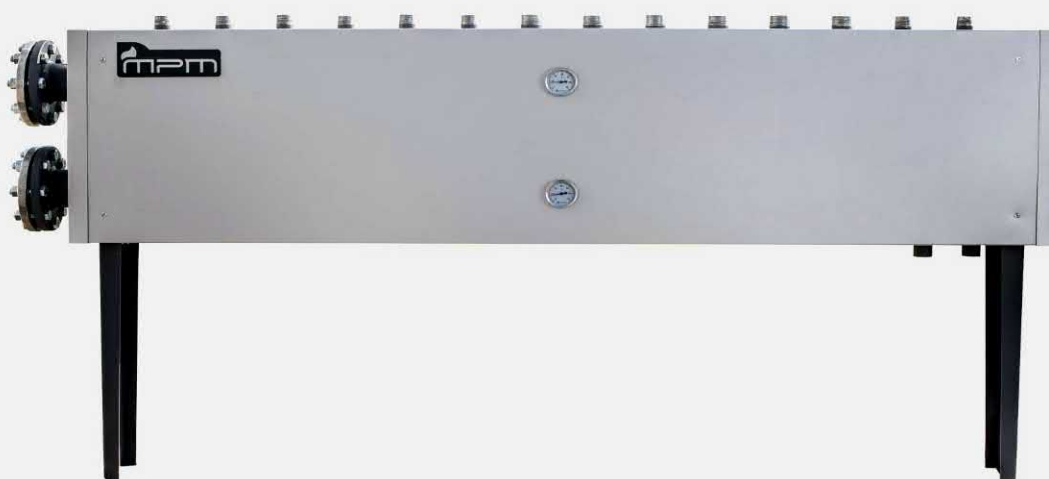
Hydraulic manifolds are used in heating systems comprising several circuits. Their task is to distribute the heating medium to the required number of circuits.

Specific features

- possibility to connect any number of heating circuits
- convenient connection to the system
- adaptation to individual needs, solutions

Example of manifold construction:

The manifolds are constructed of rectangular pipes with supply and return connections. The heating circuit connections are routed vertically upwards. The manifold has thermal isolation, thermometers and a housing to reduce heat loss.



For a personalised design and quotation, please write to us at uslugi@mpm-kotly.pl.



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