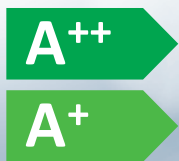
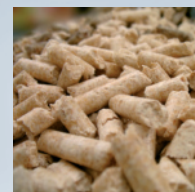


# OPOP

partner for your heating



## Pellet boilers

# BIOPEL PREMIUM

# BIOPEL PREMIUM PLUS

with control box V9





### PELLET BOILERS BIOPEL PREMIUM WITH CONTROL UNIT V9

The Biopel Premium boiler range offers even higher comfort in the heating and simplifies the set-up system incl. control of the boiler by the control unit. It offers the possibility of cleaning the burner and the boiler exchanger with compressed air. It is equipped with new turbulators for easy manual cleaning. The improved upper door closing system ensures 100% tightness of the combustion chamber. As part of program changes for easier adjustment and subsequent control of the boiler, there is the possibility of calibrating the pellet feeder, ensuring high quality combustion and adequate boiler output. The calibration allows to set the boiler parameters according to the pellets type. Enhancement of an online system for controlling the boiler over the internet, there is a new possibility to control room thermostat and heating system over a mobile phone. Transformation of the nomenclature menu for better orientation in boiler settings and accessories. The control unit V9 is provided with a touch display, enables setting and changes to any parameter by means of internet, communication with solar connector unit, control of heating base on the outside temperature and is equipped with a series of additional advanced functions. It further allows connection of a wide range of attachment devices.

**Fuel:** Wooden pellets diameter 6 – 8 mm

**Output:** 10 – 40 kW

**Advantages of wood pellet boilers BIOPEL LINE:**

#### Economy operation

- Economy heating - efficiency up to 91,5 %
- Low consumption of pellets
- Low consumption of electric power

#### Environment friendly

- 5. emission class – low emissions
- Pellets – renewable heating source

#### Comfortable operation and maintenance

- Easy adjustment of control unit
- Possibility of PC control
- Possibility to add automatic ash removal and automatic cleaning of burner and boiler exchanger
- Possibility of remote control with use of 2 wireless room thermostat
- Possibility of control 2 mixing valve
- Possibility of connection 5 pumps
- Equithermal control based on outdoor temperature
- Control of storage tank heating through temperature sensors
- Mobile phone applications

#### Economical use of space

- Using of compact tank request only small area in boiler room
- Burner can be placed from left or right side of the boiler

#### Long life time

- Stainless steel burner
- Reliable electronic elements
- Reliable system of automatic ignition

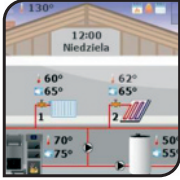
### Variants of sets

SET	BOILER	BURNER	FEEDER	EXTERNAL / COMPACT TANK	OPTIONAL ACCESSORIES
BIOPEL PREMIUM 10	Biopel 10	Biopel burner 10	2 m or 3 m	Biopel tank 110 - 350 kg (External tank)	*Compressor cleaning of burner and boiler exchanger *Lambda probe *Room thermostat *Vacuum feeder *Automatic ash removal *GSM module *Cascade controller *Exhaust fan *Hydraulic set with safety kit
BIOPEL PREMIUM 15	Biopel 15	Biopel burner 15			
BIOPEL PREMIUM 20	Biopel 20	Biopel burner 20			
BIOPEL PREMIUM 30	Biopel 30	Biopel burner 30			
BIOPEL PREMIUM 40	Biopel 40	Biopel burner 40			
BIOPEL PREMIUM COMPACT 10	Biopel 10	Biopel burner 10		Biopel tank 250 kg Biopel tank 150 kg Biopel tank 60 kg (Compact tank)	*Compressor cleaning of burner and boiler exchanger *Lambda probe *Room thermostat *Vacuum feeder *Automatic ash removal *GSM module *Cascade controller *Exhaust fan *Hydraulic set with safety kit
BIOPEL PREMIUM COMPACT 15	Biopel 15	Biopel burner 15			
BIOPEL PREMIUM COMPACT 20	Biopel 20	Biopel burner 20			
BIOPEL PREMIUM COMPACT 30	Biopel 30	Biopel burner 30			
BIOPEL PREMIUM COMPACT 40	Biopel 40	Biopel burner 40			

SET	BOILER	BURNER	FEEDER	EXTERNAL / COMPACT TANK	INSTALLED ACCESSORIES (EXCEPT ROOM THERMOSTAT) WHICH IS PART OF DELIVERY	OTHER OPTIONAL ACCESSORIES
BIOPEL PREMIUM PLUS 10	Biopel 10	Biopel burner 10	2 m or 3 m	Biopel tank 110 - 350 kg (External tank)	*Compressor cleaning of burner and boiler exchanger *Room thermostat *Automatic ash removal	*Lambda probe *Vacuum feeder *GSM module *Cascade controller *Exhaust fan *Hydraulic set with safety kit
BIOPEL PREMIUM PLUS 15	Biopel 15	Biopel burner 15				
BIOPEL PREMIUM PLUS 20	Biopel 20	Biopel burner 20				
BIOPEL PREMIUM PLUS 30	Biopel 30	Biopel burner 30				
BIOPEL PREMIUM PLUS 40	Biopel 40	Biopel burner 40				
BIOPEL PREMIUM PLUS COMPACT 10	Biopel 10	Biopel burner 10		Biopel tank 250 kg Biopel tank 150 kg Biopel tank 60 kg (Compact tank)	*Hydraulic set with safety kit	*Lambda probe *Vacuum feeder *GSM module *Cascade controller *Exhaust fan *Hydraulic set with safety kit
BIOPEL PREMIUM PLUS COMPACT 15	Biopel 15	Biopel burner 15				
BIOPEL PREMIUM PLUS COMPACT 20	Biopel 20	Biopel burner 20				
BIOPEL PREMIUM PLUS COMPACT 30	Biopel 30	Biopel burner 30				
BIOPEL PREMIUM PLUS COMPACT 40	Biopel 40	Biopel burner 40				

\*Hydraulic set with safety kit \* - optional accessories, which can be INSTALLED PART OF DELIVERY.

### Optional accessories - to increase operator comfort



#### Room thermostat

Room thermostat allows convenient operation of the boiler. In the basic version it is wire with the additional accessories wireless.



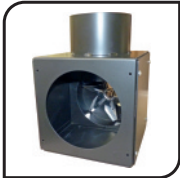
#### GSM module

Operation and servicing the boiler remotely by mobile phone.



#### Cascade controller

It can control up to 4 boilers connected in series in one boiler room and use their power according to the current heating system requirement.



#### Exhaust fan

Increases the chimney draft if the chimney parameters do not meet the requirement for a minimum operating draft in the chimney.

### Other possibilities to increase operator comfort which are part of boiler



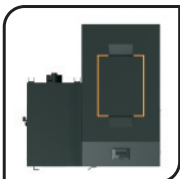
#### Internet module

Modern operating and servicing the boiler through PC. Web module is included in each controller.



#### Valve control

Control unit manage standard 2 mixing valve.



#### Economical use of space

Compact tank with a capacity of 60-250 kg pellets can be connected from the left or rights the same for all boiler outputs (10 - 40 kW). Through design and assembly details is maximal economical use of space and can be placed into very small boiler rooms. Plan area using compact tank is in the range of 0,77 to 1,35 m<sup>2</sup>.

**Control unit**  
Colorfull touch screen  
New features and possibilities

**Compressor**  
Cleans burner and heat exchanger automatically

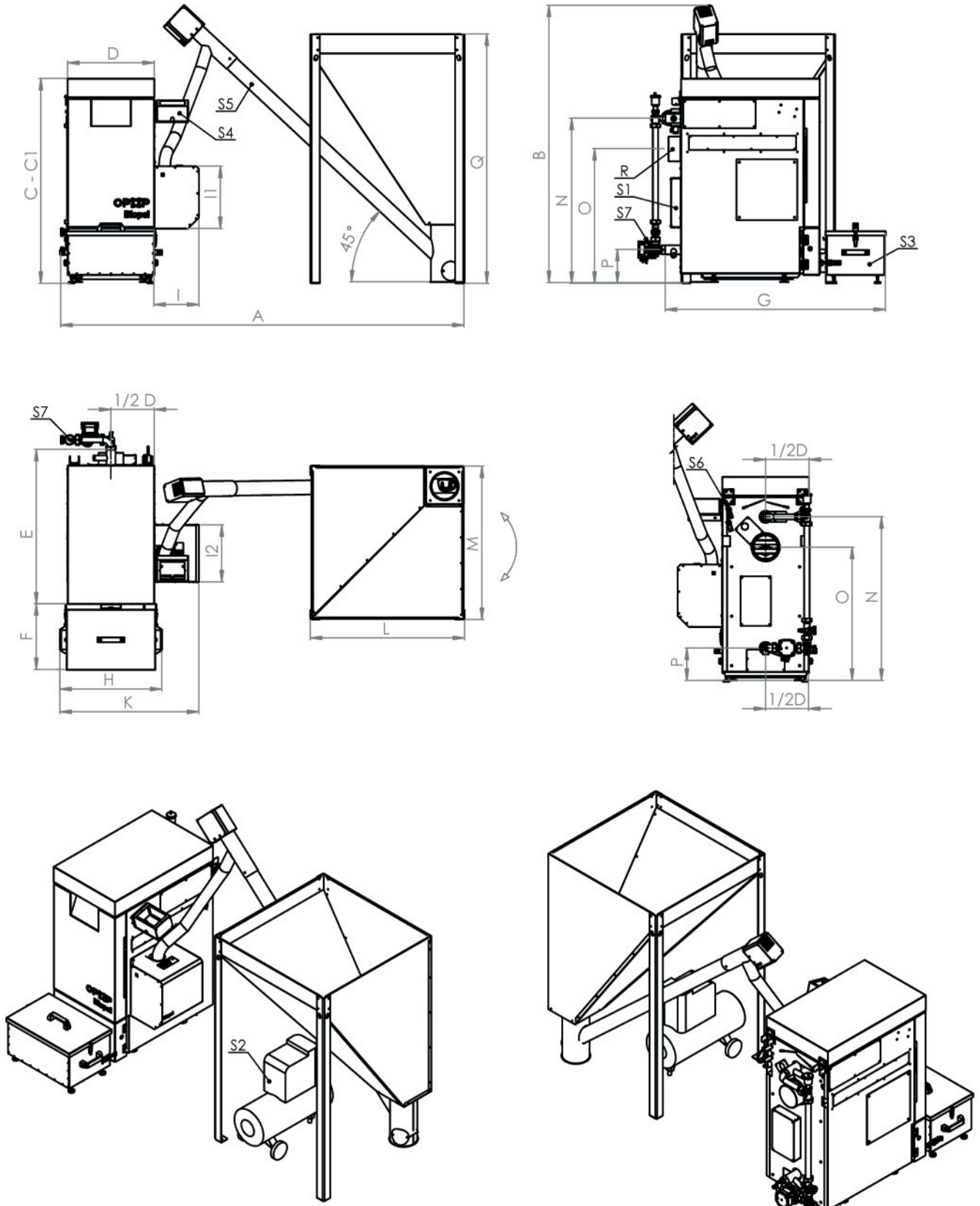
**Ash removal**  
Removes ashes from the boiler automaricaly



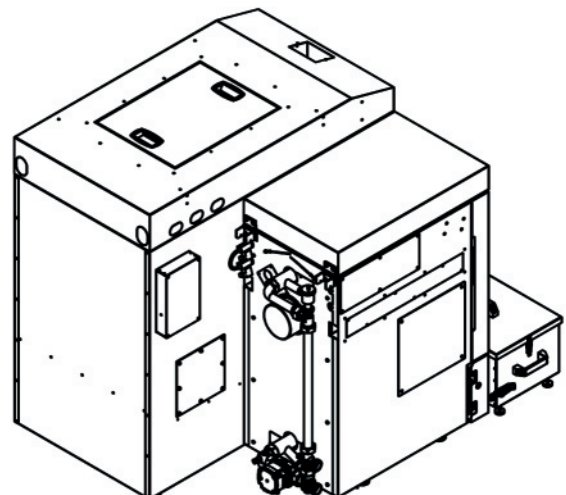
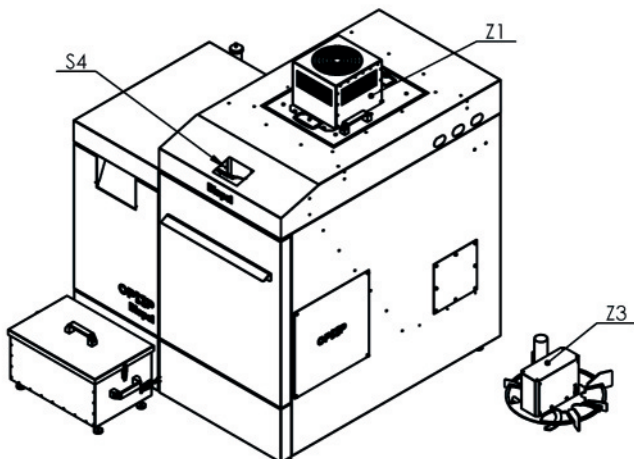
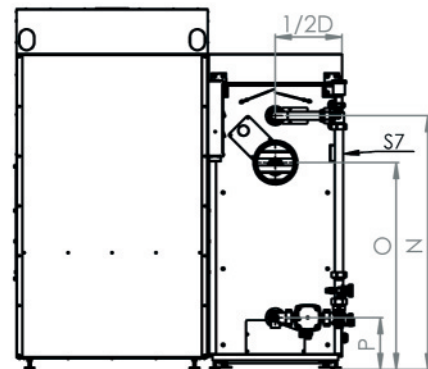
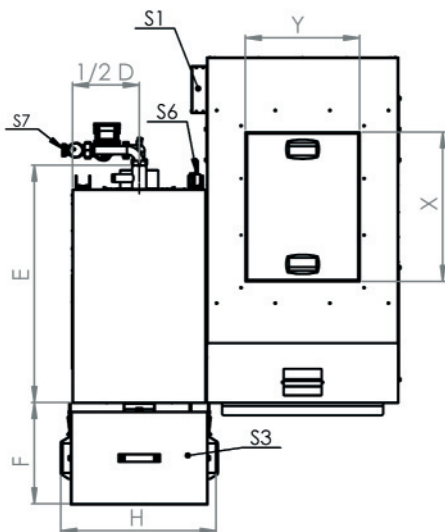
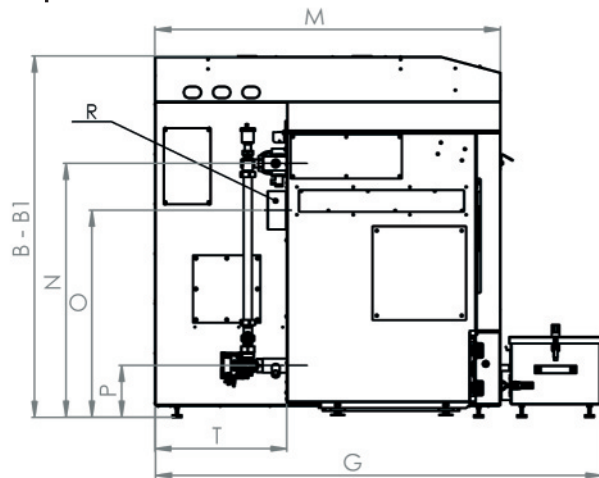
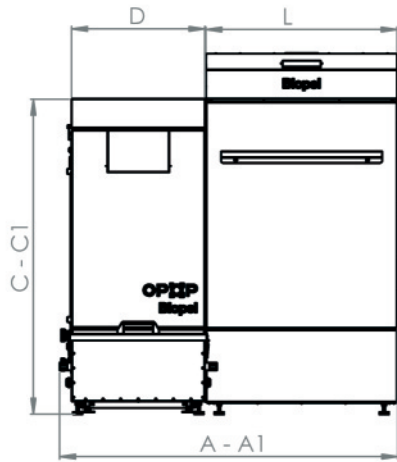
**BIOPEL PREMIUM PLUS – the boiler assembly is supplied at the factory, including the following accessories:**

- ash removal, compressor cleaning of the burner and exchanger, room thermostat

Set with external tank



Set with compact tank



## Pellet boilers BIOPEL PREMIUM/V9

BOILER MODEL		BIOPEL PREMIUM 10/V9	BIOPEL PREMIUM 15/V9	BIOPEL PREMIUM 20/V9	BIOPEL PREMIUM 30/V9	BIOPEL PREMIUM 40/V9
<b>Dimension</b>						
Socket type: outlet / inlet (inner thread)	Js			G 1 1/4"		
Drain and filling connection (inner thread)	Js			G 1/2"		
C - boiler height	mm	1077	1077	1077	1077	1179
C1 - height of boiler with open lid	mm	1675	1675	1741	1741	1939
D - boiler width	mm	455	455	555	555	655
E - boiler depth	mm	842	842	908	908	1026
F - automat. ash removal ash-pan depth	mm	327	327	427	427	427
G - total depth, incl. ash-pan	mm	1169	1169	1335	1335	1453
H - automat. ash removal ash-pan width	mm	537	537	637	637	737
I - burner cover depth	mm	200	200	230	320	285
I1 - burner cover height	mm	329	329	329	416	359
I2 - burner cover width	mm	301	301	316	316	388
K - total boiler width	mm	745	745	875	965	1030
N - outlet water socket location from the ground	mm	868	868	868	868	968
O - location of smoke flue from the ground	mm	708	708	708	708	808
P - inlet water socket location from the ground	mm	178	178	178	178	178
R - smoke flue diameter	mm	130	130	150	150	150
S1 - lambda probe / S2 - compressor / S3 - automat. ash removal / S4 - control unit / S5 - pellet feeder / S6 - compressor cleaning of exchanger / S7 - hydraulic set						
<b>Dimensions with external storage tank</b>						
A - max total boiler width, incl. storage tank	mm	2126	2126	2226	2226	2326
B - max total boiler height, incl. feeder	mm	1464	1464	1464	1464	1464
storage tank 60x60 (L - width / M - depth)	mm			600 / 600		
storage tank 80x80 (L - width / M - depth)	mm			815 / 815		
storage tank 100x100 (L - width / M - depth)	mm			1000 / 1000		
storage tank extended (L - width / M - depth)	mm			815 / 1420		
Q - hopper height	mm			1300		
storage tank capacity 60x60 (pellets 6mm) / weight	kg			110 / 25		
storage tank capacity 80x80 (pellets 6mm) / weight	kg			220 / 29		
storage tank capacity 100x100 (pellets 6mm) / weight	kg			300 / 35		
storage tank capacity 80x142 (pellets 6mm) / weight	kg			350 / 38		
<b>Dimensions with compact tank</b>						
A - max total boiler width, incl. compact tank of type 250	mm	1152	1152	1252	1252	1352
A1 - max total boiler width, incl. compact tank of type 150	mm	1002	1002	1102	1102	-
A1 - max total boiler width, incl. compact tank of type 60	mm	952	952	1052	1052	-
B - total compact tank height (60/150/250)	mm			1234		
B1 - total compact tank height (60/150/250) incl. vacuum feeder	mm			1433		
L - total compact tank width (60/150/250)	mm			453 / 503 / 653		
M - total compact tank depth (60/150/250)	mm			843 / 953 / 1180		
G - total depth with ash removal (60/150/250)	mm			1147 / 1311 / 1538		
G - total depth with ash removal, incl. hydraulic set (60/150/250)	mm			1300 / 1311 / 1538		
X - filling hole length (60/150/250)	mm			340 / 510 / 510		
Y - filling hole width (60/150/250)	mm			330 / 390 / 390		
Compact tank weight (60/150/250)	kg			49/55/95		
Z1 - vacuum feeder / Z3 - vacuum feeder collector						
<b>Boiler technical parametres</b>						
Nominal output	kW	10,32	14,5	19,43	31,5	42,48
Minimal output	kW	2,99	3,7	4,7	8,5	11,4
Guarantee fuel				wooden pellets 6 - 8 mm		
Fuel consumption	kg/h	0,71 - 2,5	0,85 - 3,4	1,1 - 4,4	1,9 - 7,2	2,66 - 9,96
Boiler emission class		5	5	5	5	5
Efficiency	%	88,58 - 89,94	89,4 - 91,4	89,15 - 92,82	90,2 - 92,2	90,11 - 91,41
Boiler water capacity	l	43	43	59	59	83
Required chimney draught (at nominal and minimal output)	Pa	5 - 10	5 - 12	5 - 15	10 - 20	10 - 20
Maximum water service pressure	Bar	2	2	2	2	2
Maximum operating heating water temperature	°C	85	85	85	85	85
Minimum return water temperature	°C	65	65	65	65	65
Boiler weight	kg	234	234	282	282	400
Energy efficiency class		<b>A+</b>	<b>A++</b>	<b>A++</b>	<b>A++</b>	<b>A++</b>