

# Automatic pellet boilers

They are designed for perfect combustion of pellets, so that a pellet burner is built into the left or right side of the boiler, according to the customer's needs, which removes the pellets from the hopper fully automatically using a screw conveyor. The fuel tank is usually located next to the boiler or in an adjoining room and can be of any size (standard 250, 500 or 1000 l). A part of the boiler room is often used as a fuel tank, which is then sufficient for the entire heating season.

The operation of the pellet burner itself works completely automatically. If the burner is instructed to start or there is a need to heat, the conveyor pours the pellets into the burner nozzle and is itself switched on by the heating element (spiral). After sufficient burning of the pellets, the burner starts at the set power, in which it remains until the system (house) is heated. Then the burner is switched off and the pellets in the burner chamber burn out. The burner is thus ready for a new start. The whole cycle is always repeated in case of further needs.

Boiler output and other burner functions are controlled by electronic regulation, which allows the boiler operation to be adapted to the specific conditions of the entire system. We refill the pellets, clean the combustion chamber of the burner and remove the ash, once every 1 – 30 days, depending on the quality of the pellets and the size of the hopper. If necessary, the boilers can be equipped with an automatic ash removal system for comfortable heating with minimal maintenance.

Thanks to these features, these boilers are just as comfortable in terms of operation and utility properties as gas heating. The main advantage, however, is that, unlike natural gas, they burn renewable energy sources.

## Advantages of ATMOS pellet boilers

- **Great heating comfort**
- **High efficiency 90.2 to 92.4 % depending on type – low fuel consumption**
- **Ecological combustion – boiler according to EN 303-5:2012 class 5 and EKODESIGN 2015/1189**
- **Automatic operation and shutdown of the boiler after the fuel burns out**
- **Automatic ash removal – with built-in ash removal**

## D14P

Automatic pellet boiler

 **Rated power 14 kW**

 **Boiler efficiency 90,3 %**

 **Emission class nr. 5 (Eco-design)**

## D21P

Automatic pellet boiler

 **Rated power 19 kW**

 **Boiler efficiency 90,3 %**

 **Emission class nr. 5 (Eco-design)**

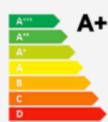
## D25P

Automatic pellet boiler

 **Rated power 24 kW**

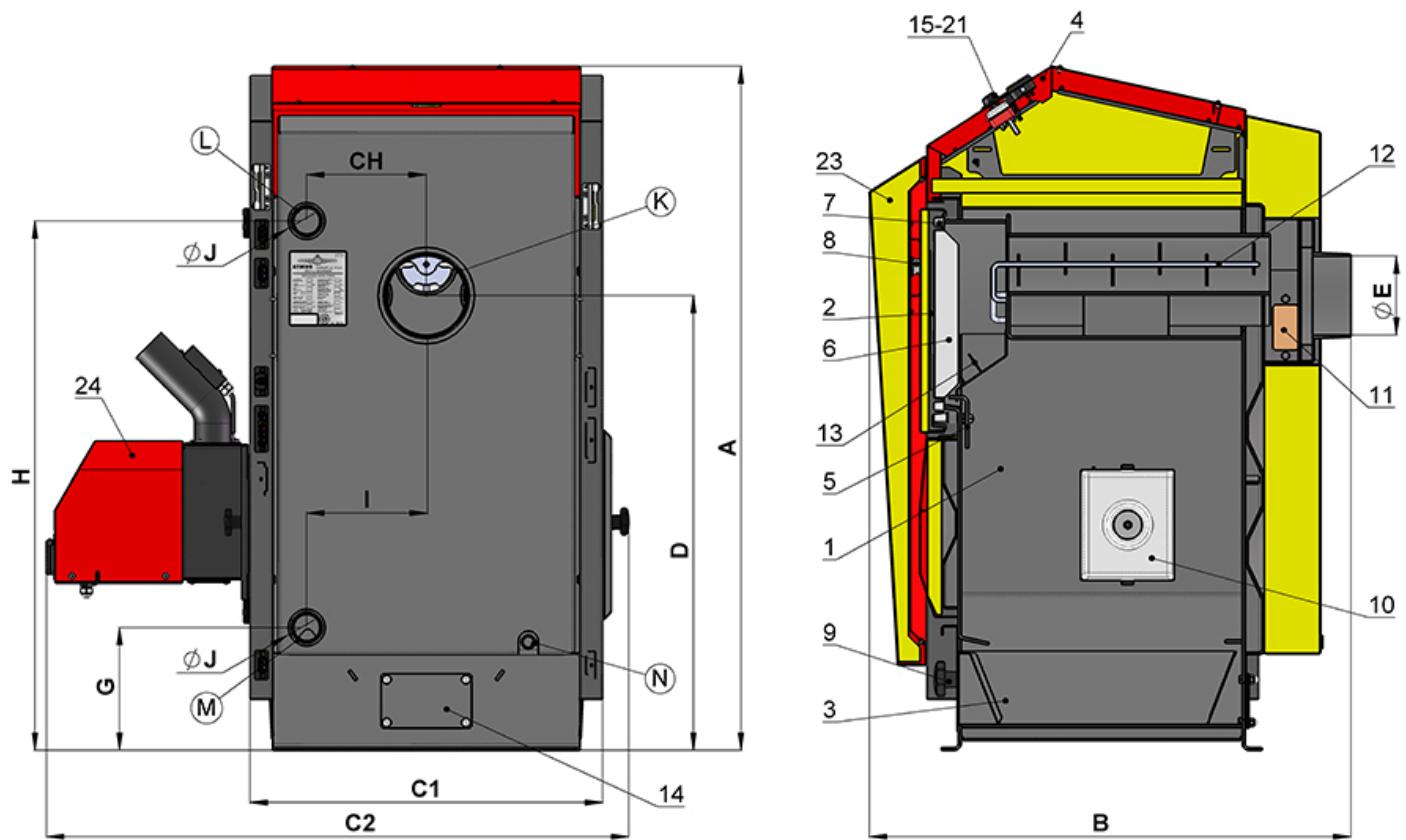
 **Boiler efficiency 90,2 %**

 **Emission class nr. 5 (Eco-design)**



**DxxP boilers meets 5th emission class (Energy efficiency class A+), Ekodesign.**

# Boilers D14P, D21P, D25P



## Description of the boiler drawing D14P, D21P, D25P

1. Boiler body	16. Main switch
2. Cleaning door	17. Control (boiler) thermostat
3. Ashtray	18. Pump thermostat
4. Control panel	19. Safety thermostat
5. Frame shield	20. Fuse T6,3A/1500 – H type
6. Door filling – Sibral	21. Double switch for automatic ash removal and pellet burner
7. Door seal – cord 18 x 18 mm	23. Front cover
8. Closure	24. Pellet burner ATMOS A25
9. Decorative nut	
10. Burner hole cover – plate + insulation	
11. Flue cleaning cover	<b>K</b> – the flue-gas duct neck
12. Tubesheet air decelerator	<b>L</b> – water outlet from the boiler
13. Stainless steel heating screen	<b>M</b> – water inlet to the boiler
14. Blanking plug for built-in automatic ash removal	<b>N</b> – filling valve pipe sleeve
15. Thermometer	<b>P</b> – socket for the sensor of the valve controlling the cooling loop (TS 131, STS 20)

Boiler dimensions (mm)			
	D14P	D21P	D25P
<b>A</b>	1207	1207	1207
<b>B</b>	880	880	950
<b>C1</b>	620	620	620
<b>C2</b>	1027	1027	1027
<b>D</b>	801	801	801
<b>E</b>	150/152	150/152	150/152
<b>G</b>	215	215	215
<b>H</b>	934	934	934
<b>CH</b>	211	211	211
<b>I</b>	211	211	211
<b>J</b>	6/4"	6/4"	6/4"

TYPE ATMOS DP		D 14 P	D 21 P	D 25 P
POWER OUTPUT FOR PELLETS	kW	4 – 14	4 – 19,5	7 – 24
WEIGHT OF BOILER	kg	225	226	248
SPECIFIED DRAFT OF CHIMNEY	Pa	16	18	22
SPECIFIED (PREFERRED) FUEL	HIGH QUALITY WOOD PELLETS OF 6 – 8 mm DIAMETER, LENGTH 10 – 25 mm, CALORIC POWER 15 – 18 MJ/kg			
VOLUME OF WATER	l	56	56	62
TYPE OF PELLET BURNER		ATMOS A25	ATMOS A25	ATMOS A25
SIZE OF EXTERNAL PELLET SILO	l	240, 250, 300, 400, 500, 1000 litres		
VOLUME OF ASH BIN IN BOILER	l	11	11	16
CONTENT OF EXTERNAL ASH BIN FOR AUTOMATIC ASH CLEANING	l	28, 68	28, 68	28, 68
ELECTRIC CONNECTION	V/Hz	230/50	230/50	230/50
ELECTRIC INPUT BY START	W	522	522	522
ELECTRIC INPUT BY OPERATION	W	42	42	42
EFFICIENCY	%	90,3	90,3	90,2
CLASS OF BOILER UNDER EN 303-5		5	5	5
ECODESIGN EU 2015/1189 COMPLIANT		•	•	•
ENERGY EFFICIENCY CLASS		A+	A+	A+