

## FUTURA PIRO

biomass boiler that automatically feeds the fuel into the combustion chamber

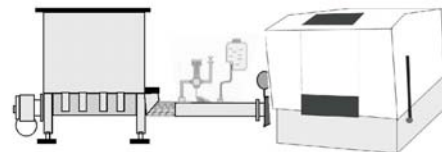


Burns cheapest fuel : wood chips, pellet !

Futura Piro is steel water boiler which burns wood and corn pellet, wood chips, pure wood rubbish. These are renewable ,environmentally friendly, very cheap and easy to buy domestic fuels which can replace imported, more expensive liquid fuel like gas and oil.

**Futura Piro heating system contains :**

- 3 pass boiler made from steel (5-8 mm )
- Outer Jacket with insulation
- Fuel tank with capacity 1 – 6 m<sup>3</sup>
- Worm Conveyor and Gear Motor
- Blower
- Turbulators
- Ceramic Insert
- Digital boiler control
- Pressure Tank set for automatic burn-back protection
- Overheat Cooling Coil



*Our product is manufactured conforming the ISO Norm 9000:2001 TÜV CERT GERMANY, and fulfill hardest emission norms in Europe.*



KOCIOŁ STALOWY KUMULATOR 150 kW

Picture of Futura piro boiler (without stocker) 150 kW.  
When the stocker is detached, we can burn solid fuel like coal,wood.

2 systemy bezpieczeństwa:  
zraszania wodą podajnika  
zabezpieczenia przed przegrzaniem STB



Podajnik ze zintegrowanym  
pojemnikiem na paliwo  
o pojemności 1,3 - 3 m<sup>3</sup>  
(na zamówienie do 6 m<sup>3</sup>)



Wzmocniony motoreduktor,  
system aktywnego zbierania  
paliwa i jego odpadów (talerze  
zbierające paliwo)



Sterownik pracy kotła  
posiada wyświetlacz,  
elektryczny pulpit  
sterowniczy

## FUNCTIONS AND FEATURES OF FUTURA PIRO

### Solid quality

Heater and flue gas plates made from steel 5-8 mm thick (depend on kW version) , combustion chamber made from iron cast and ceramic. Boiler is welded by robots and obligatory pressure controlled



### Digital steering

The Electronic Control Unit regulates the flow of fuel and air for combustion and provides digital readings of boiler temperature, return temperature, and smoke temperature.

### Combustion chamber

Behind the lowest door, the combustion chamber with the ceramic combustion zone can be seen. There is plenty of room for easy cleaning and ash removal. 3 pass water heater zone, provide heating efficiency of 84-88 % !

### **Fuel tank 1,3 – 6 m<sup>3</sup>**

Easy-to-load hopper with reversible door. The hopper can be loaded from either the back, right, or left side. Depend on capacity of the boiler, we have different volume of the fuel tank: f.e: 20 kW = 1,3 m<sup>3</sup>,

200 kW= 6 m<sup>3</sup>. For extra cost we can provide individual hopper volume to each boiler.



### **Gear motor and automatic feeding system of the fuel**

The gear motor turns the worm conveyor/auger and feeds the fuel into the combustion chamber at the proper rate.. The system provides automatically fuel to the combustion chamber. User has to manually ignite the burner and add every 3-4 day fuel to the tank.

### **Safety systems**

Boiler steering is equipped with STB – water overheating sensor, water tank 5 l is connected with anti-return flame system.



## **Requirement of the boiler**

1. We need at least 4 up to 8 q m of the basement area
2. Because of the very high efficiency of the Multi-Heat boilers the flue gas exhaust temperatures can be low enough to cause condensation in the chimney. This condensation may, over time, damage a masonry chimney. If you have condensation in your chimney, a stainless steel chimney liner should be installed inside the flue
3. The chimney must be in good condition. Minimum size of the chimney is 20 cm x 20 cm No other appliance should be connected to this flue. Consult your local building inspector for the chimney requirements and install the boiler in accordance with all applicable codes.
4. Minimum heating area of the 20 kW boiler is 120 q m, maximum 200 kW boiler is 2 000 q m.