



## **Biomass Fired Hot Water Boiler**

"Your Energy Source"

Hot Water Boiler Systems  
Industrial Boiler Components







**2020 / Türkiye**

**Biomass Fired Hot Water Boiler** (Capacity: 6.000.000 kcal/h -6 Bar )

**Sawdust /**  
Sciure de  
bois

**Eucalyptus**  
Leaf

**Wood**  
Barks /  
Écorce

**Woodchips**  
ans Pellets  
Copeaux de  
bois

**Olive**  
Pomace /  
Grignons  
d'Olive

**Sunflower**  
Shell Pellet /  
Coquille de  
graines de  
tournesol pellet

## ISIMEK BIOMASS FIRED HOT WATER BOILERS

(Smart, Sustainable Heating Solutions)

**Clean Energy, Powerful Performance:** **ISIMEK** manufactures industrial biomass hot water boilers with capacities from 500,000 kcal/h (580 kW) up to 20,000,000 kcal/h (23,256 kW), designed for long-lasting performance and energy efficiency. Available in fire-tube and water-tube designs, our boilers operate reliably from 90°C to 180 °C temperature and up to 20 bar working pressure, ideal for heating and industrial processes.





**2023 / Belarus**

**Biomass Fired Hot Water Boiler** (Capacity: 4.500.000 kcal/h - 6 Bar)

Designed & manufactured by ISIMEK in its own factory.  
Our expert team delivers installation and commissioning  
services for projects worldwide.

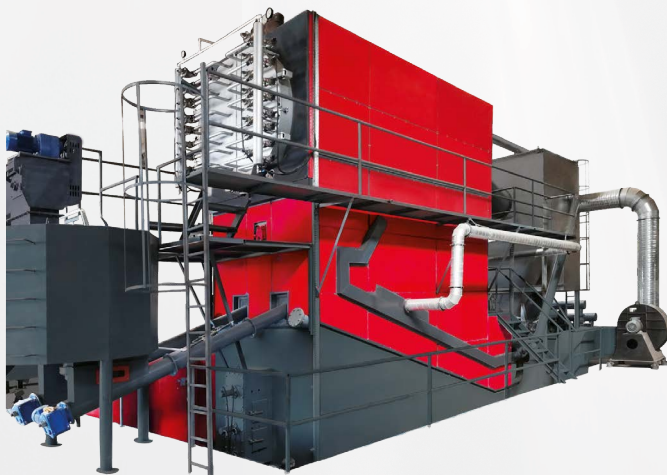




# BIOMASS FIRED HOT WATER BOILER



Special moving grate technology allows you to burn up to **50% Moisture Content Biomass** fuel & also up to 20% content RDF.



## BOILER SYSTEM COMPONENTS

### ISIMEK biomass boiler includes:

- Steel Moving Floor Silo / Concrete Moving Floor Silo
- Belt Conveyor / Chain Elevator
- Bunker Feeding with Auger / Ram Feeder
- Moving Grate, Combustion Chamber
- Smoke Tube Boiler / Water Tube Boiler
- Multi-Cyclone Filter
- Recuperator
- Bag Filter
- Chimney Fan and Chimney
- Remote Access PLC Control Panel (SCADA system optional)

### Product Features & Key Advantages:

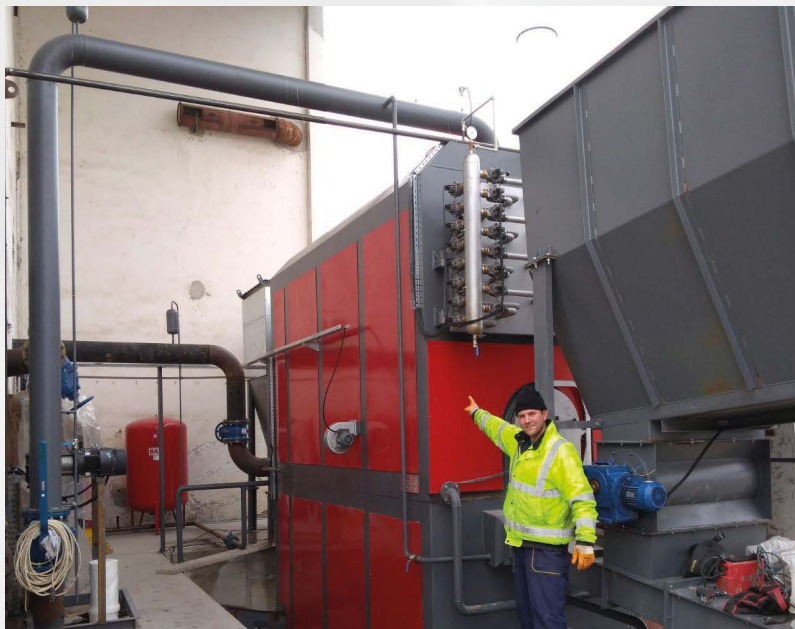
- 90% High Efficiency
- Boiler Tube Cleaning Unit
- Automatic or Manual Control
- P235GH / P355GH Grade Carbon Steel
- Designed in Compliance with European Standards
- Environmentally friendly with low emission values





**2020 / Romania**

**Biomass Fired Hot Water Boiler** (Capacity: 1.000.000 kcal/h - 4 Bar)



**Bulgaria**

**Biomass Fired Hot Water Boiler**



**Romania**

**Biomass Fired Hot Water Boiler**





**2022 / Türkiye**  
**Biomass Fired Hot Water Boiler (Capacity: 6.000.000 kcal/h - 6 Bar)**

**ISIMEK MAKİNA KAZAN İNŞAAT SAN. VE TİC. LTD. ŞTİ.**

**SOLAR ENERGY**

ISIMEK powers its entire facility with solar energy, reinforcing its commitment to sustainable and eco-friendly manufacturing.

**Intelligence in Design, Power in Production, Trust in the World.**

ISIMEK offers maximum efficiency at every stage with its innovative design approach. ISIMEK, which adopts global quality standards in all processes from project planning to assembly, from commissioning to after-sales support, is a preferred solution partner worldwide.

**APPLICATIONS**

- Timber & woodworking industries
- Greenhouse and agricultural heating
- Regional heating networks
- Industrial processing facilities



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