



Biomass Fired Thermal Oil Boiler

"Your Energy Source"

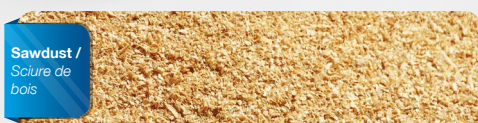
Thermal Oil Boiler Systems
Industrial Boiler Components



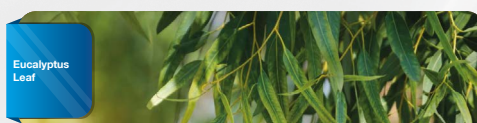


2023 - 2024 / Türkiye

Biomass Thermal Oil Boiler (Capacity: 1.000.000 kcal/h - 6 Bar)
(Steam Generator Capacity: 1500 kg/hr -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 THERMAL OIL BOILERS



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

Reliable Heat Transfer for Industrial Use: ISIMEK manufactures biomass-fired thermal oil boilers designed for industrial applications that require high temperatures at low operating pressures. Our systems deliver thermal oil temperatures up to 300 °C while operating safely between 3-10 bar.

Capacity options range from 500,000 kcal/h to 20,000,000 kcal/h, providing flexible solutions for various industries.

BIOMASS FIRED THERMAL OIL BOILER



2024 - 2025 / Ukraine
Biomass Thermal Oil Boiler
(Capacity: 3.000.000 kcal/h-6 Bar)



BOILER SYSTEM COMPONENTS

Thermal Oil Boiler:

- Concrete Moving Floor Silo / Steel Moving Floor Silo
- Belt Conveyor / Chain Elevator
- Bunker feeding with auger / Ram feeder
- Moving Grate, Combustion Chamber, Pipe Coil
- Multi-cyclone filter, recuperator, economizer
- ID fan, Chimney,
- Reserve tank, expansion tank and deaerator
- Bag filter / Furan and dioxin filters
- Electric control panel, PLC and SCADA automation
- Indirect Steam Generator System

System Features

- Designed with a multi-pass structure that provides up to 90% efficiency
- Manual or fully automatic operation
- Pipe cleaning system saves energy and time
- Fitted with high-quality pumps, valves, and safety equipment
- Conforms to European standards
- Environmentally friendly with low emission values



**2019 - 2020 / Türkiye
Biomass Thermoil Oil Boiler**

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

- Petrochemical Plants •
- Papel, plywood and wood Industries •
- Industrial heating •
- Factory manufacturing process •



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