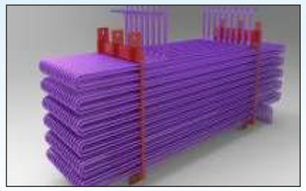
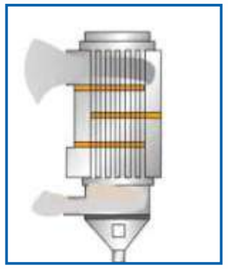
Economiser:

Economizers preheat the Boiler water to recover sensible heat from the flue gas to improve the efficiency of the boiler.



Air Preheater:

Air Preheater is to increase the temperature of the air before it enters to furnace. It is generally placed after the economiser , so the flue gases pass through the economiser and then to the air prehaeater. Pre heated air accelerates the combustion and facilitates the burning of the fuel.



Pollution Control Equipments

Environment protection is crucial problem and the authorities are requested to set increasingly more stringent emission limits. We also provide pollution control solutions for our Power Plants.

Electrostatic Precipitator:

It removes dust particles from flue gases by using the force of an induced electrostatic attraction. It is highly efficient filtration dev ices that allow the flow of flue gases through device and can easily remove fine particulate matter such as dust and smoke from flue gases.

Bag Filter:

Dust particles are separated by passing it through a fabric medium with a large surface area. These particles are not able to penetrate the medium will be retained on its surface. The dust particles fall immediately into the hopper, while the lighter ones deposit on the outer surface of filter bags. Dust deposited on bag surface is dislodged & bag is cleaned by pulse of high pressure compressed air.

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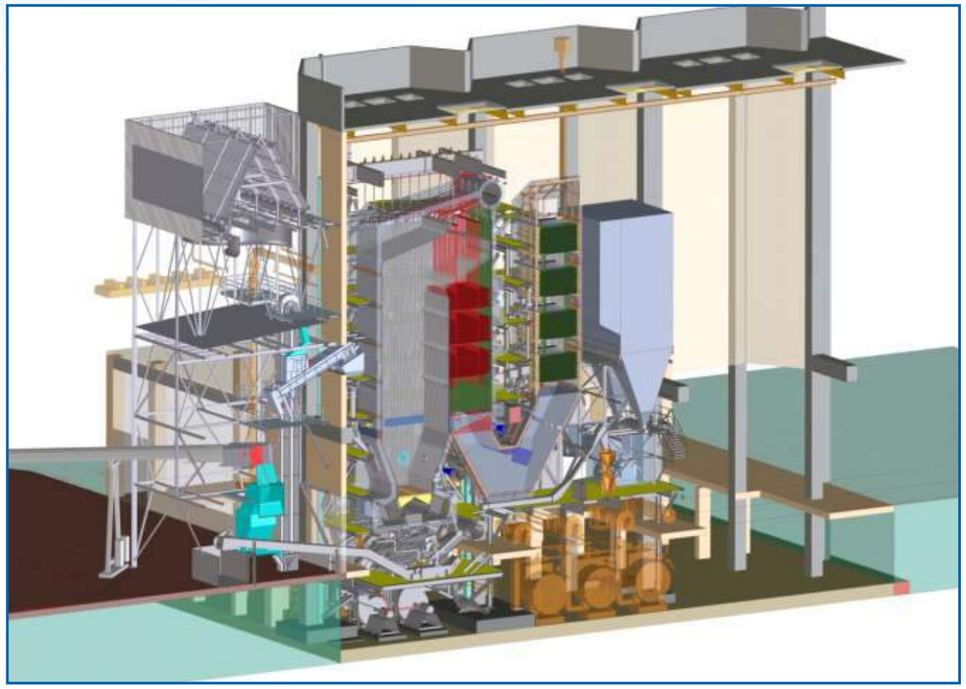
EnerMax

The most efficient way to generate superheated steam for Power Plants



We offer efficient Power Boilers with modern combustion technologies to generate heat.
Our equipment can be sourced and constructed cost - effectively around the globe while meeting high quality standards.

Operating Range

Capacities : Up to 250 tph
Pressure : Up to 110 bar
Temperature : 520 degC

We add value to your needs....

Atmospheric Fluidized Bed Combustion

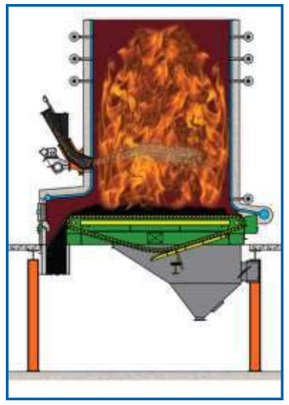
Able to Combust:

Low & high grade Coal, Rice husk, Palm Kernel shell and well sized Biomass fuels.

AFBC boilers are more suitable for burning high ash or sulphur content fuels.

- Multi-fuel feeding
- Membrane panels provide gas tight enclosure for better efficiency of boiler & minimum refractory
- In bed Evaporator design for better reliability and bed temperature control
- Studded in-bed coils
- 2-Stage / 3-Stage Super Heater with Inter-Stage Spray type De-Super heater
- Bi-Drum / Single Drum, Natural Circulation

Travelling Grate



Able to Combust:

Bagasse, Mustard Stalk, Rice Husk, Paddy Straw, Wood chips, Lignite, Indian /Imported Coal, Soya Husk, Coffee Husk, Julie Flora, Sun Flower Husk, Cotton Stalk, Cow Dung cakes and combination of above fuels.

Travelling Grate Boilers are in good fuel flexibility, low maintenance and enhanced availability.

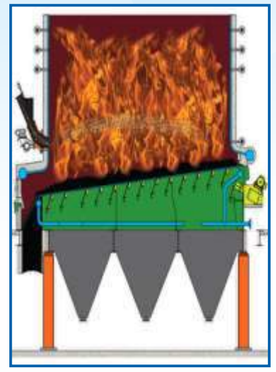
- Bi-Drum / Single Drum, Natural Circulation
- Bottom/ Top Supported Design
- Tall furnace for Staged and Complete Combustion
- Membrane panels provide gas tight enclosure for better efficiency of boiler & minimum refractory
- 2-Stage / 3-Stage Super Heater with Inter-Stage Spray type De-Superheater

We add value to your needs....

Reciprocating Grate

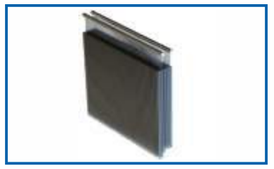
Able to Combust:

Biomass Briquette and Pellet, Rice Husk, Wood Chips, Palm Kernel Shell, Palm Fibers, High moisture Biomass and Combination of the above fuels



- Reciprocating Grate design Suitable for highly moist fuels up to 60% moisture
- It can handle seasonal fuel variations withvarying moisture and calorific value
- Bi-Drum / Single Drum, Natural Circulation
- Bottom/ Top Supported Design
- Membrane panels provide gas tight enclosure for better efficiency of boiler & minimum refractory
- 2-Stage / 3-Stage Super Heater with Inter-Stage Spray type De-Superheater

Boilers Pressure Parts and Critical Components



Super Heater:

Super heaters convert saturated steam into dry steam in boiler that improves the thermal efficiency

Water Walls:

Boiler water walls are membrane walls that are made of tubes welded together with or without a strip of metal in between. These walls form the enclosure of the Furnace. Water wall tubes are also referred to as the evaporator section; they contain water mostly in liquid form which gradually evaporates as it rises in the boiler.

Evaporator (Single Drum / Bi Drum): Phase change occurs in the Evaporator by taking the latent heat then liquid water converts into saturated steam.

The primary purpose of the steam drum is to separate the saturated steam from the steam-water mixture that leaves the Evaporator and enters the drum. The steam-free water is recirculated within the boiler with the incoming feedwater for further steam generation.

We add value to your needs....