

Product Features

- High Thermal Efficiency
- High temperatures with Low Pressures
- Fully Automatic Safety Systems
- Low Fuel Consumption
- Easy Operation
- Low Maintenance Costs
- Long Life of Thermic Fluid due to the optimal system design
- Integrated PLC control

Advantages of working with MAHATHI

- Fast and professional proposals
- Complete engineered system solutions
- In-house production of core products
- Simple system with a limited number of components to be installed
- Delivery of all necessary system components
- Global After Sales Support



Automation

HMI with **SCADA** provides easy access to the operators. It monitors & controls the fuel feeding & balances the draft. This in turn support fuel saving.



Maintenance

Period Maintenance can be scheduled through the **Human Machine Interface System**.

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An ISO 9001:2015 Certified EPC Company,
IBR 1950, ASME, U, S, PP & R and PESO Certified Manufacturer

SALES & MARKETING

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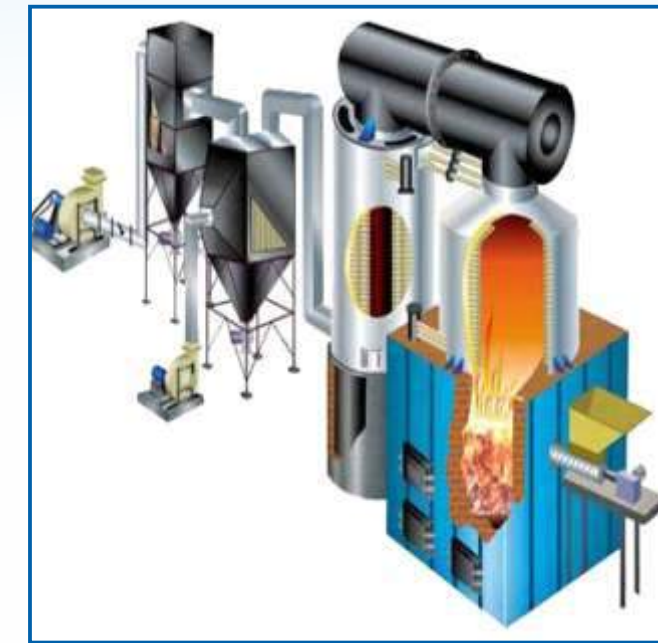
Email: sales.sea@mahathiinfra.com

CaleMax

Optimal Heating Solutions



OIL & GAS FIRED THERMIC FLUID HEATERS



SOLID FUEL FIRED THERMIC FLUID HEATERS

| Description | Oil & Gas fired | Solid fired |
|---------------------------------|---------------------------------------|--|
| Capacity | 2 mkcal/hr to 15 mkcal/hr | 2 mkcal/hr to 15 mkcal/hr |
| Operating temperature | Up to 300 degC | Up to 300 degC |
| Fuels | FO, LPG, LDO, LSHS, NG etc | Coal, Biomass fuel like Rice husk, wood chips, wood pellets etc |
| Type of combustion technologies | Burner directly mounted on the heater | Fluidized bed combustion, Reciprocating Grate and Travelling grate |

We add value to your needs....



PRINCIPLE OF OPERATION FOR OIL & GAS FIRED HEATERS

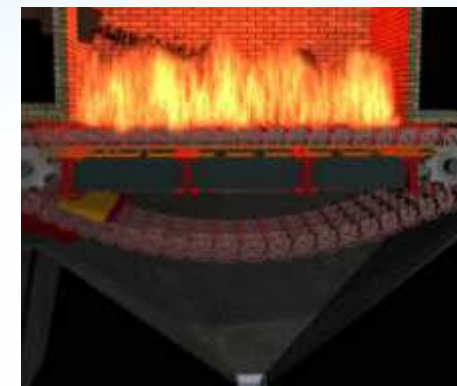
Oil & Gas fired heaters generate heat by combustion of Liquid or gaseous fuels like FO, LPG, NG etc.

- Our system is fully automatic horizontal / vertical coil type, forced draft system.
- An integral combustion chamber arranged as a nest of concentric helical tube coil fabricated out of seamless/high heat resistant ERW boiler tubes recommended for high temperature application. It ensures that maximum of its heating surface is exposed to radiant heat thereby ensuring excellent thermal efficiency.
- The wet back jacket and concentric coil allows three flues passes to ensure low heat release and maximum heat transfer. The design warrants little amount of refractory work on the hinged door to keep thermal inertia low.
- The concentric coils are placed within a shell fabricated out of Mild Steel.
- Our System is equipped with a fully ultimate pressure atomizing type or modulating oil/gas burner.
- The Burner is a mono-block construction and can be hinged to left or right.



PRINCIPLE OF OPERATION FOR SOLID FUEL FIRED HEATERS

Solid Fuel fired heaters generate heat by combustion of fuels like Coal, Rice Husk, Wood Pellets, Wood Chips, Briquettes etc. Combustion chamber is designed based on type of fuel & moisture present.



Traveling Grate: Mainly designed for Biomass fuels like Palm kernel shell, Rice Husk, Wood Chips, Bagasse and other fuels like Coal.

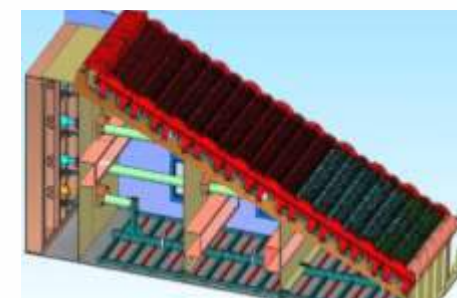
The fuel is fired from opposite side of the grate which allows volatile matter to burn in air while spreading through the stoker. This provides immediate heat to support the fluctuating demands in process industries



Fluidized Bed: Mainly designed for fuels like coal where the moisture & ash percentage is higher.

Fuel is fed into the bed from bottom known as Under bed feeding. It enables proper mixing of coal with the hot sand at 900 Deg C. This method is used when the coal is low grade & uneven in size. Over bed feeding is also possible where the coal is of good quality & well sized.

Rice Husk, PKS, Wood Chips are also combustible in this technology.



Reciprocating Grate: Mainly designed for fuels like Palm EFB Pellets, Palm Fiber where there is a high moisture content.

Three zones of combustion allows the complete burning of fuels. The fuel tumbles down due to reciprocating action of the grate which allows fuel to burn completely.

OUR TEAM OF ENGINEERS SHALL SUGGEST THE BEST COMBUSTION TECHNOLOGY AS PER OUR CUSTOMER REQUIREMENTS

We add value to your needs....



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