

MECHTHERM



Pioneer in Energy and Environment

SOLID FUEL FIRING-MEP-S SERIES

Capacity : 500 Kgs/hr To 6000 Kgs/hr
Pressure : 10.54 kgs/cm² to 17.5 kgs/cm²
Fuel : Wood, Coal, Briquette.
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ Horizontal three pass fully wet back design Minimal radiation losses as furnace in internal and surrounded by water.
- ▶ Ideal for process industries for continues operation.
- ▶ Very quick and easily erected and commissioned.
- ▶ Less susceptible to power water quality.
- ▶ Less space due to rugged design.
- ▶ Twin Furnace for 4.0TPH to 6.0 TPH



AUTO FUEL FIRING -MEP-AF-SERIES

Capacity : 500 Kgs/hr To 6000 Kgs/hr
Pressure : 10.54 Kgs/cm² to 24.5 kgs/cm²
Fuel : Husk, Pulverized Coal & Briquette, Wood chips
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ Horizontal three pass fully wet back design.
- ▶ Fully automatic operation for pulverized fuel.
- ▶ More free board free for better combustion.
- ▶ Quick response to fluctuating steam demand.
- ▶ Single and Twin furnace design.
- ▶ Optimized grate area for effective combustion.
- ▶ Twin Feeding Point for 4.0TPH to 6.0TPH



MEMBARANE SOLID FIRING-MEP-MS/MAF-SERIES

Capacity : 2000 Kgs/hr To 8000 Kgs/hr
Pressure : 10.54 kgs/cm² to 32.0 kgs/cm²
Fuel : Wood, Coal, Briquette (Manual Firing), Husk, Coffee
Husk, Pulverized Coal & Briquette, Groundnut shell (Auto firing)
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ Larger furnace volume and Free board area hence ideal for fuel with high volatile content.
- ▶ Fully Automatic boiler with all kind of Pulverized fuel.
- ▶ High thermal efficiency due to membrane panel.
- ▶ Superior membrane technology resulting in quick generation of steam
- ▶ Less fuel consumption since thermal efficiency is high.
- ▶ Less power consumption based on superior design.



FLUDISED BED FIRING -MEP-FB-SERIES

Capacity : 5000 Kgs/hr To 20000 Kgs/hr
Pressure : 10.54 kgs/cm² to 32 kgs/cm²
Fuel : Husk, Pulverized Coal & Briquette, Coffee Husk,
Groundnut shell, Wood chips
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ Design for continuous operation for long duration without stopping for maintenance.
- ▶ Overbed and underbed feeding option available.
- ▶ Quick response for steam demand fluctuation.
- ▶ Large furnace volume and free board area resulting in efficient combustion.
- ▶ Losses due to air leakages and maintenance minimal as very little refractory used.
- ▶ Fully automatic operation for consistent and uninterrupted steam generation.
- ▶ Less excess air required for combustion hence very high thermal efficiency.
- ▶ Instrumentation and controls are customized for various requirements of customer for easy, safe and efficient operation.



MECHBLOC-MEP-MB-SERIES

Capacity : 2000 Kgs/hr To 8000 Kgs/hr
Pressure : 10.54 kgs/cm² to 32 kgs/cm²
Fuel : Wood, Coal, Briquette (Manual Firing) Husk, Pulverized
Coal & Briquette, Coffee Husk (Auto Feeding)
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ More furnace volume ensure better quality of combustion.
- ▶ Skid mounted, Factory assembled ready to install.
- ▶ Higher fuel flexibility.
- ▶ Less space due to shell assemble above the water wall.
- ▶ Higher thermal efficiency.
- ▶ Less civil and less installation time.



MECH OIL & GAS FIRED -MEP-O-SERIES

Capacity : 500 Kgs/hr To 30000 Kgs/hr
Pressure : 10.54 kgs/cm² to 32 kgs/cm²
Fuel : Furnace oil / LDO / HSD /LPG
Design : IBR/ BS / ASME / LLOYDS

SPECIAL FEATURES

- ▶ Fully wet back three pass design
- ▶ Large furnace volume ensure high combustion efficiency.
- ▶ All stay tube design ensure long tube life.
- ▶ Steady steam pressure during peak loads.
- ▶ Fully automatic boiler & Burner control.
- ▶ Boiler performance monitoring system.



GALLERY



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