

Package Solid Fuel/Oil/Gas Fired Boiler



Innovation | Excellence | Integrity | Safety



Volfram Systems India Pvt Ltd. has been a leading engineering firm from past decade, in the field of **STEAM ENGINEERING**. We take pride in being the most reliable and sustainable engineering company for all your steam related needs. With an extensive track record of successfully handling the project consultancies for process industries like Pharmaceutical, Food and Beverages, Textile and Paper, Oil and Gas and many more.

The success of any industry relies on the reliable supply of efficient steam system and efficient recovery of condensate. Volfram Systems plays a central role in achieving energy efficiency through innovative steam and condensate products and customized solutions.

As **STEAM EXPERTS**, we excel in the manufacturing of steam accessories, process automation and project consultation services.

Wide Range of Steam Products: Being a prominent manufacturer in the industry, we produce a wide range of steam products, including Steam Traps, Steam Valves, Condensate Recovery Systems, Pressure Reducing station, Hot Water Systems and many more.

Comprehensive Steam Solutions: Our comprehensive steam solutions are designed to be sustainable, energy-efficient, and marked by innovation providing end-to-end solutions for our valuable clients.

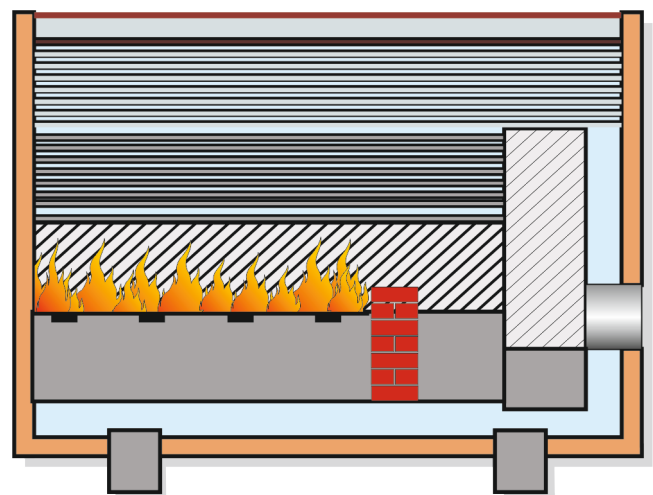
Distinctive Features and Advantages of Volfram's Package Boiler

Highest Effective Heat Transfer Area

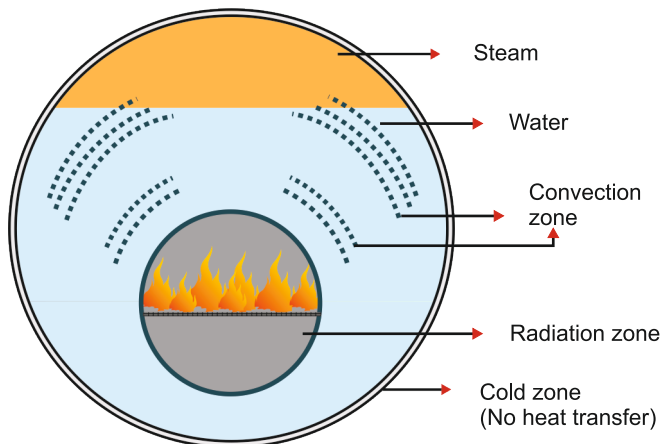
- Low unburned losses.
- Ensures rated capacity of steam generation and pressure.
- Fastest response time.
- Lower fuel consumption due to high efficiency.
- Delivers 98% Dry steam even in fluctuating loads.

All Heat Transfer Tubes only in Hot Zones

- This avoids the reversal heat transfer in standby condition.
- Effective heat transfer leads to lowest cold start-up time.
- immediate response to load fluctuation.



Effective Heat Transfer Area



No Tubes in the cold zone

Furnaces Diameter and Grate Length

Volfram offers highest furnace length and width, wider grate area leading to following

- Ensure Complete Covering of grate area with equal fuel distribution
- Finest distribution of fuel due to complete utilization of grate till the extreme end
- Higher Furnace diameter suitable for manual fuel firing

Salient Feature of Volfram's Boiler

Higher Water Hold Up - The boiler response is a derivative of the water hold-up and the effective heat transfer area. Which offers the highest effective heat transfer area and highest water hold-up around 10-20% over other boilers in similar range. The quality of steam produced by the boiler is 98% dry, which results in reduction of process time.

Bigger Steam Space - Our boiler offers 20% higher steam space over other boilers in similar range. the additional steam stored helps for better response in peak demands.

Lower Stack Temperature - The outlet stack temperature of the boiler is designed to restrict in the tune of 220 degree Celsius , where conventional bear boilers stack temperature is always found in the tune of 240-260 degree Celsius.

Fully Packaged Boiler - Volfram offers truly packaged boilers which are pre-wired, pre-insulated and saddle mounted. The additional mounting like ladders and platforms are integrated parts of supply.

On-site - Volfram engineers can offer on-site activities of IBR passing, various piping, supply of feed tank and other boiler house accessories.



Gas / Oil Fired Package Boiler

- Capacity - 500 Kg/hr to 10000 kg/hr
- Design Pressure - 10.54 kg/cm², 17.5 kg/cm², 21 kg/cm²
- Fuel - FO, LDO, HSD, NG

Efficiency - As per BS 845 Part 1, NCV Basic

- 89% without HRU
- 94% with HRU for NG
- 92% with HRU for FO/LDO

Manufacturing: Process Equipment and Pressure Vessels

- Boiler Economizer
- Coil type Boiler
- Boiler Blow-Off Tank
- Condensate flash Vessel
- Hot water systems
- Storage Tanks

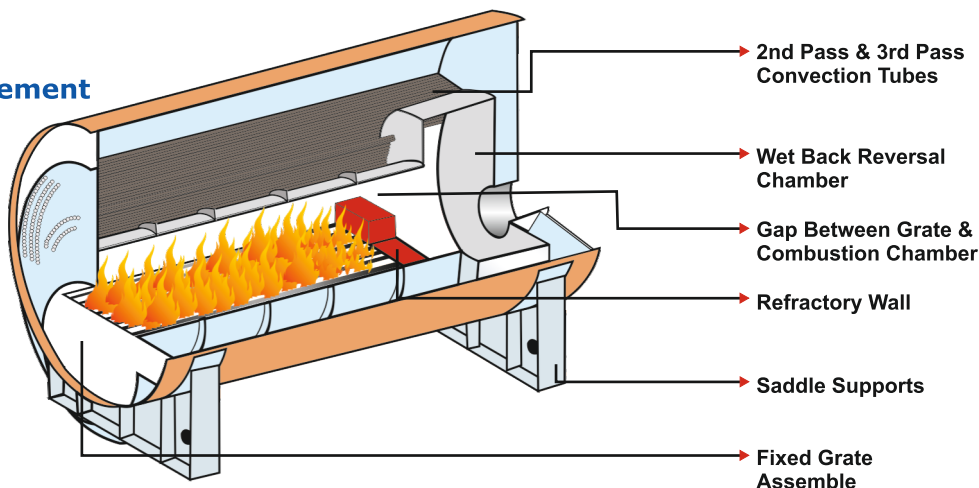
Solid Fuel Package Boiler

- Capacity - 500 Kg/hr to 5000 kg/hr
- Design Pressure - 10.54 kg/cm², 17.5 kg/cm², 21 kg/cm²
- Fuel - Wood Chips, Briquettes, Coal

Efficiency - As per BS 845 Part 1, NCV Basic

- 79% without HRU
- 83% with HRU

General Arrangement



Make Your Boiler Smart



V Pro / V Max Boiler Control and Data Monitoring

Volfram offers highly advanced microprocessor based controllers which have multicolor touch screen with data monitoring, process control logic along with web access for the same.

Application:- Boiler Controls Process Control and automation



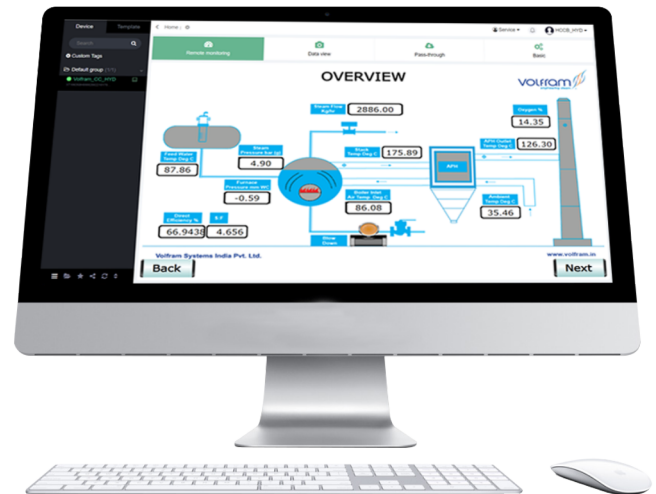
Boiler Automatic TDS Based Blow-Down System

We offer the most advanced boiler controller for maintaining TDS (Blow-Down) and other boiler parameters. The system is available with IBR certification and support provided at site.

V SMART the Boiler Efficiency Monitoring System

Help to improve performance of boiler by monitoring various parameters contributing to higher efficiency of boiler. The system provides complete information about the performance, condition and operating efficiency of boiler, both in real time and in history. The system not only helps in saving fuel but also enables a proactive response to failure before they cause unpredicted shutdowns. The parameter monitored are as follows:

- Boiler Efficiency
- Steam Flow
- Excess Oxygen in stack
- Stack Temperature
- Feed Water Temperature
- Furnace Pressure
- Fuel Flow**
- Boiler Blow Down
- Steam Pressure



Volfram Systems India Pvt. Ltd.

An ISO 9001:2015 Certified Company

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