

ABOUT US

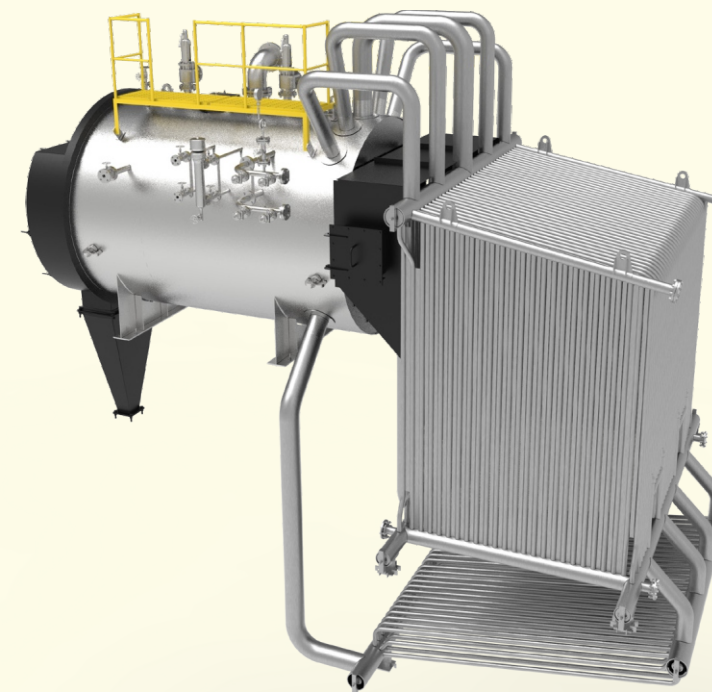


- ASHWINI Engineering Industries, a manufacturer of Boilers has been promoted by four Technocrats who have vast experience in Boilers more than 3 decades.
- ASHWINI manufacture all types of Boilers which includes package Boilers, FBC, Travelling grate, Oil/ Gas fired and HRSG Boilers ranging from 1 TPH to 150 TPH for various fuels like Coal, Lignite, Rice husk, G N shell, Saw dust, Wood, Oil & Gas.
- ASHWINI group is having 100+ satisfied customers in all segments of industries including corporates like,
 - BHEL
 - TVS
 - TNPL
 - FLSMIDTH
 - G.E TRIVENI
 - EMAMI
 - ACC
 - VINATI
 - VENKRAFT PAPER
 - VEDANTA
 - GARDEN
 - PINAX PAPER
 - JSW STEEL
 - K.G.DENIM
 - MAA CHINNAMASTIKA
 - BIRLA
 - SKM ANIMAL FEEDS
 - MACKENZIE
 - MIMSON
 - DOLPHIN FOODS
 - (MALAYSIA)
 - (TURKEY)
 - VEERAL ORGANICS
- ASHWINI has very high level of technical, manufacturing and management capabilities to deliver the best quality and reliable products on time to cater the customer needs.

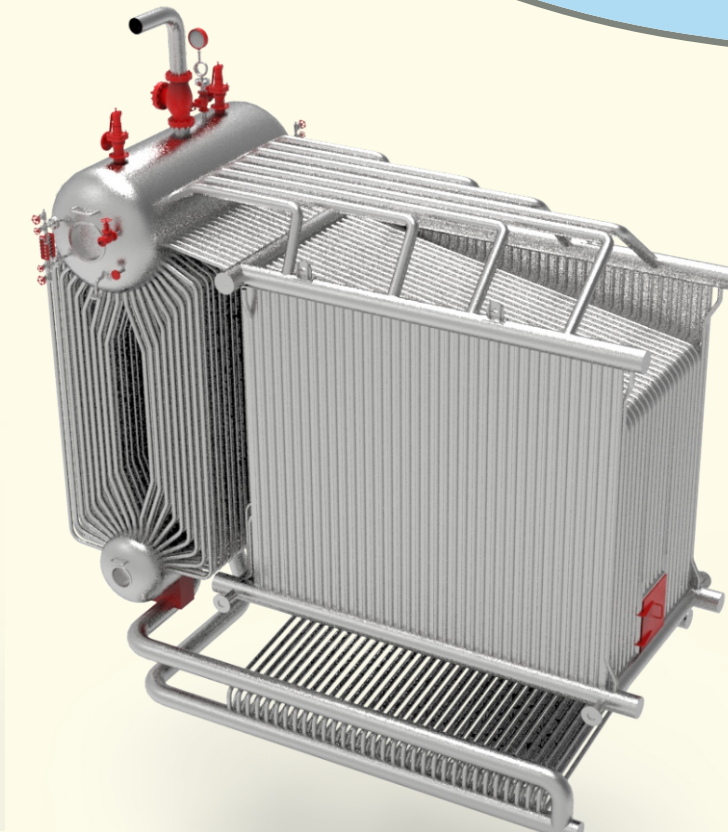


ASHWINI BOILERS

(ISO 9001 : 2015 Certified)



Shell-Water wall Design
(Hybrid)



Bi-Drum Design
(Water tube)

ASHWINI ENGINEERING INDUSTRIES

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Phone : +91 431-2420275 | Mobile : +91 97919 15597, +91 93451 44931

Web : www.aeboilers.com | eMail : sales@aeboilers.com

Factory:

Unit 1 : SF 28/1, Pudukkudi South, Tanjore - 613402

Unit 2 : C-14/1&2, Industrial Estate, Thuvakudi,
Trichy - 620015, Tamilnadu, India.

Sales and service centres:

H.O, Hyderabad, Raipur,
Indore and Surat

BUBBLYTHERM

MULTIFUEL SERIES

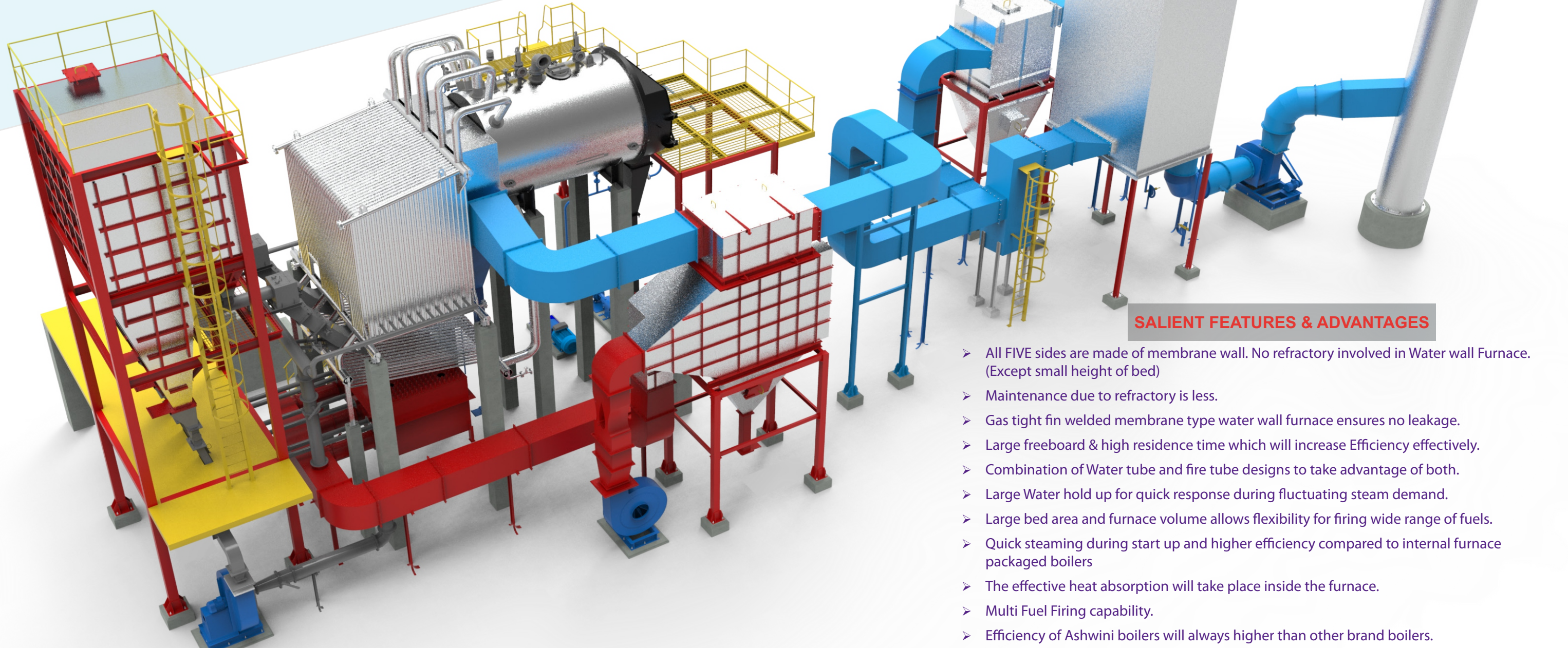
DESCRIPTION:

This is Hybrid design of Fire tube and water tube combination, having gas tight fin welded membrane water wall furnace and Shell which consists of fire tubes. This design combine the advantage of both fire and water tube design and mostly suitable up to 12 TPH, 17.5 kg/cm²(g) pressure.

Atmospheric Fluidised Bed Combustion boiler capable of firing almost all the Bio mass / solid fuels having low calorific value, high moisture content or high ash content.

Automated fuel firing system with either Under bed or Over bed or both firing option is possible with or without Bed coil to achieve highest combustion efficiency.

These types of boilers can easily take the load fluctuation without affecting the overall Performance and Efficiency of the boiler.



SALIENT FEATURES & ADVANTAGES

- All FIVE sides are made of membrane wall. No refractory involved in Water wall Furnace. (Except small height of bed)
- Maintenance due to refractory is less.
- Gas tight fin welded membrane type water wall furnace ensures no leakage.
- Large freeboard & high residence time which will increase Efficiency effectively.
- Combination of Water tube and fire tube designs to take advantage of both.
- Large Water hold up for quick response during fluctuating steam demand.
- Large bed area and furnace volume allows flexibility for firing wide range of fuels.
- Quick steaming during start up and higher efficiency compared to internal furnace packaged boilers
- The effective heat absorption will take place inside the furnace.
- Multi Fuel Firing capability.
- Efficiency of Ashwini boilers will always higher than other brand boilers.

SAFETY INTERLOCKS:

- Mobery with four switches to have separate signal for automated feed pump ON/OFF operation and Fan cut off.
- High steam pressure cut-off through pressure switch.
- High Furnace pressure cut-off through pressure switch.
- Auto Start and Stop of fuel feeder through bed temperature.

RANGE:

- CAPACITY : 3 TPH to 12 TPH
PRESSURE : Upto 17.5 Kg/cm²(g)
FUELS : Coal / Paddy husk / Lignite / GN Shell / Agro waste
APPLICATION : Paper, Pharma & drug, Solvent & Refinery, Food Process, Textile, Chemical, Rice mill etc.,

DESCRIPTION:

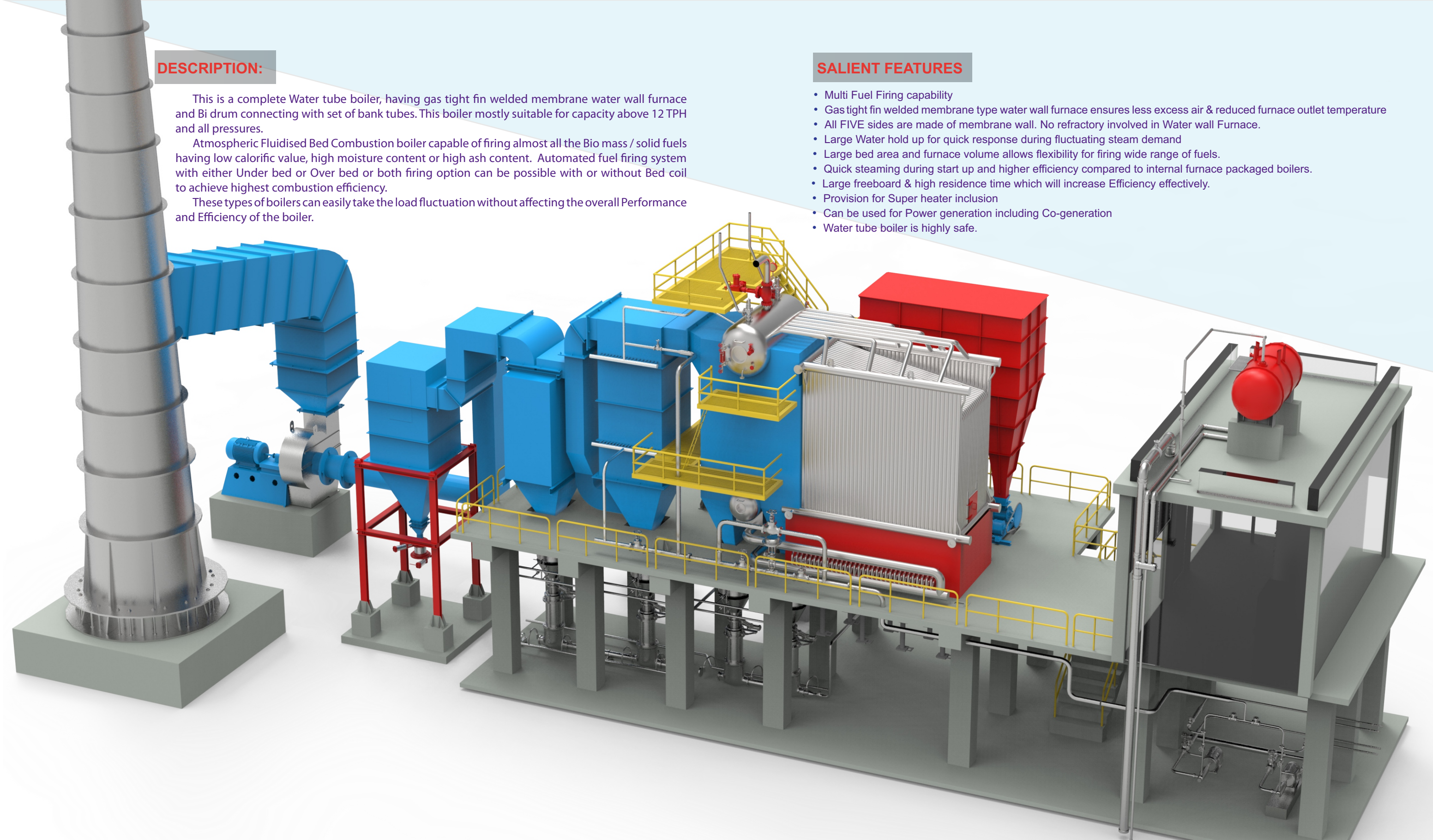
This is a complete Water tube boiler, having gas tight fin welded membrane water wall furnace and Bi drum connecting with set of bank tubes. This boiler mostly suitable for capacity above 12 TPH and all pressures.

Atmospheric Fluidised Bed Combustion boiler capable of firing almost all the Bio mass / solid fuels having low calorific value, high moisture content or high ash content. Automated fuel firing system with either Under bed or Over bed or both firing option can be possible with or without Bed coil to achieve highest combustion efficiency.

These types of boilers can easily take the load fluctuation without affecting the overall Performance and Efficiency of the boiler.

SALIENT FEATURES

- Multi Fuel Firing capability
- Gas tight fin welded membrane type water wall furnace ensures less excess air & reduced furnace outlet temperature
- All FIVE sides are made of membrane wall. No refractory involved in Water wall Furnace.
- Large Water hold up for quick response during fluctuating steam demand
- Large bed area and furnace volume allows flexibility for firing wide range of fuels.
- Quick steaming during start up and higher efficiency compared to internal furnace packaged boilers.
- Large freeboard & high residence time which will increase Efficiency effectively.
- Provision for Super heater inclusion
- Can be used for Power generation including Co-generation
- Water tube boiler is highly safe.



SAFETY INTERLOCKS:

- Mobery with four switches to have separate signal for automated feed pump ON/OFF operation and Fan cut off.
- High steam pressure cut-off through pressure switch.
- High Furnace pressure cut-off through pressure switch.
- Auto Start and Stop of fuel feeder through bed temperature.

RANGE:

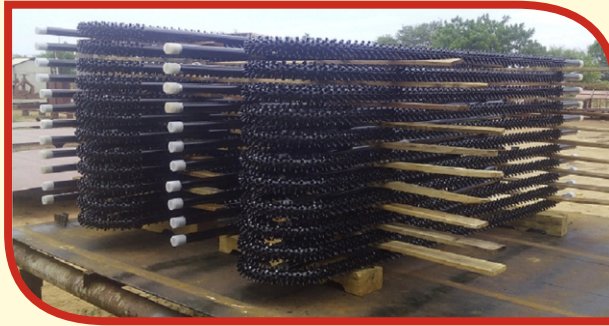
- CAPACITY : 12 TPH and above
- PRESSURE : Any pressure
- STEAM TEMP : Up to 520° C
- FUELS : Coal / Paddy husk / Lignite / GN Shell / Agro waste
- APPLICATION : Paper, Pharma & drug, Solvent & Refinery, Food Process, Textile, Chemical, Rice mill, Steel etc.,

BOILER COMPONENTS



BED COIL ASSEMBLY

- Tubes are arranged with wider pitch which provides lower velocity between tubes and avoid erosion level.
- Weld joints are avoided from the bed to ensure the life.
- Bends are avoided from the bed to avoid erosion.
- Tubes are arranged to ensure the complete immersion within the bed.
- Higher thickness of 6.35 mm provides longer life.



BED COIL TUBE WITH STUDS

- Studded Bed coils are provided for high pressure Boiler.
- Normally Studded coil are of 'HAIR PIN' type suitable for high capacity Boiler where furnace size is Bigger.
- Weld joints are avoided from the bed to ensure the life.
- Bends are avoided from the bed to avoid erosion.
- Higher thickness of 6.35 mm provides longer life.



WATER WALL ASSEMBLY :

- All five sides are covered with membrane water wall and there is no refractory.
- No air ingress and no refractory related maintenance in furnace.
- Comparatively less refractory used in fluidized bed which facilitate bed coil maintenance and re-radiation effect for better combustion.
- Additional expenditure for refractory for water wall is not applicable unlike three sides water wall (HUTTYPE) design



DRUM

- Drums are sized with sufficient steam space
- Drums are provided with internals with efficient design to avoid water carry over.
- Man hole doors are provided on both sides for easy maintenance.



SHELL

- Fire tubes are designed with optimum flue gas velocity to avoid erosion.
- Fire tubes are designed with optimum pressure drop which reduces running power consumption.
- Shell is sized with sufficient steam space

WHY TO PREFER ASHWINI?

DESIGN:-

- ASHWINI has its own Design Team having group of designers who are Senior most (Active) in the Boiler Industry today.
- Directors designed more than 1000 boilers and has a very Rich Hands on Experience of more than 3 decades.
- Since each Project is dealt by Director directly, customer will receive the utmost response for all the requirements.

MANUFACTURING:-

- ASHWINI is located in Trichy which is one of the biggest fabrication hub in India due to the presence of BHEL (High Pressure Boiler Manufacturing Unit) and its ancillaries . Hence the skill sets such as High Quality IBR Welders , Fitters, etc., are available in abundant.
- here is a Common Facility Center promoted by Govt of India, wherein Higher Thickness Drum rolling is available.
- We have supplied more than Dozen of boilers having Design pressure of 100 KSC with Drum Thickness of 80 mm

MANUFACTURING SETUP:-

- Ashwini has own manufacturing setup in heart of the industrial area.
- There are two units.
- Ashwini has ISO 9001 - 2015 Certified.
- Present work force is having very rich experience and worked in Leading Boiler manufacturing company

ERECTION & SERVICE :-

- Our Erection and after sales department is headed by a official who had worked in leading boiler manufacturing company and responsible for erecting more than 200 boilers including 1200 TPH Boiler
- Highest level of response can be expected

FINANCE:-

- By the grace of God, AEI is so far managed with highest level of financial discipline without any fund or non fund based liability with any bank. Our bankers are Indian Overseas Bank, Cantonment, Tiruchirappalli. Our finances are sound to execute your project.