

Utech Projects Pvt. Ltd.



Solid Fuel Fired Three Pass Packaged Steam Boiler



- 500 kgs/hr to 6000 Kgs/hr Steam Generator.
- 10.54 Kgs/cm² Pressure to 17.5 Kgs/cm² & above.
- Fuel Briquette/Wood/Coal.
- Efficiency of more then 75% with heat recovery system.
- Internal Furnace & Smoke Tubes submerged in water.
- Heater Recovery System (Water/Air)

'ENERGYPACK' Solid Fuel Fired IBR 3-Pass Fully Wet Back Boilers

IBR agro Waste/Coal Fired Smoke tube Steam Boilers that is assured to have High quality standards. These are offered with optional accessories of Heat recovery units (HRU) such as air pre-heater or water pre-heater. This helps in recovering maximum possible waste heat from outgoing flue Gases giving better thermal efficiency.

Features of Solid Fuel Fired Three Pass Packaged Steam Boiler.

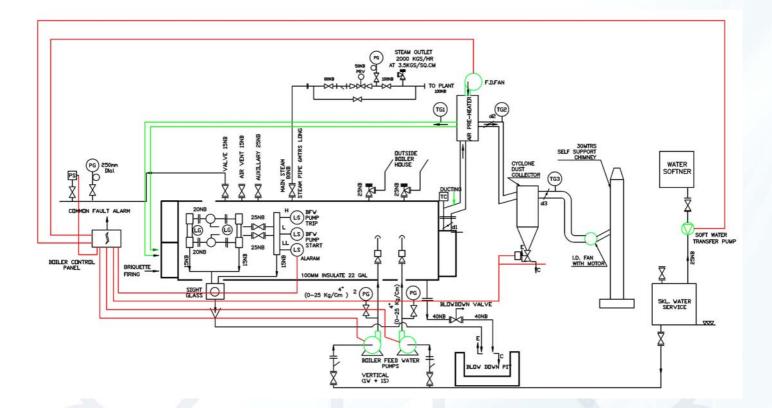
- ♦ Designed & manufactured in accordance with Indian Boiler Regulations (IBR 1950 & its latest amendments).
- Higher heat transfer areas giving superior thermal efficiency.
- Higher steam space & water holding for effective response to fluctuating loads.
- ♦ Liberal grate area to ensure complete combustion & eliminate clinker Formation.
- Significant saving in fuel cost when the operation is compared to that of an oil fired boiler.
- Multi-cyclone separator (dust collector) is provided as an optional item to collect the fly ash particles & clean the outgoing flue gases.
- Solid fuel when fired manually has less maintenance & easy operation.
- Steam safety relief valves for mechanical safety.
- Automatic Magnetic water level controller for controlling the water level.
- Gauge glass indicators for water level indication with protector glass.
- Two Nos. Fusible plug provision to safeguard the boiler tubes & the furnace incase of low water.
- Factory assembled horizontal packages boiler.
- Less site work and immediate commissioning.
- Suitable for coal, wood briquette and agro waste fuels.
- Large integral furnace.
- Induced draught fan facilities fuel feeding and de-ashing without interruption.
- Three passes fully wet back optimum heat recovery.
- End to end visibility of tubes.
- Easy access for inspection and cleaning.
- Limit switch provided with ID fan interlock being additional safety for back firing.



Grate for Solid Fired Boiler

Technical Specifications:

MODEL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL	EBPL
	C-I	C-II	C-III	C-IV	C-V	C-VI	C-VII	C-VIII	C-IX	C-X	CO-XI
STEAM OUTPUT TONS/HR	0.5	0.75	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
(FROM & AT 100 DEG.C)											
OVERALL LENGTH MTRS	3.6	4.00	4.40	4.70	5.30	5.60	6.00	6.00	6.10	6.30	6.40
OVERALL WIDTH MTRS	2.20	2.40	2.50	2.50	2.60	3.00	3.50	4.00	4.20	4.40	4.60
OVERALL HEIGHT MTRS	2.50	2.60	2.80	3.00	3.20	3.50	3.70	3.90	4.10	4.50	4.70
FLUE GAS DUCT SIZE MM	300	400	400	450	500	550	600	650	700	750	800
I.D. FAN HEAD (MMWG)	100	100	100	100	100	100	100	100	100	150	150
NO. OF FLUE PASSERS	3	3	3	3	3	3	3	3	3	3	3



Solid Fired IBR Steam Boiler Standard P & I Diagram

CONSTRUCTION

Our boilers are manufactured in accordance with the stringent standards laid by the Indian Boiler Regulation codes. The boilers are so designed to guard against excessive thermal stresses. The boilers are manufactured using boiler quality steel plate and tubes. The quality is ensured in the manufacturing process itself which reduces rejections and reworks. All the longitudinal and circumferential seams are X-ray inspected and the boilers are stress relieved as per IBR regulation before hydro testing.

Energypack Solid fuel fired packaged boilers are specially designed for manual operation. The Furnace is fitted with specially designed heat resistant fire bars. Solid fuels are feed Manually on the bars.

ELECTRICAL CONTROLS

Fully dust proof control panel houses all the relays and controls required for the safe operation of the boiler and its accessories. Adequate overload protection is provided to ensure that motors do not get overheated.

STANDARD SCOPE OF SUPPLY

- Boiler with furnace, internal reversing chamber, smoke tubes and fusible plug manufactured, tested and certified with front and rear smoke boxes, mounted on saddle for easy installation, one set of heat resistant cast iron fire bars and cast iron doors are part of supply.
- One induced draught fan with motor.
- Two sets of feed water pumps motors, pipeline and check valves are provided.
- One set of boiler mountings with IBR certificates .
- Automatic water level controller.
- Control panel with cables upto individual motors.

OTHER PRODUCTS

IBR & NON IBR STEAM BOILERS

- **Self Supported Chimneys.**
- Hot water Boilers.
- Heat Exchangers (TEMA).
- Pressure Vessels (ASME).
- Waste Heat Boilers.
- **Electrode Boilers.**
- **Dewaxing Autoclave Boilers.**
- Incinerators.



Husk Fired Boiler

Membrane Wall SIB boiler

Brequette Fired Boiler



Utech Projects Pvt. Ltd.

Authorised Exclusive Marketing Agency

Of



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