

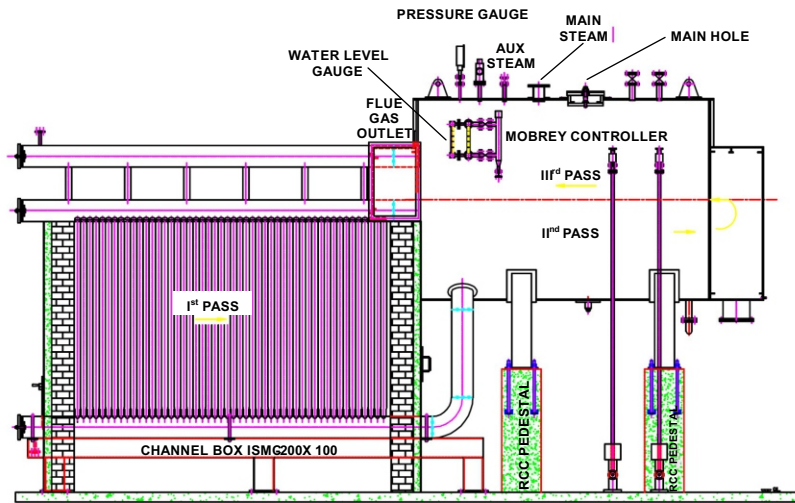


Utech Projects Pvt. Ltd.

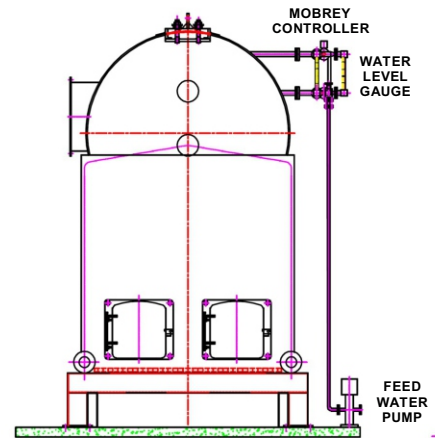
## ***MEMBRANE WALL IBR STEAM BOILER***



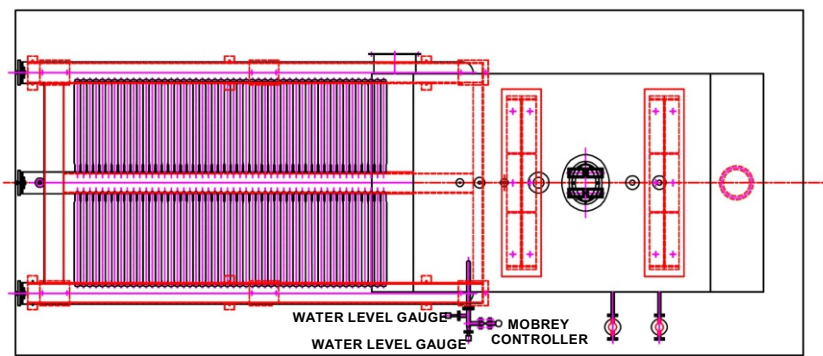
- **Higher Fuel Efficiency**
- **Less Steam Generation Cost.**
- **Turnkey System with HRU, MDC & Ducting.**
- **Working Pressure From 10.54 Kgs/cm<sup>2</sup> to 17.5 Kgs/cm<sup>2</sup>.**



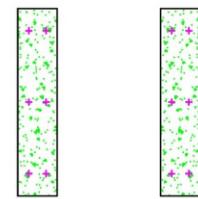
ELEVATION



SIDE VIEW



PLAN



RCC PEDESTAL FOR BOILER. (PLAN)

## PERFORMANCE

Efficiency of solid fired boiler on N.C.V. is 75% plus with B.S./DIN tolerance on a very wide working range and higher figures are not un-common. Steam of high purity and dryness fraction is generated as heat transfer surface in the boiler is judiciously accommodated.

## CUSTOMISED INSTALLATION

Our boiler is tested before shipment including a complete check of controls. Energypack offer start-up adjustments to your fuel and steam load. Special training of operator is available. Capacity range 1000 Kgs/hr to 14,000 Kgs/hr.

## STEAM RAISING TIME

After over night shut-down only twenty minutes are required to raise steam to maximum continuous rating from  $5 \text{ Kg/cm}^2$  to  $10.54 \text{ Kg/cm}^2$  (150 Psig) in standard package boilers. Standard design pressures are  $10.54 \text{ Kgs/cm}^2$  &  $17.5 \text{ Kgs/cm}^2$ .



## MEMBRANE WALL AGRO WASTE FIRED IBR BOILER Technical Specification

MODEL NO.	EBPL M-III	EBPL M-IV	EBPL M-V	EBPL M-VII	EBPL M-IX	EBPL M-X	EBPL M-XI	EBPL M-XII	EBPL M-XIII	EBPL M-XIV	EBPL M-XV
STEAM OUTPUT TONS/HR (FROM & AT 100 ° C)	1	1.5	2	3	4	5	6	8	10	12	14
FLUE GAS OUTLET MM	400	450	500	600	700	750	800	850	900	950	1000
I.D. FAN MMWG (Without HRU & Cyclones)	75	75	75	100	100	125	150	150	150	160	160
F.D. FAN MMWG	50	50	75	75	75	75	80	80	100	100	100
NUMBER OF PASSES	3	3	3	3	3	3	3	3	3	3	3
STEAM BRANCH NB	50	65	80	100	100	150	150	200	200	200	250
WATER INLET NB	40	40	40	40	40	50	50	50	65	80	80
SAFETY VALVE (10.54 KGS/CM <sup>2</sup> )	25	25	25	40	40	50	50	65	80	80	100
BLOW DOWN VALVE NB	40	40	40	40	50	50	50	50	65	65	65

### ERECTION & MAINTENANCE

Boilers are shop assembled and no special foundation is required. Each unit is a complete package ready for quick installation and connection to your service lines. For easy internal maintenance and cleaning, Manhole & Mudhole doors are well placed. Boiler tubes are easy to inspect as hinged front & back doors enable quick and easy maintenance, inspection or cleaning. Spares are easily available.

#### Unique Water Wall Design :

Higher heat transfer in radiation zone, reduced refractory work & lower flue gas entry temperature in convective zone ensures longer life & better efficiency.

#### Furnace Suitable for Variety of Fuels :

Specially designed cast iron grate bar for fixed grate ensures compatibility with different fuels like Coal, Wood, Briquette & Lignite.

#### Two Pass Convection Design :

Higher heat transfer area & lower temperature gradient due to two separate flue gas passes increases life of tube & avoids tube sagging due to very high temperature drop in single pass design.

## 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.



**D M Plant**



**P H Dosing System**



**R O Plant**

#### **WASTE HEAT BOILER**

is fully equipped to make waste heat boilers for varieties of waste gases produced in different industries. Complete with heat transfer calculation on turnkey basis.



**Utech Projects Pvt. Ltd.**

#### **FORCED DRAFT BURNER SYSTEM**

A safe efficient, reliable burner control system gives precise air / fuel mixture that save your money every hour.

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