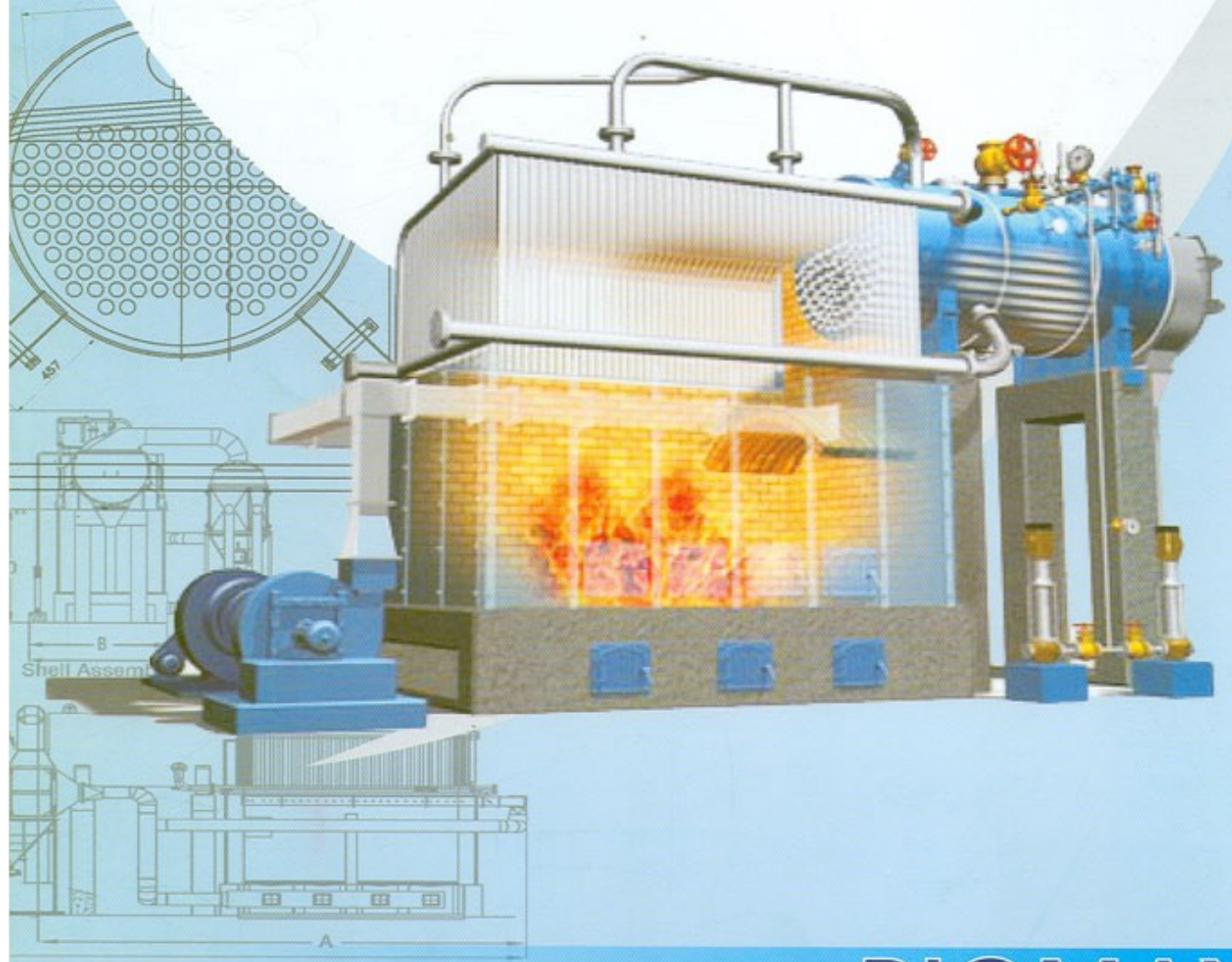




PROCESS HEATING SYSTEM



BIOMAX

Multi Solid Fuel Fired, Water Wall Membrane Type Steam boiler with Stationary Combustor

Capacity Range
1000 Kg/hr TO 10000 Kg/hr

Standard Design Pressure
10.54 & 17.5 Kg/cm²g

Unique design features

- **Unique four side water wall design** : Higher heat transfer in radiation zone, reduced refractory work and lower flue gas entry temperature in convective zone ensure longer life and better efficiency.
- **Combustors suitable for firing wide variety of solid fuels** : Specially designed combustors like stationary grate, bubbling bed and combination grate to ensure compatibility with various fuels like coal, wood, husk, bagasse, petcoke and other argo fuels.
- **Single pass convective design** : Compared to two pass design, single pass avoids tube-end erosion and refractory requirement in the smoke chamber. it also lowers foot print area, thereby reducing ducting required to connect downside accessories.

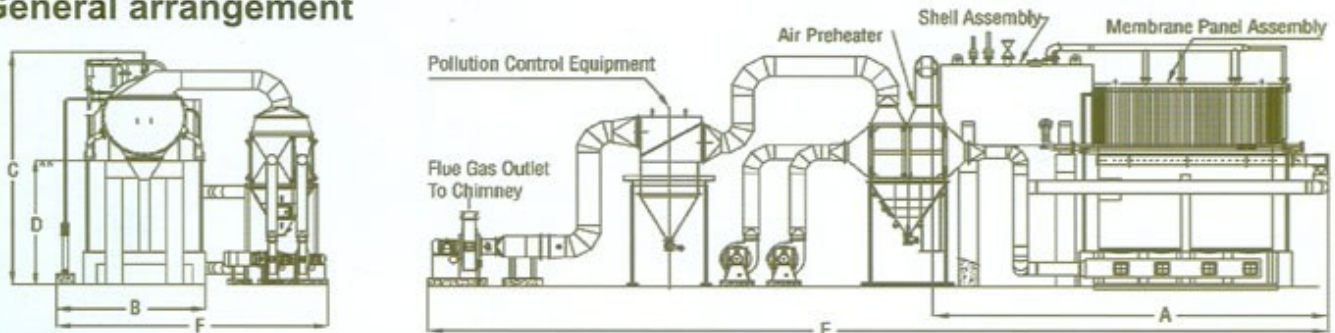


Technical specifications

Description	Unit	BM-20	BM-30	BM-40	BM-50	BM-60	BM-80	BM-100
Capacity (F & A 100°C)	kg / hr	2000	3000	4000	5000	6000	8000	10000
Design Pressure (SVLOP)	kg / cm ² g	10.54 / 17.5						
Efficiency (APH/APH + WPH)		As per BS 845 Part 1 NCV Basis						
Husk / Husk Briquette	%	82 / 85						
Bagasse / Bagasse Briquette	%	80.5 / 84						
Lignite	%	81.5 / 84.5						
Coal / Wood	%	82.5 / 85.5						
Petcoke(Only with APH)	%	80						
Fuel		Husk / Coal / Lignite / Bagasse / Wood / Petcoke						
Fuel firing system		Auto - Husk / Bagasse / Petcoke, Manual - Wood / Coal / Lignite						
Combustion grate		Stationary Grate / Bubbling Bed						
Fuel Consumption		APH / APH + WPH						
Coal	kg / hr	304 / 294	457 / 441	609 / 588	761 / 734	913 / 881	NA	NA
Wood	kg / hr	449 / 428	674 / 642	898 / 588	1123 / 1070	1348 / 1285	NA	NA
Petcoke	kg / hr	169 / NA	253 / NA	338 / NA	422 / NA	506 / NA	675 / NA	844 / NA
Connected Electrical Load		With APH & MDS						
Coal / Lignite	kW	15 / 16	17 / 20	23 / 30	27 / 31	33 / 38		NA
Wood	kW	22 / 23	24 / 27	33 / 36	44 / 48	48 / 52		NA
Dimensions & Weight								
A X B X D	m	8X3.5X3.5	8.2X3.5X3.5	8.8X3.8X3.5	9.6X3.8X3.5	10.2X3.8X3.5	10.5X4.3X3.8	11.5X4.5X4
E X F X C	m	21.8X6.6X8	21.7X6.7X8	22.2X7.0X6.5	23.4X7.3X6.5	24.7X7.4X6.5	24.2X8.3X7.5	25X8.7X7.5
Chimney Top Diameter	mm	550	650	750	800	900	1050	1150
Dry Weight		10.54 / 17.5						
Boiler Shell	Tonne	3.5 / 4	4.5 / 5	5.5 / 6.5	6 / 7	7 / 8	9.5 / 11.5	13 / 14
Furnace (Husk / Bagasse / Lignite)	Tonne	23	26.5	31	34	39	56	59
Flooded Weight		10.54 / 17.5						
Boiler Shell	Tonne	7 / 7.5	9.5 / 10	11.0 / 12.0	12.5 / 13.5	14.5 / 15.5	19.5 / 21.5	27 / 28
Furnace(Husk / Bagasse / Lignite)	Tonne	23.5	27	32	35	40	57	60

Note : Design Std-IBR, Efficiency is Calculated Based on NCV of Husk as 2900 kcal/kg, above mentioned weight & dimensions may vary with actuals, Please refer to offer document for more details.

General arrangement

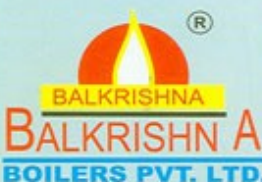


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