

PROCESS HEATING SYSTEM



HUSKPOWER

3 Pass, Wet Back, Integral Furnace, Packaged, Husk Fired Boiler

Capacity Range
1 TPH TO 6 THP

Standard Design Pressure
10.54 & 17.5 kg/cm²g

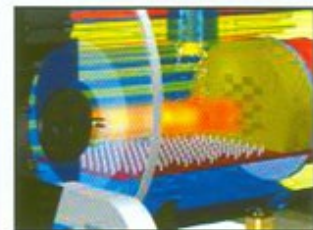
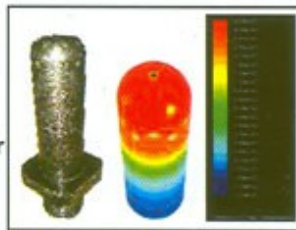
Unique design features

Top fuel feeding with independent fuel feeding fan:
Avoids fuel carryover and unburnt loss.

Bubbling Bed combustion: Turbulent mixing of fuel and air increases combustion efficiency and reduces ash settling.

Pressure part design validation by Finite Element Analysis: Sophisticated design and analysis software helps to simulate the strength of pressure parts at all locations.

Bubbling Bed nozzle design by CFD Analysis: Sophisticated advanced flow analysis software helps to simulate the flow of gases & liquids, heat & mass transfer and fluid structure interaction. Thus, nozzles designed using CFD ensure proper cooling and longer life.

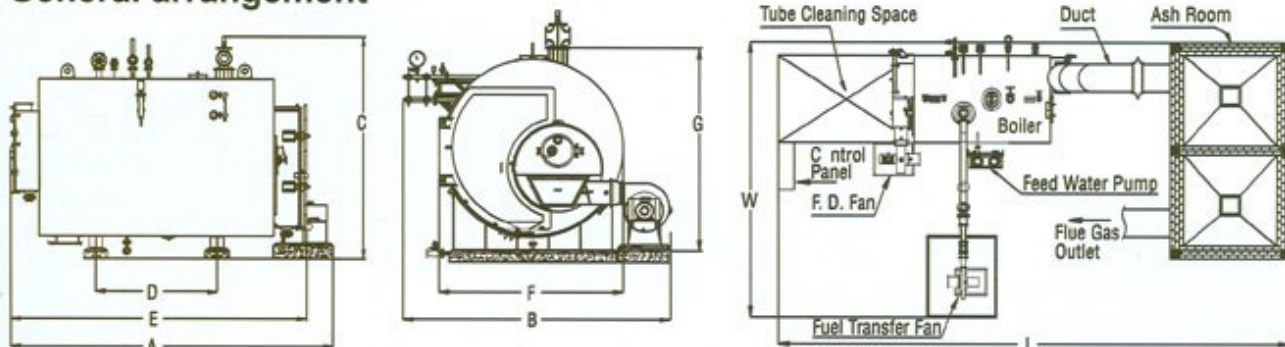


Technical specifications

Description	Unit	HP 10	HP 20	HP 30	HP 40	HP 50	HP 60
Capacity (F & A 100°C)	kg / hr	1000	2000	3000	4000	5000	6000
Design Pressure	kg / cm ² g	10.54 / 17.5	10.54 / 17.5	10.54 / 17.5	10.54 / 17.5	10.54 / 17.5	10.54 / 17.5
Efficiency (Husk)	%	76 (As per BS 845 Part 1 NCV Basis)					
Fuel		Husk / Coconut Shell / Saw dust					
Fuel Firing System		Automatic (With independent Fuel Feeding Fan)					
Fuel Consumption	kg / hr	245	490	735	980	1225	1470
Connected Electrical Load							
Standard Unit	kw	8 / 9	10 / 11	15 / 17	17 / 19	21 / 24	33 / 36
With MDC / Cyclomax	kw	11 / 12	18 / 19	26 / 29	32 / 35	40 / 44	70 / 74
Dimensions & Weight							
Unit Assembly (A x B x C x D)	m	4.0x3.5x3.0x1.8	4.5x4.2x3.5x1.8	5.3x4.2x3.5x2.0	5.4x8.1x4.0x2.3	6.3x6.9x4.2x2.3	7.2x7.1x4.4x2.9
Transport (E x F x G)	m	3.5x1.8x2.2	4.3x2.1x2.6	4.8x2.4x2.8	5.0x2.9x3.4	5.6x3.1x3.5	6.2x3.3x3.7
Layout (L x W)	m	10x6	12x7	14x7	15x8	16x7	18x7
Chimney Top Diameter	mm	400	500	600	700	850	900
Dry Weight (10.54 / 17.5)	Tonne	8 / 8.5	10 / 11	12 / 15	18 / 22	23 / 27	26 / 30
Flooded Weight (10.54 / 17.5)	Tonne	12 / 13	17 / 18	22 / 25	34 / 38	45 / 49	51 / 55

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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Note : In view our constant endeavors to improve of our products, we reserve the right to alter or change specification without prior notice