

HUSKPAC ULTRA

The 3 pass, wet back,
integral furnace husk fired boiler

Designed with CFD, highest efficiency - 74%



Technical specifications

PARAMETER	UNIT	MODEL			
		HP-20BB	HP-30BB	HP-40BB	HP-50BB
Maximum output (F&A 100 deg. C)	Kg/hr	2000	3000	4000	5000
Safety valve set pressure*	Kg/cm ²	← 10.54/17.54 →			
Fuel	-	← Paddy Husk, Gross Calorific Value of 3100 kcal/kg, Moisture up to 10%. →			
Efficiency* (Parboiled/ Raw Rice Husk)	-	← 74% / 72% →			
Fuel consumption on MCR (Parboiled/ Raw Rice Husk)	Kg/hr	471/ 484	706/ 726	942/ 968	1177/ 1210
Power supply option	-	← 220/380/415 V AC ± 6%, 50/60 Hz ± 3%, 3 Phase →			
Total electrical connected load**	hp	14	20	22.5	25
Length (L)	mm	4100	5200	5500	5800
Width (W)	mm	3700	4000	4500	5000
Height (H)	mm	3800	4100	4600	5100
Typical boiler house dimensions (AxB)	mtr.	22 x 11	23 x 11	24 x 11	26 x 11
Dry weight of pressure part	Tons	11	14	19	23

Note: **Connected load includes FD fan, pneumatic conveying fan, control panel, vibro feeder & feed water pump. Electrical connected load will change with addition of dust collector.
*As per BS 845 Part 1 indirect method.

1 Reliable top loading

By design, top loading avoids typical problems of front loading with single fan e.g. devastating effects like nozzle failure and bulging of reversal chamber, caused by malfunction of damper adjustments and pressure variation, are done away with

3 Bubbling bed combustion

Turbulent air flow, counter to the feed of fuel (rice husk), gives higher residence time and enables complete combustion when fuel is in suspension, thus ensuring a higher efficiency.

74% EFFICIENCY

2 Rugged & long operating life

Special ferrules have been provided to protect smoke tubes from abrasive husk ash. This leads to longer life of tubes.

4 Nozzles designed by CFD

CFD is a sophisticated, computationally based Design & Analysis software that helps simulate

- Flow of gases and liquids
- Heat and mass transfer
- Fluid structure interaction

Thus nozzles designed using CFD ensure proper cooling and longer life.