

VERTICAL BIOMASS PELLET BOILER



Model :VPB

Technical Feature

- The vertical pipe structure facilitates heating transfer and the heating efficiency meets the related national standard.
- The boiler furnace is designed to decrease the expansion force and enlarge the heated surface, The dryness of the high quality steam is above 96%.
- The boiler is installed with multiple safety control system, including pressure, temperature, and water level, The automatic product control system can realize cluster control and easy operation, and only one operator is needed.
- The boiler may satisfy most of complex work demanded.
- Efficient energy saving: the usage of reproducible biomass energy is of low cost, reducing operating cost by 30- 60% compared with oil (gas).
- Stability: slight pressure operation, with no backfire and flame lifting.
- Low- carbon: low soot, sulphur and nitrogen emission, and the carbon dioxide emission meets the standard of GB13271.

Specification

model			VPB 0.2 - 0.7	VPB 0.3 - 0.7	VPB 0.5 - 0.7	VPB 0.75 - 0.7	VPB 1.0 - 1.0
Related Evaporation	kg/h		200	300	500	750	1000
Heated area	m ²		11.55	13.85 + 2	19 + 3	25 + 3.5	31 + 7
Related steam pressure	Mpa		0.7	0.7	0.7	0.7	1.0
Related steam temperature	°C		170				184
Boiler efficiency	%		≥ 78				
Adaptation			Q _{net} = 16830KJ / KG				
Fuel consumption	kg/h		36.5	54.8	94	150	200
Inlet valve caliber	DN	mm	DN25				
Steam outlet		mm	32	32	40	50	50
Blow - off valve caliber		mm	40				
Safety valve caliber		mm	G11/2"				40
Smoke extractor	outer diameter	mm	∅250	∅250	∅250	∅280	∅300
Specification	weight	kg	1800	2135	3267	4377	5377
	L W H	mm	2800*1550*2470	2900*1650*2470	2700*1900*2900	3015*2150*3200	3200*2250*3400
Blower	wind volume	Nm ³ /h	690	960	1404	1560	2400 - 3500
	wind pressure	Pa	1880	1980	2180	2550	1834 - 1579
	volume	km	0.37	0.55	1.1	2.2	3
Fan	wind volume	Nm ³ /h	2000	2000	3100	4000	4000
	wind pressure	Pa	1372	1372	2058	2107	2107
	volume	kw	2.2	2.2	3	5.5	5.5
Pump	model						QDL2 - 150
	volume	kw	1.5				