

MD-PHB

Automatic Biomass Boiler



**Especially heating for
greenhouses**

(Having a large capacity of the gasification chamber and the unique structural design, making the fuel combustion complete, the fuel efficiency up to 95%.)

Characteristics:

Boiler has unique structure, complete combustion and high efficiency: the large capacity of the gasification chamber and the unique structural design, making the fuel combustion complete, the fuel efficiency up to 95%. We use advanced rotary screw to drive automatic feed device to feed the fuel automatically, only need to fill the storage hopper one time to satisfy 1-2 days need. We use automatic ignition of the burner of electric for the ignition so that it can reduce the fireman labor's work to a great extent, makes the use of boiler more humane. Biomass boiler is a hot water boiler that runs under normal pressure, does not require the annual inspection, does not require a professional fireman to operate. Boiler overall structure is compact, small size, no need to set up a tall chimney, easy installation. Boiler body is be hot galvanized, the water is clean and durable.

Fuel advantage: biomass fuel is a kind of new environmental friendly energy that mainly comes from processed stalk-like crop or saw dust. It is in strip form, with diameter around 0.8 cm, and length 4-5 times of its diameter, its crash rate is less than 1.5%-2.0%, while dry basis moisture content and ash content are under 10%-15% and 1.5% respectively, its sulfur and chlorine content are both under 0.07%, and nitrogen content under 0.5%. Biomass fuel is among the new rural construction projects that vigorously supported by the Chinese government, as a renewable energy, it belongs to energy-saving Eco-Fuel that supported and popularized by our country, and comes from a variety of sources.

Application range:

Widely used to heat in plant greenhouses; supply hot water, bath and heat in hotels, guesthouses, sauna bath centers, leisure clubs, beauty salon, villas, factories, schools and enterprises.

Technical parameters:

Project	Unit	MD-PHB-5	MD-PHB-7	MD-PHB-10	MD-PHB-15	MD-PHB-20	MD-PHB-30	MD-PHB-40	MD-PHB-60	
Rated thermal power	Kcal/h	5x10 ⁴	7x10 ⁴	10x10 ⁴	15x10 ⁴	20x10 ⁴	30x10 ⁴	40x10 ⁴	60x10 ⁴	
Working pressure	MPa	ordinary pressure								
Operating temperature	°C	≤85								
Boiler thermal efficiency	%	90	90	90	90	90	91	91.5	91.8	
Heating area	m ²	400-500	500-700	700-1000	1000-1500	1500-2000	2000-3000	3000-4000	4000-5000	
Power supply	V/Hz	220V/50Hz					3-phase four-wire 380V/50Hz			
Water capacity	L	65	108	166	276	427	500	800	1300	
Hot water (45°C)	kg/h	1000-1250	1400-1750	2000-2500	3000-3600	4000-5500	6000-7000	8000-9500	12000-13500	
Weight of boiler proper	kg	300	350	500	700	950	1200	1800	2300	
Fuel consumption	KG/h	14	19	28	42	56	84	112	168	
Available fuel		Φ 8mm Biomass pellet fuel								
Cold water inlet pipe	mm	50	50	50	65	65	80	80	100	
Hot water outlet pipe	mm	50	50	50	65	65	80	80	100	
Combustion method		Automatic ignition, the wind negative pressure combustion, automatic monitoring								
Safety guard		Boiler proper through the atmosphere, low water level protection, overheating protection, automatic temperature display								
Chimney diameter	mm	140	140	140	140	200	200	240	260	
Length*Width*Height	cm	130x120x150	130x120x165	135x130x165	230x235x190	230x235x210	260x240x220	270x250x230	290x260x260	

Note:

1. The data is for reference only, technical specifications may be subject to change without prior notice.
2. If any other parameters are needed, please contact me.