

Wood Fired Hot Air Generator



Wood fired hot air generator is based on wood pellet and air as medium, efficient heat transfer equipment. It can provide continuous and dust free hot air flow at uniform temperature and pressure.

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1. Product Introduction of the wood fired hot air generator

Wood fired hot air generator is the most advanced hot-air supply system, it is operated with wood pellet (biomass pellet) providing pure hot air. The direct combustion, gasification combustion, dust collect by cyclone all these process are completed in a closed system, it is environmental protection efficient and energy- saving. Mainly used in industrial to support hot air and other heating system. With the advantage of high acceptance by operators , environmental friendly ,low operating cost, simple operation and maintenance , saving 30 ~ 60% of fuel costs than the traditional fuels Oil/Gas/Electricity burners.

2. Product Parameter of the wood fired hot air generator

ITEM		GV-20-H	GV-30-H	GV-45-H	GV-60-H	GV-90-H	GV-120-H	GV-150-H
Rated Calorific Value	10 ⁴ kacl	20	30	45	60	90	120	150
Pressure	Mpa	Atmospheric Pressure						
The Thermal Efficiency	%	86%						
Air Outlet	mm	350*400	350*400	400*700	500*700	600*800	600*1000	800*1000
Air Inlet	mm	300*350	350*400	350*450	400*500	450*500	500*550	500*550
Air system	kw	0.75	0.9	1.1	1.5	2.2	2.2	3.0
Induced Draft Fan	kw	1.5	2.2	3.0	4.0	5.5	5.5	7.5
Circulation Fan	kw	4.0-5.5	5.5-7.5	7.5-11	11-15	15-18.5	18.5-22	22-30
Smoke crossing	mm	160	220	270	320	375	375	375
Capacity	kg	150	200	200	300	300	400	400
Continuous Running Time	h	24	24	24	24	24	24	24
Weight	kg	2230	2780	3150	3580	3930	4230	4700
Stove Size(L*W*H)	mm	3400*800*1600	3620*900*1760	3800*1000*1860	4100*1100*1960	4300*1250*2060	4600*1400*2160	4900*1550*2260

3. Product Feature of the wood fired hot air generator

- 1) Full intelligent control system, automatic feeding, automatic temperature control, automatic ignition, overtemperature protection, fault alarm, convenient operation
- 2) The furnace inside is made of 304 stainless steel 5mm thick profiles, and adopts the international top "multi-hearth, multi-return, full cold back" technology to improve efficiency.
- 3) Heat exchange is accomplished efficiently in the furnace, hot air is directly sent into the heating space, the heating time is faster.
- 4) Using the technology of international top "multi-hearth and multi-return", the heat transfer area can be increased in large quantity, so that the heat can stay in the furnace for longer, so as to achieve full heat exchange.
- 5) Built-in cyclone dust removal to achieve smokeless and dust-free emission.
- 6) The boiler design has multi-layer safety protection device; Eliminate the phenomenon of detonation and tempering.
- 7) Using the unique semi-gasification boiling combustion system, the ash content is 86% less than the traditional combustion method (direct combustion).
- 8) Pioneering new technology: using infrared radiation features of refractory materials, improving the furnace heat exchange, improve the uniformity of the temperature field and in the hearth, make the fuel burn more fully, improve the thermal efficiency, reduce energy consumption, save energy and prolong furnace inside part life.

4. Production Details of the wood fired hot air generator



Control Cabin



Induced Draft Fan



burning chamber



Feeding Screw



Feeding motor



Silos



Circulating Fan

5. Economic Analysis of the wood fired hot air generator

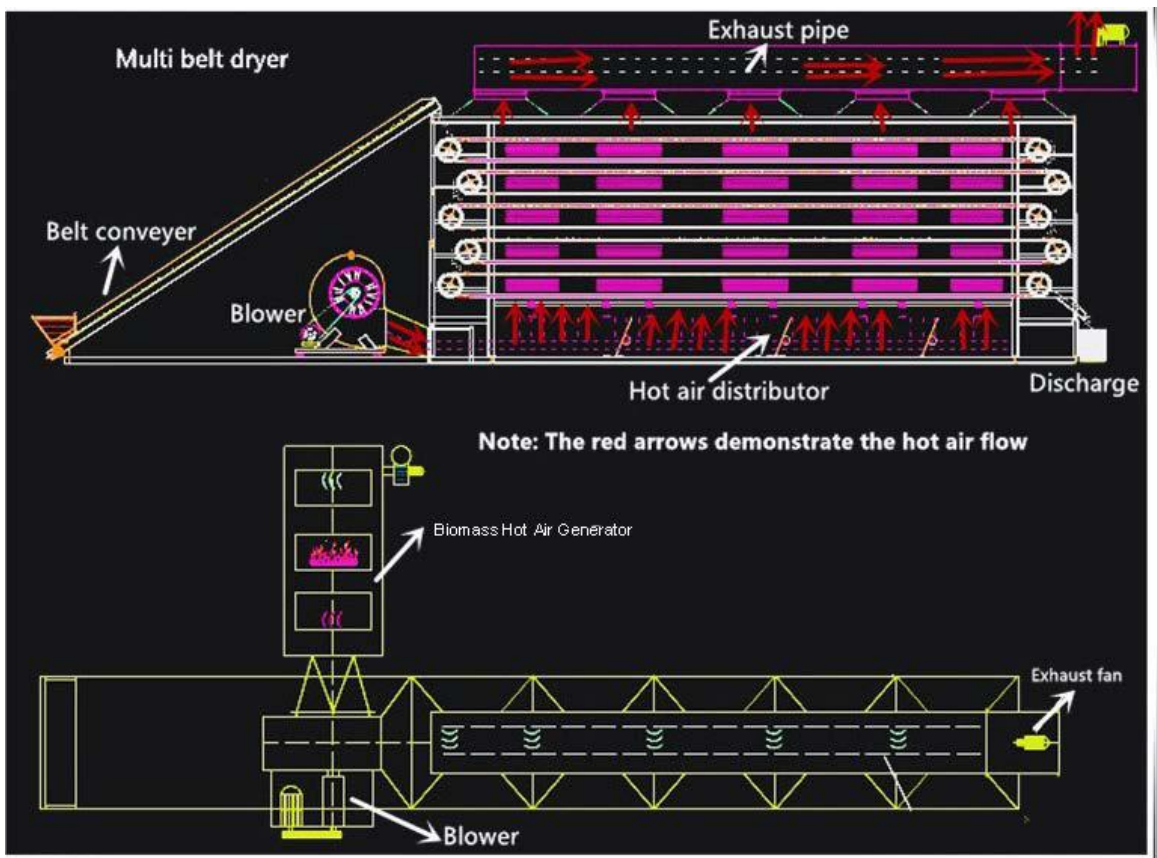
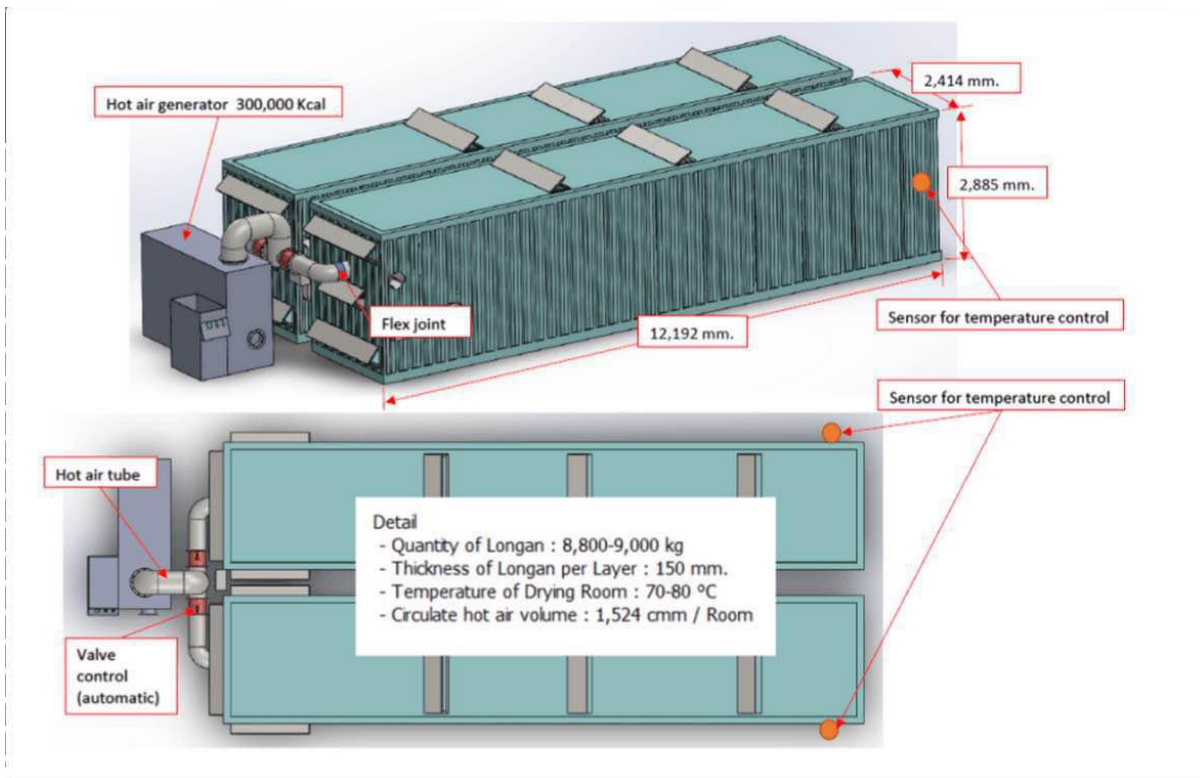
600,000kcal/hr hot air generator required for a variety of the economic benefits of energy in contrast.

The following is the cost comparison of various fuels: (RMB)

Fuel	0#Diesel	Natural gas	Electricity	Biomass pellet
Heat value	10200kcal/kg	8500kcal/Nm ³	860kcal/KWH	4000kcal/kg
Burner power(Example)	600,000kcal/hr			
Need fuel quantity	67kgs	72Nm ³	698kw	176kgs
Fuel price	8/kg	4.8/Nm ³	1/kwh	1.1/kg
Heat conversion rate	88%	98%	100%	85%
Fuel cost(RMB)	536	346	698	212
Cost saving	324	134	486	
Cost saving%	60%	39%	70%	

6. Application of the wood fired hot air generator

Wood fired hot air generator is widely apply in food drying, fruits drying, seafood drying, vegetables drying, herbs drying and so on.



7. Product Qualification of the wood fired hot air generator

CERTIFICATE



WORK FLOW



1 Prepare raw material by line cutting machine



2 Prepare raw material -rolling round of chamber



3 Welding & assembling



4 Welding & assembling



5 Pressure testing of boiler



6 Painting



7 Packaging after QC passed



Job shop

OUR CUSTOMERS



India ,Airier Natura Pvt.Ltd



Malaysia Ipoh



Ukraine Kiev



Malaysia



Thailand



Malaysia

8. Deliver, Shipping And Serving of the wood fired hot air generator



9. FAQ

①. Are you the real manufacturer?

Yes, we are specializing in the design and manufacture of environmental protection equipment manufacturers.

②. What kind of after-sales service do you have?

Sale in a positive and serious attitude for the user installation , commissioning equipment and provide technical training for users .

③.,What are the payment methods?

T/T, L/C, Western, Union.

④. Is your price the final price?

No, our equipment has many models. The price of each model is different. The price marked is the best equipment price, the highest price will not be higher than the marked price.

⑤. Do you undertake overseas agents?

Yes, we very much welcome overseas customers to become agents of our equipment. As our agent, the chamber of Commerce has great discount.

10. Last News

GreenVinci in World
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<p>MALAYSIA 1.8Million Kcal biomass gasification burner replace LPG used in chemical rubber glove factory in Malaysia (pon).Saving 44% fuel cost!</p>		<p>MALAYSIA 600,000Kcal wood pellet burner used for Rotary dryer to dry wood sawdust in Malaysia Seremban, since from 2012 till now!</p>	
	<p>THAILAND 1.2Million Kcal New design pellet burner replace diesel burner for 2T steam boiler, installed in Bangkok Thailand.</p>		<p>UKRAIN 4 set of 800,000Kcal biomass hot air generator for poultry breeding shed, installed in Ukrain Kiev 2013 Mar.</p>
<p>INDIA 600,000 Kcal biomass gasification burner replace FO burner in India Delhi by agent Airier Natura Pvt Ltd, saving 38% fuel cost !</p>		<p>INDIA 200,000Kcal biomass hot air generator used in textile printing drying , installed in India Gujarat 2014 Mar .Replace LPG saving 44% fuel cost !</p>	