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Automatic Steam-heated Hemp Drying Machine

5-layers, 1000 pounds/hr

Continuous drying machine



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No.	Description	Specification	QTY /sets	Price/set FOB Qingdao	Options
1	Feeding conveyor	13.8ft*7.2ft*11.5ft	1	\$5,000	/
2	Continuous dryer main body	32.8ft*10.5ft*12.1ft 5-layers	1	\$77,000	UL Motors: \$8,000 (\$1,000/motor-8motors)
3	Steam Generator	7.2ft*3.6ft*7.0ft Steam evaporation: 600 kg/h	1	\$12,000	If customers own a boiler, they don't need to buy Steam generators.
4	Gas burner	RIELLO brand Power:300000kcal/h	2	\$7,500	If using LP, Gasifier is required: \$5,000
5	Steam heat exchanger	3.9ft*3.2ft*1.3ft SUS304,	4	\$13,500	/
6	Electricity Distribution Controller	SUS304	1	\$2,500	Touch Screen: Additional \$3,000
7	Discharge conveyor	13.1ft*2.0ft*8.2ft Power:0.55kw	1	\$5,000	/
Total price (FOB Qingdao)			2	\$122,500 USD	\$138,500 USD
Shipping (sea) freight (2 x40'containers+1x20'container)				TBD	TBD
Total price (CIF main port of USD)				\$128,000 USD	\$138,500 USD

Remarks:

- 1.Delivery date: within 25-30 days after receiving the deposit.
- 2.Terms of payment: 40% TT in advance and 60% against balance before shipment.
- 3.We can guarantee the quality of the above machines for one year.
- 4.Installation and debugging cost: The seller is responsible for the installation guidance and commissioning. The buyer needs to reimburse the workers' lodging and round-trip expenses , and subsidy \$150usd/person per day till Installation completed.

1. Introduction

This equipment is a belt type multilayer reverse dryer. The main parts are made of high quality carbon steel. The stainless steel mesh belt is made of SUS304, it runs smoothly, easy to maintain and has a long service life. The whole machine running speed and drying temperature can according to production needs set. It's has a high degree of automation, saving labor and improving production efficiency.



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II. Fundamental

1. The working principle is that the steam generated by steam generator, the heat exchanger transfer the hot air to the inside of the drying cabinet body through the circulation fan , so that the moisture of the product is evaporated under the heat action. Evaporated under the action, the generated moisture air is exhausted to the outside of the dryer along the moisture removing pipe. The machine can continuously feed and make the material run smoothly. During the material conveying process, the gap is conveyed through the intermittent mesh belt to realize the turnover of the material and reach the homogeneity of the heated wind on all surfaces. It can connect with other equipment to achieve continuous operation.

Steam generator: heating energy can be natural gas, LPG,LNG, propane.

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A. Gas burner: RIELLO brand, 300000kcal/set.



B. Steam generator: It is a mechanical device that uses heat energy from fuel or other sources of energy to heat water into hot water or steam.



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2. Each unit of mesh belt dryer has independent circulation of hot air. Part of the wasted gas is discharged by a special dehumidifying fan. The exhaust gas is controlled by a regulating valve. The hot air makes the material up or down on the mesh belt by heating to dry biomass and remove the moisture. The mesh belt moves slowly, the operating speed can be adjusted freely according to the material temperature, and the dried product continuously falls into the receiver. Up and down cycle can be flexibly configured according to user needs, and the number of units can be selected according to the need. The amount of air, heating temperature, material residence time, and heating rate can be adjusted to achieve the drying effect.
3. Due to the low temperature of the material, the equipment is completely closed, only leaving the openings necessary for the discharge, so the effect of dehumidifying is good.
4. The unique air intake device makes the distribution of hot air more uniform and ensures the consistency of product quality.
5. The electronic magnetic valve controls the amount of steam entering the heat exchanger inside the dryer, so as to control the temperature of the heat exchanger accurately.

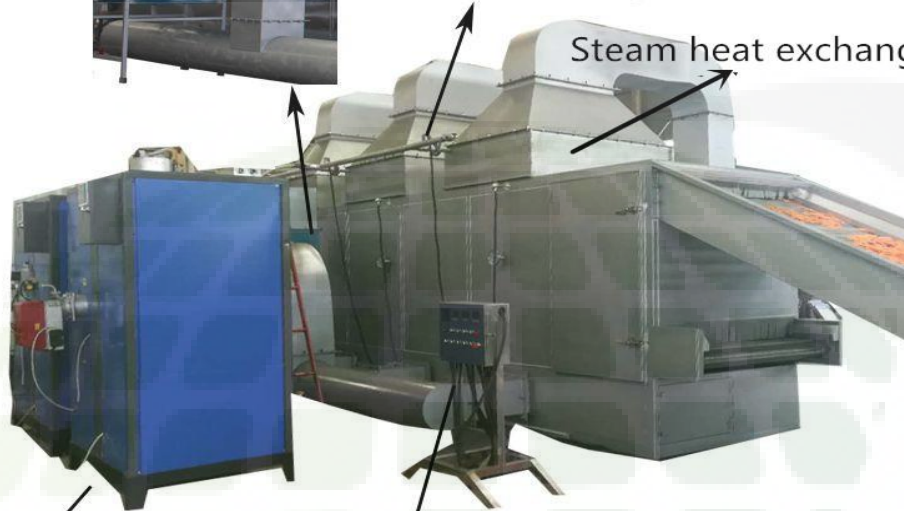
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Moisture removal fan



electron magnetic valve

Steam heat exchange



Steam generator



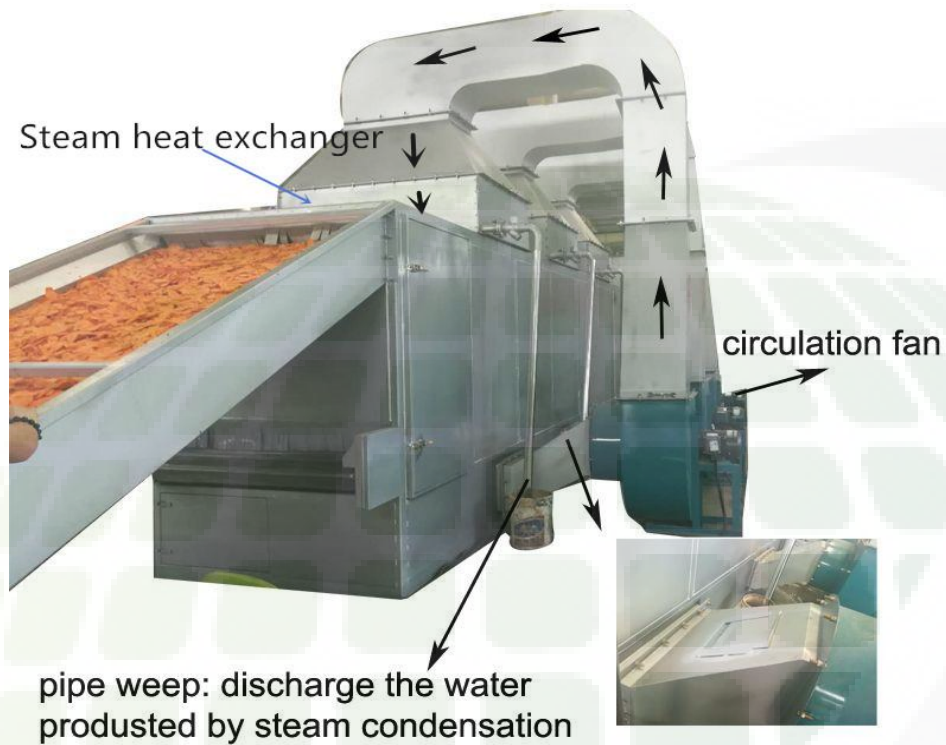
Moisture removal switch



Heat exchanger

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(Display of Hot Air Circulating direction)



Air supply port to maintain the internal pressure balance of the machine

6. Heating system, temperature-controlled multi-position design and high air circulation fan can make internal heat fully dispersed in every corner of the interior. Make sure there are no dead ends. Uniform temperature, ideal for air drying and drying products.

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- a. Circulation fan: The circulating fan can blow the hot air generated by the hot stove into the dryer chamber.
- b. Air volume controller: When the air temperature in the hot blast stove is too high, the valve is properly opened, which can replenish fresh air and regulate the temperature inside the dryer.(only steam-heated dryer needed)
- c. Dehumidifier fan: It can discharge the damp air.
- d. Moisture control valve: When the air temperature rises, the valve can be enlarged a little. It can accelerate the removing of moisture.

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III. Overall appearance and layout of dryer

A. External structure and details

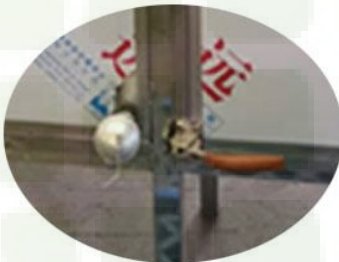


moisture
remove fan



Moisture removal switch

Feeding device can be
equiped as required



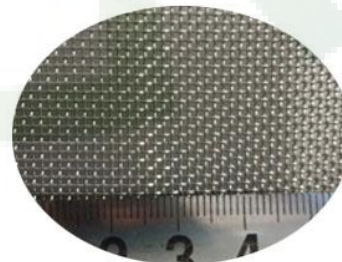
lock:Flexible design can check
work status at any time



chain sprocket:Good wear resistance,
High strength and tensile properties



frame:Carbon steel structure,
Longer service time by gas shielded



Woven mesh, food grade stainless
steel, tough, good ventilation

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Observing window: Through the observing windows, drying level can be judged.



Mesh belt: made of 304SUS, width1800mm



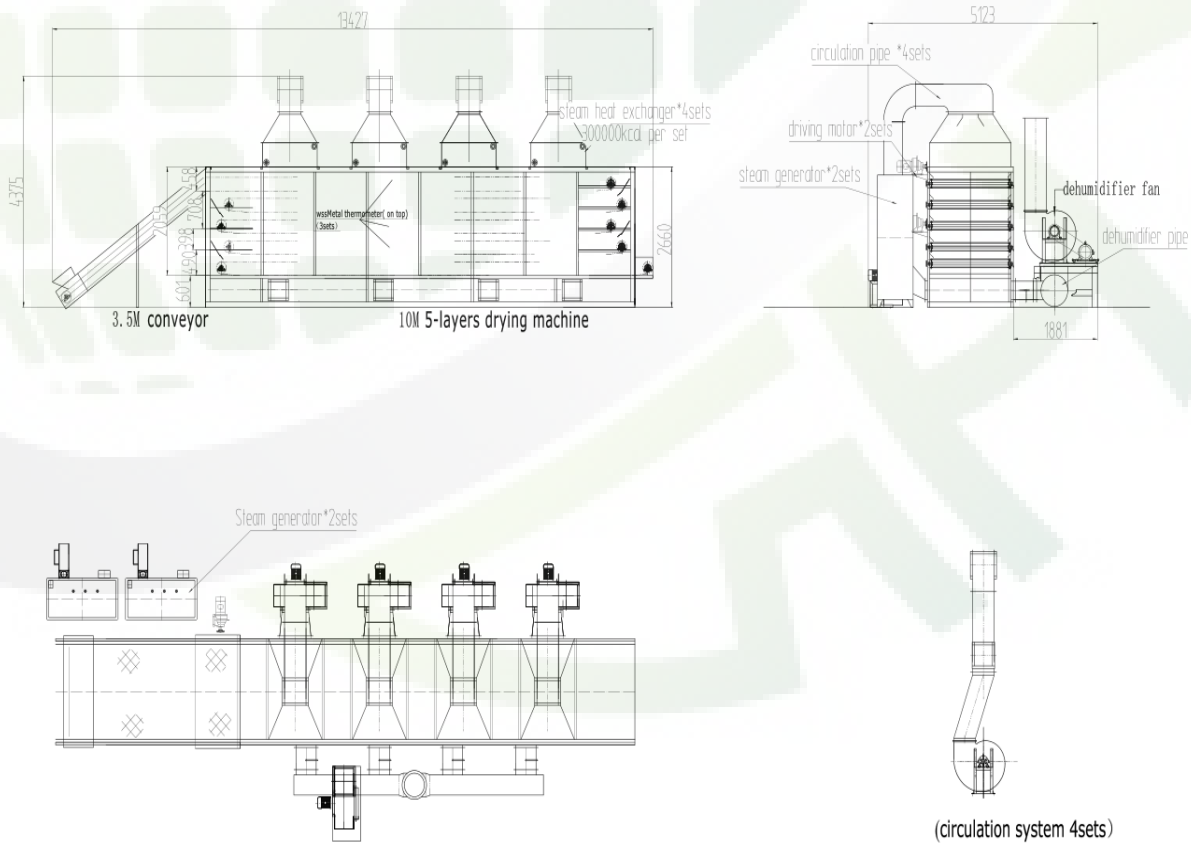
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B. Electrical controller:

This kind controller is easy to operate and maintain .it includes the electronic control switch and electrical components used in the whole system.



C. layout of dryer & overhead view



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D. discharge elevator(customized length and height)



IV. Material allocation and total price:

1. Feeding machine:

Material: Carbon steel, Mesh belt sus304.

Dimension: 13.8ft*7.2ft*11.5ft, Slope length 14.8ft.

2.Mesh belt Continuous Drying machine:

Dimension: 32.8ft*7.2ft*12.1ft

Capacity: 1000pounds/hr(calculated by wet hemp)

Voltage: industrial voltage 3 phase, 440v--480v/60hz, can be designed according to client's local voltage.

Electric current: 65A-70A.

Mesh belt: made of 304SUS, width1800mm

Drive power:3kw*1set,2.2kw*1set.

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Circulation fan:4kw*4sets.

Air-blower:11kw*1set.

Centrifugal exhaust fan power:5.5kw*1set.

Burner power:2*300000kcal, gas consumption:50-60m³/h.

(LPG consumption:45-50KG /h, propane consumption:35-40KG /h.)

Total power:35kw. (If a generator unit is needed, its power should exceed 60kw,about 75kva.)

Machine List of Complete Dryer line

Name	Type	Specification	Remark
Structural plate steel	Carbon steel	2.0mm	
Transmission shaft	Carbon steel	Ø50	
Insulation shield	Carbon steel	1.2mm	
Support leg	Carbon steel	60*80*3.0mm	
Mesh belt	SUS304	Width 1800mm	
Transferring gear	SUS304	9-teeth gear	
Insulation Materials	Aluminum silicate board	50mm thick	
Conveyor speed reducer			
Temperature Controller		A1208	
Temperature Sensor		WP-236	
Electricity Distribution	SUS304	1.2mm	

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Controller(control panel)			
Electric appliances			
Frequency converter			
Mesh support shaft	SUS304	spacing150mm	fulcrum shaft 16mm
Circulation fan	Carbon steel, 4sets, power:4kw*4		
Centrifugal Exhaust fan	Carbon steel, 5.5kw*1set		
Air-blower	Carbon steel, 11 kw*1set.		
Steam generator	1 set, 7.2ft*3.6ft*7.0ft. Steam pressure0.7MPa Steam evaporation: 600 kg/h		
Steam heat exchanger	4sets, 3.9ft*3.3ft*1.3ft SUS304		
Gas burner	2set		
Discharge conveyor	Frame is made of SUS304, conveyor belt is PVC. size:13.1ft*2.0ft*8.2ft Power:0.55kw		
Total	CIF US Port \$138,500 USD (Based on client options)		
Notes	1.Equipment quality warranty for one year.		

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	<p>2.Payment Terms: T/T, deposit 40% to start production, after the completion of the production and the inspection ,payment of the rest 60% should be finished before delivery.</p>
	<p>3.Installation and debugging: The cost of round-trip ticket, aboard lodging, the cost of the visa and the subsidy of US\$100 per person every day, paid by the purchaser. Dryer seller is responsible for the installation guidance, debugging, technical guidance ,meanwhile the buyer need to provide the local necessary manpower and equipment support, such as cranes, porters, etc.</p>
	<p>4.delivery time :25days-30days</p>

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Our company

Global Hemp Solutions is your all inclusive post-harvest processing and extraction equipment provider. We have partnerships with some of the world's largest and best manufacturers. We not only provide you with the best equipment to help make you successful, we are there every step of the way even after the installation of the equipment. We value long term relationships and are truly here to serve you.



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All prices and shipping times subject to change. Please contact us for updated lead times and pricing.



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