

Black Tea Powder Microwave Drying Sterilization Machine

Specifications:

Price	10000-100000
Brand Name	Loyal
Place of Origin	Shandong, China
Min.Order Quantity	1 set
Payment Terms	T/T,LC
Supply Ability	50 sets per month
Delivery Detail	30-40 working days
Packaging Details	film,box
Condition:	new

Detail Introduction:

Introduction:

The Black Tea Powder Microwave Drying Sterilization Machine signifies a technological breakthrough in the tea processing industry, providing an efficient solution for both drying and sterilization processes. To prove that the black tea powder microwave drying and sterilizing machine is the most practical tea drying machine. This article explores the key components, including Ginger Tea powder Microwave Dryer, Black Tea powder Microwave Dryer, loose black tea Microwave Dryer, and Black Tea powder Microwave sterilizer. We will delve into the working principles, advantages of industrial microwave sterilisation, and address frequently asked questions (FAQs) related to this advanced microwave technology.





Ginger Tea Powder Microwave Dryer:

The Ginger Tea powder Microwave Dryer is an integral part of the machine, employing industrial microwave sterilisation for precise and efficient drying of ginger tea powder. This process involves the selective heating of water molecules within the powder, ensuring optimal drying while preserving the natural qualities of ginger tea. Ginger Tea powder Microwave Dryer is the most practical drying machine for Ginger Tea.

Black Tea Powder Microwave Dryer:

The Black Tea powder Microwave Dryer is designed to cater specifically to the unique characteristics of black tea. By utilizing industrial microwave technology, this dryer ensures a controlled and uniform drying process, preventing over-processing and preserving the rich flavor and aroma of black tea powder.





Loose Black Tea Microwave Dryer:

The Loose Black Tea Microwave Dryer is another essential component, tailored for loose black tea processing. Through the application of industrial microwave sterilisation, this dryer guarantees efficient drying while maintaining the loose structure of the tea leaves, resulting in a premium loose black tea product.

Black Tea Powder Microwave Sterilizer:

The Black Tea powder Microwave Sterilizer is responsible for the sterilization process, eliminating harmful microorganisms in the black tea powder. This component ensures product safety and hygiene while retaining the tea's essential characteristics through industrial microwave sterilisation.





Black Tea Microwave Dryer VS Gas Dryer Comparison

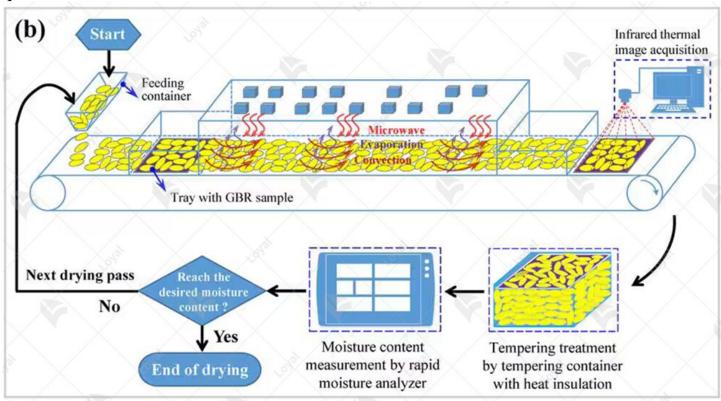
Heating Rate Nearly Instantaneous Typically Sto Chemical Changes To Black Tea Microwave Dryer None Carbonization Color Change To Black Tea Microwave Dryer None May Darken Dryer Nutrient loss inBlack Tea Microwave Dryer None Possible Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Requ Fire/Explosion Hazard* None Possible Energy Efficiency 75%+ <50%** Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Operating Conditions	Industrial Microwave Dryer	Direct Fired
Heat Penetration Volumetric (Uniform Throughout Heating Rate Nearly Instantaneous Typically Slot Chemical Changes To Black Tea Microwave Dryer None Carbonization Color Change To Black Tea Microwave Dryer None May Darken Poryer Nutrient loss in Black Tea Microwave Dryer None Possible Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Require Fire/Explosion Hazard* None Possible Energy Efficiency 75%+ <50%** Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**			Convection, 1
Heating Rate Nearly Instantaneous Typically SIG Chemical Changes To Black Tea Microwave Dryer Dryness Control/Consistency Precision ,<1% Possible Non-Precisio Color Change To Black Tea Microwave None May Darken* Dryer Nutrient loss inBlack Tea Microwave Dryer None Possible Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Requ Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency 75%+ <50%** Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Energy Source	Electricity	Gas
Chemical Changes To Black Tea Microwave Dryer Dryness Control/Consistency Color Change To Black Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency T5%+ Heat Energy Delivered To Load Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Heat Penetration	Volumetric(Uniform Throughout	Surface To Ir
Dryer Dryness Control/Consistency Color Change To Black Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer None Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency 75%+ Heat Energy Delivered To Load 95%+ Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Heating Rate	Nearly Instantaneous	Typically Slo
Dryness Control/Consistency Color Change To Black Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer Reliability Very High Labor Requirements Minimal, Fully Automatic Energy Efficiency Overall Energy Efficiency Heat Energy Delivered To Load Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Emissions	Chemical Changes To Black Tea Microwave	None	Carbonization
Color Change To Black Tea Microwave Dryer Nutrient loss inBlack Tea Microwave Dryer Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Requ Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency 75%+ Heat Energy Delivered To Load Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Dryer		
Dryer Nutrient loss inBlack Tea Microwave Dryer Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Requ Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency 75%+ Heat Energy Delivered To Load 95%+ Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Dryness Control/Consistency	Precision ,<1% Possible	Non-Precisio
Nutrient loss inBlack Tea Microwave Dryer Reliability Very High Poor To Mod Labor Requirements Minimal, Fully Automatic Usually Requ Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency 75%+ Heat Energy Delivered To Load 95%+ Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Color Change To Black Tea Microwave	None	May Darken ³
Reliability Labor Requirements Minimal, Fully Automatic Usually Requirements Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency T5%+ Heat Energy Delivered To Load Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Dryer		
Labor Requirements Minimal, Fully Automatic Fire/Explosion Hazard* None Possible Energy Efficiency Overall Energy Efficiency Heat Energy Delivered To Load Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Emissions	Nutrient loss inBlack Tea Microwave Dryer	None	Possible
Fire/Explosion Hazard* Energy Efficiency Overall Energy Efficiency T5%+ Heat Energy Delivered To Load 95%+ Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Emissions	Reliability	Very High	Poor To Mod
Energy Efficiency 75%+ <50%** Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 Emissions 2300-2800 Kj/Kg Kj/Kg**	Labor Requirements	Minimal, Fully Automatic	Usually Requ
Overall Energy Efficiency 75%+ <50%** Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Fire/Explosion Hazard*	None	Possible
Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**	Energy Efficiency		
Heat Energy Delivered To Load 95%+ <50% Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600 2300-2800 Kj/Kg Kj/Kg**			
Water Removal Energy 1000 - 1200 Btu/ Lb 1800-2400 B 4200-5600			
4200-5600 2300-2800 Kj/Kg Kj/Kg** Emissions	0,		
2300-2800 Kj/Kg	Water Removal Energy	1000 - 1200 Btu/ Lb	
Emissions			
		2300-2800 Kj/Kg	Kj/Kg**
C . IT : ID : 10	Emissions		
Control Equipment Required? No Yes	Control Equipment Required?	No	Yes



Generates Vocs ?	No	Yes
Generates Cox And Nox?	No	Yes
Generates Particulates ?	No	Yes

Working Principles Of Industrial Microwave Sterilisation:

Industrial microwave sterilisation operates on the principle of selective energy absorption. Microwaves target water molecules in the tea powder, causing them to vibrate and generate heat. This selective heating leads to rapid and efficient sterilization, preserving the natural qualities of the tea.



The Details for Black Tea Powder Microwave Drying Sterilization Machine:





The application for Black Tea powder Microwave Sterilizer:

The application of microwave sterilisation in tea mainly includes sterilisation, insecticide and drying. The thermal and non-thermal effects of microwave can kill the microorganisms in tea and prolong the shelf life. For insects in tea, microwave treatment has the same good effect, which is conducive to improving the safety of tea. In addition, microwave drying technology can be uniformly heated to improve the drying speed and thermal efficiency, which in turn improves the quality of tea. With the technological progress and the depth of application research, the application of microwave sterilisation in tea will be more mature and extensive.





Features of Industrial Black Tea Powder Microwave Drying Sterilization Machine:

Features ofBlack Tea Powder Microwave Drying Sterilization Machine			
Microwave output frequency	2450±50MHz		
Microwave input apparent power	<70KVA		
Microwave output power	>50KW		
Microwave power adjustment range	10-200KW(adjustable)		
Temperature	0~200C(adjustable)		
Transmisison speed	0~10m/min(adjustable)		
Microwave leakage limit	(mW/cm2):<1		





Technical Parameters And Price OfIndustrial Tunnel Microwave Food Power Drying Sterilization Machine

Technical Parameters And Price OfIndustrial Tunnel Microwave Food Power Drying Sterilization Machine				
Type?	Drying Oven	Application:	Low- Temperature Roasting Of Whole Grains	
Condition:	New	Place Of Origin:	Shandong, China	
Brand Name:	Loyal	Voltage:	380v/440v Customized	
Power:	20-200kw	Dimension(L*W*H):	8640 *1200* 2200mm	

Advantages of Microwave Sterilization Machine:





3-5min Extremely Fast Drying



Simultaneous Heating Inside And Outside



Temperature Sensing Prevents Overheating



Synchronous Sterilization & Disinfection Function



Cooling System
Has Long
Service Life



Microwave Anti-Leak

The Black Tea Powder Microwave Drying Sterilization Machine offers several advantages. Firstly, it significantly reduces processing time, enhancing overall efficiency. The controlled application of microwave energy ensures uniform drying and sterilization, preventing overprocessing and maintaining the natural characteristics of tea. Additionally, this technology contributes to energy savings, aligning with sustainable practices in the tea processing industry.

FAQs: Black Tea Powder Microwave Drying Sterilization Machine

Q1: How does the Black Tea Powder Microwave Sterilizer work?

A1: The sterilizer employs industrial microwave technology, selectively heating water molecules in black tea powder to eliminate harmful microorganisms, ensuring product safety and hygiene.

Q2: What distinguishes the Ginger Tea powder Microwave Dryer from traditional drying methods?

A2: The dryer utilizes industrial microwave sterilisation, providing precise and efficient drying while preserving the natural qualities of ginger tea powder.

Q3: Is the Black Tea Powder Microwave Drying Sterilization Machine suitable for small-scale tea processing businesses?

A3: Yes, the machine is designed for versatility, making it suitable for both small-scale and large-scale tea processing, ensuring consistent quality.