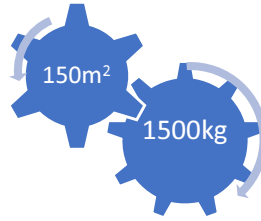


Freeze dryer FD-1500



FD-1500 Freeze dryer introduction

Freeze dryer, the dehydration working principle is based on sublimation. The fresh product input capacity of FD-1500 freeze dryer is 1500kg per batch. The vacuum chamber length of this model of freeze-dryer is 11.6 meters, just perfectly fit with a 40 feet container (12 meters). In fact, all freeze dryers are called freeze dryers. The vacuum is used for this machine is to reduce the pressure in the chamber.

The water in the fresh product is quickly frozen to -35°C becoming ice. And the ice is sublimated in a vapor and removed out of the product, collected on a low temperature vapor condenser. The product is dried 100% natural, without shape changing, color changing, nutrition lost, flavor lost, longer shelf time without additives and preservatives. The FD-1500 freeze dryer is widely used in food industry to freeze dry fruits, vegetables, plants, meat, sea food, cooked food, milk, coffee, pet's food etc.

KEMOLO provides low energy consumption; fully automatic control; user-friendly touch screen displayed in front of the chamber; mobile phone and computer monitoring and control; users can see the production status at anytime and anywhere. The freeze dryer system allows users to design, store parameters, and record historical production parameters. KEMOLO offers double side radiant plates (thermal property: $160\text{W}/\text{m}\cdot\text{K}$) for heating to increase thermal efficiency; energy saving system for refrigeration; rail and trolleys for products fast transportation. KEMOLO is committed to reducing power consumption; heat recovery, defrosting water recovery, so as to reduce operating cost.



Technical specification

Model	FD-1500
Capacity	1500kg/batch
Vapor Condenser Temperature ($^{\circ}\text{C}$)	-45°C
Shelf Temperature ($^{\circ}\text{C}$)	Ambient temperature to max. 100°C
Product Cooling	In IQF (-35°C)
Shelf Area	150.0m^2
Trolley	Included
Rail I steel, elbow & IQF	Included
Refrigeration compressor	Screw type
Refrigerant	R404A (Users provide)
Cooling way	By air/water cooling
Vacuum system	Vacuum pump + booster
Ultimate vacuum level (Pa)	10 Pa
Installed power	243kW
Defrost way	By hot water
Control system	PLC with HMI; Manual & Auto control, Records
Installation area (m^2)	300m^2
Chamber dimension	$11560*2600*3200\text{mm}$ (L*W*H), SUS304
Estimated Weight (kg)	22000kg