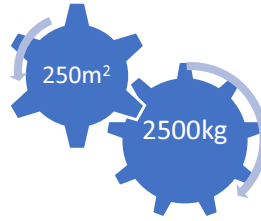


Freeze dryer FD-2500



FD-2500 Freeze dryer introduction

KEMOLO FD-2500 Freeze dryer is the largest standard single machine in consideration of container shipping for different customers in the world. If you need bigger freeze dryers, it needs to be customized manufacturing and shipped by bulk vessel. If you need to process 5 tons products in a day, you need 2 sets of FD-2500 freeze dryer; If you need to process 10 tons products in a day, you need 4 sets of FD-2500.

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-2500 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.

The principle of freeze-drying is to remove water by sublimation and collect by condensation. The freeze-drying process is divided into three stages: (Product freezing stage, primary lyophilization stage; secondary lyophilization stage, <1% water remained)

The main components are compressor, vacuum pump, heating system, PLC, electrical control. The world's top brand accessories suppliers are the backing of KEMOLO freeze dryers. Stringent quality control with pressure, leakage protections, personnel protection; parameter setting access protection, the KEMOLO freeze dryer is safer, more stable and reliable; strictly inspected and tested before leaving the factory.



Technical specification

Model	FD-2500
Capacity	2500kg/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	250.0m^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	363kW
Defrost way	By hot water
Control system	PLC with HMI; Manual & Auto control, Records
Installation area (m^2)	450m^2
Chamber dimension	$16160*2600*3200\text{mm}$ (L*W*H), SUS304
Estimated Weight (kg)	28000kg