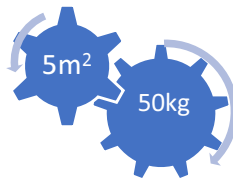


Freeze dryer FD-50



FD-50 Freeze dryer introduction

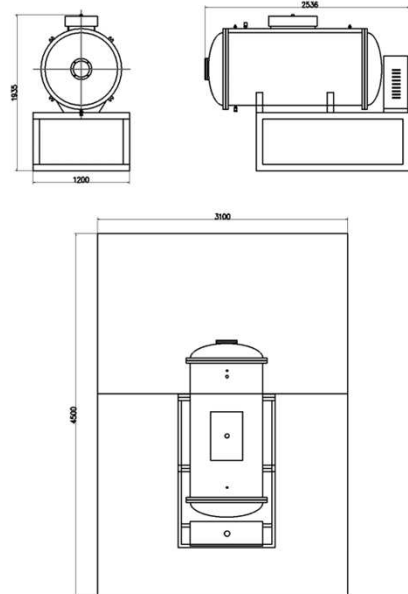
The model FD-50 is one of the smallest freeze dryers made by KEMOLO. Different from homemade freeze-dryers or mini benchtop laboratory freeze-dryers, the FD-50 freeze dryer is an industrial type pilot freeze-dryer, or it can be regarded as a small commercial freeze-dryer for trial production, but with a cheaper price. The FD-50 is not for laboratory in research institute or university, but for investors or companies to make freeze-dried samples or develop different products to trial the market. Through various pilot producing to accumulate freeze drying data and experiences before mass production.

Application of the freeze dryer

Freeze drying technology is applied to process a variety of materials. The FD-50 freeze dryer is a mini lyophilizer among all models, and it is used in all conceivable kinds of fruits, vegetables, meals, meat, shrimp, fish, seafood, pets food, herbals, plants extraction, coffee, milk; all kinds of biological products, healthy products.

The feature of FD-50 freeze dryer

- 1, Integrated structure, all accessories assembled together with the freeze dryer chamber, and cooled by air cooling condenser, no water consumption during freeze drying process.
- 2, The entire process is fully automatic, monitored and controlled by a touch screen or via mobile devices. The FD-50 freeze dryer operated by only 1-2 people only for loading and unloading.
- 3, The historical production data is recorded and shown as a graph, the data can be downloaded as an excel file. There are 4 languages (English, Spanish, Russian, Chinese) in the touch screen (HMI) for workers whom cannot speak English.



Technical specification

Model	FD-50
Capacity	50kg/batch
Vapor Condenser Temperature (°C)	-45°C
Shelf Temperature (°C)	From -30°C to 100°C
Product Cooling	-30°C
Shelf area	5.0m ²
Refrigeration compressor	Low temperature
Refrigerant	R404A
Cooling way	Air/water cooling
Vacuum pump	Double stage
Ultimate vacuum level (Pa)	10 Pa
Installed power	12kW
Defrost way	By hot water
Control system	PLC with HMI; Recipes setting, Data records
Installation area (m ²)	14 m ² (estimated)
Chamber-over all dimension	2700*1200*2000mm (L*W*H), SUS304
Estimated Weight (kg)	2000kg