



## Freeze dryer lyophilizer

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## Freeze dryer Lyophilizer

DS-08H / DS-15H



**Freeze dryer (lyophilizer)** is a drying technology based on the principle of sublimation. It is a process of rapidly freezing the dried material at low temperature, and then sublimating the frozen water molecules into water vapor under appropriate vacuum environment. The product obtained by freeze drying is called lyophilizer, which is called lyophilization.

The material is always in low temperature (frozen state) before drying, and ice crystals are evenly distributed in the material.

The sublimation process will not be condensed due to dehydration, avoiding the side effects such as froth and oxidation caused by steam. The dry material is porous and its volume is basically unchanged. It is easy to dissolve in water and recover to its original state. In a large extent to prevent the physical and chemical and biological denaturation of dry matter.



Model	DS-08H	DS-15H
Drying area (M2)	0.8 m <sup>2</sup>	1.5 m <sup>2</sup>
Tray size (mm)	265*612	270*800
Tray no.s	5	7
Capacity	68~12kg	15~20kg
Trays distance	54mm	50mm
Shelf temperature	Heating to 60°C	
Condenser temperature	-40°C/-60°C	
Vacuum (Pa)	<15PA	
Vacuum control	Optional	
Machine size (mm)	560*814*935	756*1045*1342
N/Weigh	90kg	120lg