

## *FD-10R Commercial Freeze Dryer*



Commercial 100kgs freeze dryer/Lyophilizer model FD-10R will benefit you not only the high efficient working, easy operate and success freeze drying, also you could use it for almost all kinds of food products, research and production raw material in solid or fluid, Commercial and pilot production lyophilization machine.

The freeze dry process of FD-10R is very simple: Fresh or frozen material load in trays put in freeze drying chamber (FD-10R shelves could freezing to -30°C), operate touch screen panel input freeze drying curve and start machine, freeze dryer machine will automatic execute the parameters you programmed, Sublimation till drying finish.

### **Technical Features:**

1. All in one structure, compact size.
2. Stainless steel freeze dryer house door with observation window. Stainless steel drying chamber and ice condenser, inside corners with hemispherical design, easy clean.
3. Modular shelf and material trays could be aluminum or stainless steel.
4. Shelves useable area 10.5m<sup>2</sup>.
5. Shelf temperature range -30°C to +120°C with accuracy of  $\pm 1^{\circ}\text{C}$
6. Double stage Piston compressor system could cool ice condenser to -65°C. Compressor use water cooling.
7. 150kgs/24hrs vapor collect condenser, observation window with light installed in side condenser wall, condenser defrost by water spray.
8. Leybold vacuum pump, system final vacuum <5Pa.
9. High advanced PLC+Touch Screen control system, user could real-time monitoring lyophilizer running status, flexible program, modify and storage freeze drying recipes, freeze drying data collect/storage/export function.

**Technical Parameters:**

<b>Model</b>	<b>FD-10R</b>
Shelf area	10.5sq.m
Ice capacity	150kg/24hr
Shelves	7+1
Shelf size	1500*1000mm
Material tray size	750*500mm
Material tray quantity	28pcs
Shelves temp.	-30 to +120°C
Condenser temp.	<-65°C
Vacuum degree	<15Pa
Power install	25kwh
Drying House Size	3300*2000*2500mm
Voltage	380V/50-60Hz/3P
Design standard	FDA, GB, CE