

## Laboratory Freeze Dryer

The FD Series is a laboratory freeze-dryer specially developed for basic research in biotechnology and scientific institutes.

### Model FD-5010-BT

#### General features

- Bench mounted table-top unit: It houses the refrigeration system and the vacuum pump.
- Air cooled refrigeration system : Hermetically sealed. Ozone friendly refrigerant.
- A top transparent acrylic lid provides viewing of the ice forming process
- PLC controlled system: a digital touch screen gives direct read-out of current condenser and
- vacuum temperatures during the various stages of the cycle.



#### Specifications

#### Model FD-5010-BT

Condenser Temperature	- 50°C
Condenser Capacity in 24 Hours	5 L
Overall Condenser Capacity	14 L
Condenser Type	Internal Coil (316 Stainless Steel)
System Refrigerant	CFC-Free
Defrost Method	Manual
Controller (Automation)	PLC Base LCD 4.3 inches
Vacuum Indication	Atmosphere to 0.001 Millibar
PC Interface	RS485(Optional)
Outer Dimensions: W x D x H*	800 x 650 x 380mm
Weight	50 kg
Standard Voltages	220V/50hz

## Accessories

## Description

Chamber Dryer	Chamber 250 mm Ø, with 3 trays (for vials, serum bottles and raw material)
Ampoule connector	Silicon tube manifold 10
8 Port Manifold	Including 8 rubber three way valves for flasks
Vacuum Pump	Rottary Oil Vacuum Pump
Stoppering Chamber (Option)	Glass cylindrical chamber with 3 non thermostatized shelves and manual vial closing device. Includes 3 trays (for vials and serum)
Vacuum Valve	Rubber three way valves for flasks



**Chamber Dryer**



**Vacuum Valve**



**8 Port Manifold**



**Vacuum Pump**



**Stoppering Chamber  
(Option)**



**10 Port Manifold  
Ampoule connector  
(Option)**