

## Laboratory Freeze Dryers

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

### General features

### *Model FD-5005-BT*

- Bench mounted table-top unit:It houses the refrigeration system and the vacuum pump. Constructed in a steel stove enamelled cabinet with front door for maintenance purposes
- 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 screen gives direct read-out of current condenser and vacuum temperatures during the various stages of the cycle.



Specifications	Model FD-5005-BT
Condenser Temperature	- 40°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 3.7 inches
Vacuum Indication	Atmosphere to 0.001 Millibar
PC Interface	RS485 (Option)
Outer Dimensions: W x D x H*	800 x 650 x 380mm
Weight	50 kg
Standard Voltages	220V/50

ACCESSORIES	DESCRIPTION
Chamber Dryer	Chamber 200 mm Ø, with 4 trays (for vials, serum bottles and raw material)
20 Port Manifold (Option) Ampoule connector	tube manifold Silicon
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**



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



**8 Port Manifold**



**Vacuum Pump**



**Stoppering Chamber  
(Option)**



**Vacuum Valve**

**LABORATORY AND INDUSTRIAL FREEZE DRYER COMPANY**

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