

## Laboratory Freeze Dryer

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

### Model FD-5005-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-5005-BT

|                                |  |
|--------------------------------|--|
| Condenser Temperature          | - 50°C                                 |
| Condenser Capacity in 24 Hours | 5 L                                    |
| Overall Condenser Capacity     | 14 L                                   |
| Condenser Type                 | Internal Coil<br>(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<br>(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<br>thermostatized shelves and manual vial closing<br>device. Includes 3 trays<br>(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)**