

## Laboratory Freeze Dryer

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

### General features

- 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.

### Model FD-5010-BT



### Specifications

### Model FD-5010-BT

Condenser Temperature	- 50°C
Condenser Capacity in 24 Hours	10 L
Overall Condenser Capacity	32 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(Optional)
Outer Dimensions: W x D x H*	800 x 650 x 380mm
Weight	50 kg

**Address:** Tehran. ayatollah saeeid highway. chahardangeh industrial town, 19<sup>th</sup> street. 4<sup>th</sup> felzatarash. st. NO.24

**Website:** <http://Denavacuum.ir>

**Tel:** (+98) 21 55272834 -55287095

[www.freezedryer.ir](http://www.freezedryer.ir)

**whatsApp:** +989373792491

Accessories	Description
Chamber Dryer	Chamber 300 mm $\varnothing$ , with 3 trays (for vials, serum bottles and raw material)
10 Port Manifold 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)**

**Address:** Tehran. ayatollah saeeid highway. chahardangeh industrial town, 19<sup>th</sup> street. 4<sup>th</sup> felz tarash. st.  
NO.24

**Website:** <http://Denavacuum.ir>  
**Tel:** (+98) 21 55272834 -55287095

[www.freezedryer.ir](http://www.freezedryer.ir)  
**whatsApp:** +989373792491