

## Laboratory Freeze Dryer

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

Thermal trays to +60 c controllable

*Model FD-5005-HS*



### 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
- Thermal trays 0 to +60 c controllable screen gives direct read-out of current condenser and vacuum temperatures during the various stages of the cycle.

### Specifications

### Model FD-5005-HS

|                                |  |
|--------------------------------|--|
| 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 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                                  |
| Standard Voltages              | 220V/50                                |
| Thermal trays                  | to +60 c                               |

**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

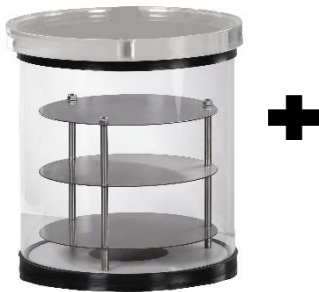
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**whatsApp:** +989373792491

## Accessories

## Description

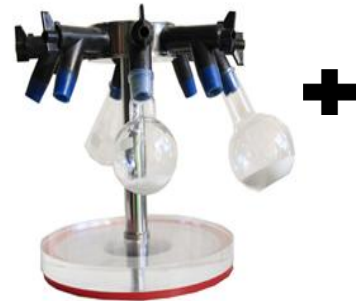
|                                       |   |
|---------------------------------------|---|
| Chamber Dryer                         | Chamber 300 mm Ø, with 3 trays<br>(for vials, serum bottles and raw material)   |
| 10 port manifold<br>Ampoule connector | Silicon tube manifold 10  |
| 8 Port Manifold                       | Including 8 rubber three way valves for flasks  |
| Vacuum Pump                           | Rottary Oil Vacuum Pump   |
| Stoppering Chamber (Ootion)           | 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)**

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