



# STANDARD FREEZE DRYER

**LLFD-A11**

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## Standard Freeze Dryer LLFD-A11

Standard Freeze Dryer LLFD-A11 is designed to handle lyophilization requirements for large scale production. Equipped with 80 kg condenser capacity and a temperature of  $-70^{\circ}\text{C}$  it increases the shelf life of the product without destroying the original structure. The temperature controllable shelves are designed for complete moisture removal and storage facilities of various biological materials. Precise vacuum control enables faster freeze drying and reproducible results.

### Features

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- » Ice condenser capacity is 80 kg / 24 h
- » Condenser temperature (  $-70^{\circ}\text{C}$  )
- » Freeze and drying process both made on the shelf
- » Built in nitrogen inflation valve
- » Vacuum pump oil return
- » Oil mist filtration system
- » Easy to clean and anti-corrosion cold trap
- » Display of sample temperature , vacuum curve degree , cold trap temperature curve
- » High vial capacities for more number of samples
- » External USB port to view data in excel
- » Alarm indication for high condenser and shelf temperature
- » Beep indication for completion of process

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## Specification

Model No.	LLFD-A11
Condenser temperature	- 70 °C
Condenser capacity	80 kg / 24 h
Freeze drying area	5.5 m <sup>2</sup>
Bulk capacity	80 L
Vial capacity $\Phi$ 12 mm	35000 pieces
Vial capacity $\Phi$ 16 mm	24800 pieces
Vial capacity $\Phi$ 22 mm	12700 pieces
Shelves	6 shelves
Shelves dimension	$\Phi$ 100 mm
Shelf temperature	-50 °C to 70 °C
Final Vacuum	< 10 Pa
Voltage	220 V / 50 Hz
Power	18 W
Dimensions	3800 x 1500 x 2900 mm
Weight	4200 kg