



## **Large Scale Freeze Dryer LD-LLFD-A11**

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# Large Scale Freeze Dryer LD-LLFD-A11

## Overview

Large Scale 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 °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:

- Ice condenser capacity is 80 kg / 24 h
- Condenser temperature ( - 70 °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

## Specifications:

|                              |                       |
|------------------------------|-----------------------|
| <b>Power</b>                 | 18 W                  |
| <b>Weight</b>                | 4200 kg               |
| <b>Shelves</b>               | 6 shelves             |
| <b>Voltage</b>               | 220 V / 50 Hz         |
| <b>Dimensions</b>            | 3800 x 1500 x 2900 mm |
| <b>Final Vacuum</b>          | < 10 Pa               |
| <b>Bulk capacity</b>         | 80 L                  |
| <b>Shelf temperature</b>     | -50 °C to 70 °C       |
| <b>Shelves dimension</b>     | ? 100 mm              |
| <b>Condenser capacity</b>    | 80 kg / 24 h          |
| <b>Freeze drying area</b>    | 5.5 m <sup>2</sup>    |
| <b>Condenser temperature</b> | - 70 °C               |
| <b>Vial capacity ? 12 mm</b> | 35000 pieces          |

|                       |              |
|-----------------------|--------------|
| Vial capacity ? 16 mm | 24800 pieces |
| Vial capacity ? 22 mm | 12700 pieces |