

# Industrial Freeze Dryer for Material Preservation

This industrial freeze dryer is designed for preserving materials through sublimation. It features a cylindrical vacuum chamber connected to control and refrigeration units, complete with a control panel for precise operation.



## Overview

### Industrial Material Preservation System

This industrial-grade system is designed for high-capacity material preservation through advanced sublimation processes. Engineered for versatility, it is suitable for demanding applications in pharmaceutical, food processing, and research environments. The unit features a robust cylindrical vacuum chamber integrated with sophisticated refrigeration and control systems to ensure precise process management.

## Technical Specifications

### Monitoring Parameters

- Water temperature
- System temperature
- Pressure
- Flow rate
- Current
- Concentration levels

### Control Interface

Integrated PLC control system for automated process management

## Performance Metrics

### Inverter Power Capacity

**500 kW**

Power Capacity

### Efficiency Improvement

30 %

## Key Features

### Core Technologies

PLC Automation, SCR Inverter, DTA Dielectric Materials, Online Detection