

# LYOPHILIZER/ FREEZE DRYER SYSTEM



Compact • Efficient • Reliable

## PRODUCT OVERVIEW

Complete freeze dryer system in which Pre-freezing on the tray, Freeze Drying and Automatic pneumatic stoppering of vials can be done in a single machine, without moving samples from one place to another.

“Laboratory work with advanced touch screen control system and high performance vacuum technology.”



### KEY FEATURES

- ✓ Pre-freezing upto -70°C
- ✓ CFC & HCFC free refrigeration
- ✓ Condenser temperature -80°C
- ✓ Shelf temperature -65°C
- ✓ LCD display with user-friendly interface
- ✓ Automatic pneumatic stoppering of vials
- ✓ Stainless steel product tray (removable)
- ✓ Vacuum control & high performance pump
- ✓ USB port for data transfer
- ✓ Audible & visual alarm system

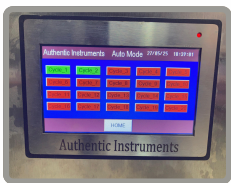
### APPLICATIONS

- Pharmaceutical industry
- Diagnostic Kit Processing
- Serum Vial Drying
- Laboratory Research
- Biotechnology Applications
- Product Tray Freeze Drying

### ALARAM & SAFETY FEATURES

- Power Failure Alarm
- Improper Voltage Supply Alarm
- High Condenser Temperature Alarm
- Moisture in Collector Alarm
- Shelf Temperature Variation Alarm

### TOUCH SCREEN INTERFACE



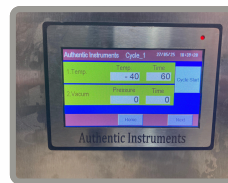
AUTO MODE SCREEN



MENU SCREEN



CYCLE RUNNING SCREEN



PARAMETER SETTING SCREEN

### INCLUDED ACCESSORIES

- Water Tray
- Pre Filters
- Servo Stabilizer
- Calibration Certificate

### ADDITIONAL INFORMATION

- 1 Years Warranty
- Installation Qualification (IQ)
- Performance Qualification (PQ)
- Training for Lab Staff
- CE Certified & IEC 61010-1 Tested



### TECHNICAL SPECIFICATIONS

|                          |                              |
|--------------------------|------------------------------|
| Pre-Freezing Temperature | Up to -70°C                  |
| Condenser Temperature    | Up to -80°C                  |
| Shelf Temperature        | Up to -65°C                  |
| Vacuum Level             | 0.01 mBar or better          |
| Vacuum Pump Capacity     | Minimum 90 liter/min or more |
| Chamber Material         | Stainless Steel              |
| Operation Mode           | Automatic                    |

|                      |                                |
|----------------------|--------------------------------|
| Control System       | LCD Touch Screen HMI           |
| Application Capacity | Minimum 250 Vials              |
| Power Supply         | 420-440V, 50-60Hz, Three Phase |
| Data Communication   | RS 232/485 Port or better      |
| Refrigerants         | CFC & HCFC Free                |

### KEY ADVANTAGES



CONTAMINATION-FREE STORAGE



FAST & CONSISTANT PERFORMANCE



FULLY AUTOMATED WORKFLOW



IDEAL FOR BLOOD BANKS & PLASMA LABS, PHARMA



RELIABLE, SAFE & ACCURATE

