

## **Labocon Advance Freeze Dryer 300 series**

**Condensation Temperature -120° C**



### **T-Type Manifold**

**Model LAFD-303**



### **Acrylic Drying Chamber with 3 Shelves + D-Type Manifold**

**Model LAFD-302**



### **Acrylic Drying Chamber with 3 Shelves**

**Model LAFD-301**

**Outstanding  
Reliability  
with  
Unmatched  
Versatility**

## **Labocon Advance Freeze Dryer 300 series offers:**

- Lyophilisation temperature -120°C
- Condenser capacity 3-4.5L
- Specifically customised Air cooled-Two stage auto cascade system 1.5HP Hermetic compressor
- Refrigerant Non-CFC /Non-HCFC
- Precise result with advance Microprocessor Controller with wide LED display
- Best suitable for Aqueous & Organic Solvents such as: Methanol, Ethanol, IOS-Octane, Isobutyl alcohol, Hexane, Toluene, and Acetone etc.
- Ice condenser chamber with internal condenser coils, cold trap - all made from Teflon coated high-grade stainless steel to avoid any kind of corrosion

Robust and powerful Double Stage Rotary Direct driven high Vacuum Pump with Capacity of 200L/Per Minute, Ultimate Vacuum pressure  $2 \times 10^{-3}$  mbar

- Power AC 220V, 50hz, 1Phase, 5KW
- Dimension: 500X646X976 mm

- One touch auto and manual operation
- Transparent acrylic Drying chamber for easy monitoring the operation
- Organic solvent up to 30L can be pre-freeze without need of buying additional Cryo-freezer
- Automatic Defrost / Hot Gas by Pass
- Microprocessor controlled LED digital display Temperature and vacuum degree
- LED Digital displays 0.1 degree C increment & Vacuum display 2000mtorr - 0mtorr
- Auto / Manual Vacuum pump start/stop function , Pump protection system from moisture / oil & air anti suck-back protection
- Optional Printer to record freeze drying progress as temperature, vacuum degree, time
- Control circuit consists of power failure protection circuit, interlock and sequence circuit to prevent equipment damage due to mishandling
- 3" rotatable urethane caster allows easy mobility.

## **Advance Features with Excellent User Interface**

## Wide Choice of Optional Accessories

- Drying chamber with 3 shelves (or mini tray)
- D-type manifold(Optional: 6P, 8P, 10P)
- T-type manifold (Optional:8P, 10P, 12P, 24P)
- Vacuum pump Capacity : 200LPM
- Vacuum valve + Cap + Adaptor set
- Flasks: 150ml, 300ml, 600ml, 1000ml
- Chemical trap
- Oil mist trap
- Stoppering system
- Sublimation Electric heater
- Sealing torch, Vacuum grease
- RS-232 communication Interface to save and transfer the data



|          |                       |
|----------|-----------------------|
| -35.66°C | Ethylene Dichloride   |
| -63.55°C | Chloroform            |
| -73.9°C  | Methyl Isoamyl Ketone |
| -83.97°C | Acetate               |
| -88.62°C | n-Butyl Alcohol       |
| -94.7°C  | Acetone               |
| -94.99°C | Toluene               |
| -95.14°C | Dichloromethane       |
| -95.3°C  | Hexane                |
| -97.68°C | Methyl Alcohol        |



**T Type-  
Manifold**

**Acrylic Drying Chamber with  
3 Shelves + D-Type Manifold**



**Acrylic Drying Chamber with  
3 Shelves**