

# Freeze DRYER

Freeze Dryer Covers a range of application from multi-user centralized laboratory application, pilot plant determination works etc. This unit is mounted on castors. The unit has hermetically sealed one compressor maintains temperature up to minus 40°C. Trap is given at non magnetic stainless steel dished bottom for complete effluent removal.

## ABOUT

Refrigerant Coils made of Copper are heavily insulated for maximum efficiency in the condensing chamber. Temperature controller cum indicator Vacuum drum is made of non magnetic Stainless steel with Perspex top cover and incorporates 8 / 12" Quick seal valves/ports for manifold drying. Double stage Vacuum pumps with gas ballast giving vacuum  $1 \times 10^{-3}$  torr module gauge sample port having 12.5 mm outer dia provided for Quick drying however, moisture contains would be around 5% in the specimen.



# SPECIFICATION Of Freeze Dryer



Parameter	Table top
Capacity	1 ~ 3.5 Liters
Temperature	-40/-80 degrees C
Condensation Capacity	3 L in 24 hours (can customized as per customer's requirement)
Compressor	1/3 HP (hermetically sealed)
Vacuum Pump	150 liter/minute (can customized as per customer's requirement)
Vacuum Gauge	Pirani Gauges
Controller	PID
Temperature	Deviation 0.5 deg C
Temperature Sensor	PT-100
Display	LED/LCD
Adjustable alarm limits (visual and acoustic)	Optional
Refrigerants	R 23 or R 404

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