



TRAY AND MANIFOLD FREEZE DRYER

- Shelf and Manifold Dryer
- 3.75 Sq Ft of Shelf Area
- PC/PLC Control System
- -53C or -85C Condenser Temperature
- -45C or -70C Shelf Temperature
- 6L in 24 hours, 8L total capacity
- Rectangular 316L Chamber
- 3 Shelf Bulk or 3 Shelf Stoppering
- 10" x 18" Shelves
- Fluid Filled Hollow Shelves
- Internal Condenser with Hot Gas Defrost
- CFC-free Refrigeration
- Complete with Vacuum Pump

Special points of interest:

- Versatile Laboratory Freeze Dryer
- High Capacity Internal Condenser
- Advanced Refrigeration Technology
- Fluid Filled Hollow Shelves for In-chamber Freezing and Maximum Temperature Uniformity
- Manifold Option for Drying Flasks
- Built-in Shell Freezer Option

Model	LD53	LD85
Condenser	Temp -53 C	-85 C
Condenser Capacity	6L/24Hrs, 8L Max	6L/24Hrs, 8L Max
Shelf Temp	-45 C to +65 C	-70 C to +65 C
Compressor	2 HP	2HP and 1HP
Vacuum Pump	200 LPM	200 LPM
Vacuum Gauge	Thermocouple	Thermocouple
Dimensions	35"W x 40"D x 52"H	35"W x 40"D x 52"H
Electrical Service	208-240V/50-60Hz/1PH	208-240V/50-60Hz/1PH





MAX SERIES FREEZE DRYER

- Shelf Area from 12 Sq ft to 20 Sq ft
- 6 to 10 Shelves in Bulk or Stoppering
- Full PC/PLC Control Standard
- -53C or -85C Condenser Temperature
- 30L Condenser Capacity
- Remote Condenser with Hot Gas Defrost
- -70C Shelf Temperature
- Fluid Filled Hollow Shelves, 12" x 24" Each
- Rectangular 316L Chamber
- Hydraulic Stoppering
- Pirani Pressure Control and Gas Backfill Standard
- Clean Room Configuration Available

Special points of interest:

- Versatile Research and Production Freeze Dryer
- Large Capacity Condenser
- Advanced Refrigeration Technology
- Fluid Filled Hollow Shelves for Maximum Temperature Uniformity

Condenser Temp	-53 C	-75 C	-85 C
Condenser Capacity	30L Max, 20L/24 Hrs	30L Max, 20L/24 Hrs	30L Max, 20L/24 Hrs
Shelf Temp	-48 C to +65 C	-60 C to +65 C	-70 C to +65 C
Compressor	3.5 HP Scroll	6.5 HP Two Stage	3.5 HP, 2 HP Scroll
Vacuum Pump	400 LPM	400 LPM	400 LPM
Vacuum Gauge	Pirani	Pirani	Pirani
Dimensions	46"W x 33"D x 80"H	46"W x 33"D x 80"H	46"W x 33"D x 80"H
Electrical Service	208-240V/50-60Hz/1PH/40A	208-240V/50-60Hz/3PH/30A	208-240V/50-60Hz/1PH/50A





ADVANCED RESEARCH FREEZE-DRYER

- PC/PLC Control Standard
- -53C or -85C Condenser Temperature
- 30L Condenser Capacity
- Remote Condenser with Hot Gas Defrost
- From 1 to 5 Shelves in Bulk or Stoppering
- -48C or -70C Shelf Temperature
- Fluid Filled Hollow Shelves, 12" x 24" Each
- Rectangular 316L Chamber
- Hydraulic Stoppering
- Pirani Pressure Control and Gas Backfill Standard
- Optional Manifold

Key Features:

- Versatile R&D Freeze Dryer
- Large Capacity Condenser
- Fluid Filled Hollow Shelves for Maximum Temperature Uniformity
- Ability to add PAT Instrumentation

Model	RD53	RD85
Condenser Temp	-53 C	-85 C
Condenser Capacity	30L Max, 20L/24 Hrs	30L Max, 20L/24 Hrs
Shelf Temp	-48 C to +65 C	-70 C to +65 C
Compressor	3.5 HP Scroll	3.5 HP, 2 HP Scroll
Vacuum Pump	400 LPM	400 LPM
Vacuum Gauge	Pirani	Pirani
Dimensions	35"W x 42" D x 72" H	35"W x 42" D x 72" H
Electrical Service	208-240V/50-60Hz/1PH/30A	208-240V/50-60Hz/1PH/30A



Cassia Siamia