

SPECIFICATIONS

FREEZE DRYER FD12L



Salient Features

- Floor Mounted Configuration with Movable castor wheels and stopper
- Siemens PLC Controls with 7" HMI Display
- High Efficient Double Stage Rotary Oil Vacuum Pump for steady Vacuum performance
- Hot Gas Defrosting System
- USB Cycle Data Export
- Live Data Trends Visibility on HMI
- Optional SS316 Tree Manifolds- 12/24 Ports with 5.5" spacing between each Ports
- Acrylic Baseplate for Aqueous Solutions and SS316L Baseplate for Solvents
- Vacuum Break Solenoid valve to hold Chamber Vacuum during Power shutdown
- Vacuum Level can be Controlled with optional units mTorr/ μ bar

Descriptions	FD12L
Ice Condensing capacity in L/24hours	12
Condenser Volume in L	36
Maximum Condenser Temperature ($^{\circ}$ C)	-82
Lowest System Vacuum(mTorr)	<80
Condenser Pull down from 25 $^{\circ}$ C to -80 $^{\circ}$ C (Minutes)	\leq 20
Vacuum Pull down Time to <100mTorr(Minutes)	\leq 20
Power Supply	230V AC,50HZ
Power consumption(W)	2240
Compressor Type	Hermetic-Sealed
Refrigerant Type	CFC Free
Refrigeration Type	Cascade
No of Compressors	02
Condenser Material	SS316L
Manifold Material	SS316L
Manifold Ports	12
Display Type	7" Digital Touch
Controller Type	PLC Based
Temperature Sensor	Thermocouple
Vacuum Sensor	Pirani
Vacuum Units	mTorr / μ bar
Defrost Type	Hot Gas
Dimensions (LBH) mm	639X814X1014
Inbuilt Data Logging	✓
Data Trends Visibility	✓
Vacuum Level Control Mode	✓
Operational Cycles	Manual /Auto
Ambient Temperature Display	✓
Alarms	Visual/Acoustic

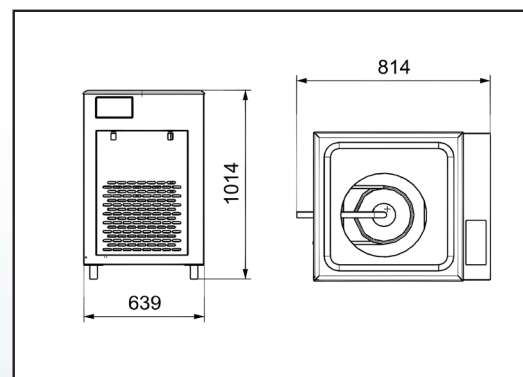
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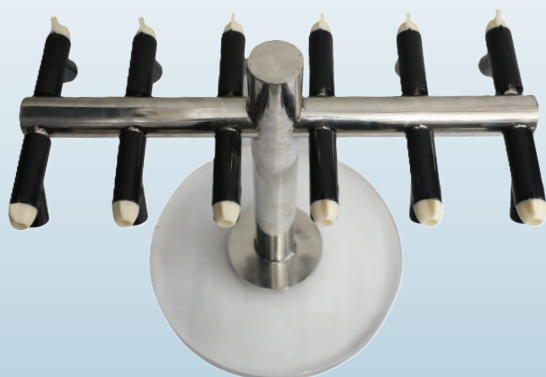
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Utility Requirements	
Power Supply Range	210VAC-235VAC, 50HZ, 1Phase
Circuit Breaker Amperage	20A
Room Temperature Range	20°C -25°C
Servo Voltage Stabilizer Capacity	5KVA
Inert Gas Backfill N2 Pressure	5Psig Max
Maximum Peak Heat Generated	3.67kW

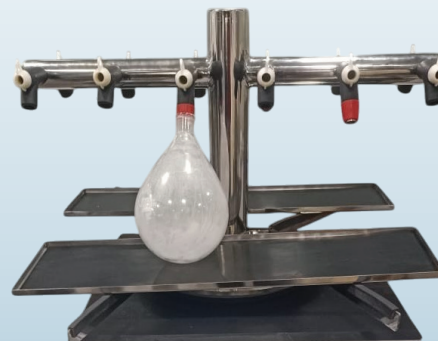


12 Port SS316 Manifold with Acrylic/SS316 Base Plate



Optional Accessories

Height Adjustable Tray Stand- Flask Holding



**RB Flask Adapter
26/29mm, 29/32mm**



Filter Papers



Glass Flasks-50ml to 1200ml



Note:

- The Performance Specifications are based on the factory testing at 25°C ambient with Stabilized Power supply 50HZ and the result can vary if the ambient or any component changes at customer site.
- The specified Maximum Ice Condensing Capacity in 24 Hours are based on the process of freeze-drying water as aggressively as possible.
- The freeze dryer's ability to collect ice at an hourly rate or over a specified period will always be application dependent and it varies with Solvents.

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