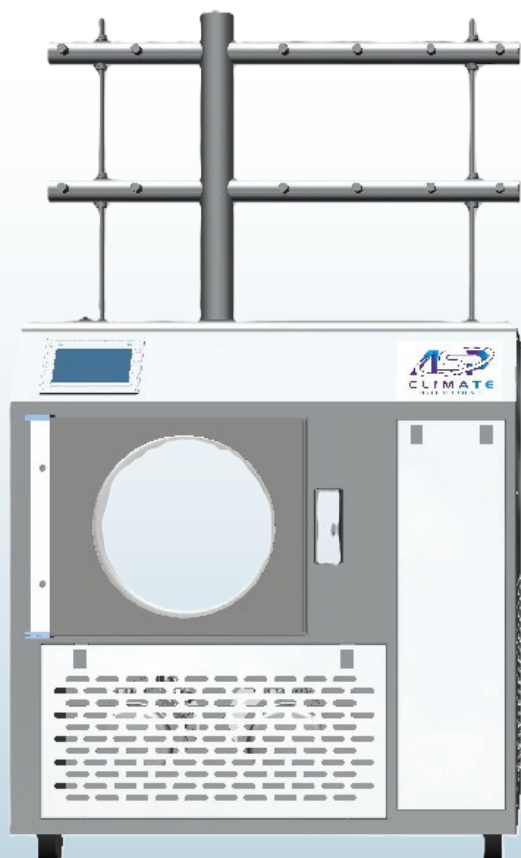


# SPECIFICATIONS

## FREEZE DRYER FD25L/FD35L



- Floor Mounted Configuration with Movable castor wheels and stopper
- Inbuilt Vacuum Pump assembly
- Siemens PLC Controls with 7" HMI Display
- High Efficient Double Stage Rotary Oil Vacuum Pump for steady Vacuum performance
- Hi Efficient Semi Hermetic Refrigeration Compressors for Optimum Performance
- Hot Gas Defrosting System
- USB Cycle Data Export
- Live Data Trends Visibility on HMI
- SS316 Tree Manifolds- 24 Ports with 5.5" spacing between each Ports
- Vacuum Break Solenoid valve to hold Chamber Vacuum during Power shutdown
- Vacuum Level can be Controlled with optional units mTorr/ $\mu$ bar

Descriptions	FD25L	FD35L
Ice Condensing capacity in L/24hours	~20-25	~30-35
Condenser Volume in L	82	82
Maximum Condenser Temperature ( $^{\circ}$ C)	-82	-82
Lowest System Vacuum(mTorr)	<80	<80
Condenser Pull down from 25 $^{\circ}$ C to -80 $^{\circ}$ C (Minutes)	$\leq$ 25	$\leq$ 35
Vacuum Pull down Time to <100mTorr(Minutes)	$\leq$ 30	$\leq$ 30
Power Supply	415V AC,50HZ	415V AC,50HZ
Power consumption(W)	4800	5300
Compressor Type	Semi Hermetic	Semi Hermetic
Refrigerant Type	CFC Free	CFC Free
Refrigeration Type	Cascade	Cascade
No of Compressors	02	02
Condenser Material	SS316L	SS316L
Manifold Material	SS316L	SS316L
Manifold Ports	24	24
Display Type	7" Digital Touch	7" Digital Touch
Controller Type	PLC Based	PLC Based
Temperature Sensor	Thermocouple	Thermocouple
Vacuum Sensor	Pirani	Pirani
Vacuum Units	mTorr / $\mu$ bar	mTorr / $\mu$ bar
Defrost Type	Hot Gas	Hot Gas
Dimensions (LBH) mm	1028X1207X1129	1028X1207X1129
Additional Features		
Inbuilt Data Logging	✓	✓
Data Trends Visibility	✓	✓
Vacuum Level Control Mode	✓	✓
Operational Cycles	Manual /Auto	Manual /Auto
Ambient Temperature Display	✓	✓
Alarms	Visual/Acoustic	Visual/Acoustic

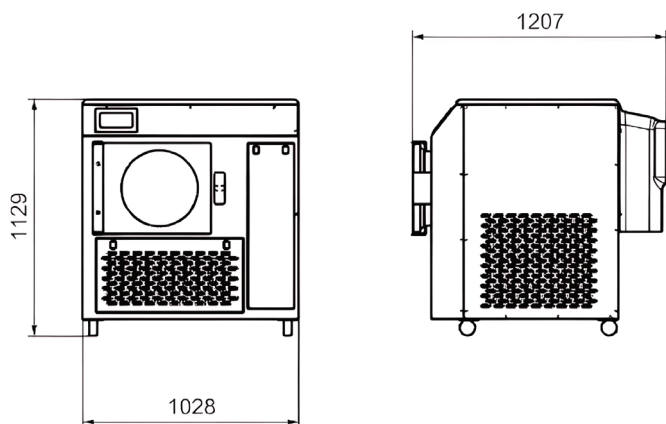
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# SPECIFICATIONS

## FREEZE DRYER FD25L/FD35L



Utility Requirements	
Power Supply Range	400VAC-430VAC,50HZ,3Phase
Circuit Breaker Amperage	30A
Room Temperature Range	20°C -25°C
Inert Gas Backfill N2 Pressure	5Psig Max
Maximum Peak Heat Generated	5.84kW

### Optional Accessories

12 Port Manifold-SS316



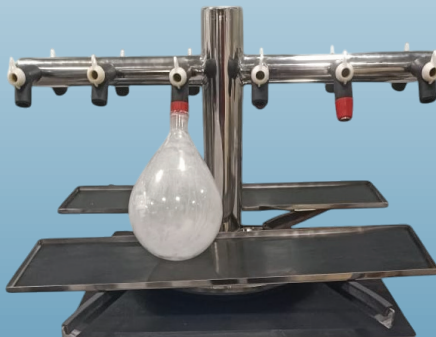
Glass Flasks-50ML to 1200mL



24 Port Manifold-SS316



Height Adjustable Tray Stand- Flask Holding



#### 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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