

FREEZE DRYER (LYOPHILIZER):



APS Freeze Dryer or Lyophilizer is a such a dehydration process in which is water is removed for the frozen sample using purified vacuum condition. This process is followed by first stage Sublimation (primary drying) and last stage Desorption (secondary drying). In lyophilization process, where water in ice form on the frozen goods can be directly lyophilized into steam without melting in advance, thus the goods are dried. The substances frozen can be well-preserved for a long time and returned to their former state once being watered without losing their biochemical properties. The freeze drying technology is especially ideal for those bio-products sensitive to antibiotic, vaccines, blood products, enzymes and hormones.

FREEZE DRYER FOR PHARMA AND LAB USE:

Located APS in New Delhi, India, we are leading company engaged in designing, manufacturing and supplying of lab scale freeze drying machines (lyophilizer) at a price that make these units available at best value in the Indian and overseas market. Our Laboratory Freeze Dryers are recognized as top performing machines in the industry. Their water catching capacity and capability are incomparable.

Our Laboratory Freeze dryers / Lyophilizers are especially designed for bio-products sensitive to antibiotic, vaccines, blood products, enzymes and hormones. These freeze drying systems are perfect for both routine and specialized freezing experiments of little amount of products in laboratories.

Our standard product range is available with ice capacities from 3 Liter, 5 Liter, 8 Liter, 10 Liter and 15 Liter; we also manufacture freeze dryers up to 30 Liters capacities if required. The standard cold trap temperature of our machines is -40°C or below and -80°C is available as an option. Available as bench top and floor mounting units, these lab scale systems offer user friendly control system and rugged construction for long service life. In addition, we have large combination of options and accessories that may require in variety of applications.

We have years of extensive experience in freeze drying, so we are perfect for companies that want customized solutions for their production and research. It is the quality of our products that make our brand name APS™ popular worldwide. We carefully design each freeze drying unit following factory testing before shipment to the client.

FEATURES:

3 to 15 Liters ice capacities	-40°C or -80°C temperature
CFC refrigeration system	Precise vacuum control
Corrosion resistant construction	Audio visual alarm
Digital PID controller	Simple to install and operate
Wide range of accessories are available	Single or two stages cooling system

SPECIFICATIONS:

Model	APS-LY103	APS-LY105	APS-LY108	APS-LY110	APS-LY115
Max. ice capacity	3 L	5 L	8 L	10 L	15 L
Ice condenser performance	2L / 24Hr	3.5L / 24Hr	5.5L / 24Hr	7.5L / 24Hr	10L / 24Hr
Cold trap temperature	-40°C or below (-80°C Optional)				
Temperature Sensor	PT-100				
Controls	Refrigeration ON/OFF Vacuum ON/OFF				
Controller	PID controller/PLC+HMI Optional				
Refrigeration System	HCFC / CFC Free, -55°C (-86°C optional)				
Compressor	(hermetically sealed)				
Defrost	Defrost Hot Gas				
Pressure Control	Automatic or Manual				
Drain connection	Side mounted				
MOC	Exterior - Powder coated MS Exterior top - SS 304 Drying chamber - SS 304 OR SS 316 Cold Trap Chamber - SS 304 OR SS 316 Lids - Acrylic				
Vacuum Probe	Electric vacuum transducer				
Power Supply	220 Volts				
Vacuum Indicator	Digital vacuum indicator				
Ultra Ultimate Vacuum (Pump Head)	1 x 10 ⁻³ torr				
Vacuum Sensor	Pirani Based Vacuum Sensor				
	<ul style="list-style-type: none"> • High ice capacity lyophilizers are also constructed on demand • Tray type lyophilizer is constructed on demand • PLC+HMI Optional 				