

Infitek

FREEZE DRYER



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Benchtop Freeze Dryer

LYO60B-1S LYO60B-1P LYO60B-1T LYO60B-1PT



Reliability

Condenser and operation panel are made by stainless steel.



High performance compressor, cascade system,high cooling efficiency and fast cooling speed.



Drying chamber is transparent which is visual and safe.

Key Features

- 7 inches colorful touch panel can display the product sample's temperature, condenser temperature and vacuum etc in digital and curve.
- Touch panel with the design conforms to ergonomics and operate more comfortably.
- With USB interface to export the data, convenient for user information management.
- Compact bench-top design with a small footprint.
- Large-volume stainless steel condenser without coils, which can realize independent sample pre-freezing.



Parts



Standard chamber



Stopper chamber



Standard stopper with 8 port manifolds



Stainless steel drying chamber



Standard chamber with 8 manifolds



Stainless steel with 8 port manifolds



Isolation valve



Valve and freeze drying bottle

Application



The lab series freeze dryer is suitable for freeze drying test of laboratory biomedical samples. Widely used in drugs, biological products, chemical and food industries. On the heat-sensitive substances such as antibiotics,vaccines, blood products, hormones and other biological tissue enzymes, freeze-drying technology is applied.



Specifications

Model	LYO60B-IS	LYO60B-IP
Type	Standard chamber	Standard chamber with 8 port manifolds
Freeze Drying Area(m²)	0.12	0.12
Tray(Qty)	4/6(Optional)pcs	4/6(Optional)pcs
Tray Dimensions(Diameter*H)(mm)	Φ200*20	Φ 200*20
Height Between Trays(mm)	76/50	76/50
Condenser Temperature (℃)	-60	-60
Condenser Capacity (L)	6.5	6.5
Condenser Dimensions(Diameter*H)(mm)	Φ215*190	Φ 215*190
Vacuum Degree(no-loading) (Pa)	≤5	≤5
Ice Condensing Capacity (kg/24h)	3	3
Loading Capacity/ Shelf (mL)	300	300
Total Loading Capacity of Material Tray(mL)	1200	1200
Drying Chamber Dimensions(standard)	Lower circle:Φ260mm;Upper circle:Φ240mm;Height:Φ450mm	
Total Qty. Of Vial Φ22	260	260
Total Qty. Of Vial Φ16	480	480
Total Qty. Of Vial Φ12	920	920
Refrigerant	CFC-free	CFC-free
Standard Accessories	Vacuum pump 2L/s,8m³/h,material tray,material rack,PC cover(for all modes)	
	Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model IP/PT)	
Optional Function&Accessories	Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)	
	800mL wide-mouth flask(only for model IP/PT)	
Consumption	0.85kW	
Electricity	AC220V,50Hz(standard), other electricity type can be customized	
External Dimensions(W*D*H)(mm)	600*540*374/820	600*540*374/820
Package	Main body(mm)	710*680*600mm
Dimension	Drying chamber(mm)	360*360*590mm
	Vacuum pump(mm)	590*230*380mm
G.W.(kg)	110kg	



Specifications

Model	LYO60B-IT	LYO60B-IPT
Type	Stoppering chamber	Stoppering chamber with 8 port manifolds
Freeze Drying Area(m²)	0.09	0.09
Tray(Qty)	3pcs	3pcs
Tray Dimensions(Diameter*H)(mm)	Φ200*20	Φ200*20
Height Between Trays(mm)	70(average)	70(average)
Condenser Temperature (℃)	-60	-60
Condenser Capacity (L)	6.5	6.5
Condenser Dimensions(Diameter*H)(mm)	Φ215*190	Φ215*190
Vacuum Degree(no-loading) (Pa)	≤5	≤5
Ice Condensing Capacity (kg/24h)	3	3
Loading Capacity/ Shelf (mL)	300	300
Total Loading Capacity of Material Tray(mL)	900	900
Drying Chamber Dimensions(standard)	Lower circle:Φ260mm;Upper circle:Φ240mm;Height:Φ450mm	
Total Qty. Of Vial Φ22	195	195
Total Qty. Of Vial Φ16	360	360
Total Qty. Of Vial Φ12	690	690
Refrigerant	CFC-free	CFC-free
Standard Accessories	Vacuum pump 2L/s,8m³/h,material tray,material rack,PC cover(for all modes)	
	Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model IP/PT)	
Optional Function&Accessories	Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)	
	800mL wide-mouth flask(only for model IP/PT)	
Consumption	0.85kW	
Electricity	AC220V,50Hz(standard), other electricity type can be customized	
External Dimensions(W*D*H)(mm)	600*540*374/880	600*540*374/880
Package	Main body(mm)	720*680*600mm
Dimension	Drying chamber(mm)	360*360*600mm
	Vacuum pump(mm)	600*230*380mm
Gross Weight(kg)	110	110

Floor Freeze Dryer

LYO60V-1S LYO60V-1P LYO60V-1T LYO60V-1PT
LYO80V-1S LYO80V-1P LYO80V-1T LYO80V-1PT



Reliability

Condenser and operation panel are made by stainless steel.



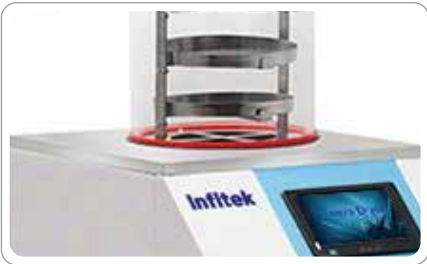
High performance compressor, cascade system,high cooling efficiency and fast cooling speed.



Drying chamber is transparent which is visual and safe.

Key Features

- 7 inches colorful touch panel can display the product sample's temperature, condenser temperature and vacuum etc in digital and curve.
- Touch panel with the design conforms to ergonomics and operate more comfortably.
- With USB interface to export the data, convenient for user information management.
- Compact design with a small footprint.
- Large-volume stainless steel condenser without coils, which can realize independent sample pre-freezing.



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Stopper chamber



Standard stopper with 8 port manifolds



Stainless steel drying chamber



Standard chamber with 8 manifolds



Stainless steel with 8 port manifolds



Isolation valve



Valve and freeze drying bottle

Application



The lab series freeze dryer is suitable for freeze drying test of laboratory biomedical samples. Widely used in drugs, biological products, chemical and food industries. On the heat-sensitive substances such as antibiotics,vaccines, blood products, hormones and other biological tissue enzymes, freeze-drying technology is applied.

Optional

Optional for Condenser electrical heating defrost function.

Optional for rack heating which is help to test in production.



Specifications

Model		LYO60V-1S	LYO80V-1S	LYO60V-1P	LYO80V-1P
Type		Standard chamber		Standard chamber with 8 port manifolds	
Freeze Drying Area(m²)		0.12~0.18		0.12~0.18	
Tray(Qty)		Standard configuration includes 4 layers, and up to 6 layers can be optionally selected			
Tray Dimensions(Diameter*H)(mm)		Φ200*20		Φ200*20	
Height Between Trays(mm)		76	50	76	50
Condenser Temperature (℃)		-60	-80	-60	-80
Condenser Capacity (L)		9.5		9.5	
Condenser Dimensions(Diameter*H)(mm)		Φ217*250		Φ217*250	
Vacuum Degree(no-loading) (Pa)		≤5		≤5	
Ice Condensing Capacity (kg/24h)		4		4	
Loading Capacity/ Shelf (mL)		300		300	
Total Loading Capacity of Material Tray(mL)		1200~1800		1200~1800	
Drying Chamber Dimensions(standard)		Lower circle:Φ260mm;Upper circle:Φ240mm;Height:Φ450mm			
Total Qty. Of Vial Φ22		260		260	
Total Qty. Of Vial Φ16		480		480	
Total Qty. Of Vial Φ12		920		920	
Refrigerant		CFC-free		CFC-free	
Standard Accessories		Vacuum pump 2L/s,8m³/h,material tray,material rack,PC cover(for all modes)			
		Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model 1P/PT)			
Optional Function&Accessories		Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)			
		800mL wide-mouth flask(only for model 1P/PT)			
Consumption		0.95KW	1.5KW	0.95KW	1.5KW
Electricity		AC220V,50Hz(standard), other electricity type can be customized			
External Dimensions(W*D*H)(mm)		480*610*905	480*610*1355	480*610*905	480*610*1355
Shipping	Main body(mm)	740*620*1200mm		740*620*1200mm	
Dimensions	Drying chamber(mm)	410*420*640mm		410*420*640mm	
(W*D*H)	Vacuum pump(mm)	600*230*380mm		600*230*380mm	
Gross Weight(kg)		135kg	155kg	135kg	155kg



Specifications

Model		LYO60V-1T	LYO80V-1T	LYO60V-1PT	LYO80V-1PT
Type		Stoppering chamber		Stoppering chamber with 8 port manifolds	
Freeze Drying Area(m²)		0.09		0.09	
Tray(Qty)		3pcs		3pcs	
Tray Dimensions(Diameter*H)(mm)		Φ200*20		Φ200*20	
Height Between Trays(mm)		70(average)		70(average)	
Condenser Temperature (℃)		-60	-80	-60	-80
Condenser Capacity (L)		9.5		9.5	
Condenser Dimensions(Diameter*H)(mm)		Φ217*250		Φ217*250	
Vacuum Degree(no-loading) (Pa)		≤5		≤5	
Ice Condensing Capacity (kg/24h)		4		4	
Loading Capacity/ Shelf (mL)		300		300	
Total Loading Capacity of Material Tray(mL)		900		900	
Drying Chamber Dimensions(standard)		Lower circle:Φ260mm;Upper circle:Φ240mm;Height:Φ450mm			
Total Qty. Of Vial Φ22		195		195	
Total Qty. Of Vial Φ16		360		360	
Total Qty. Of Vial Φ12		690		690	
Refrigerant		CFC-free		CFC-free	
Standard Accessories		Vacuum pump 2L/s,8m³/h,material tray,material rack,PC cover(for all modes)			
		Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model 1P/PT)			
Optional Function&Accessories		Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)			
		800mL wide-mouth flask(only for model 1P/PT)			
Consumption		0.95KW	1.5KW	0.95KW	1.5KW
Electricity		AC220V,50Hz(standard), other electricity type can be customized			
External Dimensions(W*D*H)(mm)		480*610*905	480*610*1355	480*610*905	480*610*1355
Shipping Dimensions (W*D*H)	Main body(mm)	730*600*1180		730*600*1180	
	Drying chamber(mm)	410*410*640		410*410*640	
	Vacuum pump(mm)	220*580*370		220*580*370	
Gross Weight(kg)		135kg	155kg	135kg	155kg

Floor Freeze Dryer

LYO60V-2S LYO60V-2P LYO60V-2T LYO60V-2PT
LYO80V-2S LYO80V-2P LYO80V-2T LYO80V-2PT



Reliability

Condenser and operation panel are made by stainless steel.



High performance compressor, cascade system,high cooling efficiency and fast cooling speed.



Drying chamber is transparent which is visual and safe.

Key Features

- 7 inches colorful touch panel can display the product sample's temperature, condenser temperature and vacuum etc in digital and curve.
- Touch panel with the design conforms to ergonomics and operate more comfortably.
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- Large-volume stainless steel condenser without coils, which can realize independent sample pre-freezing.



Parts



Standard chamber



Stopper chamber



Standard stopper with 8 port manifolds



Stainless steel drying chamber



Standard chamber with 8 manifolds



Stainless steel with 8 port manifolds



Isolation valve



Valve and freeze drying bottle

Application



The lab series freeze dryer is suitable for freeze drying test of laboratory biomedical samples. Widely used in drugs, biological products, chemical and food industries. On the heat-sensitive substances such as antibiotics,vaccines, blood products, hormones and other biological tissue enzymes, freeze-drying technology is applied.

Optional

Optional for Condenser electrical heating defrost function.

Optional for rack heating which is help to test in production.



Specifications

Model		LYO60V-2S	LYO80V-2S	LYO60V-2P	LYO80V-2P
Type		Standard chamber		Standard chamber with 8 port manifolds	
Freeze Drying Area(m²)		0.18~0.27		0.18~0.27	
Tray(Qty)		Standard configuration includes 4 layers, and up to 6 layers can be optionally selected			
Tray Dimensions(Diameter*H)(mm)		Φ240*20		Φ240*20	
Height Between Trays(mm)		81	51	81	51
Condenser Temperature (℃)		-60	-80	-60	-80
Condenser Capacity (L)		28		28	
Condenser Dimensions(Diameter*H)(mm)		Φ300*420		Φ300*420	
Vacuum Degree(no-loading) (Pa)		≤5		≤5	
Ice Condensing Capacity (kg/24h)		6		6	
Loading Capacity/ Shelf (mL)		450		450	
Total Loading Capacity of Material Tray(mL)		1800~2700		1800~2700	
Drying Chamber Dimensions(standard)		Circle:Φ300mm;Height:Φ450mm		Circle:Φ300mm;Height:Φ450mm	
Total Qty. Of Vial Φ22		360		270	
Total Qty. Of Vial Φ16		740		555	
Total Qty. Of Vial Φ12		1320		990	
Refrigerant		CFC-free		CFC-free	
Standard Accessories		Vacuum pump 4L/s,14.4m³/h,material tray,material rack,PC cover(for all modes)			
		Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model 2P/PT)			
Optional Function&Accessories		Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)			
		800mL wide-mouth flask(only for model 2P/PT)			
Consumption		1.2kW	1.7kW	1.2kW	1.7kW
Electricity		AC220V/50Hz		AC220V/50Hz	
External Dimensions(W*D*H)(mm)		560*710*940	560*710*1390	560*710*940	560*710*1390
Shipping	Main body(mm)	790*630*1180		790*630*1180	
Dimensions	Drying chamber(mm)	410*410*640		410*410*640	
(W*D*H)	Vacuum pump(mm)	220*580*370		220*580*370	
Gross Weight(kg)		150	170	150	170



Specifications

Model		LYO60V-2T	LYO80V-2T	LYO60V-2PT	LYO80V-2PT
Type		Stoppering chamber		Stoppering chamber with 8 port manifolds	
Freeze Drying Area(m²)		0.135		0.135	
Tray(Qty)		3pcs		3pcs	
Tray Dimensions(Diameter*H)(mm)		Φ 240*20		Φ 240*20	
Height Between Trays(mm)		71(average)		71(average)	
Condenser Temperature (℃)		-60	-80	-60	-80
Condenser Capacity (L)		28		28	
Condenser Dimensions(Diameter*H)(mm)		Φ 300*420		Φ 300*420	
Vacuum Degree(no-loading) (Pa)		≤5		≤5	
Ice Condensing Capacity (kg/24h)		6		6	
Loading Capacity/ Shelf (mL)		450		450	
Total Loading Capacity of Material Tray(mL)		1350		1350	
Drying Chamber Dimensions(standard)		Circle: Φ 300mm;Height: Φ 450mm		Circle: Φ 300mm;Height: Φ 450mm	
Total Qty. Of Vial Φ22		270		270	
Total Qty. Of Vial Φ16		555		555	
Total Qty. Of Vial Φ12		990		990	
Refrigerant		CFC-free		CFC-free	
Standard Accessories		Vacuum pump 4L/s,14.4m³/h,material tray,material rack,PC cover(for all modes)			
		Conical-mouth flask 500mL*8 pcs,switch valve*8 pcs(only for model 2P/PT)			
Optional Function&Accessories		Electric defrost function,nitrogen gas filling valve,oil mist filter(for all models)			
		800mL wide-mouth flask(only for model 2P/PT)			
Consumption		1.2kW	1.7kW	1.2kW	1.7kW
Electricity		AC220V/50Hz		AC220V/50Hz	
External Dimensions(W*D*H)(mm)		560*710*940	560*710*1450	560*710*940	560*710*1450
Shipping	Main body(mm)	790*630*1180		790*630*1180	
Dimensions	Drying chamber(mm)	410*410*640		410*410*640	
(W*D*H)	Vacuum pump(mm)	220*580*370		220*580*370	
Gross Weight(kg)		150	170	150	170

Pilot Freeze Dryer

LYOL-4S LYOL-7S LYOL-10S LYOL-20S LYOL-40S
LYOL-4T LYOL-7T LYOL-10T LYOL-20T LYOL-40T



LYOL-4S

Reliability

The rack is cooled and heated by Silicone oil for more uniform temperature and 1°C accuracy.

Pirani vacuum gauge is used to ensure stable freeze-drying performance.

Condenser and operation panel are made by stainless steel.

Automatic defrost function.



In-situ freeze-drying design,avoid the contamination during material transfer.



High transparent organic glass in Drying chamber helps users to observe materials changes.



High performance compressor, cascade system,high cooling efficiency and fast cooling speed.

Key Features

7 inches colorful touch panel can display the product sample's temperature, condenser temperature and vacuum etc in digital and curve.

Rack temperature can adjustable, controllable which helps to search for freeze-drying technology.

With USB interface to export the data, convenient for user information management.



Condenser and drying chamber are separately designed which is with high moisture capture and fast dry time.

Large-volume stainless steel condenser without coils, which can realize independent sample pre-freezing.



Equipped with two working modes, manual and automatic, 40 programs can be set in the automatic operation program, and each program has 40 temperature control sections to meet the requirements of different freeze-drying processes of users.

User level and password can be set, decentralized operation and management.

Can save hundreds of process recipes. each group contains 40 temperature control sections to improve process optimization rate.



Application



Widely used in drugs, biological products, chemical and food industries. On the heat-sensitive substances such as antibiotics,vaccines, blood products, hormones and other biological tissue enzymes, freeze-drying technology is applied.

Optional

Optional eutectic point test function, convenient for users to better explore the freeze-drying process

Optional Vacuum Control Capability

Optional Lyophilization End Point Determination Function



LYOL-4S LYOL-4T LYOL-7S LYOL-7T



LYOL-10S LYOL-10T LYOL-20S LYOL-20T LYOL-40S LYOL-40T

Specifications

Model	LYOL-4S	LYOL-4T	LYOL-7S	LYOL-7T	LYOL-10S	LYOL-10T	LYOL-20S	LYOL-20T	LYOL-40S	LYOL-40T
Type	Standard	Top-press	Standard	Top-press	Standard	Top-press	Standard	Top-press	Standard	Top-press
Freeze Drying Area(m²)	0.24	0.24	0.36	0.36	0.5	0.5	1	1	2	2
Shelf Temperature (℃)	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70	-50~+70
Condenser Temperature(no-loading) (℃)	≤-80	≤-80	≤-80	≤-80	≤-80	≤-80	≤-80	≤-80	≤-80	≤-80
Vacuum Degree(no-loading) (Pa)	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Condenser Capacity (L)	13	13	13	13	17	17	35	35	90	90
Ice Condenser Capacity (kg/24h)	6.5	6.5	6.5	6.5	10	10	15	15	40	40
Tray(Qty)(+1. Additional optional tray layer)	2+1	2+1	3+1	3+1	4+1	4+1	8+2	8+2	12+2	12+2
Tray Dimensions(L*W*D)(mm)	300*400*18	300*400*18	300*400*18	300*400*18	300*450*18	300*450*18	550*235*18	550*235*18	500*345*18	500*345*18
Height Between Trays(mm)	145	145	90	90	90	90	90	90	90	90
Total Loading Capacity of Material Tray(L)	4.5	4.5	7	7	10	10	20	20	40	40
Temperature Uniformity(Tray) (℃)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1
Refrigerant	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free	CFC-free
Electric Defrosting	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Stoppering Mode	/	Automatic hydraulic	/	Automatic hydraulic	/	Automatic hydraulic	/	Automatic hydraulic	/	Automatic hydraulic
Total Qty. Of Vial Φ22	468	468	702	702	1040	1040	2016	2016	4100	4100
Total Qty. Of Vial Φ16	864	864	1296	1296	1944	1944	3944	3944	7800	7800
Total Qty. Of Vial Φ12	1584	1584	2376	2376	3456	3456	7020	7020	14400	14400
Consumption(kW)	3.5	4.5	3.5	4.5	6.5	7.5	9.5	10.5	15	16
Electricity	AC380V/50Hz(standard), other electricity type can be customized				AC380V/50Hz(standard), other electricity type can be customized					
External Dimensions(W*D*H)(mm)	1339*932*1319	1339*932*1601	1339*932*1319	1339*932*1601	1337*1015*1454	1337*1015*1754	1633*1027*1612	1633*1027*1912	1260*3710*2076	1260*3710*2476
Shipping Dimensions (W*D*H)	Main body(mm)	1490*1140*1660	1490*1140*1960	1490*1140*1660	1660*1260*1710	1660*1260*2060	1960*1340*1860	1960*1340*2210	1400×1820×2260 and 1400×2200×2260	1400×1820×2260 and 1400×2200×2260
	Vacuum pump(mm)	850*330*450	850*330*450	850*330*450	850*330*450	850*330*450	1010*340*510	1010*340*510	1010*340*510	1010*340*510
Gross Weight(kg)	550	600	580	630	690	740	900	950	Around2300	Around2300

Household Small In-situ Freeze Dryer

LYO40-IS1F LYO40-IS4F LYO40-IS6F



Reliability



In-situ freeze-drying design,avoid the contamination during material transfer.

High transparent organic glass in Drying chamber helps users to observe materials changes.



Imported brand compressor, high cooling efficiency and fast cooling speed.



Vacuum pump is connected by international standard KF quick connector.

Key Features

- Colorful touch panel can display the product sample's temperature, Condenser temperature and vacuum etc in digital and curve.
- One-button start defrosting function, simple and fast.
- Compact design with a small footprint.
- With USB interface to export the data, convenient for user information management.
- Rack temperature can adjustable, controllable which helps to search for freeze-drying technology.
- Large-volume stainless steel condenser without coils, which can realize independent sample pre-freezing.



Application

The freeze dryers are developed from specific uses to households. Household small in-situ freeze dryer, which is widely used in freeze-drying of fruits, vegetables etc, is suitable for home use and small amount of freeze-dried use. And it is recommended to be used preferentially for freeze-dried vegetables and fruits.

Specifications

Model	LYO40-IS1F	LYO40-IS4F	LYO40-IS6F
Freeze Drying Area(m ²)	0.12	0.34	0.55
Tray(Qty)	3	4	4
Tray Dimensions(W*D)(mm)	140* 275	200 * 425	315 *435
Height Between Trays(mm)	45	45	50
Condenser Temperature (no-loading)(℃)	-40	-40	-40
Vacuum Degree(no-loading) (Pa)	15	15	15
Ice Condenser Capacity (kg/24h)	2	4	6
Handling Capacity(kg/batch)	1-2	4-6	6-8
Refrigerant	CFC-free	CFC-free	CFC-free
Consumption(kW)	1.1	1.55	2
Electricity	AC220V/50Hz or AC110V/60Hz		
External Dimensions(W*D*H)(mm)	550*600*780	500*640*900	640*680*1180
Package Dimension (W*D*H)(mm)	710*600*1230	840*630*1270	820*800*1540
G.W.(kg)	118	140	200