

# **Freeze dryer series**

Vacuum freeze dryer is widely used in medicine, pharmacy, biology research, chemical industry and food production ,etc. After freeze drying process, a long term preservation for material is much easier. They can be restored to original state and maintain their chemical and biological characteristics after being watered.

Types : A : chamber type ,B: stoppering type, C: manifold type , D: stoppering manifold type, E :T-type

# LGJ-10/12/18 series of freeze dryer

LGJ-10/12/18 freeze dryers, small amount of samples can pre-freeze in condenser. They are suitable for lab use or small-scale production, and they can meet requirements for most laboratories.

# LGJ-12S/18S heating in-situ freeze dryer

LGJ-12S/18S heating in-situ freeze dryer series are small vertical freeze dryer machine. These models have shelf heating and programmable function. They are suitable for lab use or small-scale production, and they can meet requirements for most laboratories.











- Imported compressor, CFC Free refrigeration.
- Big opening of condenser , condenser has pre-freeze function.
- The machine can store freeze-dried data for many times, experimental data can be output by a USB flash disk.
- Touch screen as human-computer interface, Chinese (English) convertible interface, display drying curve.
- Small volume, compact structure ,easy and convenient operation.
- The international standard KF vacuum interface, with a variety of vacuum pump combination.
- Condenser and operation panel are all stainless steel, corrosion resistant and easy to clean.
- Pre-freeze shelf can work as a lead tube, speed up the drying speed
- Optional charging valve, filling dry inert gas.
- Cascade refrigeration is optional, applied for -80°C machine.



### LGJ-12S/18S heating in-situ freeze dryer

#### Main features:

- 7 inch embedded integrated color touch-screen, the operating system is a set of advanced Cortex-A8 processor, 128 MB capacity of high performance control system.
- The machine control system can save 40 freeze-drying scheme, each scheme can be set up 40 segments of temperature parameter values. Shelf has heating function.
- Operating system has manual operation and automatic operation, two working modes, to improve the selectivity of freeze-drying process.
- Have automatic alarm and protection function, equipment failure is easy to judge.
- Have password protection function, to ensure the safe and reliable operation.
- Cascade refrigeration is optional, applied for -80°C machine.
- Optional remote monitoring and remote operation functions, convenient for user operation in different conditions.

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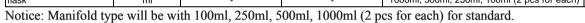




Model	LGJ-10						
Туре	Unit	Chamber	Stoppering	Manifold	Stoppering Manifold	T-type Shelf	
Drying area	m²	0.12	0.08	0.12	0.08	-	
Condenser temperature	°C						
Electricity Power	V, Hz						
Condenser capacity	kg/24 hours						
Power	W						
Weight	Kg						
Vacuum degree	Pa		≪5				
Sample tray	mm x layer	Dia. 200 x 4 (6 layers optional)	Dia.180 x3	Dia. 200 x 4 (6 layers optional)	Dia.180 x3	cold trap Φ215*140mm	
Dimension	mm		615×450×370 (T Shelf, 430×480mm, H*W)				
Bulk capacity	Liter	1.2 (thickness 10mm)	0.8 (thickness 10mm)	1.2 (thickness 10mm)	0.8 (thickness 10mm)	-	
Vial capacity Dia12mm	Pcs	920	560	920	560	-	
Vial capacity Dia16mm	Pcs	480	285	480	285	-	
Vial capacity Dia22mm	Pcs	260	165	260	165	-	
manifold	ports	-	-	8 ports		24 ports (Ampoule)	
flask	ml	-	-	1000ml, 500ml, 250ml,	-		



Heating &



Model	LGJ-12 / LGJ-12S							
Туре	Unit	Chamber	Stoppering	Manifold	Stoppering Manifold	T-type Shelf		
Drying area	m²	0.12	0.08	0.12	0.08	-		
Condenser temperature	°C	-56 (-80 °C available, optional)						
Electricity Power	V, Hz	220V/ 50 Hz, 110V/ 60Hz						
Condenser capacity	kg/24 hours	3-4						
Power	W	970						
Weight	Kg	62 (main machine ONLY, not included the drum, vacuum pump)						
Vacuum degree	Pa		≪5					
Sample tray	mm x layer	Dia. 200 x 4 (6 layers optional)	Dia.180 x3	Dia. 200 x 4 (6 layers optional)	Dia.180 x3	cold trap Φ215*140mm		
Dimension	mm		580 x 500 x 720 (T Shelf, 430×480mm, H*W)					
Bulk capacity	Liter	1.2 (thickness 10mm)	0.8 (thickness 10mm)	1.2 (thickness 10mm)	0.8 (thickness 10mm)	-		
Vial capacity Dia12mm	Pcs	920	560	920	560	-		
Vial capacity Dia16mm	Pcs	480	285	480	285	-		
Vial capacity Dia22mm	Pcs	260	165	260	165	-		
manifold	ports	-	-	8 p	24 ports (Ampoule)			
flask	ml	-	-	1000ml, 500ml, 250ml,	-			





C: Manifold

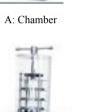


LGJ-12S/18S Manifold with 7 inch touch-screen D: Stoppering Manifold

Notice: Manifold type will be with 100ml, 250ml, 500ml, 1000ml (2 pcs for each) for standard.









Model	LGJ-18 / LGJ-18S								
Туре	Unit	Cha	mber	Stoppering	Manifold		Stoppering Manifold	T-type Shelf	
Drying area	m²	0.18	0.27	0.09	0.18	0.27	0.09	-	
Condenser temperature	°C								
Electricity Power	V, Hz	220V/ 50 Hz, 110V/ 60Hz							
Condenser capacity	kg/24 hours	6							
Power	W	1400							
Weight	Kg	105 (main machine ONLY, not included the drum, vacuum pump)							
Vacuum degree	Pa	<10						≪5	
Sample tray	mm x layer	Dia. 240 x 4	Dia. 240 x 6	Dia.200 x3	Dia. 240 x 4	Dia. 240 x 6	Dia.200 x3	cold trap Φ270*400mm	
Dimension	mm		630 x 580 x 970 (T Shelf, 430×480mm, H*W)						
Bulk capacity	Liter	1.8 (thickness 10mm)	2.7 (thickness 10mm)	0.9 (thickness 10mm)	1.8 (thickness 10mm)	2.7 (thickness 10mm)	0.9 (thickness 10mm)	-	
Vial capacity Dia.12mm	Pcs	1320	1980	990	1320	1980	990	-	
Vial capacity Dia.16mm	Pcs	740	1110	555	740	1110	555	-	
Vial capacity Dia.22mm	Pcs	360	540	270	360	540	270	-	
manifold	ports	-		-		24 ports (Ampoule)			
flask	ml	-		-	1000ml,	-			

Notice: The temperature of cold trap may reach -80-80°C according to the user's needs. T type is only for LGJ-10 / LGJ-12 / LGJ-18. Notice: Manifold type will be with 100ml, 250ml, 500ml, 1000ml (2 pcs for each) for standard.



Pre-freezing function



or Green environmental protection compound refrigerant



The refrigeration system adopts heat interchanger



Vacuum pump that against the oil returns to



Defrosting function



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