



H.BIO MEDICAL INC

1625W, MOCKING ROAD BIRD LANE,  
STE 303,DALLAS, TX 7523 USA  
TEL:214.920.9898  
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◆DFD-10/12系列新型台式冷冻干燥机/Freeze dryer

普通型(S)  
Standard



压盖型(T)  
Top-press



多歧管型(P)  
Multi-pipeline



型号 Model	DFD-10S	DFD-10T	DFD-10P	DFD-12S	DFD-12T	DFD-12P
冷阱温度 (°C) Cold trap temperature		-55			-55	
真空度 (Pa) Vacuum degree		<10			<10	
冻干面积 (m <sup>2</sup> ) Cold surface area for freeze-drying		0.07~0.1			0.08~0.12	
捕水能力 (Kg/24h) Water capture capability		3~4			4	
物料装载 (ml) Load materials	1200	750	750	1200/1500	750	750
盘装物料/盘 (ml/料厚10mm) Plate load materials/shelf	300	250	250	300	250	250
物料盘层数 (层) Layer	4	3	3	4/6	3	3
物料盘规格 (φ×h mm) Material tray specification	200×20	180×20	180×20	200×20	180×20	180×20
冻干时间 (h) Freeze drying time	24	24	24	24	24	24
多歧管数量 (个) Pipe	/	/	8	/	/	8
西林瓶 Bottle	(φ20mm)	260	165	165	260	165
	(φ18mm)	480	285	285	480	285
	(φ12mm)	920	560	560	920	560
外形尺寸(L×W×H: mm) Exterior dimension	565×420×360/430			565×460×720/450		

适合于实验室样品的冻干试验及少量生产。本系列分为：标准型(S)、压盖型(T)、多歧管普通型(P)

The machine is suitable for freeze drying test of laboratory biomedical samples and a small amount production.

This series have three types: Standard (S), Top-press (T), Multi-pipeline (P).

● 液晶显示、中文界面，显示干燥曲线；

The LCD display panel, which Chinese and English language is optional, can display drying curve, cold trap temperature, running time, Vacuum degree.

● 冷阱开口大，无内盘管，带样品预冻功能；

Large opening trap, no coil inside, with samples pre-freeze function.

● 进口压缩机制冷量大噪音小；

Cascade refrigeration technology, imported compressor which is low noise, large cooling capacity and high capability of water-capture.

● 预冷架，可作导流桶，加快干燥速度；

The pre-freeze shelf can be used as guide barrel to speed up the drying rate.

● 冷阱和操作面为全不锈钢，耐腐蚀易光洁；

Cold trap and operation panel are made by stainless steel, corrosion-resistant and easy to clean.

● 透明钟罩式干燥室，安全直观；

Transparent bell-cap drying cabinet is visual and safe.

● 不锈钢样品架，普通型样品盘间距可调；

The sample shelves are stainless steel, which can be adjustable as per the requirement.

● 可选加有氮气充气阀。

Valve with Nitrogen is optional.

以上信息仅供参考，如有变更恕不另行通知  
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◆DFD-18系列冷冻干燥机/Freeze dryer

普通型(S)  
Standard



压盖型(T)  
Top-press



多歧管型(P)  
Multi-pipeline



型号 Model	DFD-18AS/BS	DFD-18AT/BT	DFD-18AP/BP	
冷阱温度 (°C) Cold trap temperature		-55/-80		
真空度 (Pa) Vacuum degree		<10		
冻干面积 (m²) Cold surface area for freeze-drying		0.09~0.27		
捕水能力 (Kg/24h) Water capture capability		6		
物料装载 (ml) Load materials	1800/2700	900	900	
物料盘规格 (φ×h mm) Material tray specification	240×20	200×20	200×20	
物料盘层数 (层) Layer	4/6	3	3	
盘装物料/盘 (ml/料厚10mm) Plate load materials/shelf	450	300	300	
冻干时间 (h) Freeze drying time	24	24	24	
多歧管数量 (个) Pipe	/	/	8	
西林瓶 Bottle	(φ 20mm)	360	270	270
	(φ 18mm)	740	555	555
	(φ 12mm)	1320	990	990
外形尺寸(L×W×H: mm) Exterior dimension	660×560×955/450			

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Large opening trap, no coil inside, with samples pre-freeze function.

● 进口压缩机制冷量大噪音小；

Cascade refrigeration technology, imported compressor which is low noise, large cooling capacity and high capability of water- capture.

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The pre-freeze shelf can be used as guide barrel to speed up the drying rate.

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Transparent bell-cap drying cabinet is visual and safe.

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The sample shelves are stainless steel, which can be adjustable as per the requirement.

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Valve with Nitrogen is optional.

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◆DFD方仓系列冷冻干燥机/Square cabinet vacuum freeze dryer



液晶触摸屏  
LCD touch screen



压力表  
Pressure meter



透明有机玻璃门  
Colorless organic glass

型号 Model	DFD-30T	DFD-50S	DFD-50T	DFD-100S	DFD-100T	DFD-200S
搁板温度 (°C) Shelves temperature				-50		
冷阱温度 (°C) Cold trap temperature				-80		
真空度 (Pa) Vacuum degree				<10		
冻干面积 (m²) Cold surface area for freeze-drying	0.3	0.7	0.5	1	1	2
捕水能力 (Kg/24h) Water capture capability	6	10	10	15	15	25
盘装物料 (液体/L) Plate load materials (liquid)	4	10	8	15	15	25
隔板规格 (L×W×H mm) Shelf specification	295×335×15	360×500×15	360×500×15	360×480×15	600×480×15	500×900×15
物料盘层数 (层) Layer	3+1	4+1	3+1	6+1	4+1	5+1
物料盘间距 (mm) Shelves distance	70	50	70	70	100	100
物料盘温差 (°C) Temp discrepancy for shelves	±1	±1	±1	±1	±1	±1
冷却方式 Cooling type	风冷 forced air cooling	风冷 forced air cooling	风冷 forced air cooling	风冷 forced air cooling	风冷 forced air cooling	风冷 forced air cooling
电除霜 Electric defrost	有 YES	无 NO	有 YES	有 YES	有 YES	有 YES
压盖方式 Top press type	手压 manual	—	液压 hydraulic	—	液压 hydraulic	—
西林瓶 Bottle	(φ20mm)	805	1408	1056	2016	4100
	(φ18mm)	1550	2728	2046	3960	7800
	(φ12mm)	2800	4920	3690	7200	14400
外形尺寸 (L×W×H : mm) Exterior dimension	630×800 ×1400	700×800 ×1530	1220×750 ×1500	1030×750 ×1700	1000×1200 ×1700	2100×1200 ×1700

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### ◆DFD新型方仓系列冷冻干燥机/Square cabinet vacuum freeze dryer

■一种小型立式冷冻干燥设备，适合于实验室样品的冻干试验及少量生产，方仓真空冷冻干燥机是一种国际流行的结构形式  
A small vertical freeze drying equipment which is suitable for freeze drying test of laboratory biomedical samples and a small amount of production. The square cabinet vacuum freeze dryer is new construction design

#### ■主要特点(main characteristic)

1>预冻干燥在原位进行，减少干燥过程的繁琐操作，实现自动化

Pre-freeze drying processing is in situ, put the material into the drying cabinet, it is automatic for the process of freezing and drying.



2>自复叠制冷技术，进口品牌压缩机保障了设备运行低噪音、大制冷量和大捕水能力，减少冷冻干燥时间

The machine is cascade refrigeration technology, imported compressor which is low noise, large cooling capacity and high capability of water-capture to reduce the time of freeze drying.

3>搁板以硅油为媒介，温度误差≤1℃，干燥效果均匀

Silicon oil is intermediate medium in the shelves for heating to ensure drying material uniformity, temperature discrepancy is ≤1℃.

4>搁板温度可调、可控、可摸索中试和生产工艺

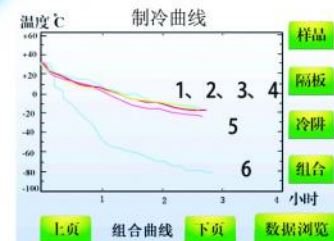
The shelf temperature can be adjustable and control which is easy for exploring of semi-work and production process.

5>方形搁板不易变形，易于操作，便于清洗。

The square shelf is difficult for distortion, and easy for operation and cleaning.

6>液晶触摸屏显示，PID智能调节，以曲线和数据的方式显示干燥过程，并提供给用户干燥过程的更多信息

LCD display is designed as touch screen, it adopt PID intelligent control system, can display all important curves and data, human-computer interface can provide the user more information for relevant freeze drying process.



7>冷阱和工作面为不锈钢，防腐蚀易清洁

Cold trap and operation panel are made by stainless steel, corrosion-resistant and easy to clean.

8>配置充气阀，可充干燥惰性气体

The inflation valve is optional, which can be filled with inert gas

9>干燥室采用高透光无色透明有机玻璃门在操作过程中能清晰观察物料的变化过程

The cabinet door is with high transparent colorless organic glass, the material change process can be easily observed during the operation through the transparent door.

曲线 (Curve) :

1-4 : 每层被处理物品的温度

1-4 : Material sample temperature every layer

5 : 搁板温度

5 : Shelves temperature

6 : 冷阱温度

6 : Cold trap temperature

★可选配共晶点测试装置

Eutectic point testing device and automatically matching press device is optional.

★可选配温度记录仪

The recorder is optional.

★可配有上位机通讯接口

The computer communication interface is optional

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