



**DG-65Z04-10AR**



The Refrigeration Efficiency  
is Greatly Improved



Automatic Parameter  
Storage



Multiple Alarm  
Functions

# Freeze Dryer

## Scope of Application

Applicable to biological research, medical laboratories for drying of biotechnological and pharmaceutical products, e.g. tissues and tissue extracts, bacteria, vaccines, and sera. The product is also suitable to food research, chemical industry and other related scenarios for efficient lyophilization of samples.

## Innovative Design

- ◎ IoT Real-time Management
- ◎ Real Time Monitoring of Freeze-drying Status

**Qingdao Haier Biomedical Co.,Ltd.**

No.280 Feng Yuan Road, High-tech Zone,  
Qingdao, 266109, P.R. China  
E-mail: [inquiry@haierbiomedical.com](mailto:inquiry@haierbiomedical.com)  
Website: [www.haiermedical.com](http://www.haiermedical.com)



Haier Biomedical  
International



Haier Biomedical  
International



@haiermedicalint



Haier Biomedical  
International



Haier Biomedical  
International

**Product Advantages**



**Automatic Parameter Storage**

Intelligent storage of the freeze-drying parameters, without setting them separately each time



**The Refrigeration Efficiency is Greatly Improved**

The evaporator is located in the freezing chamber, which directly cools the sample and improves the refrigeration efficiency, it can reach -60°C within 25 minutes



**IoT Real-time Management**

Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status



**Multiple Alarm Functions**

Multiple alarms, including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser dirty blockage, vacuum alarm, heating lamp life less than 10% alarm



**Real Time Monitoring of Freeze-drying Status**

Check the sample freeze-drying curve at any time, and it can be adjusted immediately and in time if there are any risks

**Multiple Configurations**



**Standard**

Able to pre-freeze, suitable for both plate and bottle samples



**Multi Manifold**

Able to pre-freeze, suitable for both plate and bottle samples, it's convenient for adding or taking samples during the freeze-drying process



**Pressure Plug**

Able to pre-freeze, suitable for bottled samples. After freeze-drying, it can be vacuum plugged manually



**Gland Multi Manifold**

Able to pre-freeze and vacuum plug, it's convenient for adding or taking samples during the freeze-drying process

**Friendly Design**

The glass design cover ensures the working situation in the drying chamber is visible at a glance

10-inch touch screen, users can view operating status, and historical temperature data and alarm events

Large caliber cold trap to meet a variety of sample pre-freezing requirements

The filter can be easily replaced

Vacuum pump port, convenient for oil change



**Rotary Vane Vacuum Pump DRV10**

**Oil Filter**

**Specifications**

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m <sup>3</sup> /h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	5*10 <sup>-1</sup>
	Gas Ballast On (Pa)	5
Motor Power (kw)		0.4
Required Oil (L)		1.1
Air Inlet		KF25
Air Outlet		KF25
Sound Level (db)		65
Weight (kg)		25

**Specifications**



Model	DG-65Z04-10AR
Ice Condenser Temperature (°C)	-65/-85 (optional)
Condensation Efficiency (kg/h)	4/24
Sound Level (dB(A))	≤60
Weight (kg)	80 (equipment) + 25 (pump)
Ultimate vacuum (Pa/mbar)	5/5*10 <sup>-2</sup>
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Freeze Cabinet Capacity (L)	13
Area (m <sup>2</sup> )	0.1
Shelves	3 layers (extensive)
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*730 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*920 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
IoT	Yes
Flask	Optional
Penicillin Bottle	Optional
Certification	CE

\*Haier Biomedical reserves the right to change products and specifications without prior notice.