

Freeze Dryer



DG-65Z04-10A

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, also suitable to food research, chemical industry and other related scenarios for efficient lyophilization of samples.

Innovative Design

- Rapid sublimation speed and high drying efficiency
- IoT real-time management
- Automatic parameter storage

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Product Advantages



Automatic parameter storage

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



The integrated design and totally enclosed environment make the sample pollution-free

The whole working cabin is closed, the freeze-drying process is isolated from the outside environment



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



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

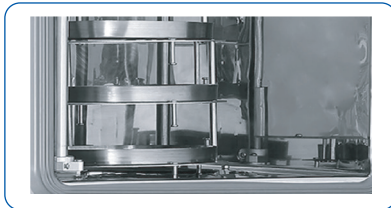
Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status



High sublimation speed and high drying efficiency

Excellent temperature uniformity, free from external influences, more energy-saving and environment-friendly

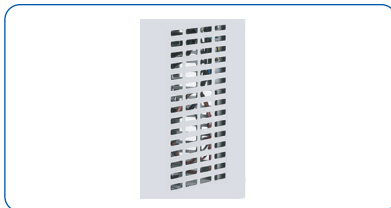
Ergonomic Design



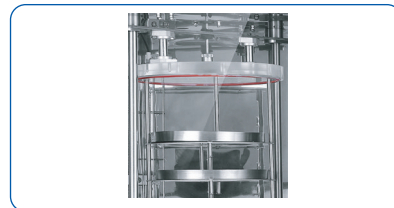
Automatic lifting shelves without manual operation



External vacuum pump, convenient for oil change

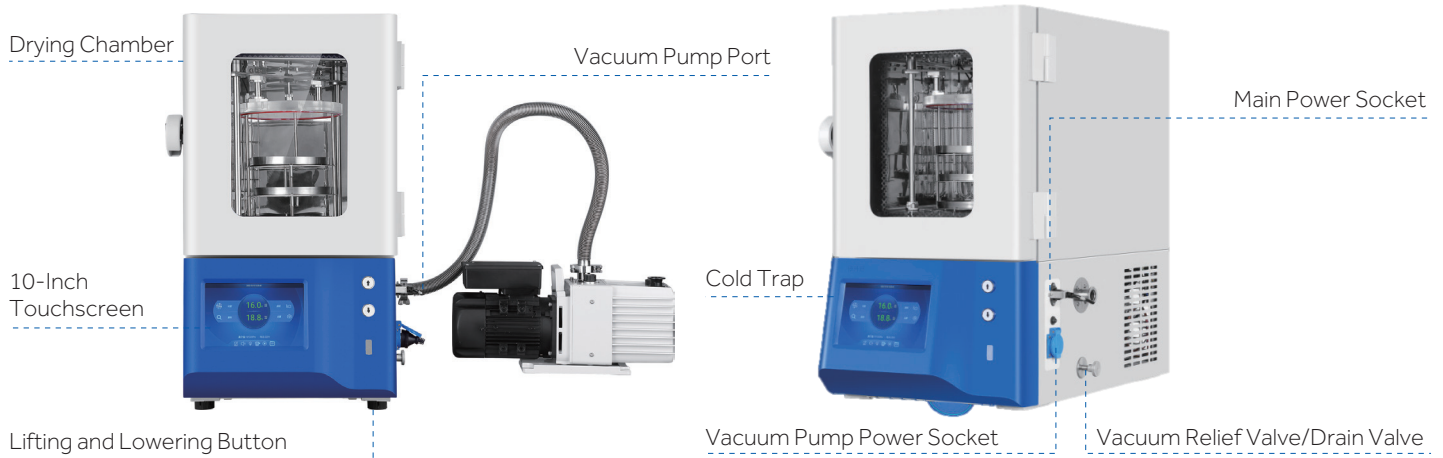


The filter can be easily replaced



The design of glass door ensures the working situation in the drying chamber visible at the glance

Product Parts



Vacuum Pump

- The two-level gas ballast design offers greater convenience in meeting the steam discharge requirements of diverse processes.
- The automatic anti-backflow oil design provides more reliable protection for the vacuum system, preventing it from being contaminated by oil after shutdown.
- The built-in gear wheel pump and constant pressure oil supply mechanism ensure forced oil supply, allowing stable and reliable operation even under high suction pressure.



Rotary Vane Vacuum Pump DRV10

Oil Filter

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m ³ /h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	5×10^{-1}
	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

Specificaion



Model	DG-65Z04-10A
Ice Condenser Temperature (°C)	-65
Condensation Efficiency (kg/h)	4/24
Sound Level (dB(A))	≤60
Weight (kg)	145(equipment)+25(pump)
Ultimate vacuum (Pa/mbar)	$5/5 \times 10^{-2}$
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Dry Chamber Interior Dimesion (W*D*H)(mm)	404*374*398
Dry Chamber Capacity (L)	60
Freeze Cabinet Capacity (L)	13
Area (m ²)	0.1
Shelves	3 layers
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*883 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*1400 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
Penicillin Bottle	Optional
Vacuum Pump Oil	Optional
Oil Mist Filter	Optional
Certification	CE

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