

FlexiFreeze Pro Freeze Dryer

HDG-86Z05-40T

It features a compact footprint, accommodates moderate sample loads for lyophilization, and is widely used in research and industrial settings, including pharmaceuticals, food science, environmental monitoring, and materials development.

- Compact Design with Large Capacity
- Efficient Freeze-Drying Performance
- Durable 304 Stainless Steel Construction
- Multiple Alarms



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Product Features



Compact Design with Large Capacity

- 4-shelf configuration provides a total lyophilization area of 0.4 m² for larger batch processing
- Space-saving integrated structure, ideal for labs with limited floor space



Efficient Freeze-Drying Performance

- Hydrocarbon cooling system for superior refrigeration efficiency
- Standard vacuum control and radiant heating accelerate lyophilization, reducing process time by 30%
- Independent cold trap chamber with wide bore and internal coil enables direct cooling and faster ice condensation
- Standard automatic defrost function ensures efficient ice removal, reducing downtime between batches (3 kg of ice can be defrosted in just 10 minutes)



Durable 304 Stainless Steel Construction

- Resists corrosion and enables easy sanitization, making it suitable for organic solvents and maintaining long-term operational integrity



Multiple Alarms

- Including alarms for cold trap cooling timeout, vacuum pump oil replacement reminder, vacuum sensor failure, abnormal refrigeration, vacuum level issue, heating lamp life < 10%, and sample/cold trap temperature sensor failure

*Please note that it is recommended to perform the pre-freezing of samples in an additional ULT freezer.

Friendly Design



The working condition of the drying chamber is clear at a glance



Standard with 8 manifolds, optional flask, which enables simultaneous drying of multiple channels



Extra-large 10.1 - inch display screen for clear operation



Vacuum pump port, external vacuum pump for convenient oil change

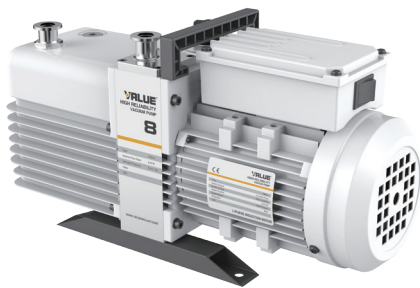


Easily replace the filter screen

Specifications

Model	HDG-86Z05-40T
BE No.	BE14T7000
Condensation Temperature (°C)	-86
Condensation Efficiency	4kg/24h
Sound Level (dB(A))	≤60
Weight (kg)	128 (Equipment)+25 (Pump)
Ultimate Vacuum (Pa/mbar)	5/5x10 ⁻²
Maximum Condensation (kg)	5
Power (W)	1060
Power Supply (V/Hz)	220-240/50
Dry Chamber Interior Dimension (W*D*H)(mm)	374*404*398
Dry Chamber Capacity (L)	60
Freeze Cabinet Capacity (L)	13
Area (m ²)	0.4
Trays	4
Tray Dimension (W*D*H)(mm)	363*313*25
Maximum Spacing Between Tray (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*890 (excluding the manifolds)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch Touch Screen
Notepad	Yes
Account Management	Yes
USB	Yes
Automatic Defrost Function	Yes
Certification	CE

Vacuum Pumps



Model	WYB-Vacuum pump-VRD-8-FY
BE No.	BE1KY2D00
Suction capacity (m ³ /h)	8
Ultimate Pressure - Gas Ballast Off (Pa)	≤5×10 ⁻¹
Ultimate Pressure - Gas Ballast On (Pa)	≤10
Power supply (V/Hz)	220/50
Power (W)	400
Inlet Connection DN (mm)	KF25
Outlet Connection DN (mm)	KF25
Oil Capacity (L)	0.6-1
Sound level (dB)	≤52
Weight (kg)	21

Accessories



Model	Oil mist filter - FEIYUE
BE No.	BE1KYFZ00
Inlet Connection DN(mm)	KF25
Outlet Connection DN(mm)	KF25
Compatibility	WYB-Vacuum pump-VRD-4-FY WYB-Vacuum pump-VRD-8-FY WYB-Vacuum pump-DRV10-BS



Model	Oil mist filter - BAOSI
BE No.	BE1KY7Z00
Inlet Connection DN(mm)	KF25
Outlet Connection DN(mm)	KF25
Compatibility	WYB-Vacuum pump-VRD-4-FY WYB-Vacuum pump-VRD-8-FY WYB-Vacuum pump-DRV10-BS



Model	250 ml Round-bottom flasks (sets of 8)
BE No.	BE1KY6D00
Ground Glass Joint	29/42



Model	500 ml Round-bottom flasks (sets of 8)
BE No.	BE1KY5D00
Ground Glass Joint	29/42