

Laboratory Freeze Dryer

Scope of Application:

The laboratory freeze-dryer is designed for laboratory research and sample preparation, and there are five types of design that can meet different needs.



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Freeze Dryers

Bench-Top



Floor-Standing



Product Features



Offering different choices of ice condenser capacity: 3, 4, 6 kg per 24 hours



Optimal process control for quick and reliable freeze-drying



Rapid cooling to temperatures as low as -90°C



Real time display of sample temperature, vacuum curve, and cold trap temperature curve

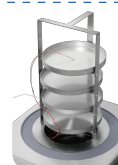


Environmentally-friendly HC refrigeration system

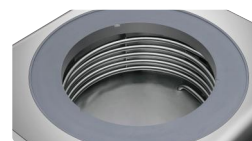
Ergonomic Design



7" touchscreen display for intuitive operation



Clear acrylic chamber for easy viewing



Easy to clean anti-corrosion cold trap and shelves

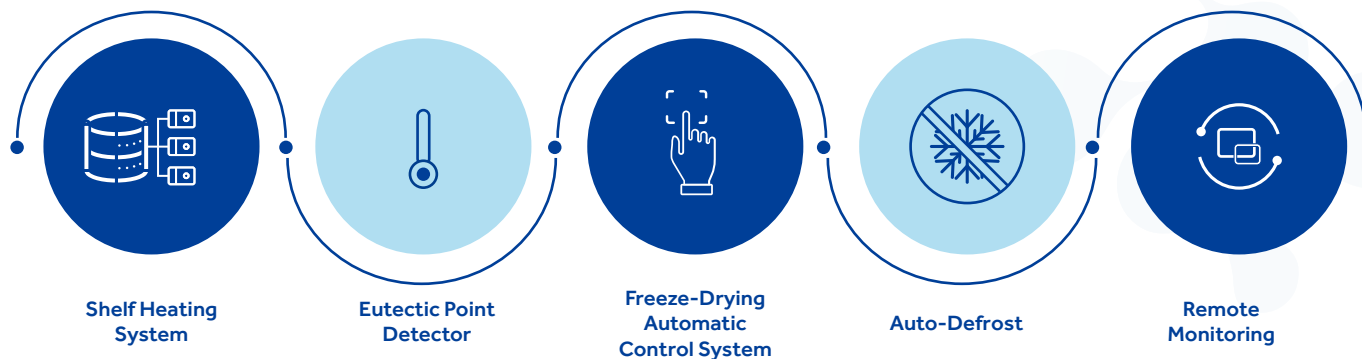


Vacuum relief valve/Drain valve

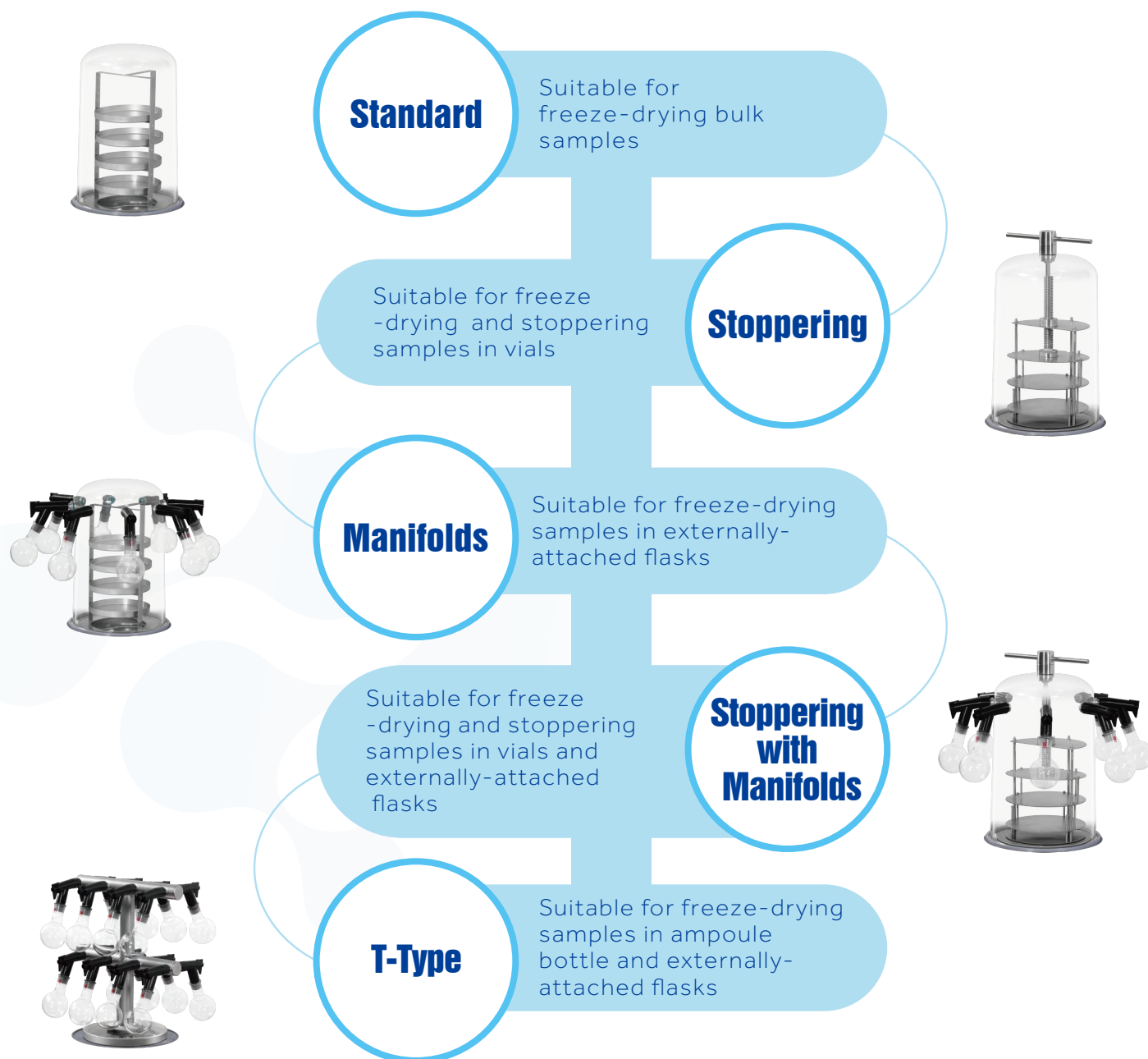


USB port to download operational data

Freeze-Drying Function Options



Freeze-Drying Chamber Selection Guide



Specifications



Model	HDG-86Z03-12T
BE No.	BE1KX0000
Type	Bench-Top
Ice Condenser Temperature (°C)	-86
Ice Condenser Capacity (kg)	3
Condensation Efficiency (kg/24h)	3
Maximum Vacuum (Pa)	≤5
Freeze Chamber Dimension (mm)	φ300*150
Power Supply (V/Hz)	220~240/50
Power (W)	950
Exterior Dimension (W*D*H) (mm)	406*550*430
Weight (kg)	44

Freeze-Drying Chamber Options



Model	HDG-Standard-A12	HDG-Stoppering-B	HDG-Manifolds-C12	HDG-Stoppering with Manifolds-D	HDG-T-Type-E
BE No.	BE1KY3D00	BE1KX5Z00	BE1KY4D00	BE1KX3Z00	BE1KX2Z00
Type	Standard	Stoppering	Manifolds	Stoppering with Manifolds	T-Type
Area (m²)	0.12	0.09	0.12	0.09	/
Shelf Diameter (mm)	φ 200	φ 200	φ 200	φ 200	/
Number of Shelves	4	3	4	3	/
Distance Between Shelves (mm)	70	70	70	70	/

Specifications



Model	HDG-86Z04-12
BE No.	BE1KY1000
Type	Floor-Standing
Ice Condenser Temperature (°C)	-86
Ice Condenser Capacity (kg)	4
Condensation Efficiency (kg/24h)	4
Maximum Vacuum (Pa)	≤5
Freeze Chamber Dimension (mm)	φ300*210
Power Supply (V/Hz)	220~240/50
Power (W)	980
Exterior Dimension (W*D*H) (mm)	406*550*720
Weight (kg)	50

Freeze-Drying Chamber Options



Model	HDG-Standard-A12	HDG-Stoppering-B	HDG-Manifolds-C12	HDG-Stoppering with Manifolds-D	HDG-T-Type-E
BE No.	BE1KY3D00	BE1KX5Z00	BE1KY4D00	BE1KX3Z00	BE1KX2Z00
Type	Standard	Stoppering	Manifolds	Stoppering with Manifolds	T-Type
Area (m²)	0.12	0.09	0.12	0.09	/
Shelf Diameter (mm)	φ 200	φ 200	φ 200	φ 200	/
Number of Shelves	4	3	4	3	/
Distance Between Shelves (mm)	70	70	70	70	/

Specifications



Model	HDG-86Z06-18
BE No.	BE1KZ0000
Type	Floor-Standing
Ice Condenser Temperature (°C)	-86
Ice Condenser Capacity (kg)	6
Condensation Efficiency (kg/24h)	6
Maximum Vacuum (Pa)	≤5
Freeze Chamber Dimension (mm)	φ340*250
Power Supply (V/Hz)	220~240/50
Power (W)	1000
Exterior Dimension (W*D*H) (mm)	645*600*720
Weight (kg)	60

Freeze-Drying Chamber Options

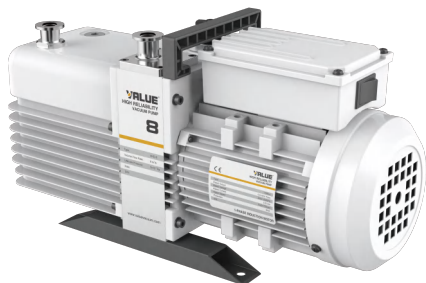


Model	HDG-Standard-A	HDG-Stoppering-B	HDG-Manifolds-C	HDG-Stoppering with Manifolds-D	HDG-T-Type-E
BE No.	BE1KX6Z00	BE1KX5Z00	BE1KX4Z00	BE1KX3Z00	BE1KX2Z00
Type	Standard	Stoppering	Manifolds	Stoppering with Manifolds	T-Type
Area (m²)	0.18	0.09	0.18	0.09	/
Shelf Diameter (mm)	φ 240	φ 200	φ 240	φ 200	/
Number of Shelves	4	3	4	3	/
Distance Between Shelves (mm)	70	70	70	70	/

Vacuum Pumps



Model	WYB-Vacuum pump-VRD-4-FY
BE No.	BE1J10M00
Suction capacity (m³/h)	4
Ultimate Pressure - Gas Ballast Off (Pa)	$\leq 5 \times 10^{-1}$
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)	19
Compatibility	HDG-86Z03-12T HDG-86Z04-12



Model	WYB-Vacuum pump-VRD-8-FY
BE No.	BE1KY2D00
Suction capacity (m³/h)	8
Ultimate Pressure - Gas Ballast Off (Pa)	$\leq 5 \times 10^{-1}$
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
Compatibility	HDG-86Z03-12T HDG-86Z04-12 HDG-86Z06-18



Model	WYB-Vacuum pump-DRV10-BS
BE No.	BE1A92M00
Suction capacity (m³/h)	9.9
Ultimate Pressure - Gas Ballast Off (Pa)	$\leq 5 \times 10^{-1}$
Ultimate Pressure - Gas Ballast On (Pa)	≤ 10
Power supply (V/Hz)	220/50
Power (W)	400
Inlet Connection DN(mm)	KF25/KF16 (optional)
Outlet Connection DN(mm)	KF25
Oil Capacity (L)	1.1
Sound level (dB)	≤ 65
Weight (kg)	25
Compatibility	HDG-86Z03-12T HDG-86Z04-12 HDG-86Z06-18

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
Compatibility	- Manifolds type(fully loaded with 8 flasks) - Stoppering with manifolds type(fully loaded with 8 flasks) - T-Type(fully loaded with 16 flasks)



Model	500 ml Round-bottom flasks (sets of 8)
BE No.	BE1KY5D00
Ground Glass Joint	29/42
Compatibility	- Manifolds type(fully loaded with 8 flasks) - Stoppering with manifolds type(fully loaded with 8 flasks) - T-Type(fully loaded with 16 flasks)