



AE-Lab Series

Diy Freeze Dryer Laboratory Freeze Dryers

Key Features

1. Adopt the PLC and HMI
2. Automatic Programmable Control System
3. Heating Drying System
4. Pre-freeze System
5. Defrosting System
6. Vacuum Backfilling System
7. Adjust Vacuum System
8. Automatic drainage system
9. Safety Stoppering System
10. Automatic Purge System
11. Compressor Delayed Protection
12. 1.5 km far remote control system



Choose guide of diy freeze dryer:

- AE-LAB series have five types: Common type, stopper type, Adapter type, stopper & Adapter type, T drying chamber type.
- Common Type: Suit loading bulky material.
- Stopper Type: Suit loading penicillin bottle .
- Adapter type: Suit loading hang bottle .
- Stopper & Adapter type: Suit to loading bulky material, bottled material and hang bottle.
- T drying chamber type: Suitable for loading ampoule bottle.

Suit freeze sample :

Water-soluble aqua, muddy liquid or paste-like in shape material, the crystal temperature is higher than -20°C.

Optional(diy freeze dryer):

1. Crystal Temperature Test Instrument, Vacuum Backfilling System;
2. Automatic drainage system, Six/Eight Layers Drying Chamber;
3. Build-In Chamber, Ampoule Bottle Sealing Device;
4. International Brand Vacuum Pump, Vacuum Pump Defend Return Oil Device;
5. Backfill Filter, Serum Bottle;
6. Sample Temperature Monitor, Adjust Vacuum System;
7. Automatic Purge System, Six/Eight Layers Drying Chambe&Valves;
8. Manifold Chamber, Capping Device;
9. Oil Mist Filter, Vacuum Oil;
10. Flask, 1.5 km far remote control system.

⊙ AE-Lab series freeze dryers technique parameter (Economical):

Mode	AE-Lab1A-50E AE-Lab1A-80E	AE-Lab1B-50E AE-Lab1B-80E	AE-Lab1C-50E AE-Lab1C-80E	AE-Lab1D-50E AE-Lab1D-80E	AE-Lab1E-50E AE-Lab1E-80E
Shelf Area	0.12	0.08	0.12	0.08	0.12
Cold Trap (Unload)	-55/-85°C				
Vacuum (Unload)	<8Pa				
Condensor Capacity	3L/4L				
Compressor	7/8HP 2*2/3HP				
Vacuum Pump	2L/S				
Dimension	W470*D600*H400 W640*D640*H1000				

⊙ AE-Lab series freeze dryers technique parameter:

Mode	AE-Lab1A-50 AE-Lab1A-80	AE-Lab1B-50 AE-Lab1B-80	AE-Lab1C-50 AE-Lab1C-80	AE-Lab1D-50 AE-Lab1D-80	AE-Lab1E-50 AE-Lab1E-80
Shelf Area	0.12	0.08	0.12	0.08	-
Cold Trap (Unload)	-55/-85	-55/-85	-55/-85	-55/-85	-55/-85
Vacuum (Unload)	<8Pa				
Condensor Capacity	3L/4L				
Compressor	7/8HP 2*2/3HP				
Vacuum Pump	2L/S				
Dimension	W470*D600*H400/W640*D640*H1000				



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Accessories:

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1. Drying Chamber:: FDC 20*06 FDC20*08 Explanation : FDC:Freeze Drying Chamber, 20:Tray diameter 20mm, 6:Number of shelf
2. Drying Chamber&Valves FDC20*06*12 FDC20*08*12 Explanation : FDC:Freeze Drying Chamber, 20:Tray diameter 20mm, 6:Number of shelf,12:Number of flasks.
3. Stopping Chamber&Valves FDC18*03*12-S FDC20*08*12 Explanation : FDC:Freeze Drying Chamber, 18:Tray diameter 20mm, 3:Number of shelf,12:Number of flasks, S : Stopping.
4. Build-in Chamber FDC*2 FDC*3 FDC*4Explanation : FDC:Freeze Drying Chamber, 2 :Number of shelf,
- 5.Manifold Chamber T16 T24 T52 T104 6. Crystal Temperature Test Instrument
7. Oil Mist Filter 8. Ampoule Bottle Sealing Device 9. Ampoule Bottle Sealing Machine
10. Capping Device 11. Backfill Filter 12. Temperature Monitor

1. Drying Chamber:FDC 20*06 FDC20*08
Explanation:FDC:Freeze Drying Chamber,
20:Tray diameter 20mm, 6:Number of shelf;

2. Drying Chamber&Valves FDC20*06*12
FDC20*08*12 Explanation:FDC:Freeze
Drying Chamber, 20:Tray diameter 20mm,
6:Number of shelf,12:Number of flasks.

3. Stopping Chamber&Valves FDC18*03*12-S
FDC20*08*12 Explanation:FDC:Freeze
Drying Chamber, 18:Tray diameter 20mm,
3:Number of shelf,12:Number of flasks, S: Stopping.

4. Build-in Chamber FDC*2 FDC*3 FDC*4Explanation:
FDC:Freeze Drying Chamber, 2 :Number of shelf,

5.Manifold Chamber T16 T24 T52 T104



6. Crystal Temperature Test Instrument
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