

Specification

Specifications freez dryer/lyophilizer

1. Power greater than 600W, voltage 220/50Hz.
2. Function for pre-freezing of samples mandatory.
3. Cryo vial load capacity greater than 900 vials/batch
4. Each shelves area greater than 0.1m²
5. Minimum no of shelves 6/RACK
6. Cold trap temperature smaller than -55⁰C
7. LCD touches displaying drying curve with microprocessor control.
8. Maximum refrigerating capacity bearing slight noise of compressor along with Chlorofluorocarbons (CFC) free refrigerant.
9. Easy to clean, corrosion free 304 stainless racks and shelves
10. Drying chamber should be transparent, safe and easy to examine with adjustable helve's height of the.
11. Condenser temperature should be less than -55⁰C.
12. Should be ISO 9001 certified.
13. Ultimate Vacuum < 10Pa
14. Capacity should be 4-6kg for 24hr
15. Vacuum pump power < 2KW.
16. Nitrogen inflammation valve should be present.
17. Vacuum pump contain oil mist filter for uninterested work
18. Vacuum pump attach with solenoid valve for anti-back oil
19. Acrylic leak proof rack cover for maintaining ultimate vacuum.
20. Microprocessor control & LCD touch display which can display drying curve, vacuum, and condenser temp., run time, ambient temperature.
21. Sample can be Pre-freezing in condenser chamber.
22. Dry chamber size-260×465mm
23. Total shelf area 0.12 m²
24. Shelf size(mm) 200x4pcs
25. Shelf space height (mm) 70
26. Shelf number 4 pcs
27. Trays number 4 pcs
28. Vials load capacity
 - 12mm 920 Pcs
 - 16mm 480 Pcs
 - 22mm 260 Pcs
 - 30mm 180 Pcs
 - 40mm 90pcs
 - 50mm 45pcs
29. Sample load capacity 1.2L
30. Flask 8 pcs Dry rack Included Cold trap rack Included Condenser Temp. < -55⁰C (-80⁰C or even lower is optional)

31. Cold trap size. 215 x140 mm (Depth x Height), 5 liters
32. Ice remove capacity 3~4kg/24hours Cold type Air-cooled Defrost type Natural (Electric is optional) Ultimate Vacuum
33. Stainless steel condenser with opening, stainless steel operation tops, seamless welding with round corner which is anti-corrosion and easy to clean
34. Stainless steel shelf & rack, 4 or 6 pcs shelves optional, shelf removable and spacing height adjustable
35. Stainless steel pre-cooling rack with metal cover
36. Integrally molded glass dried barrel adopted special plastic will not break
37. Used SECOP (DANFOSS) quality compressor, high performance condenser fan, LCD touch display, history data can be

Vacuum pump

1. Pumping Speed: L/S-2 4
2. Ult. Vacuum Pa Without gas ballast $\leq 6 \times 10^{-2}$
3. with gas ballast $\leq 6.5 \leq 1.33$
4. Speed: r/min (50HZ) -1400
5. Power Required: Kw -0.37
6. Diameter of inlet port: mm-40
7. Temp. Rise of pump oil: °C - $\neq 65$
8. Oil capacity: L-1.2