

FDG SERIES VACUUM FREEZING AND DRYING EQUIPMENT

Main Features of FDG Series Vacuum Freezing and Drying Equipment

The vacuum system adopts the combination of water-sealed pump + oil-sealed pump. At the initial stage, the air is rapidly exhausted by the high power oil seal pump unit. The working vacuum is maintained by the low power roots water-sealed pump unit, which can reduce also eliminate the vapor to prevent the pump oil from being emulsified and deteriorated by the vapor due to bad draining performance of the oil seal pump and prevent the shortcoming of unstable vacuum degree in the system.

The closed water circulation systems adopted for heating. The three-way regulating valve is adopted to automatically adjust the heat supply of the water circulation system and precisely control the temperature of the heating plate. The nitrogen is used for automatic pressure stabilization so as to guarantee the working temperature of hot water is up to 120°C

The rear mounted and bottom mounted water catching cold traps are adopted. Compared with the split externally mounted cold trap, they are featured by short passageway, small resistance, smooth design of water and steam passageway, equal water catching and improved water catching efficiency. The water catching cold traps adopt the unique way of ammonia single-phase cycle refrigeration, which has good stability of liquid supply methods. The small and medium-sized equipment can adopt Freon for refrigeration and the flow can be adjusted by the expansion valve.

Main technical parameters FDG series vacuum freezing and drying equipment

Model	FDG-0.5	FDG-10	FDG-20	FDG-50	FDG-100	FDG-180	FDG-200	FDG-280
Parameters								
Drying area (m ²)	0.5	10	20	50	100	175	200	275
Are rage output (Kg/h)	0.6	12	20	50	100	175	200	275
Size of material tray (mm)	310×540×30	745×636×30	700×460×30	540×636×30				
Number of material tray (pcs)	3	21	60	144	288	504	576	792
Size of pot (m)	Φ0.5×1.7	Φ1.4×2.1	Φ1.8×2.6	Φ2.4×4.8	Φ2.4×8.9	Φ2.4×14.8	Φ2.4×16.6	Φ2.4×21.9
Operation vacuum (pa)	133~200							
Heating plate T (°C)	~+120? Normal temperature~+120?							
Electric heating (Kw)	2	21	40					
Steam consumption (Kg/h 0.7Mpa)				140	270	470	540	750
Cold load consumption (Kw)	1.5	21.6	36	90	180	310	360	490
Power required (Kw)	6.5	55.8	104.5	412	69.7	102.5	117.5	125.5
				Refrigerating machine excluded	Refrigerating machine excluded	Refrigerating machine excluded	Refrigerating machine excluded	Refrigerating machine excluded

Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!