

# F SERIES FREEZE DRYER

## FEATURES

- Pre-freeze drying process at in situ situation, reduce the complicate operation from drying process, become automatically;
- Shelf temperature differences  $\pm 1^{\circ}\text{C}$ , dry effect uniform;
- Intermediate medium circulation technique, shelf can refrigeration, heating, temperature adjustable, controllable, pilot scale test and production process;
- Due to drying chamber and cold trap for fission structure, special gas circuit designed, capture water ability is strong and drying time to be short;
- Embedded touch screen, PLC controlled and PID temperature controlled display lyophilized curve and history curve;
- Control system can be stored 40 freeze-dry process programs, each program can have 40 temperature settings, and can choose the manual operation and automatic operation, the Top-Press type is equipped with an automatic defrost function;
- Optional eutectic point test device;
- U disk data available;
- Equipped with PC software can print curve, browsing curve, modify data;
- Square tray is shape not easily to deformed, easy to operate and clean;



## TECHNICAL PARAMETERS

Mod		Scientz-20F		Scientz-30F		Scientz-50F		Scientz-100F	
Type		Ordinary	Top press	Ordinary	Top press	Ordinary	Top press	ordinary	Top press
Dryer area (m <sup>2</sup> )		0.21		0.32		0.54		1.08	
Ability to capture water (Kg/batch)		4		6		10		15	
Schering bottle quantity	Φ12mm	1300		1950		3690		7020	
	Φ16mm	814		1160		1940		4190	
	Φ22mm	430		615		1020		2210	
Plate load capacity (L)		3	1.5	4.5	6	15			
Plate size	L/mm	400		450		600			
	W/mm	270		300		400			
Plate distance (mm)		70							
Plate quantity (pc)		2+1		3+1		4+1			
Plate temperature range (°C)		-55~+60(no load)							
Cold trap the Lowest temperature (°C)		≤-70(no load)							
Ultimate vacuum(Pa)		≤5(no load)							
Power KW (220V50Hz)		3.0	3.0	3.8	4.0	5.0	5.6	6.8	7.4
Ambient temperature (°C)		≤25							
Overall dimension (mm)		750(L)* 640(W)* 1200(H)	750(L)* 640(W)* 1200(H)	1100(L)* 680(W)* 1240(H)	1100(L)* 760(W)* 1300(H)	1150(L)* 800(W)* 1410(H)	1280(L)* 850(W)* 1550(H)	1300(L)* 1000(W)* 1450(H)	1500(L)* 1200(W)* 1600(H)
Weight(Kg)		236	286	335	360	424	480	610	780
Special note		The device size and weight not included in the external vacuum pump,Top press model height not included in manual gland handle (The handle height 200-350mm) top press model have defrost function							