

The characteristics of freeze dryer

N series freeze-drying machine is compact, with large-scale freeze dryer flexibility, less space, can handle more flexible samples, cost-effective. Suitable for small laboratory, and can choose a variety of configurations:


Common type: suitable for bulk materials, liquid and solid dry

Gland type: suitable for Schering bottled material drying, can achieve sample vacuum pressure package. Contains general type of use function.


Ordinary multi-manifold type: suitable for a variety of different materials, small freeze-dried, and can be linked to freeze-dried bottles, eggplant bottles, jars.

Grip multi-manifold type: Contains the function of ordinary multi-manifold type, can achieve the sample vacuum pressure package, to meet the vast majority of the laboratory technical requirements.


T-frame: for fungal ampoule tube package.




Historical curve




Control interface




U disk extraction data interface







SCIENTZ-10N




A: Ordinary model
Suitable for bulk materials, liquids and solids drying




SCIENTZ-12N



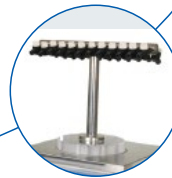
B: Top press model
Suitable for the drying of Schering bottled material, the vacuum bag can be sealed and sealed by the sample, including the common type of using function




C: Multi-pipeline model
Suitable for bulk materials or small materials of freeze-dried, while the external freeze-dried bottles, eggplant-shaped bottles, jars



D: Top press multi-manifold model
Contains the use of ordinary multi-manifold features, enabling the vacuum bagging of the sample envelope, to meet most of the laboratory technical requirements



E: T model
For vacuum ampoule package



SCIENTZ-18N

The Characteristics Of Freeze Dryer

- Features
- The machine uses international brands Danfoss compressor refrigeration, refrigeration quickly, cold trap temperature is low.
 - 7-inch true color touch LCD screen control system, easy to operate, and powerful.
 - Industrial embedded operating system, ARM9 core control circuit design, 32M memory 128M FLASH, the operation response speed, large amount of stored data.
 - The control system automatically saves the freeze-dried data, and can be real-time curve and historical curve in the form of view, the entire freeze-drying process clear.
 - Drying room with a colorless transparent injection molding polycarbonate drying trap, corrosion-resistant, non-friable, non-adhesive, high transparency, strong sealing, the sample is clear and intuitive, can observe the freeze-drying of the whole product.
 - Vacuum pump and host connection using international standard KF quick connector, simple and reliable.
 - The machine can store multiple freeze-drying curve, and use U disk to extract data to the computer, with the host computer software in the computer to browse print and a variety of options.
 - Equipped with inflatable valve, can be filled with dry inert gas.

Technical Parameters

Model		Scientz-10N				Scientz-12N				Scientz-18N			
Type		Ordinary	Top press	Ordinary multi-pipeline	Top-press multi-pipeline	Ordinary	Top press	Ordinary multi-pipeline	Top-press multi-pipeline	Ordinary	Top press	Ordinary multi-pipeline	Top-press multi-pipeline
Dryer area (m ²)		0.125	0.08	0.125	0.08	0.125	0.08	0.125	0.08	0.18	0.09	0.18	0.09
Ability to capture water (Kg/batch)		3	3	3	3	4	4	4	4	6	6	6	6
Schering bottle quantity	Φ12mm	920	560	920	560	920	560	920	560	1320	990	1320	990
	Φ16mm	480	285	480	285	480	285	480	285	698	349	698	349
	Φ22mm	260	165	260	165	260	165	260	165	360	184	360	184
Eggplant shape bottle		/	/	8	8	/	/	8	8	/	/	8	8
Plate load capacity (L)		1.5	1	1.5	1	1.5	1	1.5	1	2	1	2	1
Plate size (mm)		Φ200	Φ180	Φ200	Φ180	Φ200	Φ180	Φ200	Φ180	Φ240	Φ200	Φ240	Φ200
Plate distance (mm)		70											
Plate size (pc)		4	3	4	3	4	3	4	3	4	3	4	3
Cold chmaber size(mm)		Φ250×150				Φ250×250				Φ300×405			
Cold trap the lowest temperature (°C)		≤-56 (No load)											
Ultimate vacuum(Pa)		≤5 (No load)											
Power Kw (220V50Hz)		0.95				1				1.3			
Amibient temperature (°C)		≤25											
Overall dimension (mm)		590(L)*460(W)*400(H)+440				600(L)*450(W)*720(H)+440				670(L)*525(W)*910(H)+480			
Weight(Kg)		55	61	57	63	63	70	65	72	79	85	81	87
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 70mm)											

- Selection function
- ⊙ Double refrigeration system , Cold trap up to -80°C

⊙ Defrost function

⊙ Import vacuum pump

⊙ Automatic nitrogen filling interface

⊙ T-type ampoule bottle rack