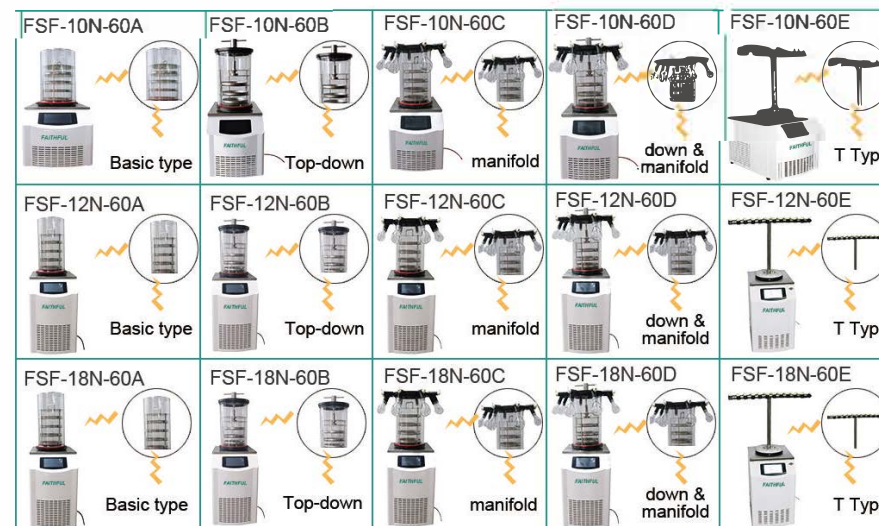


# Freeze Dryer

Widely used in the fields of medicine, pharmacy, biological research, chemical industry and food. The freeze-dried articles are easy to be stored for a long time, and can be restored to the state before freeze-drying and maintain the original biochemical properties after processing.

## Feature:

1. Refrigeration uses Linde-hampson, the world's leading technology, with a refrigeratory (secondary cooling by refrigeration), high refrigeration efficiency;
2. The use of environmentally friendly refrigerants (absolutely does not contain the refrigerants banned by the state, some manufacturers still use the mixed refrigerant scheme with the ratio of R12 and R22 banned by the state);
3. Refrigeration temperature :
  - 3.1 Temperature of cold trap up to standard (no load): <60 (DegC) and room temperature <28 (DegC)
  - 3.2 Limit cold trap temperature (no load): <65 C, room temperature <25 C;
4. Using a 7-inch touch screen, the display is intuitive and easy to operate, without defining the inexplicable button selection .
5. Support freeze-drying data curve recording function .
6. The requirement of cold trap temperature can be set when the vacuum pump starts, so as to avoid starting the vacuum pump when the cold trap temperature does not reach the effective low-temperature water catching performance, resulting in water entering the vacuum pump .
7. With an additional set of sensors, it can be used to measure sample temperature and record data .
8. Temperature and vacuum have correction function.
9. Switching unit with vacuum pressure display, supporting Mbar (millibar), Pa (Pascal), Torr (Toll) .
10. Free upgrade of electric defrosting function



## Main Technical Parameters:

Parameters /Model	FSF-10N				FSF-12N				FSF-18N					
	-60A	-60B	-60C	-60D	-60A	-60B	-60C	-60D	-60A	-60B	-60C	-60D	-60E	
	Basic type	Top-down	manifold	down & manifold	Basic type	Top-down	manifold	down & manifold	Basic type	Top-down	manifold	down & manifold	T Type	
Drying area	m²	0.12	0.092	0.12	0.092	0.12	0.092	0.12	0.092	0.27	0.092	0.27	0.092	
Tray	mm	200*4	200*3	200*4	200*3	200*4	200*3	200*4	200*3	240*4	200*3	240*4	200*3	
Tray capacity	L	1.5	1	1.5	1	1.5	1	1.5	1	2	1	2	1	
No-load temperature	°C	<-60 (-80 optional)				<-60 (-80 optional)				<-60 (-80 optional)				<-60 (-80 optional)
Vacuum	Pa	<10pa				<10pa				<10pa				
Inter layer spacing	mm	70				70				70				
Vals number for reference	22	260	165	260	165	260	165	260	165	360	270	360	270	
	16	480	285	480	285	480	285	480	285	740	560	740	560	
	12	920	560	920	560	920	560	920	560	1320	990	1320	990	
Ability to capture water	KG	3				4				6				
voltage	V/Hz	220V/50Hz or 110V/60HZ												
Power	W	850				950				1300				
Machine size	mm	500*400*370				500*400*650				800*530*900				