# Benchtop Freeze Dryer



**FD-18S**
**FD-18S-U**
**FD-18S-U Plus**



**FD-18T**
**FD-18T-U**
**FD-18T-U Plus**



**FD-18P**
**FD-18P-U**
**FD-18P-U Plus**



**FD-18PT**
**FD-18PT-U**
**FD-18PT-U Plus**

## Features

- Large volume stainless steel cold trap with no inner coil inside, allowing for independent freeze-drying samples.
- Cap type material rack, suitable for directly sealing penicillin bottles after freeze-drying.
- Multiple external freezedrying bottles, suitable for simultaneous freeze-drying of multiple samples.
- Design insulation cover with card slot method, reduce cold loss during pre freezing process, save energy, and prevent condensation.
- Equipped with USB interface, capable of exporting freeze-drying data, facilitating userinfrmatn management.
- Imported brand compressor with low cold trap temperature and strong water harvesting ability.
- All stainless steel countertop, corrosion-resistant, easy to clean, unique bridge breaking design at the top of the cold trap, added insulation layer to avoid condensation and frost on the countertop.
- Efficientair-cooledcondenser, using fanblades formed according to aerodynamics, improve heatcandissipationcapacityand save energy more.

## Technical Parameter

| Model | FD-18S<br>FD-18S-U<br>FD-18S-U Plus | FD-18T<br>FD-18T-U<br>FD-18T-U Plus | FD-18P<br>FD-18P-U<br>FD-18P-U Plus | FD-18PT<br>FD-18PT-U<br>FD-18PT-U Plus |
|---|---|---|---|---|
| Type | Standard chamber | Stoppering chamber | Standard chamber with 8 port manifold | Stoppering chamber with 8 port manifold |
| Final condenser temp (C) | -60 or -80 (Optional) | | | |
| Vacuum degree (Pa) | ＜10 | | | |
| Condenser volume (L) | 28 | | | |
| Freeze drying area (m2) | 0.18 or 0.27 (optional) | 0.135 | 0.18 or 0.27 (optional) | 0.135 |
| Water Condenser Capacity(Kg/24H) | 6 | 6 | 6 | 6 |
| Qty of shelf | 4 or 6 | 3 | 4 or 6 | 3 |
| Material loading capacity/shelf (mL) | 450 | 450 | 450 | 450 |
| Material loading capacity(mL) | 1800 or 2700 | 1350 | 1800 or 2700 | 1350 |
| Manifold | / | / | 8 pcs | 8 pcs |
| USB interface | Y | Y | Y | Y |
| Drying Chamber (Standard) | Transparent acrylic | | | |
| Vacuum pump | Standard model: 2XZ-4**; Speed: 2.2L/S | | | |
| Control system | Microprocessor, touch screen | | | |
| Ultimate Vacuum(Pa) | Economic: 1 Classic and Premium:0.6 for-60 ℃/0.3 for-80℃ | | | |
| Noise (dB) | ＜66 | | | |
| Electrical voltage | 220V | | | |
| Electrical Frequency | 50HZ/60HZ | | | |
| Power (Kw) | 1.2 or 1.7 | | | |
| Condenser chamber dimension (ΦxHmm) | 300x420 | | | |
| Sample Tray Dimension(ΦxHmm) | 240x20 | | | |
| Sample Shelf Dimension(ΦxHmm) | 250x391 | 276x518 | 250x391 | 276x518 |
| Sample Shelf Distance Average (Hmm) | 81 or 51 | 71 | 81 or 51 | 71 |
| Host size (WxDxHmm) | 567×710×940 | | | |
| Vacuum hood dimension (upper ϕ /lower ϕ xHmm) | 300x450 | | | |
| Exterior dimension (WxDxHmm) | 560×710×1390 | 560×710×1450 | 560×710×1390 | 560×710×1450 |
| Host Net Weight (kg) | 85 or 100 | | | |
| Host Package (WxDxH) | 790×630×1180 | | | |
| Vacuum Hood Package (WxDxH) | 410×410×640 | | | |
| Vacuum Pump Package (WxDxH) | 220×580×370 | | | |
| Weight (kg) | 150 or 170 | | | |