

Unit-type Desk-top Freeze Dryer FDU1200



FDU-1200

Operation panel



Optional Product



Manifold for Freeze Drying Flasks



Dry chamber (Bulk Racks)



Manifold for Ampoules and test tubes



Lid with nozzle

Cart
(550W*520D*600H)
FDU-SST
Cat. No.209530

Lid with nozzle
It is possible to use
FDU-1200 as Cooling Trap.
FDU-TRAP Cat. No. 209520

Fixing clamp for manifold.
Manifold for flask and manifold for
test tubes and ampoule tubes can
be fixed to FDU-1200 by one-touch.
FDU-CRAMP
Cat. No. 209580

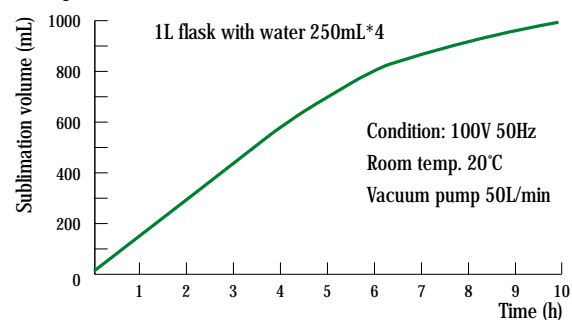
Features

- Unit type design concept makes it possible to build up optimum freeze dryer system by desired combination of optional manifold, dry chamber and vacuum pump suitable for selected sample container.
- The unit is equipped with trap temperature and vacuum level signal outlet to recorder to realize dry freezing data management.
- Trap cooling temperature and vacuum level are measured during auto mode operation and it informs whether the sample container can be installed or not.
- An easy operation requires only a flask mounting and drying termination signal input(The manifold is used).
- Timer function is equipped. Oil exchange time can be confirmed by the display of the integrated operation time meter of the vacuum pump. Also, it is convenient to measure sublimation time.
- Vacuum pump will not re-start automatically when power failure is recovered. It prevents samples melted due to the power failure from bumping and dispersing.
- The filter of 0.2 μ m installed at air inlet prevents leak contamination.
- It is possible to use the FD-1200 as an excellent solvent trap by using optional lid with nozzle.

Specifications

Product Name	Unit-type Freeze Dryer		
Model	FDU-1200		
Cat.No.	208889	208886	208880
Cold trap temperature	-45°C		
Ice holding capacity	1L/one batch		
Temp. setting & display	Sheet key input, digital display		
Safety features	Leakage/Over current breaker, Refrigeration system protection circuit, Fuse for service outlet, Control substrate self-diagnosis, Stop timer function.		
Vacuum leak function	Automatic leak valve		
Trap defrost method	Hot gas		
Additional functions	Vacuum pump automatic operating function, Vacuum and trap temperature monitor function, Power failure self return function		
Refrigerator power & Refrigerant	450W • HFC 507		
Vacuum pump	Option (Pumping speed 50L/min over)		
Vacuum Gauge	Pirani vacuum Gauge(Digital display) 0.4 to 533Pa		
Trap dimensions (mm) & Material	ø200*175H, SUS304		
Vacuum outlet connector	OD 15mm		
Recorder output	Trap temperature: 1°C/mV, Vacuum: 1Pa/mV		
Service outlet	For vacuum pump Max.6A, For Dry chamber Max.2A		
Ambient temperature	5~35°C		
Overall dimensions (mm)	450W*420D*440H		
Weight	38kg		
Power source	AC115 50/60Hz	AC230 50/60Hz	AC100 50/60Hz
Input power	5.2A 600VA	2.6A 600VA	7A 700VA

Sublimation Speed Data

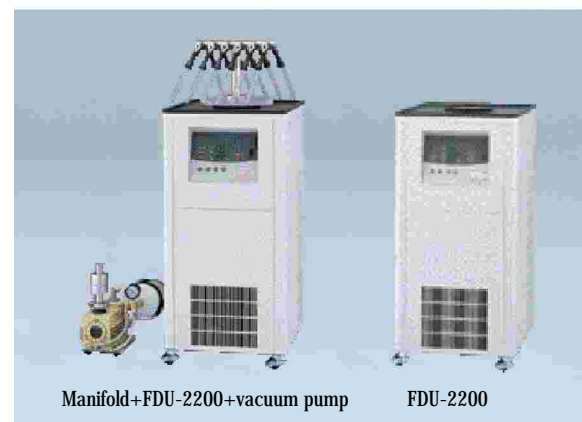


Unit-type Freeze Dryer FDU-2200



FDU-2200

Operation panel



Manifold+FDU-2200+vacuum pump

FDU-2200

Features

- Unit type design concept makes it possible to build up optimum freeze dryer system by desired combination of optional manifold.
- Drying by low temperature of -80°C makes sample well dried with low water content.
- Bath cooling system makes it easy to take out ice when hot gas is introduced. It also contributes to easy bath cleaning.
- Trap cooling temperature and vacuum level are measured during auto-mode operation. It informs whether the sample container can be installed or not. An easy operation requires only flask mounting and drying termination signal input.
- Timer function is equipped. Oil exchange time can be confirmed by the display of the integrated operation time meter of the vacuum pump. Also, it is convenient to measure sublimation time.
- The filter of 0.2 μ m installed at air inlet prevents leak contamination.

Specifications

Product Name	Unit-type Freeze Dryer
Model	FDU-2200
Cat.No.	209550
Cold trap temperature	-80°C
Ice holding capacity	1L/one batch
Temp. setting & display	Sheet key input, digital display
Safety functions	Leakage/Over current breaker, Refrigeration system protection circuit, Fuse for service outlet, Control substrate self-diagnosis
Vacuum leak function	Automatic leak valve
Trap defrost method	Thaw method by hot gas
Additional functions	Vacuum pump Automatic operating function, Vacuum and trap temperature monitor function, Power failure self return function
Refrigerator power & Refrigerant	400W*2 • HFC (R404A • R23)
Vacuum pump	Option (Pumping speed 50L/min over)
Vacuum Gauge	Pirani vacuum Gauge(Digital display) 0.4 to 533Pa
Trap dimensions(mm) & Material	ø153*225H, SUS304
Vacuum outlet connector	OD 17.5mm
Recorder output	Trap temperature: 1°C/mV, Vacuum: 1Pa/mV
Service outlet	For vacuum pump Max.6A, For Dry chamber Max.2A
Ambient temperature	5~35°C
Overall dimensions(mm)	450W*550D*935H
Weight	67kg
Power source	AC100V • 50/60Hz
Input power	12A, 1.2kVA

Sublimation Speed Data

