

Drying Chamber DC-280

Bench-top Desiccator optimized for Vacuum drying and Freeze drying. Promotes drying by heating the sample with a Built-in Heater on each shelf in addition to decompression.

•Freeze dryer (Lyophilizer) "Freeze Dryer VD-250R/550R/800R" --> P.172 •Vacuum Pumps --> P.176

Features

- Easy for Vacuum drying by connecting the vacuum pump
- Becomes a Freeze drying chamber by connecting it to the Lyophilizer
- Equipped with an Outlet inside the chamber and Leak nozzle

Applications

- Drying of Biological samples
- Drying of Testing samples such as Foods, etc.
- As a Storage for reagents and samples weak to moisture

Built-in Heater on each shelf promotes Drying efficiency

Enables valued samples to be dried efficiently. It can be turned ON/OFF from each shelf (cannot be changed during decompression).

Easy to store wide thin containers that can increase drying efficiency

Because the back side of each large shelf Heater is provided, it promotes drying efficiency thanks to the large surface area of heating. Effective to use thin and wide containers such as Petri dishes to dry paste samples.

Outlet inside the chamber and Two nozzles

Equipped with an Outlet inside the chamber and Two nozzles (for suction and leak/gas purge combined use). Suction and Gas replacement can be done delicately from here.

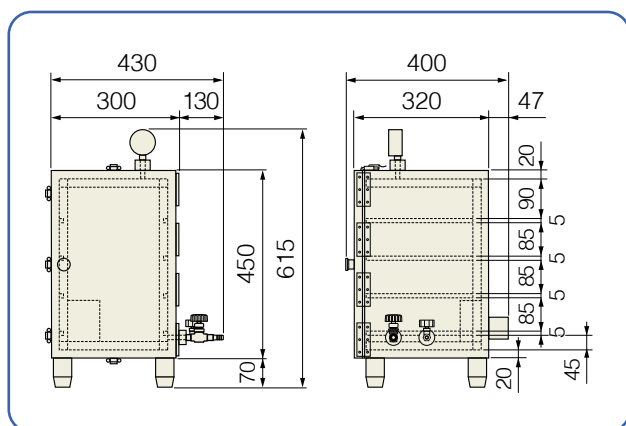


Outlet inside the chamber



Leak/Gas purge combined use nozzle
Suction nozzle

Dimensions



For efficient lyophilization, it is recommended that the ice be thin-walled and have a large surface area during the pre-freezing process.



For proper drying, it may be advisable to use aluminum blocks to increase the heat transfer area.

Model	DC-280
Number of Shelves/Size	Three shelves (aluminum made), 258 × 250 mm
Heater	on the back of each shelf, can be turned ON/OFF by each shelf Shelf surface approx. 30°C when ON turned (under reduced pressure)
Vacuum gauge	Bourdon tube Vacuum gauge
Suction nozzle outer dia.	φ14 mm
Vacuum release	Manually operated, by outer dia. φ9 mm Needle valve (gas purge combined use)
Outlet inside chamber	Max. AC 100 V/3 A
Dimensions (W×D×H)	430 × 400 × 615 mm
Weight	Approx. 21 kg
Power supply	AC100V/3A /Max.7A (Need a step-down transformer)
Standard accessories	Acrylic shelf without heater × 3 pcs

•Use a vacuum pump with displacement 50 to 100 L/min. It may be distorted or broken if using a pump that is larger than 100 L/min. Suction works slowly when using a valve. Vacuum pumps are listed on page 176.

Combined with Freeze Dryer/Lyophilizer (VD series)

Enables to put the trapping for multiple dryers together into one by using the "Freeze Dryer VD-250R/550R/800R" (See page 172) with Multiple tubes mounted as a cold trap. Although each dryer is switched and used, when they are not used simultaneously, a number of Multiple tubes and dryers such as DC-280 can be connected (Max. 8 ports in Multiple tubes of VD series). The VD-250R and DC-280 2-port multiple tubes (MP-020) in combination are shown in right for reference. The DC-280 is connected to Multiple tubes with the vacuum hose.



Combined example with VD-550R

DC-280 (Vacuum dryer)

VD-550R (Freeze Dryer --> P.172)

MP-020 (2-port multiple tubes --> P.173)

GLD-051 (Oil-sealed Rotary Vacuum pump --> P.176)

System stand (C-type --> P.165)

NEW

Constant temperature incubator/shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic homogenizer

Aluminum block Bath Mini-size Bath

Water bath Spiking Water bath Immersion cooler

Hybridization Incubator Constant temperature Chambers

Centrifugal Concentrators Cold Trap

Freeze dryers

Substrate Electrophoresis apparatus Blotting device for hybridization

Constant temperature water circulating system (Chilled)

Appendix