



Personalized PDF Catalog
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Freeze drying systems, FreeZone®

LABCONCO

Supplier: Labconco



Designed to handle the lyophilisation needs of research laboratories. Collectors that reach $-50\text{ }^{\circ}\text{C}$ are available with capacities from 1 to 18 litres. Cascade systems in 2,5, 4,5, 6 and 12 litre collector capacities that reach $-84\text{ }^{\circ}\text{C}$ are ideal for freeze drying samples with low eutectic temperatures. The FreeZone® $-105\text{ }^{\circ}\text{C}$ bench top freeze dryer systems are suitable for samples with very low eutectic points including ones containing small amounts of methanol or ethanol.

- ▶Automatic start-up; pressing one button initiates collector refrigeration and vacuum
- ▶LCD screen for easy to read digital readouts of vacuum, temperature and service information
- ▶RS232 port (on all models except FreeZone® 1 litre systems) simplifies connection to a personal computer

Lighted graphs (on all models except FreeZone® 1 litre systems) display amber then green, to indicate when temperature and vacuum levels are right for adding samples. The 2,5, 4,5 and 6 litre freeze dry systems feature an automated valve for pressure regulation to help accelerate sublimation. The audible/visual alarm alerts the user to abnormal system events. Alarm messages are displayed on the LCD.

The upright collector chamber makes defrosting easy. All models may be manually defrosted by pouring water into the upright chamber to melt the collected ice. A collector drain hose allows convenient emptying of the melted ice. Larger systems feature hot gas defrost. Moisture sensor (on all models except FreeZone® 1 litre systems) protects the vacuum pump by preventing refrigeration or vacuum start-up when moisture is detected in the collector chamber. Vacuum break valve (on all models except the FreeZone® 1 litre systems) protects the system from oil backstreaming during power outages.





Ordering information: Other models, including versions with PTFE coated collectors, and a wide range of accessories including shelves and heated shelves are available, please contact VWR for more information.

Delivery information: Supplied with 3/4" ID vacuum hose and two clamps but without pump and accessories.

ORDER






FreeZone® freeze dry systems, -50 °C



VWR Catalog Number	Quantity	Type	Ice capacity (l)
535-0093		FreeZone® 2,5 bench top, without chamber, UK-plug	2,5
535-0094		FreeZone® 2,5 bench top, PTFE-coated stainless steel collector chamber and coil, UK-plug	2,5
LBCP7752061		FreeZone® 6 bench top, PTFE-coated stainless steel collector chamber and coil, UK-plug	6
535-0104		FreeZone® 6 bench top, without chamber, UK-plug	6




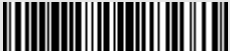



Drying chambers for Freezone® freeze dry systems











			
FreeZonePlusBT	FreeZoneConsoleNoOptions	2.5casc25	FDConsolewithMiniChar
VWR Catalog Number	Quantity	Description	Pk

535-0030		12-port drying chamber, stainless steel 248×203 mm, for Freezone® 2,5, 6, 12 and 18	1
535-0031		16-port drying chamber, stainless steel 330×330 mm, for Freezone® 6, 12 and 18	1
LBCP7521001		Heated chamber with 1/2" thick, clear acrylic cover, 229×267 mm, 230 V, for Freezone® 4.5A, 4.5P, 6, 12 and 18	1
LBCP7318702		Clear acrylic chamber for bulk drying, with lid, 345×427 mm, for Freezone® 1, 2,5, 4,5, 6, 8, 12 and 18	1
LBCP7318802		Clear acrylic chamber for bulk drying, includes aluminium lid and 8 neoprene valves with plastic knobs for use with both 1/2" and 3/4" adapters, 442×389 mm, for Freezone® 1, 2,5, 4,5, 6, 8, 12 and 18	1

ACCESSORIES

Accessories

VWR Catalog Number	Quantity	Description	Pk
535-0042		Fast Freeze® complete flask (incl. flask top, bottom and filter paper), 40 ml	1
531-0176		Fast Freeze® complete flask (incl. flask top, bottom and filter paper), 80 ml	1
535-0043		Fast Freeze® complete flask (incl. flask top, bottom and filter paper), 150 ml	1
535-0044		Fast Freeze® complete flask (incl. flask top, bottom and filter paper), 300 ml	1
535-0045		Fast Freeze® complete flask (incl. flask top, bottom and filter paper), 600 ml	1
531-0177		Adapters, borosilicate glass, 45° bend, for connecting the 12,7 mm Fast-Freeze® flask top to 12,7 mm valve ports	1
535-0047		Adapters, borosilicate glass, 45° bend, for connecting the 19,05 mm Fast-Freeze® flask top to 19,05 mm valve ports	1

535-0048		Adapters, stainless steel, 45° bend, for connecting the 19,05 mm Fast-Freeze® flask top to 19,05 mm valve ports	1
LBCP7569000		Mini Stoppering Chamber, attaches to a port on a Labconco drying chamber or manifold (sold separately), to stopper small vials (up to 30 ml each), includes 432 mm of clear PVC tubing.	1
LBCP7426400		Support shelves, WxD 187×304 mm, weight of 0,45 kg	2
531-0175		Shelves, small, Ø×h 158×238 mm, weight of 0,68 kg	1
LBCP7538400		Dry ice secondary vacuum trap, Ø×h 167×198 mm, weight 2,26 kg	1
531-0941		Stainless steel lid, for 1, 2,5, and 4,5 l systems, Ø 257 mm	1
535-0213		Glass lid, for 4,5 l systems, Ø 257 mm	1
LBCP7645900		Drain hose, for 1 and 4,5 l systems, weight 0,2 kg	1
LBCP7317100		Removable shelves, small, aluminium, W×D×H: 277×264×249 mm, weight: 2,5 kg for use with drying chambers	1
LBCP7201700		4-Port manifold, 304 stainless steel with four neoprene valves and latching pin, accomodates both 1/2" and 3/4" adapters for connecting flasks	1