

## Labconco® FreeZone® 4.5-Liter Freeze Dry Systems

### Benthtop high capacity with cooling to -105°C

- Won't change the structure or activity of your samples
- Handle light sample loads with very low eutectic point
- Includes 12-port stainless steel drying chamber

Systems feature a retractable, side-mounted, 9" (22.9 cm) collector drain line. A rear-mounted electrical receptacle allows for vacuum pump connection (pump not included). Rear-mounted RS-232 port transmits data to a computer with transmission intervals which may be configured for 10, 30, 60, 300, or 600 seconds.

**What's included:** 12-port stainless steel drying chamber, power cord, 3/4" OD vacuum connection, 3/4" ID vacuum hose, and two clamps.



#### REQUIRED System Components

- 1) Freeze dryer **page 342**
  - 2) Vacuum pump **page 912-922**
  - 3) Glassware **page 342**
- Optional**
- 4) Shell freezer for prefreezing **Online**



15953-87



Description	Sublimation rate	Ice capacity	Dimensions (W x H x D)	Power (VAC)	Plug type	Shpg wt lb (kg)	Benthtop freeze dryer with stainless steel interior		Benthtop freeze dryer with PTFE-coated interior	
							Catalog number	Price	Catalog number	Price
4.5-L model with 12-port drying chamber	2.5 L H <sub>2</sub> O	4.5 L H <sub>2</sub> O	23 1/8" x 25 1/16" x 26 1/8" (58.7 x 65.3 x 67.1 cm)	115	North America	180 (82)	<a href="#">GH-05953-87</a>		<a href="#">GH-05953-88</a>	
			23 1/8" x 25 1/16" x 26 1/8" (58.7 x 65.3 x 67.1 cm)	230	North America	180 (82)	<a href="#">GH-05953-89</a>		<a href="#">GH-05953-90</a>	
			23 1/8" x 25 1/16" x 26 1/8" (58.7 x 65.3 x 67.1 cm)	230	UK	180 (82)	<a href="#">GH-15953-87</a>		<a href="#">GH-15953-88</a>	
			23 1/8" x 25 1/16" x 26 1/8" (58.7 x 65.3 x 67.1 cm)	230	AU, China	180 (82)	<a href="#">GH-05953-93</a>		<a href="#">GH-05953-94</a>	
			23 1/8" x 25 1/16" x 26 1/8" (58.7 x 65.3 x 67.1 cm)	230	Schuko	180 (82)	<a href="#">GH-05953-91</a>		<a href="#">GH-05953-92</a>	

### Fast-Freeze™ Flasks

#### Wide-mouth design for easy access

- Constructed of borosilicate glass and silicone rubber tops
- Adapters sold separately



Capacity	Adapter (dia)	Catalog number	Price
40 mL	1/2" (1.3 cm)	<a href="#">GH-03353-00</a>	
80 mL	1/2" (1.3 cm)	<a href="#">GH-03353-01</a>	
120 mL	3/4" (1.9 cm)	<a href="#">GH-03353-02</a>	
150 mL	3/4" (1.9 cm)	<a href="#">GH-03353-03</a>	
300 mL	3/4" (1.9 cm)	<a href="#">GH-03353-04</a>	
600 mL	3/4" (1.9 cm)	<a href="#">GH-03353-05</a>	
1200 mL	3/4" (1.9 cm)	<a href="#">GH-03353-07</a>	
2000 mL	3/4" (1.9 cm)	<a href="#">GH-03353-08</a>	

#### Adapters for flasks (not pictured)

Flask-to-valve dia	Catalog number	Price
<b>Straight glass adapters</b>		
1/2" to 1/2" (1.3 to 1.3 cm)	<a href="#">GH-03354-00</a>	
3/4" to 3/4" (1.9 to 1.9 cm)	<a href="#">GH-03354-01</a>	
1/2" to 3/4" (1.3 to 1.9 cm)	<a href="#">GH-03354-02</a>	
<b>45° glass adapters</b>		
1/2" to 1/2" (1.3 to 1.3 cm)	<a href="#">GH-03354-10</a>	
3/4" to 3/4" (1.9 to 1.9 cm)	<a href="#">GH-03354-11</a>	
1/2" to 3/4" (1.3 to 1.9 cm)	<a href="#">GH-03354-12</a>	
<b>Straight stainless steel adapters</b>		
1/2" to 1/2" (1.3 to 1.3 cm)	<a href="#">GH-03354-30</a>	
3/4" to 3/4" (1.9 to 1.9 cm)	<a href="#">GH-03354-31</a>	

## Labconco® Drying Platforms for FreeZone® Freeze Dry Systems

### Standard Drying Chambers

- Accommodates any size glassware
- 304 SS body with acrylic cover



Description	Catalog number	Price
12 ports	<a href="#">GH-03346-01</a>	
16 ports	<a href="#">GH-03346-11</a>	

### Clear Drying Chambers

- Easily monitor drying process
- Optional stands allow for bulk freeze drying



Ports	Dimensions (H x dia)	Catalog number	Price
8	12 1/4" x 14 5/8" (31.1 x 37.1 cm)	<a href="#">GH-03337-66</a>	
—	13 1/8" x 10 5/8" (33.3 x 26.4 cm)	<a href="#">GH-03337-64</a>	

#### Accessories

- [GH-03337-58](#) Three-shelf sample stand; non-heated, 9 5/8" x 7 1/4" (23.8 x 18.4 cm)
- [GH-03337-52](#) Three-shelf sample stand; heated, 120 VAC, 9 5/8" x 7 1/4" (23.8 x 18.4 cm)
- [GH-03337-54](#) Three-shelf sample stand; heated, 220 VAC, 9 5/8" x 7 1/4" (23.8 x 18.4 cm)

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