

VirTis BenchTop Pro with Omnitronics™ - 8L Benchtop Freeze Dryer



(BenchTop Pro 8L with optional tree-type manifold and condensate pan kit shown).

Key Features

- Direct chamber, flask and/or rack drying capabilities.
- PLC-based Omnitronics™ controller.
- Optional manifolds, racks and accessories available.

Optional Components

- Stainless Steel Drum Manifold (18-Port).
- Tree-Type Stainless Steel Manifold (8- or 12-Port).
- Stainless Steel Vertical Manifold (12-Port).
- Bulk Shelf Rack.
- Stoppering-Tainer (SC-1 Stainless Steel).

Note: Additional accessories, as well as flask adapters, glassware and other components are available. Contact SP Scientific for more information.

Performance Specifications

	ZL
Lowest Condenser Temperature (°C) (50 Hz / 60 Hz)	-102 / -105
Maximum Condenser Capacity (L)	8
Maximum Ice Condensing Capacity in 24 hours (L)†	3
Maximum Deposition Rate (L/hour)†	0.13
Number of Compressors	2
Compressor Horsepower	1/3, 3/8
Average Vacuum Time to 100 Millitorr (minutes)**	18
Lowest System Vacuum (mT)**	≤ 20

Note: Performance specifications are based on SP Scientific test data from units operating at an ambient room temperature of approximately 20 °C. SP Scientific recommends an operating range of 15-25 °C (59-77 °F).

Utility Requirements

	ZL
With Vacuum Pump	4,500
Approx. Peak Heat Generated (BTU/h)	
Without Vacuum Pump	3,500
Approx. Peak Heat Generated (BTU/h)	

Electrical Requirements

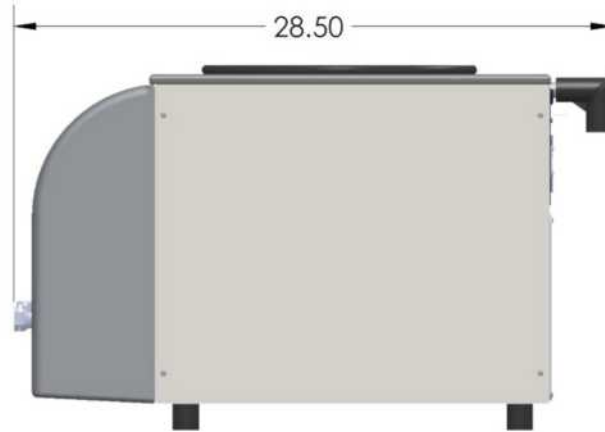
	ZL		
Voltage (VAC)†	100-120	208-230	200-240
Hertz	50, 60	60	50
Phase	1	1	1
Breaker Amperage	20	15	15

Refrigerant Information

	F gas	Charge (kg)	GWP	
Gas #1	M089	0.340	3805	CO2e
Gas #2	R1150	0.025	4	
Gas #3	N/A	N/A	N/A	

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Benchtop Freeze Dryer



Dimensional Data

Width (in / cm)	15.5 / 39.4
Depth (in / cm)	28.5 / 72.4
Height (in / cm)	17 / 43.2
Approximate Weight (lb / kg)	126 / 57 (ZL)
Condenser Inside Diameter (in / cm)	12 / 30.5

Additional Information

Construction	Stainless Steel Condenser
Vacuum Pump (required, not included)	Two-Stage Rotary Vane
Defrost Type	Hot Gas
Refrigerant Type	CFC Free
Condenser Type	Bottom External Coil

Materials of Construction

Condenser Chamber	304
Condenser Chamber Cover / Adapter Plate	Acrylic
Condenser Chamber Gasket	Neoprene Split-ring
Bulk Rack Shelves	304 Stainless Steel
Drum Manifold	Acrylic or 304 Stainless Steel
Vertical and Tree-Type Manifolds	316L Stainless Steel
Drum Manifold Gasket	Neoprene Split-ring
Quickseal Body	Neoprene
Quickseal Knob	Polypropylene



Drum Manifold

18-Port Stainless Steel



Tree-Type Manifold

8- or 12-Port Stainless Steel Manifold



Horizontal Manifold

Trays and ports



Bulk Shelf Rack

3 Shelves



Drum Manifold

8- or 12-Port Acrylic

[†] The specified Maximum Ice Condensing Capacity in 24 Hours and Maximum Deposition Rate are based on the process of freeze-drying water as aggressively as possible. The freeze dryer's ability to collect ice at an hourly rate or over a specified period will always be application dependent.

^{**} Vacuum specifications are based on SP Scientific test data from similar units equipped with an Leybold D2,5E two-stage rotary vane vacuum pump. Units equipped with other vacuum pumps may yield different results.

[‡] NEMA plug type is selected at time of sale.

Note: The refrigerants and insulating foam contain fluorinated greenhouse gases.