

# 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

	ZG
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

	ZG
<b>With Vacuum Pump</b>	
Approx. Peak Heat Generated (BTU/h)	4,500
<b>Without Vacuum Pump</b>	
Approx. Peak Heat Generated (BTU/h)	3,500

### Electrical Requirements

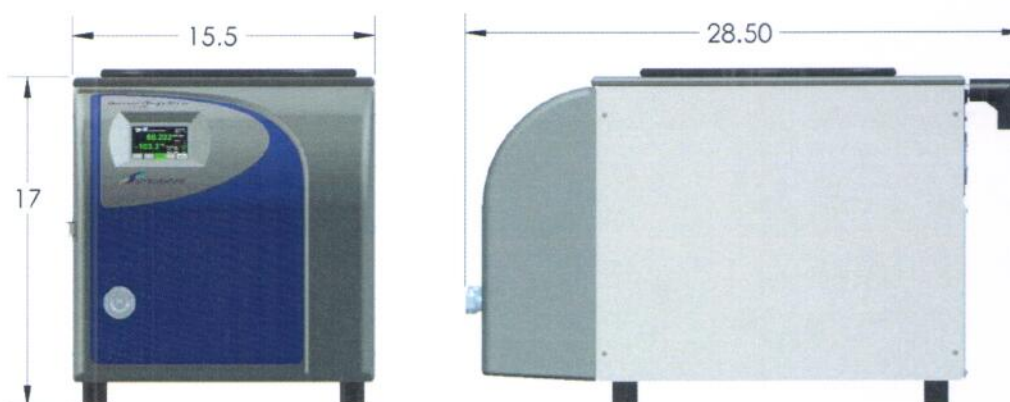
	100-120 88-98	208-230	200-240
Voltage (VAC)†			
Hertz	60 50	60	50
Phase	1	1	1
Breaker Amperage	20	15	15

### Benchtop Pro 8L ZG Refrigerant Information

	F gas	Charge (kg)	GWP	
Gas #1	R - 1290	0.026	5	CO2e
Gas #2	R1150	0.016	4	0.321
Gas #3	N/A	N/A	N/A	

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### 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 (ZG)
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

<sup>†</sup> 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.

<sup>\*\*</sup> 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.

<sup>‡</sup> NEMA plug type is selected at time of sale.

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

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