# VirTis BenchTop Pro with Omnitronics™ - 9L

### Benchtop Freeze Dryer



(BenchTop Pro 9L with optional tree-type manifold and condensate pan kit shown).

#### **Performance Specifications**

-	SG	EG
Lowest Condenser Temperature (°C) (50 Hz / 60 Hz)	-52 / -55	-82 / -85
Maximum Condenser Capacity (L)	9	9
Maximum Ice Condensing Capacity in 24 hours (L) <sup>†</sup>	5	5
Maximum Deposition Rate (L/hour) <sup>†</sup>	0.21	0.21
Number of Compressors	1	2
Compressor Horsepower	1/3	1/3, 3/8
Average Vacuum Time to 100 Millitorr (minutes)**	18	18
Lowest System Vacuum (mT)**	≤ 30	≤ 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).

#### Benchtop Pro 9L SG Refrigerant Information

#### GWP F gas Charge (kg) Gas #1 - 1290 5 R 0.026 CO2e Gas #2 N/A N/A 0.130 N/A Gas #3 N/A N/A N/A

### Key Features

Direct chamber, flask and/or rack drying capabilities. PLC-based Omnitronics™ controller. Choice of refrigeration system to meet various process requirements. Optional manifolds, racks and accessories available.

#### **Optional Components**

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

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

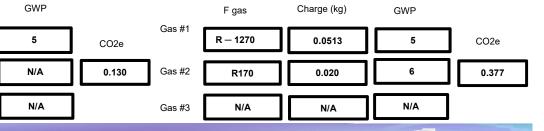
#### **Utility Requirements**

	SG	EG
With Vacuum Pump Approx. Peak Heat Generated (BTU/h)	3,500	4,500
Without Vacuum Pump Approx. Peak Heat Generated (BTU/h)	2,500	3,500

#### **Electrical Requirements**

	SG			EG		
Voltage (VAC) <sup>‡</sup>	100-120 88-108	208-230	200-240	100-120 88-98	208-230	200-240
Hertz	60 50	60	50	60 50	60	50
Phase	1	1	1	1	1	1
Breaker Amperage	15	10	10	20	15	15

#### Benchtop Pro 9L EG Refrigerant Information

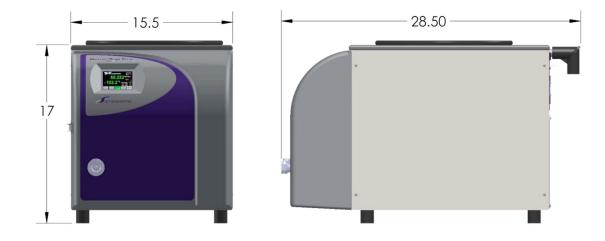


3538 Main Street, Stone Ridge, NY 12484 USA 845.255.5000 800.431.8232 Fax: 845.687.7481 www.SPScientific.com



# VirTis BenchTop Pro with Omnitronics™ - 9L

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)	88 / 40 (SG)	131 / 59 (EG)
Condenser Inside Diameter (in / cm)	12 / 30.5	

Stainless Steel Condenser

Two-Stage Rotary Vane

#### **Additional Information**

Construction

Vacuum Pump (required, not included)

Defrost Type

Refrigerant Type

Condenser Type



Drum Manifold 18-Port Stainless Steel



Hot Gas

Tree-Type Manifold 8- or 12-Port Stainless Steel Manifold



Horizontal Manifold

Trays and Ports



Materials of Construction

Condenser Chamber

Adapter Plate

Bulk Rack Shelves

Drum Manifold Gasket

Quickseal Body

Quickseal Knob

Drum Manifold

Internal Condenser Coil

Condenser Chamber Cover /

Condenser Chamber Gasket

Vertical and Tree-Type Manifolds

50

3 Shelves



304

Acrylic

316L Stainless Steel

Neoprene Split-ring

304 Stainless Steel

316L Stainless Steel

Neoprene Split-ring

Neoprene

Polypropylene

Acrylic or 304 Stainless Steel

Vertical 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. \*\* 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.

Copyright © 2020 SP Scientific. All marks herein are used under license. All brand or product names mentioned may be trademarks or registered trademarks of their respective companies. SP Scientific reserves the right to change specifications without notice.