## VirTis Freezemobile 25L

### Research Freeze Dryer



#### **Electrical Requirements**

	XL	EL
Voltage (VAC)	208 / 240	208 / 240
Hertz	50, 60	50, 60
Phase	1	1
Breaker Amperage	15	20
NEMA Receptacle	6-15R*	6-20R*

#### **Utility Requirements**

Item	XL	EL
Approx. Peak Heat Generated (BTU/h)	6,000	8,500

#### **Key Features**

- Compact, freestanding, mobile design.
- Includes microprocessor-based Sentry 2.0 controller.
- Choice of refrigeration system to meet a variety of process requirements.
- Wide variety of optional manifolds, shelves and accessories available.
- Optional filter traps available to protect the vacuum pump from corrosive solvents.

#### **Performance Specifications**

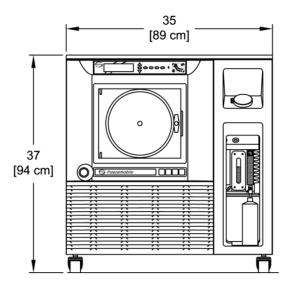
	XL	EL
Lowest Condenser Temperature (50 Hz / 60 Hz, °C)	-67 / -70	-82 / -85
Lowest Freezing Temperature with Optional Shell Bath (50 Hz / 60 Hz, °C)	-52 / -55	-67 / -70
Maximum Condenser Capacity (L)	25	25
Condenser Surface Area (in <sup>2</sup> / cm <sup>2</sup> )	506 / 3264	506 / 3264
Maximum Ice Condensing Capacity in 24 hours (L) <sup>†</sup>	12	12
Maximum Deposition Rate $(L/hour)^{\dagger}$	0.5	0.5
Condenser Pull-Down from 20 °C to -45 °C (minutes)	≤ 25	≤ 25
Number of Compressors	1	2
Compressor Horsepower	1.0	1.0, 1.0
System Refrigerant	R245fa / R508B	R508B, R407C
Vacuum Time to 100 Millitorr (minutes)	≤ 20	≤ 20
Lowest System Vacuum (mT)	≤ 15	≤ 15
Average Defrost Time (minutes)	≤ 60	≤ 60

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

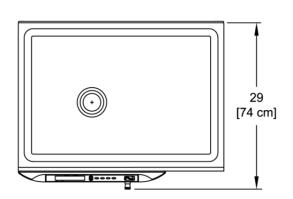


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**Dimensional Data** 



#### **Additional Information**

Width	35 in (89 cm)	Construction	316L Stainless Steel Condenser Chamber
Depth	29 in (74 cm)	Vacuum Pump (required, not included)	Two-Stage Rotary Vane
Height	37 in (94 cm)	Defrost Type	Hot Gas
Approximate Weight Range	280-495 lb (127-225 kg)	Refrigerant	CFC-Free



Acrylic Drum Manifold

12 Port Acrylic Drum Manifold; 12 Inch Outside Diameter (OD)



Stainless Steel Drum Manifold

12 or 18 Port Stainless Steel Drum Manifold

### **Optional Components**



Bulk Shelf Rack

3, 4 or 5 Shelves; Heated or Unheated



Stoppering Assembly

> 1, 2 or 3 Shelves; Heated or Unheated



Vertical Manifold Assembly

> 4, 8, 12, 24 or 48 Port Stainless Steel Vertical Manifold



Horizontal "T" Manifold

1, 2 or 3 Tier Stainless Steel Horizontal "T" Manifold

Note: Additional standard and custom accessories are available, along with flask adapters, glassware and other components. Contact SP Scientific for more information.

\* Receptacle configuration for 50 Hz units varies by country.

<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.

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