## VILTIS FREEZEMOBILE 35L Research Freeze Dryer



(Freezemobile 25L shown with manifold)

#### **Electrical Requirements**

Item	EL
Voltage (VAC)	208 / 240
Hertz	50, 60
Phase	1
Breaker Amperage	30
NEMA Receptacle	L6-30R*



#### **Key Features**

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

#### **Performance Specifications**

	EL
Lowest Condenser Temperature (50 Hz / 60 Hz, °C)	-82 / -85
Lowest Freezing Temperature with Optional Shell Bath (50 Hz / 60 Hz, °C)	-67 / -70
Maximum Condenser Capacity (L)	35
Condenser Surface Area (in² / cm²)	750 / 4838
Maximum Ice Condensing Capacity in 24 hours (L) <sup>†</sup>	20
Maximum Deposition Rate (L/hour) <sup>†</sup>	0.83
Condenser Pull-Down from 20 °C to -45 °C (minutes)	≤ 25
Number of Compressors	2
Compressor Horsepower	1.5, 1.0
Vacuum Time to 100 Millitorr (minutes)	≤ 20
Lowest System Vacuum (mT)	≤ 15
Average Defrost Time (minutes)	≤ 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).

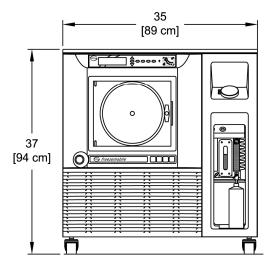
#### **Utility Requirements**

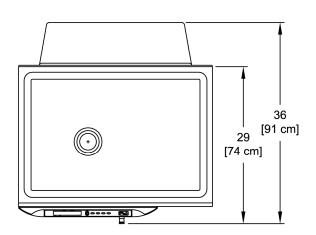
	EL
Approx. Peak Heat Generated (BTU/h)	9,800



# VirTis Freezemobile 35L

### Research Freeze Dryer





Additional Information

#### **Dimensional Data**

Width	35 in (89 cm)	Construction	316L Stainless Steel Condenser Chamber
Depth	36 in (91 cm)	Vacuum Pump (required, not included)	Two-Stage Rotary Vane
Height	37 in (94 cm)	Defrost Type	Hot Gas
Approximate Weight Range	450-500 lb (205-225 kg)	Refrigerant	CFC-Free

#### **Optional Components**



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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