

Freezemobile 35 Series Freeze Dryer



Selection of Manifolds – Manifolds are available in a wide selection of shapes and sizes, including drum, single-tier, double-tier, and bulk and stoppering drying assemblies. If you can't find a manifold to suit your application, we will create one for you.

Stainless Steel, Smooth-walled Condensers with Clear Lucite Doors – This creates an easy-to-clean environment, with good visibility of the condenser load.

Refrigeration Options – Flexible, CFC-free refrigeration systems provide high-efficiency condensing temperatures to -85°C . Compatible with a wide variety of applications, from aqueous samples to organics and acids.

Vacuum Brake System – Maintains system vacuum pressure and prevents oil from backstreaming into the system in the event of a power failure or improper shut-down procedure.

Optional Built-in Shell Freezer – Permits sample freezing while other samples freeze dry. The optional bath has two rollers to rotate flasks up to 2000ml in a heat transfer fluid. The bath can be switched off when freezing is complete.

Electric Purge System (optional) – Lets you isolate the vacuum pump from the vacuum system so that volatile vapors may be purged from the pump oil, extending the life of the pump.

Filter Trap (optional) – Protects the pump from the corrosive action of acid and solvent vapors. Your choice of cartridges ordered separately.

Super Sentry Microprocessor Controller – The latest generation of automated control features intuitive operation and numerous step-saving refinements. See Super Sentry Technical Sheet for Details.

VirTis Freezemobile 35XL Series Freeze Dryer with pump module and LabTop with one shelf;

computer workstation with wizard software. Wizard control system on LabTop.

These 35 liter research freeze dryers now offer the following standard features.

Power Save Button – Extends vacuum pump life by enabling operation based on pressure set-point demand. Allows up to 90% off-time in secondary drying.

Vacuum Pump Module – Convenient access to vacuum pump for inspection and routine oil changes.

CE Marking – All models configured for 230V/50Hz conform to electrical safety standards set by the European Community.

Quick Defrost – An integral electrical heater allows easy ice removal and rapid turnaround time.

Highly Visible Graphic Display – Amber and green lights, representing points of condenser temperature and vacuum pull-down, provide visual confirmation that the system is fully functional.

Audible and Lighted Display Alarms – All units feature alarms that are represented with lighted symbols and are also audible to notify the end-user when the system has not reached required set-points in the configuration.

Cabinet Construction – Easily removable front and side panel allows access to refrigeration system and components. Black phenolic resistop work surface cleans easily and resists stains.

Freezemobile 35 Series Freeze Dryer Specifications

FREEZEMOBILE 35 SERIES	ES	XL	EL
Condenser Blank-Off Temperature: °C	-53°C	-70°C	-85°C
Condenser Capacity In 24 Hours: Liters	20.0	20.0	20.0
Deposition Rate In Liters Per Hour	0.83	0.83	0.83
Condenser Surface Area: in ² /cm ²	750/4838	750/4838	750/4838
Condenser Pull Down to -45°C: Minutes	25	21	25
Total Condenser Capacity: Liters	35	35	35
Number Of Compressors	1	1	2
Compressor Horsepower	1 - 1/2	1 - 1/2	1 - 1/2, 1
System Refrigerants	V55C	V70C	r22, v90c
Refrigerant Type	CFC-free	CFC-free	CFC-free
Defrost System: Type	Electric	Electric	Electric
Average Defrost Time: Minutes	<60	<60	<60
Power Requirements	20A	20A	30A
Optional Bath Temperature: °C	-45°C	-55°C	-70°C
Recommended Optional Vacuum Pumps: Liters/Minute	255 400	255 400	255 400
Average Evacuation Time: Minutes	18	18	18
Cabinet Dimensions: Narrow: Inches Centimeters Wide: Inches Centimeters	25 w x 35 d x 36.5 h 63.5 w x 89 d x 92.7 h 35 w x 35 d x 36.5 h 89 w x 89 d x 92.7 h		
Range of Weight: Pounds (Gross) Kilograms	450 - 500 205 - 225		

Note: All temperature specifications based on an ambient temperature of 20°C.
Specifications are subject to change without notice. Contact VirTis for latest revision.

All freeze dryers are built in our ISO 9001 registered facilities to meet the most exacting current Good Manufacturing Practices (cGMP) standards. VirTis offers the best warranties in the business and a 24-hour emergency support line. Our experienced product managers are waiting to work with you to meet your requirements, budget and time line. For more information, call VirTis at 800-431-8232 or contact your local representative today.



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