



**BenchTop 2K
Condenser with
moveable drying shelf**



**BenchTop 2K Freeze Dryer
shown with 8 port acrylic
manifold, 3-shelf-unheated
bulk rack**

BenchTop™ 2K Freeze Dryer

The compact BenchTop 2K Freeze Dryers offer the flexibility of larger floor models in a smaller footprint. Designed with the small laboratory in mind, they are cost efficient and flexible for processing multiple variations of samples.

The following features are standard on this model:

- Ability to condense up to 2 liters of ice in 24 hours with an overall condenser capacity of 3 liters total
- Standard Lyo Control (SLC) micro-processor system for monitoring critical freeze drying parameters such as condenser temperature and vacuum
- Refrigeration system with CFC-Free refrigerants and two temperature options of -55°C or -75°C
- Space saving footprint of 12.5" W x 19" D x 15.5" H (31.7 cm x 48.2 cm x 39.3 cm). Manifold not included in height
- Ability to freeze and freeze dry in the condenser with a VirTis patented 2-position shelf
- PC interface via RS232 port for use in collecting data with optional software
- Hot gas defrost for fast turnaround; defrost condenser in approximately 10 minutes
- System maintenance alarm tracks vacuum pump usage for notification to change oil

Specifications for ES and XL Models

Condenser Blank-Off Temperature	ES -55°C / XL -75°C
Condenser Capacity in 24 Hours	2 L
Overall Condenser Capacity	3 L
SLC CONTROL SYSTEM	LCD Display
Condenser Temperature Scale	-150°C to +100°C
Vacuum Indication (Millitorr or Millibar selectable)	760 Torr to 1 Millitorr
Vacuum Regulation	Vacuum Bleed Type
Temperature-Vapor Pressure Conversion	Push Button
System Maintenance	Oil Change Message
PC Interface	RS232
Defrost Method	Hot Gas
Product Freezing in Condenser via 2-position shelf	ES -50°C / XL -65°C
System Refrigerant	CFC-Free
Condenser Type	Bottom external coil
Compressor Horsepower	ES, XL 1/3 HP
Average Time to 100 mtorr (0.13 mbar) (with recommended VirTis pump)	15 Minutes
Ultimate System Vacuum	10 mtorr (6.6 x 10 ⁻³ mbar)
Base Cabinet Dimensions: W x D x H	in. 12.5 x 19 x 15.5 cm 31.7 x 48.3 x 39.4
Weight (lbs/kg)	ES, XL 59 lbs./26.5 kg
Standard Voltages	115V/60, 208V/60, 220V/50

Available Models

BenchTop 2K Freeze Dryer, ES Model	-55°C	115V/60 Hz
BenchTop 2K Freeze Dryer, ES Model	-55°C	208V/60 Hz
BenchTop 2K Freeze Dryer, ES Model	-55°C	220V/50 Hz
BenchTop 2K Freeze Dryer, XL Model	-75°C	115V/60 Hz
BenchTop 2K Freeze Dryer, XL Model	-75°C	208V/60 Hz
BenchTop 2K Freeze Dryer, XL Model	-75°C	220V/50 Hz

See pages 8-11 for available manifolds, vacuum pumps, and accessories. Vacuum pump, adapter, and manifold needed for operation.

Specifications are subject to change without notice.