



Catalog Number: 794801100

Overview

FreeZone Stoppering Tray Dryers lyophilize moderate to large loads of vials or serum bottles and stopper them under vacuum. They offer temperature control from -40 to +40° C. Options include a 6-port manifold, isolation valve and sample trays.

A pneumatic mechanism stoppers containers under vacuum on three large adjustable processing shelves, 16.5" x 12" each. An HCFC/CFC-free refrigeration system and electric heater cool and heat fluid medium that is circulated through the shelves to maintain shelf temperatures within $\pm 1^{\circ}$ C.

Lyo-Works™ OS lets the user set up to 30 programs, with up to 16 steps each; record, chart and store data; and receive email alerts. The tray dryer connects to a FreeZone Console Freeze Dryer that provides a real time display of the tray dryer's parameters on a large capacitive touch screen.

FreeZone Console Freeze Dryer manufactured after July 2017 and vacuum pump are required (not included).

Specifications

- **Weight:** 438.0 lbs
- **Weight metric:** 199.0 kg
- **Dimensions:** 32.4" w x 24.6" d x 27.1" h
- **Dimensions metric:** 82.3 x 62.5 x 68.8 cm
- **Electrical:** 115V, 60 Hz, 16A
- **Region:** U.S. and Canada
- **Applicable Products:** FreeZone 12 Liter, FreeZone 18 Liter, FreeZone 6 Liter
- **Built-In Option:** 6-Port Manifold
- **Conformance:** CAN/CSA C22.2, UL
- **Plug Type:** North America, 115V
- **Vacuum Pump Displacement Required:** 163 L/min or larger displacement

Description

Features (All Models)

- Brushed stainless steel and glacier white, powder-coated steel exterior with blue accents.
- Acrylic door, 1" thick, with silicone gasket and latch.
- Three processing shelves, each 16.5" w x 12" d (41.9 cm x 30.5 cm) with 196 square inches of area. Spacing between the shelves accommodates containers with stoppers up to a maximum height of 75 mm and minimum height of 38 mm when three shelves are used, a maximum height of 107 mm and minimum height of 56 mm when two shelves are used, and a maximum height of 196 mm and minimum height of 114 mm when one shelf is used.
- Two LED indicators: one for Power/standby and one for In Process.
- Three probes for monitoring sample or shelf temperature.
- Pirani vacuum sensor.
- 3" diameter outlet, located on the bottom of the tray dryer cabinet, for connection to a FreeZone 6, 12 or 18 Liter Console Freeze Dryer (freeze dryer is required and not included).
- 1 hp HCFC/CFC-free refrigeration system and 1000-watt electric heater for cooling and heating fluid medium circulating through channels in the shelves from -40° C to +40° C (-40° to +104° F). Micro-processor controls circulating fluid temperature to $\pm 1^\circ$ C of set point.
- Stoppering Raise/Lower control knob, vacuum release Open/Close control knob and 1/8" OD backfill port for user-supplied air or gas.
- Stoppering mechanism that inflates a diaphragm via atmospheric pressure. No compressed gas is required.
- Microprocessor-controlled temperature ramp and hold programming from -40° C to +40° C (-40° to +104° F) and memory to store 30 programs with 16 segments each including number of steps, ramp rate, shelf temperature, hold time and vacuum level.
- System programming that is displayed on the FreeZone 6, 12 or 18 Liter Freeze Dryer (freeze dryer sold separately or as one catalog number): Manual or Program mode; probe temperatures in ° C or ° F, vacuum in mBar, Pa or Torr; segment of the program that is in progress; time remaining in present segment; alarms for power failure; supply line voltage outside of limits; system temperature variation $>\pm 2^\circ$ C, vacuum variation >0.500 mBar; failure to reach system set point temperature; and program completed.
- Data logging and storage that displays and stores data in table or chart on the FreeZone 6, 12 or 18 Liter Freeze Dryer (freeze dryer sold separately or as one catalog number). Data logging may be exported via USB or Ethernet from the FreeZone Freeze Dryer.
- Integral support stand.
- Side-mounted power switch.

Options Include

- 6-Port Tray Dryer Manifold, 30.0" w x 16.5" d x 7.0" h (76.2 cm x 41.9 cm x 17.8 cm). Six valves accommodate either 1/2" or 3/4" flask adapters and connect to flasks and other freeze dry glassware. Available only when ordering the FreeZone Stoppering Tray Dryer as a separate component.
- Isolation Valve, isolates the tray dryer from the freeze dryer to shorten the time necessary to reestablish working vacuum levels and provide a means for determining end point. Available only when ordering the FreeZone Stoppering Tray Dryer as a separate component.
- Region-specific electrical plug configurations.

Required Accessories (Not Included)

- FreeZone 6, 12 or 18 Liter Console Freeze Dryer manufactured after July 2017. The FreeZone Stoppering Tray Dryer and Freeze Dryer may be ordered as separate components or together as one catalog number on selected models of FreeZone 6, 12 or 18 Liter Console Freeze Dryers.
- Vacuum pump with a displacement of at least 163 L/min, 0.002 mBar ultimate pressure and fitting suitable for 3/4" ID vacuum hose.

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