### FreeZone 18 Liter -50C Console Freeze Dryer

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Overview

FreeZone 18 Liter Console Freeze Dryers are designed for lyophilizing moderate to large sample loads or numerous small container batches. The console features a front viewing window, interior space for a vacuum pump, and accommodation for a full size tray dryer such as the FreeZone Stoppering Tray Dryer (pump and tray dryer sold separately).

The upright stainless steel collector coil holds 18 liters of ice before defrosting. A single 1-1/2 hp HCFC/CFC-free refrigeration system cools the collector to -50 $^{\circ}$  C (-58 $^{\circ}$  F), suitable for aqueous samples.

**Lyo-Works™ OS** provides a real time display of collector temperature, vacuum level and optional End-Zone™ end point detection system, shown on a 5" full color, capacitive touch screen. Models with PTFE-coated collectors that can withstand corrosive compounds are available. Built-in options include purge valve and mini chamber.

Catalog Number: 701811010

- Stay Connected
- View Real-Time Sample Data
- Get Consistent, High Quality Results
- Make Challenging Samples Easy

Vacuum pump, drying accessory and freeze dry glassware (if not bulk freeze drying) are required (not included).

# **Specifications**

• Weight: 315.0 lbs

• Weight metric: 142.9 kg

Dimensions: 31.8" w x 29.6" d x 36.6" h
Dimensions metric: 80.7 w x 75.1 d x 92.9 h

cm

• Electrical: 230V, 60 Hz, 9A

• Region: International, U.S. and Canada

Collector Temperature: -50° C, -58° F
 Conformance: CAN/CSA C22.2, UL

• Ice Holding Capacity: 18L

• Plug Type: North America, 230V

Style: Console

• Vacuum Pump Displacement Required: 98

L/min or larger displacement

#### Features (All Models)

- Upright stainless steel collector coil capable of holding 18L of ice before defrosting. Acrylic collector lid, 3/4" thick, has neoprene gasket.
- Console cabinet with interior space for vacuum pump (sold separately) and two-piece, removable front panel with viewing window.
- Clear acrylic chamber lid, 3/4" thick, with neoprene gasket.
- Brushed stainless steel and glacier white, powder-coated steel exterior with blue accents.
- Full color, 5" capacitive touch screen with Lyo-Works™ OS:
  - Real time display of collector temperature, vacuum level, and optional End-Zone™ end point detection system.
  - Start-up mode for collector cool-down and vacuum pull-down (automatic or manual).
  - Operating mode (standby or run).
  - Vacuum set point, alerts, diagnostic tests, user manual, defrost control, and optional drying accessory parameters.
  - Data logging stores and displays data in table or chart format, and may be exported via USB or Ethernet.
  - Settings include language (English, Spanish, French, German, or Italian), time, time zone, temperature (° C or ° F), and vacuum (mBar, Torr, or Pa).
  - Alerts are programmable to send via Ethernet connection to user-entered email addresses.
  - Display settings include brightness, touch sounds (on/off), and screen time out in minutes (on/off).
  - Maintenance alert settings include vacuum pump oil change, refrigeration cleaning, total operating hours and line voltage offset.
  - Level-specific security lock-out prevents changes to programs and other system parameters.
- Hot gas defrost with auto shut off at +60° C (+140° F).
- On/standby switch.
- Moisture sensor that prevents refrigeration or vacuum start-up when moisture is detected in the drain line.
- Vacuum control valve that maintains vacuum level set point.
- Vacuum break valve that bleeds air into the system when power to the freeze dryer or vacuum pump is shut off. If a power outage less than approximately 5 minutes occurs, the freeze dryer will restart and the refrigeration and vacuum system will resume operation once power is restored. If the power failure is more than approximately 5 minutes and the collector warms above safe limits, the freeze dryer will not automatically restart.
- Side-mounted USB port and rear-mounted Ethernet connection.
- Front-mounted, quick-disconnect drain hose fitting and side-mounted lanyard with hose connector. 18", 1/4" ID silicone tubing and clamp included.
- Internal electrical receptacle for vacuum pump connection.
- 3-wire electrical cord with plug.
- 3/4" OD vacuum connection, 36" of 3/4" ID vacuum hose and two clamps.

#### Options Include

- PTFE-coated collector coil and chamber for processing involving corrosive compounds.
- Purge valve for isolating the vacuum pump from the freeze dryer.
- Built-in stainless steel mini vacuum drying chamber that includes 50-watt heater with microprocessor control to +60° C (+140° F), 3/4" thick clear acrylic lid and neoprene gasket. (Chamber is not cooled.)
- Region-specific electrical plug configurations.

#### Required Accessories (Not Included)

• Vacuum pump with a displacement of at least 98 L/min, 0.002 mBar ultimate pressure and fitting suitable for 3/4" ID vacuum hose.

- Tray dryer or other drying accessory.Freeze dry glassware if not bulk freeze drying.

## For Product Assistance



Joe Amoriello Sales Representative



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