FreeZone 12 Liter -84C Console Freeze Dryer

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Catalog Number: 711212110

Overview

FreeZone 12 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 12 liters of ice before defrosting. Two 3/4 hp HCFC/CFC-free refrigeration systems cool the collector to -84° C (-119° F), suitable for low eutectic point samples including acetonitrile.

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 touchscreen. Models with PTFE-coated collectors that can withstand corrosive compounds are available. Built-in options include purge valve and mini chamber.

- 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: 350.0 lbs

• Weight metric: 158.8 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: -84° C, -119° F

• Conformance: CAN/CSA C22.2, UL

• Ice Holding Capacity: 12L

 Options Included: Corrosion-Resistant Collector, Purge Valve

• 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 12L of ice before defrosting. Stainless steel 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 touchscreen 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, German, French, Italian, Chinese, Japanese, Portuguese), 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



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