



FreeZone 12 Liter -84C Console Freeze Dryers with Stoppering Tray Dryers

FreeZone 12 Liter Console Freeze Dryers with Stoppering Tray Dryers are designed for lyophilizing moderate to large loads and stoppering vials or serum bottles under vacuum. The console features a front viewing window and interior space for a vacuum pump (sold separately).



The console's upright stainless steel collector coil is capable of holding 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.

The Stoppering Tray Dryer features three 16.5 x 12" processing shelves. A single 1 hp HCFC/CFC-free refrigeration system and 1000 watt electric heater cool and heat the fluid medium circulating through channels in the shelves.

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Include Stoppering Tray Dryer to lyophilize and stopper vials under vacuum. Lyo-Works™ OS provides remote notification and data collection on freeze dryer. Suitable for lyophilizing low eutectic point samples.

Additional Features & Specifications

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.
- [FreeZone Stoppering Tray Dryer](#).
- Brushed stainless steel and glacier white, powder-coated 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.

- 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

Options Include

- PTFE-coated collector coil and chamber for processing involving corrosive compounds.
- Purge valve for isolating the vacuum pump from the freeze dryer.
- Region-specific electrical plug configurations.

Required Accessories (Not Included)

- 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.
- Freeze dry glassware if not bulk freeze drying.

[FreeZone 12 Liter -84C Console Freeze Dryer with Stoppering Tray Dryer](#)

Catalog # 711221010



Region: U.S. and Canada, International
Collector Temperature: -84° C, -119° F
Ice Holding Capacity: 12L
Options Included: Stoppering Tray Dryer
Plug Type: North America, 230V
Style: Console

[FreeZone 12 Liter -84C Console Freeze Dryer with Stoppering Tray Dryer](#)

Catalog # 711221015



Region: International
Collector Temperature: -84° C, -119° F
Ice Holding Capacity: 12L
Options Included: Stoppering Tray Dryer
Plug Type: Saudi Arabia
Style: Console

[FreeZone 12 Liter -84C Console Freeze Dryer with Stoppering Tray Dryer](#)

Catalog # 711221030



Region: International
Collector Temperature: -84° C, -119° F
Ice Holding Capacity: 12L
Options Included: Stoppering Tray Dryer
Plug Type: Schuko
Style: Console

[FreeZone 12 Liter -84C Console Freeze Dryer with Stoppering Tray Dryer](#)

Catalog # 711221040



Region: International
Collector Temperature: -84° C, -119° F
Ice Holding Capacity: 12L
Options Included: Stoppering Tray Dryer
Plug Type: China/Australia
Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711221050

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Stoppering Tray
Dryer

Plug Type: British (UK)

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711221070

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Stoppering Tray
Dryer

Plug Type: India

Style: Console

[FreeZone 12 Liter -84C Console](#)



Catalog # 711222010

Region: U.S. and Canada,
International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering Tray
Dryer

Plug Type: North America, 230V

Style: Console

[FreeZone 12 Liter -84C Console](#)



Catalog # 711222015

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering Tray
Dryer

Plug Type: Saudi Arabia

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711222030

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering Tray
Dryer

Plug Type: Schuko

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711222040

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering Tray
Dryer

Plug Type: China/Australia

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711221110

Region: U.S. and Canada,
International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer
Plug Type: North America, 230V
Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711221115

Region: International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer
Plug Type: Saudi Arabia
Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711221130

Region: International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer
Plug Type: Schuko
Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711221140

Region: International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer
Plug Type: China/Australia
Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711221150

Region: International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711221170

Region: International
Collector Temperature: -84° C,
-119° F
Ice Holding Capacity: 12L
Options Included: Purge Valve,
Stoppering Tray Dryer

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711222110

Region: U.S. and Canada,
International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: North America, 230V

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711222130

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: Schuko

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer](#)



Catalog # 711222150

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: British (UK)

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711222115

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: Saudi Arabia

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711222140

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: China/Australia

Style: Console

[FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tra
Dryer](#)



Catalog # 711222170

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Resistant Collector, Purge Valve,
Stoppering Tray Dryer

Plug Type: India

Style: Console

FreeZone 12 Liter -84C Console
Freeze Dryer with Stoppering Tray
Dryer



Catalog # 711222050

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering Tray
Dryer

FreeZone 12 Liter -84C Console
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Catalog # 711222070

Region: International

Collector Temperature: -84° C,
-119° F

Ice Holding Capacity: 12L

Options Included: Corrosion-
Resistant Collector, Stoppering
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