



FreeZone 18 Liter -50C Console Freeze Dryers

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, an 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° C (-58° 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.

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Compatible with optional End-Zone™ end point detection. Lyo-Works™ OS provides remote notification and data collection from freeze dryer. Suitable for lyophilizing aqueous samples.

Additional Features & Specifications

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

- 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.

[FreeZone 18 Liter -50C Console](#)



Catalog # 701811010

Region: U.S. and Canada,
International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: North America, 230V

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811030

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: Schuko

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811050

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: British (UK)

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812010

Region: U.S. and Canada,

[FreeZone 18 Liter -50C Console](#)



Catalog # 701811015

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: Saudi Arabia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811040

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: China/Australia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811070

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Plug Type: India

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812015

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: North America, 230V

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812030

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: Schuko

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812050

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: British (UK)

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701811110

Region: U.S. and Canada,

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: Saudi Arabia

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812040

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: China/Australia

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812070

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-
Resistant Collector

Plug Type: India

Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701811115

Region: International

Collector Temperature: -50° C,

-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: North America, 230V

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811130

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: Schuko

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811150

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: British (UK)

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812110

Region: U.S. and Canada,
International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: Saudi Arabia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811140

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: China/Australia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811170

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve

Plug Type: India

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812115

Region: International

Collector Temperature: -50° C,
-58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-

Resistant Collector, Purge Valve
Plug Type: North America, 230V
Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812130

Region: International
Collector Temperature: -50° C,
-58° F
Ice Holding Capacity: 18L
Options Included: Corrosion-
Resistant Collector, Purge Valve
Plug Type: Schuko
Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812150

Region: International
Collector Temperature: -50° C,
-58° F
Ice Holding Capacity: 18L
Options Included: Corrosion-
Resistant Collector, Purge Valve
Plug Type: British (UK)
Style: Console

Plug Type: Saudi Arabia
Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812140

Region: International
Collector Temperature: -50° C,
-58° F
Ice Holding Capacity: 18L
Options Included: Corrosion-
Resistant Collector, Purge Valve
Plug Type: China/Australia
Style: Console

[FreeZone 18 Liter -50C Console
Freeze Dryer](#)



Catalog # 701812170

Region: International
Collector Temperature: -50° C,
-58° F
Ice Holding Capacity: 18L
Options Included: Corrosion-
Resistant Collector, Purge Valve
Plug Type: India
Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811210

Region: U.S. and Canada, International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: North America, 230V

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811215

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: Saudi Arabia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811230

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: Schuko

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811240

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: China/Australia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811250

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: British (UK)

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701811270

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Purge Valve, Mini Chamber

Plug Type: India

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812210

Region: U.S. and Canada, International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector,

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812215

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector

Plug Type: North America, 230V

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812230

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector,
Purge Valve, Mini Chamber

Plug Type: Schuko

Style: Console

Plug Type: Saudi Arabia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812240

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector
Purge Valve, Mini Chamber

Plug Type: China/Australia

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812250

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector,
Purge Valve, Mini Chamber

Plug Type: British (UK)

Style: Console

[FreeZone 18 Liter -50C Console Freeze Dryer](#)



Catalog # 701812270

Region: International

Collector Temperature: -50° C, -58° F

Ice Holding Capacity: 18L

Options Included: Corrosion-Resistant Collector
Purge Valve, Mini Chamber

Plug Type: India

Style: Console

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