



# FreeZone 18 Liter -50C Console Freeze Dryers with Stoppering Tray Dryers

FreeZone 18 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 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.

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.



Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://labconco.nt-rt.ru/> || [bon@nt-rt.ru](mailto:bon@nt-rt.ru)

Lyo-Works™ OS provides remote notification and data collection on freeze dryer. Include Stoppering Tray Dryer to lyophilize and stopper vials under vacuum. 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.
- [FreeZone Stoppering Tray Dryer](#).
- 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.
- 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 18 Liter -50C Console Freeze Dryer with Stoppering Tray



**Catalog # 701821010**

**Region:** U.S. and Canada,  
International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** North America, 230V

**Style:** Console

#### FreeZone 18 Liter -50C Console Freeze Dryer with Stoppering Tray



**Catalog # 701821015**

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** Saudi Arabia

**Style:** Console

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



**Catalog # 701822150**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

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



**Catalog # 701821030**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** Schuko

**Style:** Console

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



**Catalog # 701821050**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** British (UK)

**Style:** Console

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



**Catalog # 701822010**

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



**Catalog # 701822170**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

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



**Catalog # 701821040**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** China/Australia

**Style:** Console

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



**Catalog # 701821070**

**Region:** International

**Collector Temperature:** -50° C,

-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Stoppering Tray  
Dryer

**Plug Type:** India

**Style:** Console

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

**Catalog # 701822015**



**Region:** U.S. and Canada,  
International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** North America, 230V

**Style:** Console

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



**Catalog #** 701822030

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** Schuko

**Style:** Console

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



**Catalog #** 701822050

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** British (UK)

**Style:** Console



**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** Saudi Arabia

**Style:** Console

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



**Catalog #** 701822040

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** China/Australia

**Style:** Console

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



**Catalog #** 701822070

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

**Options Included:** Corrosion-  
Resistant Collector, Stoppering Tray  
Dryer

**Plug Type:** India

**Style:** Console

[Freeze Dryer with Stoppering Tray Dryer](#)



**Catalog # 701821110**

**Region:** U.S. and Canada,  
International  
**Collector Temperature:** -50° C,  
-58° F  
**Ice Holding Capacity:** 18L  
**Options Included:** Purge Valve,  
Stoppering Tray Dryer  
**Plug Type:** North America, 230V  
**Style:** Console

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



**Catalog # 701821130**

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

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



**Catalog # 701821150**

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

[Freeze Dryer with Stoppering Tray Dryer](#)



**Catalog # 701821115**

**Region:** International  
**Collector Temperature:** -50° C,  
-58° F  
**Ice Holding Capacity:** 18L  
**Options Included:** Purge Valve,  
Stoppering Tray Dryer  
**Plug Type:** Saudi Arabia  
**Style:** Console

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



**Catalog # 701821140**

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

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



**Catalog # 701821170**

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



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



**Catalog # 701822110**

**Region:** U.S. and Canada,  
International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

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

**Plug Type:** North America, 230V

**Style:** Console

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



**Catalog # 701822130**

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

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

**Plug Type:** Schuko

**Style:** Console

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



**Catalog # 701822115**

**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

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

**Plug Type:** Saudi Arabia

**Style:** Console

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



**Region:** International

**Collector Temperature:** -50° C,  
-58° F

**Ice Holding Capacity:** 18L

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

**Plug Type:** China/Australia

**Style:** Console

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Волгодга (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://labconco.nt-rt.ru/> || [bon@nt-rt.ru](mailto:bon@nt-rt.ru)