

FreeZone® 18 Liter Freeze Dry System Specifications

7755000 FreeZone 18 Liter Console Freeze Dry System

Cabinet, 36 1/2" h x 31 7/8" w x 28" d (92.7 x 81 x 71 cm), shall be glacier white and charcoal epoxy-coated steel with 3/4" black phenolic work surface. Cabinet shall include four 3-inch diameter hard rubber casters and 3-inch diameter attachment port in work surface for connection of accessories. Removable front panel shall allow access to refrigeration components and vacuum pump. Operating instruction label shall be mounted on the front panel. Three feet of 3/4" ID vacuum hose and two clamps shall be included.

Collector shall be stainless steel coil capable of collecting 18 liters of ice before defrosting. System shall remove up to 12 liters of water in 24 hours. Collector shall have clear 3/4-inch thick acrylic cover to allow ice collection on the coil to be monitored. The collector cover shall be located in work surface in front of the attachment port to allow an unobstructed view of the collector when drying accessories are attached. Retractable 9-inch condensate drain line shall be accessible from front of cabinet to facilitate defrost. A 1 hp, CFC-free refrigeration system shall cool collector to -50° C (-58° F).

Defroster shall be electric heater surrounding the collector chamber to melt ice on the collector coil.

Instrumentation and Controls shall include an LCD for display of system vacuum (10^{-3} mBar), collector temperature (° C) and alarm messages. A MENU switch shall change the display from system parameters to alarm message(s). LED vacuum and temperature "wave" graphs shall display relative system vacuum and collector temperature. Front panel shall have a power switch and touchpad switches with indicator lights for automatic refrigeration/vacuum, manual refrigeration, manual vacuum and defrost. Front panel shall also include a standard 8 pin DIN recorder jack and alarm light.

Electrical Requirements, 208/230 volts, 60 Hz, single phase, 7.5 amps without accessory vacuum pump. A 230 volt electrical receptacle shall be located on the back of the cabinet to connect the vacuum pump to the system. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 345 lbs. (156 kg)

***7755001 FreeZone 18 Liter Console Freeze Dry System**

Specifications are the same as for 7755000 except for the following changes.

Electrical Requirements, 230 volts, 50 Hz, 7.5 amps without accessory vacuum pump. A 230 volt electrical receptacle shall be located on the back of the cabinet to connect the vacuum pump to the system. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Agency Approval. System shall have CE conformity marking as set by the European Community for electrical safety and electromagnetic compatibility.

7755003 FreeZone 18 Liter Console Freeze Dry System with Teflon*-Coated Collector

Specifications are the same as for 7755000 except for the following changes.

Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

* International Electrical Configuration

* Teflon® is a registered trademark of E. I. duPont de Nemours

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7755010 FreeZone 18 Liter Console Freeze Dry System with Purge Valve

Specifications are the same as for 7755000 except for the following changes.

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that contaminants can be purged from vacuum pump oil. If power failure occurs, the purge valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

* **7755011 FreeZone 18 Liter Console Freeze Dry System with Purge Valve**

Specifications are the same as for 7755000 except for the following changes.

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that contaminants can be purged from vacuum pump oil. If power failure occurs, the purge valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

Electrical Requirements, 230 volts, 50 Hz, 7.5 amps without accessory vacuum pump. A 230 volt electrical receptacle shall be located on the back of the cabinet to connect the vacuum pump to the system. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included).** A 220/208-230

volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).

Agency Approval. System shall have CE conformity marking as set by the European Community for electrical safety and electromagnetic compatibility.

7755013 FreeZone 18 Liter Console Freeze Dry System with Purge Valve and Teflon-Coated Collector

Specifications are the same as for 7755000 except for the following changes.

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that contaminants can be purged from vacuum pump oil. If power failure occurs, the purge valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

7755500 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat trans-

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fer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer bath (° C).

Electrical Requirements, 208/230 volts, 60 Hz, single phase, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 395 lbs. (179 kg)

* 775501 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat transfer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer bath temperature (° C).

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Electrical Requirements, 230 volts, 50 Hz, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Agency Approval. System shall have CE conformity marking as set by the European Community for electrical safety and electromagnetic compatibility.

Shipping weight 395 lbs. (179 kg)

775503 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer and Teflon-Coated Collector

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat transfer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer bath temperature (° C).

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Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

Electrical Requirements, 208/230 volts, 60 Hz, single phase, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50/60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 395 lbs. (179 kg)

7755510 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer and Purge Valve

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat transfer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer bath temperature (° C).

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that contaminants can be purged from vacuum pump oil. If power failure occurs, the purge valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil

from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

Electrical Requirements, 208/230 volts, 60 Hz, single phase, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 395 lbs. (179 kg)

7755511 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer and Purge Valve

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat transfer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer bath temperature (° C).

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that contaminants can be purged from vacuum pump oil. If power failure occurs, the purge

* International Electrical Configuration

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valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

Electrical Requirements, 230 volts, 50 Hz, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 395 lbs. (179 kg)

7755513 FreeZone 18 Liter Console Freeze Dry System with Shell Freezer, Purge Valve and Teflon-Coated Collector

Specifications are the same as for 7755000 except for the following changes.

Shell Freezer shall have stainless steel bath with 2-inch thick urethane foam insulation. Freezer shall include two rollers to rotate flasks up to 1200 ml. Bath shall measure 12" 1 x 5 1/2" w x 7/12" d (30.5 x 14 x 19 cm). Retractable 9-inch drain line shall be accessible from front of cabinet to facilitate cleaning.

Shell Freezer Refrigeration shall be 1/4 hp, CFC-free refrigeration system to cool heat transfer solution below -40° C (-40° F). System shall be independent and separate from collector refrigeration.

Shell Freezer Instrumentation and Controls shall include touchpad switch with indicator light for shell freezer refrigeration and roller rotation control. The indicator light shall illuminate green when the shell freezer is operating. The LCD shall display shell freezer refrigeration temperature in ° C.

Purge Valve shall be located between the collector and the vacuum pump connection. When closed, the purge valve shall isolate the vacuum pump from the freeze dry system so that

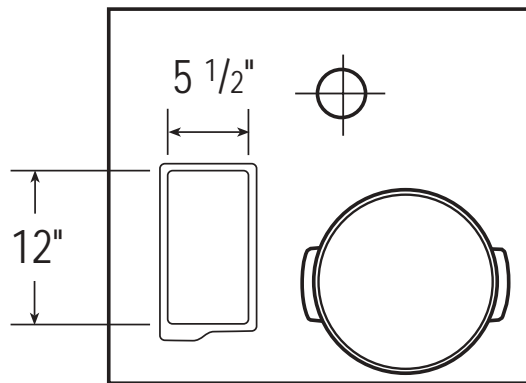
contaminants can be purged from vacuum pump oil. If power failure occurs, the purge valve shall close to trap the vacuum in the chamber and help prevent vacuum pump oil from back streaming into the collector. Front panel shall include a purge valve switch with an indicator light that illuminates green when purge valve is closed.

Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

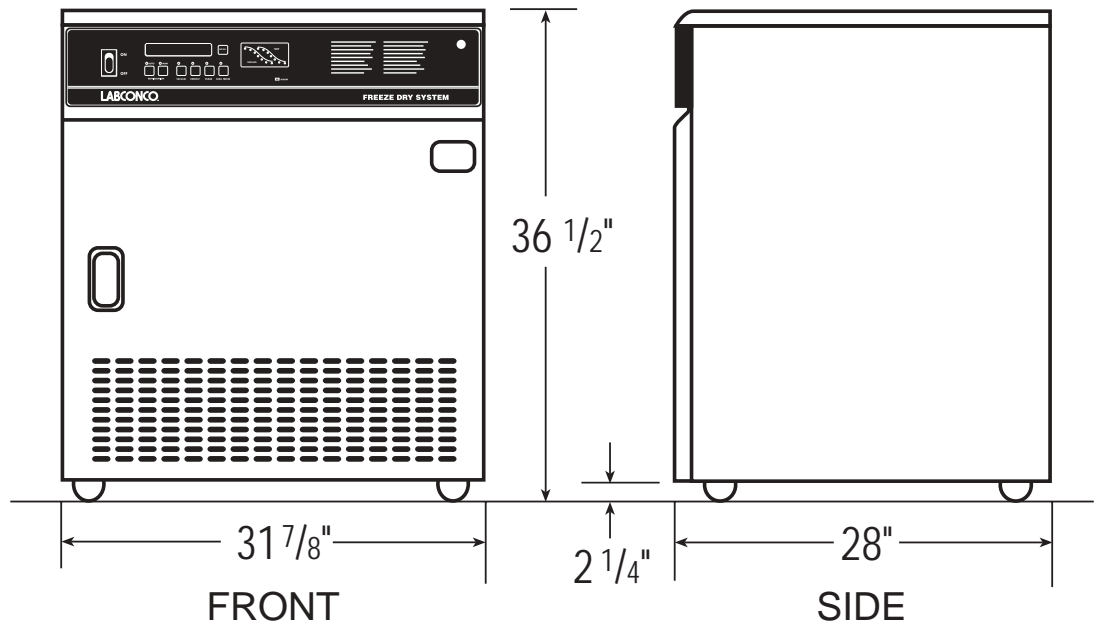
Electrical Requirements, 208/230 volts, 60 Hz, single phase, 10.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Shipping weight 395 lbs. (179 kg)

FreeZone[®] 18 Liter Freeze Dry System Dimensional Data



TOP



FRONT

SIDE

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