

# Straw Inventory System

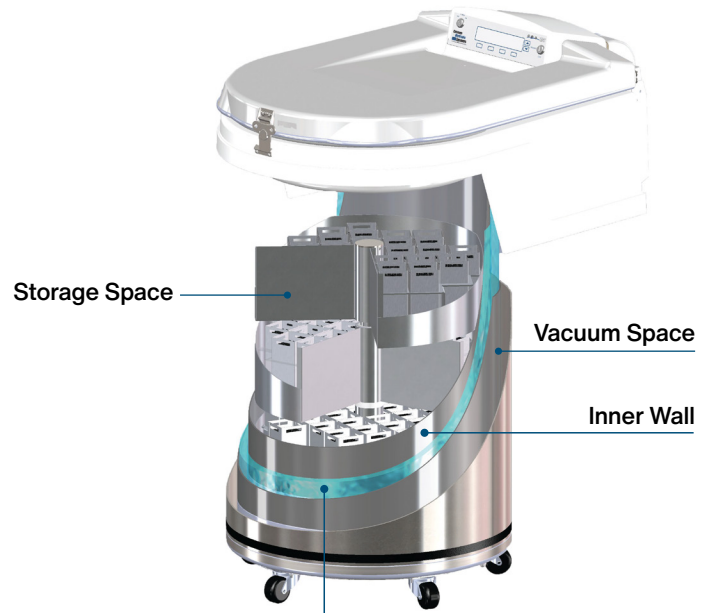
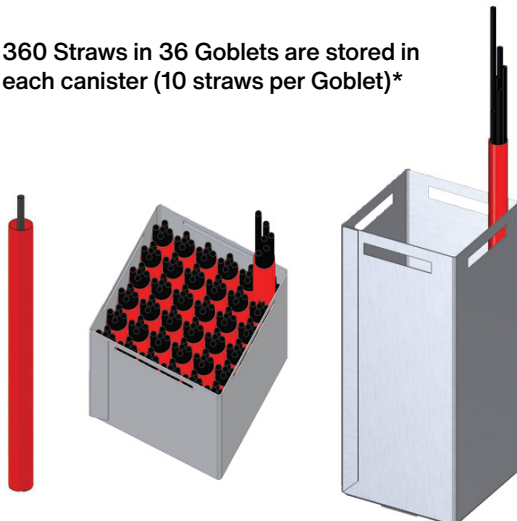
**Dry Storage – Designed for the CBS V-1500 and V-3000 Isothermal freezer.**  
**This unique Inventory System provides an efficient solution for storing and working with straws, in a liquid nitrogen free chamber.**

## Features:

- Isothermal V-Series freezers provide temperature uniformity top to bottom with jacketed technology. The jacketed space around the chamber keeps the liquid nitrogen (LN2) away from your samples and staff.
- Three level rotating carousel provides convenient inventory control and maximizes storage space.
- The middle and lower levels are ideal for medium and long-term storage.
- The top, upper level can be used as storage and as a workspace for viewing and manipulating samples.
- Easy and safe retrieval of samples using our engineer-designed retrieval tool.



360 Straws in 36 Goblets are stored in each canister (10 straws per Goblet)\*



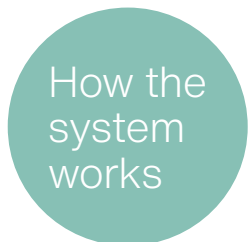
Innovative LN2 jacket allows for a completely dry storage space

*\*Maximum capacity is subject to straw diameter.  
Straws and goblets are not supplied.*

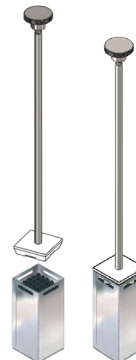
## Why is dry storage important?

**Safety.** Dry storage eliminates LN2 contact with your samples and staff. This unique Isothermal design provides user safety by eliminating contact due to splashing of LN2.

**Cross Contamination.** Studies have shown that viral, bacterial and fungal pathogens can survive after suspension in liquid nitrogen. Infected samples can cross contaminate other samples in the same liquid nitrogen tank. Dry storage greatly reduces the possibility of cross contamination.



The upper level provides a convenient workspace where canisters can be parked and samples inspected



By turning the Retractor Knob, the blade rotates and engages in the slots of the canister for easy, safe removal from the freezer



Capacity (.25mL straws in 9.5 mm goblets)		V-1500AB	V-3000AB
Top Level	canisters / .25mL straws	18 / 7,200	51 / 18,360
Mid Level	canisters / .25mL straws	18 / 7,200	51 / 18,360
Lower Level	canisters / .25mL straws	28 / 10,080	68 / 24,480
Total	canisters / .25mL straws	64 / 24,480	170 / 61,200

**Note:** Maximum capacity is subject to straw diameter. Straws and goblets are not supplied.

## Our 2301 SmartTouch Controller is time-tested, reliable and designed to keep your sample storage safe and secure.

### New Features

- Touch screen display to easily set temperature controls and display settings.
- Modbus enabled
- Programmable lid alarm to alert when lid is left open for user specified time.

### 16 Port Connector

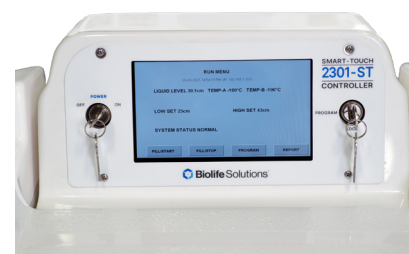
- 0-5 volt outputs provide temperature and level data for connection to existing alarm/ monitoring system.
- 4-20 mA outputs provide temperature and level data for connection to existing alarm/ monitoring system.
- Sequential and OFAF input and output connection for filling systems.

### Additional Features

- Dedicated 24 Vdc signal output to activate one TS-1B LN2 liquid supply tank switcher or activate a third 24 Vdc valve to control the LN2 supply.
- **Global Remote Alarm** - Dry contact that switches during any alarm condition.
- **Fill Timer** - Records 12 alarms and events such as fill start, fill stop, etc. with dated time stamp printed or displayed.
- **Data Log** - Report Temp. A, Temp. B and level with date and time stamp printed or displayed via a thermal printer port.
- Ethernet and auxiliary RS485 for future expansion.

### Two-Level Temperature Display

- Temp. A displays temperature at the lid, approximately 12" (30.5 cm).
- Temp. B displays temperature inside the storage space, approximately 20" (50.80 cm).



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Storage Solutions

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