QUICK START GUIDE

Abeyance Cryo Solutions | *Preserving Potential*

Abeyance Cryo Freezers are designed for safe and efficient storage of biological samples in liquid nitrogen (LN2) vapor at -190°C (-310°F). This is a stainless steel, vacuum-insulated, non pressurized Dewar. The control system automatically maintains the LN2 level inside the freezer while monitoring and logging storage conditions. LN2 must be regularly replenished in order for the freezer to maintain its cooling function. If LN2 is depleted and not replenished, the freezer will slowly warm and eventually reach ambient temperature.

Abeyance Cryo Freezers arrive ready for a plug and play setup. The control system is installed with temperature and level sensors factory calibrated. A convenient initial fill routine suppresses alarms as the freezer cools down. The initial fill is longer and uses more LN2 than a normal fill.

Installation Checklist	
☐	Outlet power: 110-230 VAC, 50-60 Hz
☐	LN2 supply: 22-35 PSI (1.5-2.4 bar), sufficient volume for initial fill/cool down: A220: 180 L A440: 230 L A700: 410 L A1000: 460 L
☐	LN2 transfer hose connected
☐	Sufficient ventilation for LN2 service; oxygen monitoring installed, if required
☐	Freezer on level floor with sufficient load support
☐	Minimum clearance: 6 in. (152 mm) all sides and 35 in. (889 mm) above lid
☐	Seismic restraints installed, if required
☐	User and safety training plan in place
☐	Routine LN2 resupply scheduled
☐	Routine, manual verification of freezer and LN2 supply plan in place

LN2 safety precautions must be followed; refer to the Cryo Freezer Manual (PN DO-0001)
Conforms to UL STD 61010-1 | CSA STD C22.2 # 61010-1 | LVD (2014/35/EU)

Setup and Initial Fill

The initial fill can take 1-2 hours. When complete, normal controller operation will maintain LN2 levels while monitoring and logging storage conditions. Allow the freezer to cool for 48 hours before introducing samples. Routinely verify freezer status and ensure sufficient LN2 supply.

- Connect to a WiFi network on the Network Settings tab
  - The freezer will automatically push data to the cloud when connected to WiFi
- Setup text and email notifications on the Notifications Settings tab
  - The freezer must be connected to WiFi for text and email notifications to be sent
- Setup lid access control on the Advanced Settings tab and add users on User Settings tab
- Alarm contacts are available on the back of the display for local or building monitoring
- Independent temperature and level monitoring is supported
- The default Admin password is “8888” and can be changed on the Advanced Settings tab

Freezer status following 48 hour initial cool down:

Top Temp: _____ Bot Temp: _____ LN2 Level: _____ LN2 Usage: _____

Date: _____ Time: _____

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