

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 preinstalled with temperature and level sensors factory calibrated. A convenient initial fill routine avoids nuisance alarms as the freezer cools down. The initial fill takes longer and uses more LN2 than a normal fill. The freezer should be installed in an area appropriate for LN2 service with adequate ventilation, oxygen monitoring, and an even floor with sufficient load support. Please see the manual for more information.

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



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Setup and Initial Fill



Following the initial fill, normal controller operation will continue to maintain LN2 levels while monitoring and logging storage conditions. Allow the freezer to cool for 48 hours prior to introducing samples. Routinely verify freezer LN2 level and ensure sufficient LN2 supply volume and pressure.

	A220	A440	A700	A1000
LN2 for Initial Fill and Cool Down	180 L	230 L	410 L	460 L

Connect to a WiFi network by navigating to the Settings Network tab. The freezer will automatically push data to the cloud when connected to WiFi. Setup text and email notifications by navigating to the Settings Notifications tab. The freezer must be connected to WiFi for text and email notifications to be sent. Dry alarm contacts are also available on the back of the controller for local or building systems. Independent temperature and level monitoring is supported. The default controller password is “8-8-8-8” and can be changed by navigating to the Advanced Settings tab.

