

GELIDA LITE

AN INTELLIGENT LN2 TANK

A liquid nitrogen storage system with 24/7 wireless monitoring



Wireless sensors monitor real-time temp. and LN2



Real-time audio, visual and digital alarms



Visual tank alert for sample location*



Remote tank management with PDA and App



Single or dual tank access authentication



Centralized management via BaseStation software



Model

Gelida Lite for straws
Gelida Lite for vials

Capacity

47 L (10 canisters/
6 box racks)

Net weight

Approx 20 kg

Touch screen

5 inch color
touch display

- **Wireless:**

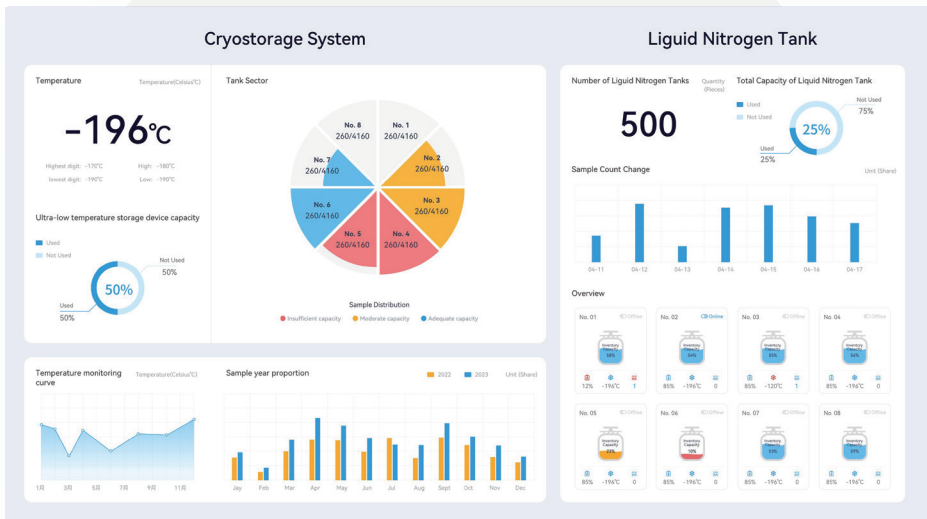
- Real-time PDA tank monitoring and reporting.
- Automatic BaseStation App alarm and warning notifications.
- Tank, canister, cane/box, and sample locations displayed on PDA.
- Zero external tank wiring.

- **Security:**

- Automatic logging of all alarms and warnings.
- Two internal tank LN2 sensors (high and low).
- All lid openings/closings are logged.

- **Convenience:**

- Remotely lock and unlock multiple tanks at once.
- Quick recall of tank condition and status.
- Real-time monitoring, alerts and warnings on devices.
- Intelligent touchscreen design of tank lid with quick swap battery access.



GELIDA LITE CONFIGURATIONS

MODEL	GELIDA LITE (STRAWS)	GELIDA LITE (VIALS)
Capacity	47 L	
Bare weight	44 lbs (~20 kg)	
Full weight	128 lbs (~58 kg)	
Neck diameter	5 in (127 mm)	
Outer diameter	19.685 in (Approx 500 mm)	
Height	27.95 in (Approx 710 mm)	
Storage container type For the straws, LxDiameter and vials DxWxH	Canister per tank 10.95 x 2.83 in 278 x 72 mm	Racks per tank 3.07 x 3.07 x 2.32 in Box Size 78 x 78 x 59 mm
Amount	10 L	6 L
Screen size	5-in colour 1280 x 720 capacitive multi touch	
Power supply	Battery: 5VDC Lithium Polymer Battery Charging Adapter: 100-240V~,50/60Hz,0.5A	
Charging Hub	Charging slots for up to 5 batteries	
Battery	1 spare battery Battery life up to 15 days	
Unlocking mode	Digital password lock (single/dual authentication) Emergency access key	
Operation log	Automatic recording	
Alarms	Out of range temperature Low battery/loss of electricity Excessive tank open time	
Mode of data transmission	WiFi 802.11b/g/n AES-256 encryption algorithm	
Number of temperature sensors	2 High position and low position within tank dewar Storage temperature -196 C Liquid Phase LN2	

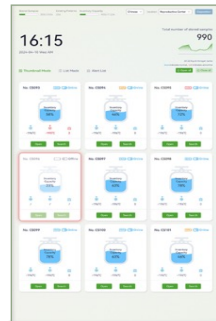
Specifications for USA market are subject to regulatory approval and final product release.

GELIDA LITE BASESTATION SOFTWARE

GELIDA BASESTATION SOFTWARE

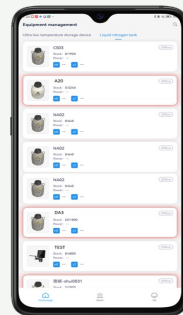
All your cryotank information, visualised in one place. Centralised management and monitoring enables a quick view of the temperatures, capacity, battery level, and alarms.

Tanks can be remotely controlled and located through the interface, offering features such as remote single/multi-tank unlocking and "find my tank."



BASESTATION App Remote monitoring and alerts.

The BaseStation App can be installed on Android mobile devices, enabling faster and response when abnormal conditions arise. Remotely view tank status, such as tank temperature, capacity, notification and alarm information.



GELIDA BASESTATION PDA BaseStation features in the palm of your hand.

The BaseStation PDA is a workstation you can take with you. Users can monitor tanks. Add, remove and locate samples from inventory, plus lock and unlock tanks from this hand-held device. Create sample deposit and withdrawal orders, and identify sample location on the screen; the inbuilt precision saves time and supports error reduction efforts.



Device	Device name	Temp	Upper water temperature (°C)	Lower water temperature (°C)	Battery level	Light level
1	8108	20.0	19.0	18.0	100%	High
2	8108	20.0	19.0	18.0	100%	High
3	8108	20.0	19.0	18.0	100%	High
4	8108	20.0	19.0	18.0	100%	High
5	8108	20.0	19.0	18.0	100%	High
6	8108	20.0	19.0	18.0	100%	High
7	8108	20.0	19.0	18.0	100%	High
8	8108	20.0	19.0	18.0	100%	High
9	8108	20.0	19.0	18.0	100%	High
10	8108	20.0	19.0	18.0	100%	High
11	8108	20.0	19.0	18.0	100%	High
12	8108	20.0	19.0	18.0	100%	High
13	8108	20.0	19.0	18.0	100%	High
14	8108	20.0	19.0	18.0	100%	High
15	8108	20.0	19.0	18.0	100%	High
16	8108	20.0	19.0	18.0	100%	High
17	8108	20.0	19.0	18.0	100%	High
18	8108	20.0	19.0	18.0	100%	High
19	8108	20.0	19.0	18.0	100%	High
20	8108	20.0	19.0	18.0	100%	High

Device Management: Add, remove or edit basic device information, view tank capacity, tank status information, alarms, and retrieve access/operation records.

Sample	Sample name	Batch	Batch name	Batch type	Freezing time (min)	Freezing date	Location	Storage time	Storage date	Status
1	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
2	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
3	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
4	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
5	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
6	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
7	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
8	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
9	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
10	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK

Single Sample Tracking: Sample information can be viewed and filtered, using name, freezing time, sample unique ID, with traceability down to location where a single sample is stored within a tank.

Device	Device name	Batch	Batch name	Batch type	Freezing time (min)	Freezing date	Location	Storage time	Storage date	Status
1	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
2	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
3	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
4	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
5	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
6	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
7	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
8	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
9	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK
10	8108	100	100000	100000	100000	100000	1000000000	1000000000	1000000000	OK

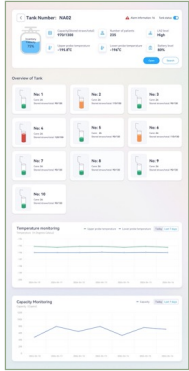
Sample Status: Add deposit and withdrawal orders, select where to store a single sample, which samples to take out, and record all access statistics for trackability.

Device	Device name	Alert name	Alert content	Location	Alert time	Alert content	Alert resolution	Alert resolution time
1	8108	Alert 1	Alert 1 content	Location 1	2023-10-27 10:00	Alert 1 content	Alert 1 resolution	2023-10-27 11:00
2	8108	Alert 2	Alert 2 content	Location 2	2023-10-27 10:00	Alert 2 content	Alert 2 resolution	2023-10-27 11:00
3	8108	Alert 3	Alert 3 content	Location 3	2023-10-27 10:00	Alert 3 content	Alert 3 resolution	2023-10-27 11:00
4	8108	Alert 4	Alert 4 content	Location 4	2023-10-27 10:00	Alert 4 content	Alert 4 resolution	2023-10-27 11:00
5	8108	Alert 5	Alert 5 content	Location 5	2023-10-27 10:00	Alert 5 content	Alert 5 resolution	2023-10-27 11:00
6	8108	Alert 6	Alert 6 content	Location 6	2023-10-27 10:00	Alert 6 content	Alert 6 resolution	2023-10-27 11:00
7	8108	Alert 7	Alert 7 content	Location 7	2023-10-27 10:00	Alert 7 content	Alert 7 resolution	2023-10-27 11:00
8	8108	Alert 8	Alert 8 content	Location 8	2023-10-27 10:00	Alert 8 content	Alert 8 resolution	2023-10-27 11:00
9	8108	Alert 9	Alert 9 content	Location 9	2023-10-27 10:00	Alert 9 content	Alert 9 resolution	2023-10-27 11:00
10	8108	Alert 10	Alert 10 content	Location 10	2023-10-27 10:00	Alert 10 content	Alert 10 resolution	2023-10-27 11:00

Alert Information: You can view the alarm status of all devices, including the device name, alert time, location, alert content, issued notifications, alarm history, and whether the alarm is resolved.

Device	Device name	User name	User ID	User role	User access time	User access date
1	8108	User 1	100000	User 1 role	2023-10-27 10:00	2023-10-27
2	8108	User 2	100000	User 2 role	2023-10-27 10:00	2023-10-27
3	8108	User 3	100000	User 3 role	2023-10-27 10:00	2023-10-27
4	8108	User 4	100000	User 4 role	2023-10-27 10:00	2023-10-27
5	8108	User 5	100000	User 5 role	2023-10-27 10:00	2023-10-27
6	8108	User 6	100000	User 6 role	2023-10-27 10:00	2023-10-27
7	8108	User 7	100000	User 7 role	2023-10-27 10:00	2023-10-27
8	8108	User 8	100000	User 8 role	2023-10-27 10:00	2023-10-27
9	8108	User 9	100000	User 9 role	2023-10-27 10:00	2023-10-27
10	8108	User 10	100000	User 10 role	2023-10-27 10:00	2023-10-27

User Management: Manage authorised users for all tanks in a central location. User names and passwords can be updated, deleted, and synced to all connected tanks.



Simplified Visuals: Quickly view the temperatures, capacity, battery level and alarms. Devices can be remotely controlled and quickly located; features include remote single/batch unlocking, and "Find My Tank".

Final appearance of features are subject to change; may vary depending on specific customer implementations, version of software and lab integrations.

The **Gelida System** enables lab staff to manage patient's samples all within the palm of their hand.



PRODUCT NAME	TYPE	CONFIGURATION
Gelida Lite BaseStation System	Package	Gelida BaseStation Software, Gelida BaseStation PDA; App
Gelida Lite BaseStation Software Basic	Software	Software (Centralised management of devices)
Gelida Lite BaseStation Software Professional	Software	Software (Centralised management of devices and samples)
BaseStation PDA	Accessory	-
App	Accessory	Only available on Android