CryoNestra

CRYOGENIC FREEZER

Vapor-Phase Liquid Nitrogen Tank

Safe, ultra-low-temperature sample storage

Product Overview

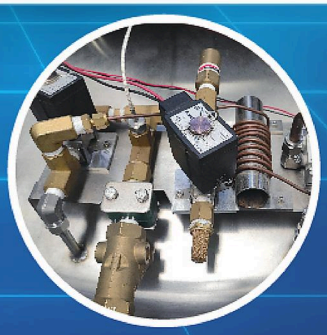
This vapor-phase liquid nitrogen storage system is designed for long-term biological sample preservation. It supports standard storage capacities from 20,000 to 94,000 vials (1.2 ml/2.0 ml) and maintains the sample area at -180 C to -190 C. Excellent vacuum insulation and automated operating controls help keep samples safe and stable over extended periods.

Key Features

- Dry vapor-phase storage reduces cross-contamination risk.
- Sample zone controlled within the -180 C to -190 C temperature range.
- Full-size operating platform with integrated step access.
- 10-inch high-definition touch screen for real-time status display.
- By-pass exhaust function for pipeline venting.
- Intelligent automatic defogging function.
- Platinum temperature probe with optional second probe; 0.1 C resolution.
- Differential-pressure liquid level gauge with 1 mm resolution.
- Optional iPoint cloud remote monitoring system.
- Reserved installation position for optional rack lifting device.







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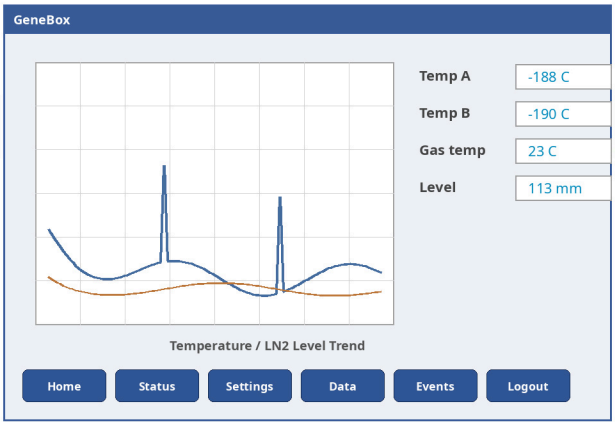
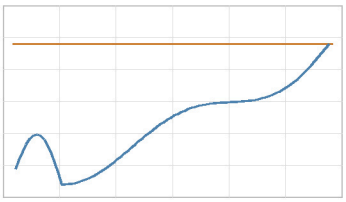
Cryofreezer Series Specifications

Category	Item	Unit	CF-200	CF-400	CF-800	CF-940
Dimensions	Overall height	mm	1764	1781	1806	1961
	1st step height	mm	300	250	285	285
	Height: 1st step to tank opening	mm	1107	1164	1156	1311
	2nd step height	mm	None	470	570	570
	Height: 2nd step to tank opening	mm	None	966	871	1046
	Outer diameter	mm	880	1160	1530	1530
	Internal working diameter	mm	750	1030	1400	1400
	Internal effective height	mm	755	755	755	910
	Tank opening diameter	mm	330	458	623	623
Installation	Equipment weight (without racks)	kg	305	425	710	780
	Shipping size (L x W x H)	mm	980x880x1764	1367x1160x1781	1749x1530x1806	1749x1530x1961
Use	Total volume	L	481	916	1755	2004
	LN2 capacity (below turntable)	L	62	157	327	327
	LN2 consumption	L/day	8	9	12	12
	LN2 supply pressure			22 psi across all models		
	Power supply		AC220V / 50Hz			
Capacity	Maximum vial capacity (1.2 & 2 ml)	pcs	19,500	41,600	80,925	93,375
	100-place rack quantity	pcs	14	30	60	60
	25-place rack quantity	pcs	4	8	9	9
	Rack layers	layers	13	13	13	15

*** Optional rack lifting device available.**

Controller Main Interface





Reliable temperature and level trend

A comprehensive and reliable controller system can record more than 40 event types and provides an easy-to-read visual home page. Users can quickly understand equipment operation status. USB data export supports local download. Local data storage and remote cloud backup enable long-term storage, monitoring and trend analysis. Visual charts synchronize equipment information and data so sample operating status, temperature, liquid level, lid opening and alarms are clear at a glance.