

LABS Series

The Benchmark in Biobanking

State-of-the art engineering design featuring:

- **High efficiency** – very low LN₂ consumption
 - LN₂ storage in either liquid or vapor phase
 - Near LN₂ temperatures maintained at top of inventory storage system for overall sample viability
- **Single pivot point aluminum turntable design** – smooth rotation and ergonomic use
 - Eliminates any mechanical component maintenance
 - Full height, segmented and labeled turntable provides easy inventory storage access and management
- **Hinged lid and stainless steel table top** – easy operation with a convenient working surface
 - The lid includes locking capabilities and activates an automatic defog for quick viewing of inventory storage
 - The table top provides a clear working surface and provides protection to electrical and plumbing components
- **Enhanced and intuitive controller technology** –
 - Discrete thermistor level measurement and thermocouple temperature resolution 0.1° C
 - Capabilities for data collection, event scheduling and enhanced security settings
 - Battery backup (optional) providing up to 72 hours of full-operational ability including automatic LN₂ filling



LABS Series

MODELS		20K	38K	40K	80K	94K
Dimensions						
External Operating Height (Top of Step to Lid opening)	in.	42	44	42	42	40
	mm	1067	1118	1067	1067	1016
Step Height ¹	in.	11	11.5	11	11	11/22
	mm	279	292	279	279	279/559
Height (Floor to Opening)	in.	53	56	53	53	63
	mm	1346	1422	1346	1346	1600
Usable Height, Internal	in.	30	30	30	30	35.75
	mm	762	762	762	762	908
Outside Diameter	in.	34	42	45	59.5	59.5
	mm	864	1067	1143	1511	1511
Internal Working Diameter	in.	29.5	37.8	40.5	55	55
	mm	750	959	1029	1397	1397
Neck Opening	in.	13	18	18	24.5	24.5
	mm	330	457	457	622	622
Capacity						
Total LN ₂ Capacity (Liquid Storage) L		407	626	606	1350	1630
Total LN ₂ Capacity (Vapor Storage) L		46	72	76	150	300
Power Supply ²	VAC	100/240	100/240	100/240	100/240	100/240
Weight, Empty	lb.	650	930	920	1550	1700
	kg	295	422	417	703	771
Maximum Gross Weight ³	lb.	1375	2050	2000	3956	4600
	kg	624	930	907	1794	2086
Inventory Control System Specifications						
No. 100/81 Cell Racks		14	26	30	58	60
No. Shelves/Rack		13	13	13	13	15
No. 25 Cell Racks		4	12	8	12	8
No. Shelves/Rack		13	13	13	13	15
Vial Capacity, 2 ml ⁴		19500	37700	41600	79300	93000
Bag 25 ml (7 Level Rack) ⁵		1624	2688	3108	5999	6856
Bag 50 ml (7 Level Rack) ⁵		924	1582	1876	3381	3864
Bag 250 ml (5 Level Rack) ⁶		500	900	990	1920	2304
Bag 500 ml (5 Level Rack) ⁶		420	690	830	1610	1932

Integral folding step with slip-resistant surface



All units include a mechanical step lock for securing the step when stowed⁷



6' Flexible Fill Hose with 1/2" I.D. includes dual swivel connectors and a 3/8" male NPT adaptor⁷

- ¹ LABS 94K features independent dual stainless steel folding steps. The dual steps are optional on the LABS 80K.
- ² Universal transformer reduces power to 12 VDC. Power outlet/plug configuration for country of end use to be indicated at time of order.
- ³ Includes the empty weight and total LN₂ capacity weight.
- ⁴ 2 ml vial size/12.5 mm O.D. internal thread. 6-2 half-rack capacity of 94,200 for LABS 94
- ⁵ Model LABS 94K, 8 Level Rack
- ⁶ Model LABS 94K, 6 Level Rack
- ⁷ Features standard on all units with CS Control System



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