

LABSPRECISION Series

HIGH-CAPACITY STAINLESS STEEL FREEZERS



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Built on a field-proven, time-tested platform, the LABS Precision Series offers monitoring, control and communication to support the operational requirements of modern biorepositories.

User-friendly
touchscreen

Hinged, lockable lid
and stainless steel table top
working surface

When lid opens,
a bright LED internal
light and automatic
defog function
activate for faster
sample visibility

Single
pivot-point
aluminum
turntable design.
Smooth rotation
and ergonomic
design.

Full height,
segmented and
labelled turntable
for easy
inventory
storage access
and management

Near LN2 temperatures
maintained at top of
inventory storage
system

PLC-based controls

Convenient
access to
measure
LN2 level

Fold-down full-sized
stainless steel step
or dual steps
(LABS 94K)

Differential
pressure level
management





Control Features

The **LABS Precision Series** control unit is designed to provide a simple, intuitive interface with an extremely robust, control platform featuring state-of-the-art connectivity and simple user interaction.

- Large, intuitive touchscreen user panel
- Industrial PLC controller providing robust control platform
- Differential pressure level control
- User management and audit-trail functions

Access Control

LABS Precision freezers offer multiple access levels and full audit trail options:



- User management allows for creation of unlimited user profiles with individual permissions.
- Full audit trail records all actions undertaken by a signed-in individual, including time and date stamps.

Temperature Management

- Operation at -190°C vapor phase with extended temperature hold
- Gas bypass
- High efficiency – very low LN₂ consumption
- LN₂ storage in either liquid- or vapor-phase

OPTIONS:



• Battery Backup

Add optional battery backup protection to help maintain operation during temporary power interruptions and provide added peace of mind.



• Enhanced External Communications Gateway

Enables the freezer to connect with local Wi-Fi or Ethernet networks and deliver text/email status or alarm notifications to users. Notifications are configurable. Also allows the set up of coordinated and/or timed filling.

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Touchscreen Monitoring,
Control and Communications



MODELS		20K	38K	40K	80K	94K
DIMENSIONS						
External Operating Height	(in)	42	44	42	42	40
(Top of Step to Lid Opening)	(mm)	1067	1118	1067	1067	1016
Step Height	(in)	11	11.5	11/16.3	11/17	11/22
	(mm)	275	287.5	275/407.5	275/425	275/550
Height	(in)	54	57	54	54	63
(Floor to Opening)	(mm)	1371	1447	1371	1371	1600
Usable Height - Internal	(in)	30	30	30	30	35.3
	(mm)	762	762	762	762	897
Outside Diameter	(in)	34	42	45	59.5	59.5
	(mm)	864	1067	1143	1511	1511
Internal Working Diameter	(in)	29.5	38	40.5	55	55
	(mm)	750	965	1029	1397	1397
Neck Opening	(in)	13	18	18	24.5	24.5
	(mm)	330	457	457	622	622
CAPACITY						
Total LN2 Capacity (Liquid Storage) L.		371	623	698	1269	1595
Total LN2 Capacity (Vapor Storage) L.		36	73	80	137	300
WEIGHT						
Empty	(lb)	650	930	920	1550	1700
	(kg)	295	422	417	703	771
Maximum Gross Weight	(lb)	1311	2040	2164	3811	4542
	(kg)	595	925	981	1729	2060
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		19500	37700	41600	79300	93000
Bag 25 ml (7 Level Rack)		1624	2688	3108	5999	6856
Bag 50 ml (7 Level Rack)		924	1582	1876	3381	3864
Bag 250 ml (5 Level Rack)		500	900	990	1920	2304
Bag 500 ml (5 Level Rack)		420	690	830	1610	1932