

Laboratory Archival Biological Storage

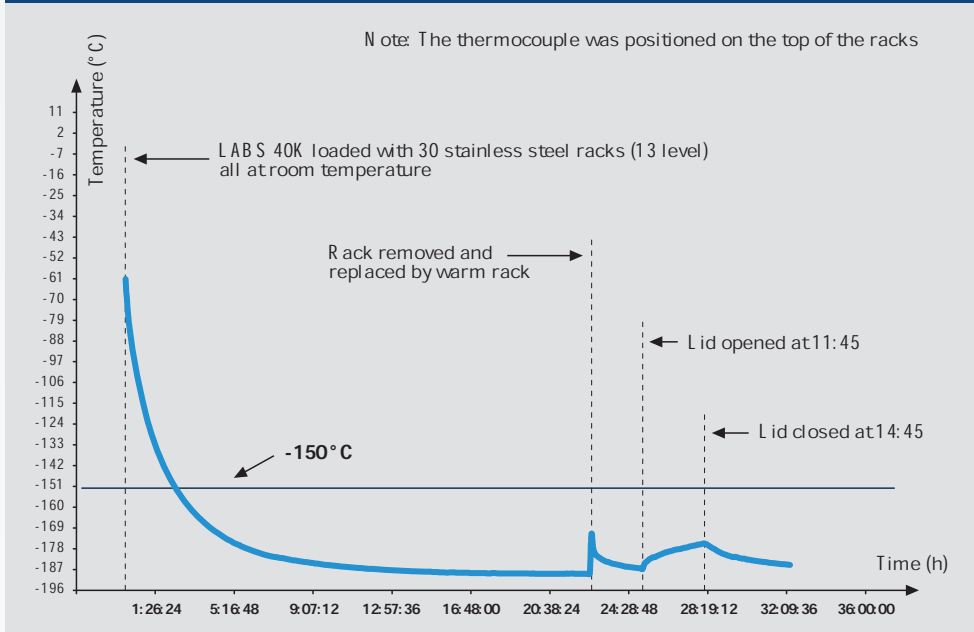


CST CRYO-SCIENCE TECHNOLOGIES

LABS Series freezers are designed for efficient long-term storage of larger volumes of specimens. With a capacity of up to 80,000 2ml vials, a storage temperature virtually at the level of the liquid nitrogen temperature even in the gas phase and low nitrogen consumption, the LABS Series sets new industry benchmarks. In addition to this exceptional performance, these freezers also feature ergonomic design. For example, the flat stainless-steel table-top makes a convenient working surface, and a folding step permits easier access to the stored material. The extremely easy-to-rotate turntable with aluminum dividers permits quick, convenient access to the inventory control system as well as easy sample location. Each compartment is colour coded.

All models are available with automatic level controllers and the CE mark in compliance with Medical Devices Directive MDD 93/42EC. The hinged booted lid is easy to operate and to clean. The lid switch provides signals to the optional controller for lid open alarm, auto defog and quick chill.

LABS temperature profile with LN₂ at bottom tray
(Refrigerator precooled for 1 week)



» New benchmarks for long - term storage of larger volumes of specimens «



SPECIFICATIONS

Models		LABS 20K	UBS 40K	LABS 80K
LN ₂ capacity	1	407	606	1350
LN ₂ capacity below platform	1	46	76	140
Overall diameter	mm	864	1143	1511
Overall height	mm	1455	1455	1455
Working height from step to lid opening	mm	1080	1080	1080
Internal diameter	mm	750	1029	1397
Useable height	mm	762	762	762
Neck diameter	mm	330	457	622
Reference value evaporation rate ⁽¹⁾	1/24 h	4	4,5	8
Evaporation rate ⁽²⁾	1/24 h	7	8,8	11
Static holding time ⁽²⁾	Days	102	135	169
Weight, empty	kg	295	417	703
Weight, full (without inventory control systems)	kg	624	907	1794
Recommended LN ₂ supply tank		XL -Series	XL -Series	XL -Series
Max. capacity 2ml vials in liquid/vapor phase		19.500	41.600	79.300
Suitable for bag storage		•	•	•

⁽¹⁾ Reference value without turntable

⁽²⁾ Evaporation rate and static holding time are nominal. A actual rate may be affected by the nature of the contents, atmospheric conditions, container history and manufacturing tolerances

STRAW CAPACITY

Number of canisters 67 mm	79	156	313
Number of levels (goblets)	5	5	5
Number of goblets 65 mm	395	780	1.565
Number of straws 0,25 ml	316.000	624.000	1.252.000
Number of straws 0,50 ml	142.200	280.800	563.400