

LS Laboratory Systems



Roller base as option available

The LS Series refrigerators are uniquely designed for large vial capacity in convenient box-type storage racks and at the same time keep N₂ consumption to a minimum.

This results in low operating costs and fewer refills. The rectangular shape of the racks for 5x5 or 10x10 cryoboxes makes it easier to maintain an overview of and identify stored samples. As a result, samples can be located and removed more easily and faster.

The four vessels cover a range from 750 to 6,000 2ml vials. The compact LS750 can be used with either racks or with canisters.

The LS3000, LS4800 and LS6000 models can be equipped with automatic level control (see pp. 8 and 9) and they can be supplied with CE mark in compliance with the Medical Devices Directive (MDD 93/42EC).

These models can also be used for storage in either the vapor or liquid phase. In case of storage in the vapor phase, the two bottom shelves must be left empty, which reduces the capacity (see table on p. 25). The use of level controller is recommended.



Specifications		LS 750	LS 3000	LS 4800	LS 6000
Models					
Static holding time ⁽¹⁾	Days	130	106	162	194
Working time ⁽²⁾	Days	80	66	102	120
Evaporation rate ⁽¹⁾	l/24 h	0,27	0,76	0,80	0,84
LN ₂ capacity ⁽³⁾	l	35	81	130	165
Weight, empty	kg	17,7	31,8	40,9	55,0
Weight, full ⁽³⁾	kg	46,0	97,4	146,1	186,4
Neck diameter	mm	119	216	216	216
Overall height	mm	681	731	892	991
Overall diameter	mm	478	683	683	683
Number of 2ml vials		750	3.000	4.800	6.000
Cryobox dimensions	mm	76 x 76	132 x 132	132 x 132	132 x 132
Number of vials per cryobox		25	100	100	100
Capacity for vapor phase storage		–	1.800	3.600	4.800

⁽¹⁾ Evaporation rate and holding time are nominal. Actual rate may be affected by the nature of the contents, atmospheric conditions, container history and manufacturing tolerances

⁽²⁾ Working time is an arbitrary, reference-only value to estimate container performance under the actual operating conditions

⁽³⁾ Without canisters or racks

Accessories (see pp. 8/9 + 26)				
Roller base	R033-8C00W	R05K-8C00W	R05K-8C00W	R05K-8C00W
Low liquid level alarm	R036-8C30	RS30K-8C40	R05K-8C26	RS60-8C40
CryoCon AF-1D auto. level controller	–	M550KB-LS	M550KB-LS	M550KB-LS
CryoCon AFT-3L auto. level controller	–	M505K BOX-LS	M505K BOX-LS	M505K BOX-LS

The roller base increases the overall height of the vessel by 110mm

Installation of a level controller adds an extra 200mm to the overall height