



**K**  
**Series**

**CST**  
**Cryo-Science**  
**Technologies**



## K Series

The K Series cryogenic systems offer reliable liquid nitrogen storage with controllable temperatures between (-100°C to -196°C). Combined with the safety of the automatic alarms and the easy access to stored product, the unique Temperature Gradient Suppression System greatly improves vapor phase temperature storage and recovery.



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## Features

- Vapor or liquid storage
- Intuitive Touch Controls
- Kryos (battery option) or AutoTend
- Stainless steel vacuum vessel
- Modular design
- Durable powder coated cabinet
- Caster mounted
- Superior vacuum performance



Models	3K	10K	24K	38K	
Static Holding Time days (1)	19	33	52	74	
Working Time days (2)	12	N/A	N/A	N/A	
Evaporation Rate (1) liters/days	2.5	5.0	7.0	8.0	
Liquid Nitrogen Capacity - liters	48	165	365	590	
Weight Empty	- lbs. - kg.	42.0 19.1	245 111	405 184	565 256
Weight Full	- lbs. - kg.	125 56.7	537 243	1046 474	1616 733
Neck Diameter	- in. - mm.	14.0 356	21.0 533	31.0 787	39.0 991
Overall Height	- in. - mm.	29.7 754	44.0 1118	44.0 1118	49.0 1245
Overall Dimensions	- in. - mm.	15.4 391	23.1x30.5(3) 587x775	34.0x38.5(3) 864x965	42.0 (4) 1067
Usable height - Internal	- in. - mm.	19.2 488	29.0 737	29.0 737	29.0 737
Internal Diameter	- in. - mm.	14.0 356	21.0 (5) 533	31.0 (5) 787	39.0 (5) 991
Capacity	3K	10K	24K	38K	
2 ml Plastic Vials (6)	3024	10400	24050	38350	
Number of 100/81 Cell Racks	N/A	7	17	28	
Number of 25 Cell Racks	N/A	4	6	6	
Number of shelves	N/A	13	13	13	
Box Size - shape	Triangle	Square	Square		
Size in.	6.75x6.87 (7)	5x5 (8)	3x3 (8)		
Size mm.	171x175	127x127	76x76		
Vials per box	56	100	25		
Blood Bag Capacity					
Fenwal #4R5461 - 9953	N/A	235	535	870	
Fenwal #4R5462 - 9955	N/A	185	475	680	
Fenwal #4R5451	N/A	343	805	1407	
Stericon #RCM91D	N/A	235	360	560	
Chartmed #7005-2	N/A	105	216	536	
Gambro #DF700	N/A	88	200	320	
Gambro #DF200	N/A	192	496	496	
0.50cc straws, 10 per goblet, 2-13mm goblets per can, Two tier turn-table inventory control system	N/A	44000	59400	114000	
Roller Base	R018-8C00	N/A	N/A	N/A	

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

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

(3) Maximum required clearance (with lid open) for the 10K is 69.0 (1753 mm); 24K is 76.0 in. (1930mm). Depth with lid open for 10K is 34.0 (864 mm); 24K is 48.5 (1232 mm)

(4) Maximum depth 55.0 in (1397mm). Maximum height 90.0 in. (2286 mm) with lid open.

(5) Temperature Gradient Suppression System reduces internal diameter by approx. 1/4 in. (6.4 mm)

(6) 2.0 ml vial size: 12.5 mm O.D. internal thread (7) 6 racks, 9 levels, 2" shelf height

(8) The 10K/24K/38K containers utilize both the 5 in. x 5 in. (127 mm x 127 mm) 100/81 cell box and the 3 in. x 3 in. (76 mm x 76 mm) 25 cell box