

# Cryogenic Equipment

## 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 filling, alarms, easy access to stored product, and the unique Temperature Gradient Suppression System greatly improves vapor phase temperature storage and recovery.



### Features

- Temperature control available
- Temperature monitor available
- Intuitive electronic touch controls
- All stainless steel vacuum vessel
- Modular design
- Durable powder coated cabinet
- Caster mounted electronic touch controls
- Superior vacuum performance

Models		3K	10K	24K	38K
<b>Static Holding Time - days (1)</b>		19	33	52	74
<b>Working Time - days (2)</b>		12	N/A	N/A	N/A
<b>Evaporation Rate (1) liters/days</b>		2.5	5.0	7.0	8.0
<b>Liquid Nitrogen Capacity - liters</b>		48	165 (5)	365 (5)	590 (5)
<b>Weight Empty -</b>	lbs	42.0	245	405	565
	kg	19.1	111	184	256
<b>Weight Full -</b>	lbs	125	537	1046	1616
	kg	56.7	243	474	733
<b>Neck Diameter -</b>	in	14.0	21.0	31.0	39.0
	mm	356	533	787	991
<b>Overall height -</b>	in	29.7	44.0	44.0	49.0
	mm	754	1118	1118	1245
<b>Overall Diameter -</b>	in	15.4	23.1 x 30.5 (6)	34.0 x 30.5 (6)	42.0 (12)
	mm	391	587 x 775	864 x 965	1067
<b>Usable Height - Internal -</b>	in	19.2	29.0	29.0	29.0
	mm	488	737	737	737
<b>Internal Diameter -</b>	in	14.0	21.0 (9)	31.0 (9)	39.0 (9)
	mm	356	533	787	991
<b>2 ml Plastic Vials (3) -</b>	lbs	3024 (4)	10400 (7)	24050 (11)	38850 (10)
<b>Box Size</b>	Shape	Triangle		Square	Square
	Size in	6.75 x 6.87		5.0 x 5.0 (8)	3.0 x 3.0 (8)
	Size mm.	171 x 175		127 x 127	76 x 76
	Vials per box	56		100	25

Blood Bag Capacity					
<b>Fenwal #4R5461 - 9953</b>		N/A	235	535	870
<b>Fenwal #4R5462 - 9955</b>		N/A	185	475	680
<b>Fenwal #4R5451</b>		N/A	343	805	1407
<b>Stericon # #RCM91D</b>		N/A	235	360	560
<b>Chartmed #7005-2</b>		N/A	105	216	536
<b>Gambro #DF700</b>		N/A	88	200	320
<b>Gambro #DF200</b>		N/A	192	496	496
<b>0.55cc straws, 10 per goblet, 2-13mm goblets per can, Two tier turn-table inventory control system</b>		4680	44000	59400	114000
<b>Roller Base</b>		R018-8C00	N/A	N/A	N/A
<b>Low Level Alarm</b>		R03K-8C50	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) 2.0vial size: 12.5mm O.D. internal thread

(4) 6-9-2

(5) Liquid nitrogen capacity based on liquid full container up to 2.0 in. (51 mm) below the booted lid

(6) Maximum required clearance (with lid open) for the 10K 69.0 in., 24K is 76.0 in. Depth with lid open for 10K is 34.0 in; 24K is 48.5 in.

(7) 7-13-5 5.0 in. sq. rack, 4-13-2 3.0 in. sq. rack

(8) The 10K/24K/38K containers utilize both the 5.0 x 5.0 in. 100 cell box and the 3.0 x 3.0 in. 25 cell box

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

(11) 7-13-2 / 5.0 in. sq. rack 4-13-2/ 3.0 in. sq. rack

(10) 28-13-2/ 5.0 in. sq. rack 6-13-2/ 3.0 in. sq. rack

(12) Maximum depth for the 38K is 55.0 in. maximum height is 90.0 in. with lid open