

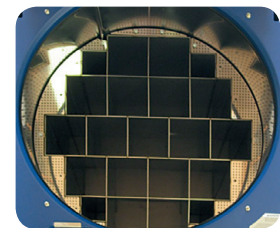
## K Series

### Cryogenic Storage Systems

K Series systems are used throughout the world wherever it is necessary to store biological specimens or larger objects such as organs for transplantation. Like all Taylor-Wharton vessels, the ultra high capacity refrigerators use nitrogen in liquid or vapor phase for cooling. This provides a series of important benefits as compared with mechanical refrigeration systems, especially in terms of environmental considerations:



+	Greater reliability
+	No heat output
+	Silent operation
+	Lower temperature
+	Virtually maintenance-free
+	Safety back up to power failures



#### SUITABLE FOR MULTIPLE SYSTEMS

Taylor-Wharton K Series systems are designed to accommodate various inventory control systems. The high capacity makes it possible to hold up to 38,350 2ml vials or up to 739,500 0,25ml straws. Normally 10K and larger systems are connected to a liquid nitrogen tank by means of a hose equipped with a controller unit, which is an electronic mowden automatic level controller that is available in various models.

#### OPTIONAL GAS PHASE FRAME

In case it is necessary to make absolutely sure that specimens do not come into contact with liquid nitrogen (to avoid cross contamination), it is possible to place a gas phase frame inside the system. The liquid tight frame ensures a reliable separation of the specimen from the liquid nitrogen and at the same time functions as a guide for the individual racks. 10K and larger systems are available with the CE mark in compliance with the Medical Devices Directive MDD 93/42 EC.

## PRODUCT SPECIFICATIONS

MODEL	3K	10k	24K	38K
<b>SPECIFICATIONS</b>				
LN <sub>2</sub> capacity (liters)	48	165	365	590
Overall diameter (width x depth in mm)	391	587x775	864x965	1067x1397
Overall height (with lid open in mm)	-	1753	1930	2286
Overall height (in mm)	754	1118	1118	1245
Internal diameter (in mm)	356	533	787	991
Useable height (in mm)	488	737	737	737
Evaporation rate <sup>(1)</sup> (l/24 h)	2,5	5,0	7,0	8,0
Static holding time <sup>(1)</sup> (Days)	19	33	52	74
Weight, empty (kg)	19,1	111,0	184,0	256,0
Weight, full (kg)	56,7	243,0	474,0	733,0
Recommended LN <sub>2</sub> supply tank	XL Series	XL Series	XL Series	XL Series
Suitable for bag storage	.	.	.	.
Special remarks	Optional roller base recommended	90mm distance rear to wall required	270mm distance rear to wall required	1155mm distance rear to wall required
<b>STRAW CAPACITY</b>				
Number of canisters 67mm	21	46	107	174
Number of levels ( goblets )	3	5	5	5
Number of goblets 65mm	63	230	535	870
Number of straws 0,25ml	50.400	184.000	428.000	696.000
Number of straws 0,50ml	22.680	82.800	192.600	313.200
<b>VITAL CAPACITY</b>				
Liquid phase	3.726	10.400	24.050	38.350
Vapor phase	2.484	8.800	20.350	32.450
Vapor phase with sealed frame	-	9.100	21.775	35.100

<sup>(1)</sup> 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