

			EXTENDED-TIME REFRIGERATORS			HIGH-CAPACITY REFRIGERATORS			LIQUID NITROGEN DEWARS	
MODELS		XT10	XT20	XT21-AI	XT34	HC20	HC34	VHC35	LD4	LD10
Static Holding Time ¹	days	100	230	221	340	87	200	130	10	45
Working Time ² days		62	140	138	212	54	125	81	-	-
Evaporation Rate ¹ Liters/Day		0.10	0.09	0.095	0.10	.23	.17	.27	.40	.22
Liquid Nitrogen Capa (liters)	acity	10	20.7	21	34	20	34	35	4	10
Weight Empty	lb. kg.	16.5 7.5	26 11.8	26 11.8	34.75 15.8	26.4 12	35.38 16.1	37.9 17.2	6.6 3.0	14.5 6.6
Weight Full ³	lb. kg.	34.3 15.6	62.8 28.6	63.4 28.8	95.3 43.3	62 28.2	95.9 43.6	100.2 45.5	13.7 6.2	32.3 14.7
Neck Diameter	in. mm.	2.0 51	2.0 51	2.18 55.4	2.0 51	3.6 91	3.6 91	4.7 119	1.2 30	2.0 51
Overall Height	in. mm.	23.8 597	25.8 655	25.8 655	26.3 668	24.25 615	26.31 668	26.8 681	17 432	23.5 597
Overall Diameter	in. mm.	11.4 290	15.6 396	15.6 396	18.8 478	15.6 396	18.8 478	18.8 478	7.6 193	11.4 290
Number of Canisters		6	6	6	6	6	6	64		
Canister Dimensions	s⁴ in. mm.	1.5x11 38x279	1.5x11 38x279	1.65x11 41.9x279	1.5x11 38x279	2.75x11 70x279	2.75x11 70x279	3.7x11 94x279		
Number of 1.2 ml & 2 vials (5/cane)	2.0 ml	150	150	210	150	570	570	1050		
Number of 1.2 ml & 2 vials (6/cane)	2.0 ml	180	180	720	180	684	684	1260		
Number of .5cc stra (10/cane)	ws	540	540		540	1850	1850	3000		
Number of .5cc stra (1 level)	ws Bulk	750	750	1122	750	2940	2940	4950		
Number of .5cc stra (2 levels)	ws Bulk	1500	1500		1500	5880	5880	9900		
Item Number	s	TW4	TW5A	TW5B	TW6	TW8	TW11	TW13	TW17	TW19

ACCESSORIES	Cat. No.	
DIP STICK Fits Taylor or MVE tanks	TW26	
CANISTER Specify tank model	TW10	
ROLLER BASE— Allows easy movement of full tanks	TW28	
SPARE NECK CORK/FOAM Specify tank model	TW26A	

Taylor-Wharton's advanced range of cryogenic refrigerators meet your needs — flexibly, efficiently, economically. Their comprehensive series of high-performance refrigerators incorporates durable, lightweight construction with a full range of optimum holding times and maximized capacities. The result is an entirely new standard of cryogenic efficiency.

Nitrotrogen Tanks by TAYLOR-WHARTON THE CRYOGENIC STANDARD IN REFRIGERATORS THE HC SERIES REFRIGERATORS

The High-Capacity HC Series of Taylor-Wharton Refrigerators enables you to store more semen, embryos or biological material at liquid-nitro-

gen temperature. Seven different unit sizes with convenient holding times and capacities are available to satisfy a broad range of storage demands. Two low profile HCL models are also available providing reduced unit height for transit or storage.

THE XT SERIES OF REFRIGERATORS

The XT Series of Taylor-Wharton Cryogenic
Refrigerators offers Extended-Time, cost-effective
storage for semen, embryos or biological samples.
Each of the six different sizes maximizes holding
time for a given quantity of liquid nitrogen, fulfilling
a variety of user requirements. In addition, the low
profile XTL models provide an answer to space
problems.

Tanks and accessories are not stocked. Please allow 7-14 days for product delivery.

Footnotes:

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.

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

³Without canisters or racks. ⁴Canisters also available in 5.0 in. (127 mm) height for XT10, XT20

Optional 7th canister available to increase storage capacity by

Vacuum Warranty

5 years

and XT34.







SPECIFICATIONS	VAPOR SHIPPERS			STORAGE			STORAGE	
MODEL	MINIMOOVER	SC 4/2 V	SC 4/3 V	SC 3/3	SC 11/7	SC 20/20	XC 34/18	XC 47/11
MAXIMUM STORAGE CAPACITY								
Number of canisters	1	1	1	6	6	6	6	6
Number of 1/2 cc straws (10/cane)	60	280	120	-	540	540	2,100	4,500
Number of 1/2 cc straws (1 level Bulk)	88	440	210	732	732	780	3000	6216
Number of 1/4 cc straws (1 level Bulk)	904	938	952	-	150	150	630	1320
Number of 1.2 & 2.0 ml vials (5/Cane)	20	95	40					
Number of 1.2 & 2.0 ml vials (6/Cane)	24	106	48					
Number of blood bag storage	-	-	-					
PERFORMANCE								
Liquid nitrogen capacity (liters)	2.9	3.6	4.3	3.6	11.0	20.5	34.8	47.4
Static evaporation rate (liters/day)	0.20	0.26	0.20	0.12	0.15	0.09	0.18	0.39
Normal working duration	14	14	21	19	46	142	123	76
UNIT DIMENSIONS								
Neck opening (in/mm)	1.4 35	2.75 70	2 51	2 51	2 51	2 51	3.5 89	5 127
Overall height (in/mm)	19.5 495	18.4 468	19.4 492	16 406	21.6 549	25.7 652	26.6 675	26.5 673
Outside diameter (in/mm)	7.2 184	8.7 222	8.7 222	8.7 222	10.2 260	14.5 368	18.2 464	20 508
Canister height (in/mm)	11 278	11 278	11 278	5 127	11 279	11 279	11 279	11 279
Canister diameter (in/mm)	1.2 31	2.62 67	1.81 46	1.5 38	1.5 38	1.5 38	2.81 71	4 102
Weight empty (lbs/kg)	8 3.6	11 5	13 5.9	8 3.6	17 7.7	26 11.8	34 15.4	42 19
Weight full (lbs/kg)	11.6 5	18 8.1	20.6 9.3	14.4 6.5	36.6 16.6	62.5 28.3	96 43.5	120.4 54.6
Item #	MVMM	MV26	MV26A	MV50	MV52	MV35	MV40	MV42

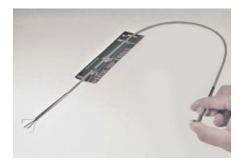
MODEL-DEWAR TANK	LAB 10
PERFORMANCE	Liquid nitrogen
capacity (liters)	10
Static evaporation rate (liters/day)	0.18
UNIT DIMENSIONS	Neck Opening
(in/mm)	2.2
Usable height (in/mm)	13.5
Overall height (in/mm)	21.5
Outside diameter (in/mm)	10.3
Internal diameter (in/mm)	8.3
Weight empty (lbs/kg)	13
Weight full (lbs/kg)	31
Item #	MV57





AC	CESSORIES	Cat. No.	
	otective container for SC4/2V, , SC11/7, specify tank model.	MV30	
• CANISTER	Holds straws or canes	MV31	
SPARE NECK CORK	High efficiency foam	MV32	
ROLLER BASE	Specify tank model.	MV44	

36" Claw Pick Up Tool		
Flexible shaft, with 4-prong claw, 36" overall length. Arrives straight, shown curved below to demonstrate that it's flexible. Push the plunger and the claw appears and opens at the opposite end. Release the plunger and the claw retracts around the straw or object.	H06	





The MVE Vapor Shipper

The MVE Vapor Shipper containers are designed for the safe transportation of biological samples at cryogenic (-150°C) temperatures. Fabricated from durable, lightweight aluminum, they contain a hydro-phobic absorbent that contains the liquid nitrogen. The absorbent also repels moisture and humidity, assuring the maximum holding time.

A protective shipping carton is available for all models which protects the container from being placed on its side and helps in withstanding the rigors of transportation. These containers can be used to ship your samples with a "non-haz-ardous" classification throughout the world.

The SC series
The SC series is designed for the user who has small capacity needs, but requires long-term storage and low liquid nitrogen consumption in a convenient lightweight package. MVE Aluminum Freezers are the units of choice.

The XC series

The XC series is designed for the user who requires large capacity storage and low liquid nitrogen consumption in a convenient lightweight package. Vacuum Warranty 3 years on vapor tanks, 5 years on all others

- ** Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the nature of container use, atmospheric conditions, and manufacturing toler-ances and any individual patterns of
- ** Normal Working Duration is an arbitrary reference, to estimate container performance under normal operating conditions, container history, manufacturing tolerances and any individual patterns of use.

Tanks and accessories are not stocked. Please allow 7-14 days for product delivery.