

CRYOSCIENCE

by Taylor-Wharton™

HC Series



HC Series

The High Capacity (HC) series of refrigerators are designed for storing large quantities of a variety of materials at cryogenic temperatures. Temperatures generally range between -196°C (-320°F) at the liquid surface, and -190°C (-310°F) at the canister top.



Taylor-Wharton

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Models	HCL12	HC20	HC34	HC35	VHC35	
Static Holding Time days (1)	60	87	200	130	130	
Working Time days (2)	37	54	125	81	81	
Evaporation Rate (1) liters/days	0.20	0.23	0.17	0.27	0.27	
Liquid Nitrogen Capacity - liters	12	20	34	35	35	
Weight Empty	- lbs.	21.6	26.4	35.38	39	37.9
	- kg.	9.8	12.0	16.1	17.7	17.2
Weight Full (3)	- lbs.	43.0	62.0	95.9	101.3	100.2
	- kg.	19.5	28.2	43.6	46.0	45.5
Neck Diameter	- in.	3.6	3.6	3.6	4.7	4.7
	- mm.	91	91	91	119	119
Overall Height	- in.	19.0	24.25	26.31	26.8	26.8
	- mm.	482	615	668	681	681
Overall Diameter	- in.	15.6	15.6	18.8	18.8	18.8
	- mm.	396	396	478	478	478
Number of Canisters		6	6	6	10	6 (4)
Canister Dimensions	- in.	2.75x5	2.75x11	2.75x11	2.64x11	3.7x11
	- mm.	70x127	70x279	70x279	67x279	94x279
Number of 1.2 ml & 2.0 ml vials (5/cane)		NA	570	570	850	1050
Number of 1.2 ml & 2.0 ml vials (6/cane)		NA	684	684	1020	1260
Number of 1/2 cc straws - (10 per cane)		NA	1850	1850	2800	3000
Number of 1/2 cc straws - Bulk (1 level)		2940	NA	NA	NA	NA
Number of 1/2 cc straws - Bulk (2 levels)		NA	5880	5880	9800	9900
7th Canister		NA	NA	NA	NA	R036-9C27
Roller Base		R018-8C00	R018-8C00	R033-8C00	R033-8C00	R033-8C00
Cryo-Sentry Level Alarm		N/A	R034-8C15	R034-8C15	R037-8C15	R036-8C30

(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) Without canisters or racks.

(4) Optional 7th canister available to increase storage capacity by 23%.

Features

- (1) Large storage capacity
- (2) New Rugged Construction – ribbed high strength aluminum body, magniformed necktube design, and more durable paint
- (3) Versatile storage system – convenient canister numbered index location ring and tapered internal spider
- (4) Superior vacuum performance with super insulation provides maximum holding times
- (5) Security – Optional low-level alarm is available with remote monitor and lockable lid
- (6) Mobility – Roller bases are available for all models



Taylor-Wharton

A legacy of excellence. A vision of promise.

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