



HC Series

CST

**Cryo-Science
Technologies**



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 cannister top.



Taylor-Wharton
CRYOGENICS



Features

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



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. - kg.	21.6 9.8	26.4 12.0	35.38 16.1	39 17.7	37.9 17.2
Weight Full (3)	- lbs. - kg.	43.0 19.5	62.0 28.2	95.9 43.6	101.3 46.0	100.2 45.5
Neck Diameter	- in. - mm.	3.6 91	3.6 91	3.6 91	4.7 119	4.7 119
Overall Height	- in. - mm.	19.0 482	24.25 615	26.31 668	26.8 681	26.8 681
Overall Diameter	- in. - mm.	15.6 396	15.6 396	18.8 478	18.8 478	18.8 478
Number of Canisters		6	6	6	10	6 (4)
Canister Dimensions	- in. - mm.	2.75x5 70x127	2.75x11 70x279	2.75x11 70x279	2.64x11 67x279	3.7x11 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%.