



# 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 -320°F (-196°C) at the liquid surface, and -299°F (-184°C) under the closed necktube core.

## Features

- Large storage capacity
- New rugged construction - dependable, mangiformed necktube design, ribbed high strength aluminum body, and more durable paint system.
- Versatile storage system - convenient canister index location ring and internal spider.
- Superior vacuum performance with super insulation provides maximum holding times.
- Security - Optional low-level alarm is available for use with more valuable samples
- Mobility - Roller bases are available for some 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. 21.6 - kg. 9.8	26.4 12.0	35.38 16.1	39 17.7	37.9 17.2
Weight Full (3)	- lbs. 43.0 - kg. 19.5	62.0 28.2	95.9 43.6	101.3 46.0	100.2 45.5
Neck Diameter	- in. 3.6 - mm. 91	3.6 91	3.6 91	4.7 119	4.7 119
Overall Height	- in. 19.0 - mm. 482	24.25 615	26.31 668	26.8 681	26.8 681
Overall Diameter	- in. 15.6 - mm. 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. 2.75x5 - mm. 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	2940	2940	4900	4950
Number of 1/2 cc straws - Bulk (2 levels)	NA	5880	5880	9800	9900
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%.