



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.

Models	HCL12	HC20	HC34	HC35	VHC35	VHC38	
Static Holding Time days (1)	60	87	200	130	130	120	
Working Time days (2)	37	54	125	81	81	75	
Evaporation Rate (1) liters/days	0.20	0.23	0.17	0.27	0.27	0.31	
Liquid Nitrogen Capacity - liters	12	20	34	35	35	38	
Weight Empty	- lbs. - kg.	21.6 9.8	26.4 12.0	35.38 16.1	39 17.7	37.9 17.2	38.2 17.3
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	104.7 47.5
Neck Diameter	- in. - mm.	3.6 91	3.6 91	3.6 91	4.7 119	4.7 119	5.0 127
Overall Height	- in. - mm.	19.0 482	24.25 615	26.31 668	26.8 681	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	18.8 478
Number of Canisters		6	6	6	10	6 (4)	6 (4)
Canister Dimensions	- in. - mm.	2.75x5 70x127	2.75x11 70x279	2.75x11 70x279	2.64x11 67x279	3.7x11 94x279	4.13x11 105x279
Number of 1.2 ml & 2.0 ml vials (5/cane)		NA	570	570	850	1050	1260
Number of 1.2 ml & 2.0 ml vials (6/cane)		NA	684	684	1020	1260	1512
Number of 1/2 cc straws - (10 per cane)		NA	1850	1850	2800	3000	3528
Number of 1/2 cc straws - Bulk (1 level)		2940	NA	NA	NA	NA	NA
Number of 1/2 cc straws - Bulk (2 levels)		NA	5880	5880	9800	9900	11520
7th Canister		NA	NA	NA	R036-9C27	R038-9C28	
Roller Base		366742	366742	366783	366783	366783	366783
Cryo-Sentry Level Alarm		N/A	366815	366815	366845	366833	369628



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 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



(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%.