



High Capacity Series

HC Series

The High Capacity (HC) series of refrigerators are designed for storing large quantities of a variety of materials at cryogenic temperatures. Provides temperatures of -196°C at the liquid surface, and -190°C at the top of the canisters. This series also offers a low-profile model (HCL12) with 5-inch (125 mm) canisters.

HC Series

MODEL		HCL12	HC20	HC34	HC35	VHC35
Static Holding 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		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)		N/A	570	570	850	1050
Number of 1.2 ml & 2.0 ml vials (6/cane)		N/A	684	684	1020	1260
Number of 1/2 cc straws - (10 per cane)		N/A	1850	1850	2800	3000
Number of 1/2 cc straws - Bulk (1 level)		2940	N/A	N/A	N/A	N/A
Number of 1/2 cc straws - Bulk (2 levels)		N/A	5880	5880	9800	9900
7th Canister ⁽⁴⁾		N/A	N/A	N/A	N/A	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

Features

- Large storage capacity
- Rugged Construction – ribbed high strength aluminum body, magnifomed necktube design, and more durable paint
- Numbered index ring and tapered internal canister locator.
- Superior vacuum performance with super insulation provides maximum holding times
- Security – Lockable lid and optional low-level alarm with remote connection available
- 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 actual operating conditions.

(3) Without canisters.

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



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