

## High Capacity High Efficiency Freezers (HCHE)

The HCHE series provides customers the latest technology with capacities from 20,000 to 107,000 vials. Our freezers are equipped with an automated control with dual level sensing and touch screen display, ensuring product viability and ease of use.

Our premium multi-layer insulation and other materials along with the latest vacuum technology systems provides leading industry performance. Engineered and tested, our durable HCHE stainless steel freezers are suitable for today's requirements.

### FEATURES

- Automated control with Dual Level Sensing for product security.
- Solenoid monitoring for overflow protection.
- Gas bypass with unique LN<sub>2</sub> detection system
- Product can be stored in Vapor or LN<sub>2</sub>
- Full height turntable with uniquely marked sections.
- Auto defog.
- Stainless Steel Table-Top.
- Convenient access, all lids are hinged.
- Folding and lockable independent stainless-steel steps.
- Two independent temperature probes.
- Remote cloud monitoring capable.





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## GENERAL SPECIFICATIONS

HCHE Model	HCHE20	HCHE44	HCHE50	HCHE92	HCHE107
LN <sub>2</sub> Capacity Vapor (L)	67	157	157	362	362
LN <sub>2</sub> Capacity Liquid (L)	433	912	1014	1782	1987
Outer Diameter (in/mm)	34 (864)	46.2 (1173)	46.2 (1173)	63.5 (1613)	63.5 (1613)
Overall Height (in/mm)	57 (1448)	55.3 (1405)	63.3 (1608)	62.5 (1588)	66.83 (1697)
Neck Opening (in/mm)	12.8 (325)	18 (457)	18 (457)	27.1 (688)	27.1 (688)
Carousel ID (in/mm)	29.5 (749)	41.1 (1044)	41.1 (1044)	59 (1499)	59 (1499)
Internal Height (in/mm)	30 (762)	30 (762)	34.3 (871)	30 (762)	34.3 (871)
Weight Empty (lbs/kg)	630 (286)	916 (416)	930 (422)	1782 (810)	1811 (823)
Weight Full (lbs/kg)	750 (340)	1196 (543)	1210 (549)	2491 (1130)	2520 (1143)
Evaporation Rate (L/day)	5	7	7	13	13
Static Holding Time (days)	10	18	18	25	25
Capacity (2ml Vials)	20200	43600	50400	92300	106500
Large Racks (Racks/Levels) 100 cell boxes	14/13	32/13	32/15	68/13	68/15
Small Racks (Racks/Levels)	4/13	4/13	4/15	12/13	12/15
Vertical Racks(Racks/Levels)	4/5	4/5	4/6	6/5	6/6

**Materials and Workmanship: 2 year warranty**  
**Vacuum: 5 year warranty**