



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 the automated DLS3 control featuring 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 industry leading performance. phasetwo's HCHE Series stainless steel freezers are engineered and tested to meet or exceed current customer demands.

Features

- Custom 10" Touchscreen Controller
- Internal Cryogenic LED Light and Vapor Defog for enhanced sample visibility
- Integrated WiFi with Remote Cloud Monitoring
- Level Safe Technology - Dual Liquid Level Sensing for SampleSecurity
- Overfill Protection via solenoid monitoring





phasetwo®

GENERAL SPECIFICATIONS

Model	HCHE20	HCHE44	HCHE50	HCHE92	HCHE107
LN2 Capacity Vapor (L)	68.9	175.7	175.7	371.2	371.2
LN2 Capacity Liquid (L)	437.1	892.1	999.6	1802.4	2040.9
Outer Diameter (in/mm)	34(863.6)	46.2(1173.5)	46.2(1173.5)	63.5(1612.9)	63.5(1612.9)
Overall Height (in/mm)	55.7(1414.8)	56.8(1442.7)	61.8(1568.5)	55.8(1417.3)	60.7(1541.8)
Neck Opening (in/mm)	12.7(322.6)	18(457.2)	18(458)	27.1(688.3)	27.1(688.3)
Carousel ID ins(mm)	28.8(731.5)	41.1(1043.9)	41.1(1044)	59(1498.6)	59(1498.6)
Internal Height (in/mm)	30 (762)	30(762)	35(889)	30(762)	35(889)
Weight Empty (lbs/kg)	638(289.4)	1075(487.6)	1147(520)	1835(832.3)	1975(895.8)
Weight Full (lbs/kg)	1417(642.7)	2665(1208.7)	2928(1328)	5047(2289.2)	5612(2545.5)
Static Evaporation Rate (L/day)	5	7	7	13	13
Vapor Phase (days)	13.8	25.1	25.1	28.6	28.6
Standard Racks (100/81 Cell)/Levels 2 ml Vial Capacity	14/13 18,200	32/13 41,600	32/15 48,000	68/13 89,700	68/15 103,500
Vertical Racks (100/81 Cell)/Levels 2 ml Vial Capacity	42/5 21,000	88/6 45,000	88/6 54,000	185/5 92,500	185/6 111,000
Lift Over Height ins(mm)	40 (1016)	43.8 (1113)	38.5 (978)	42.9 (1090)	37.8 (960)
Step Height ins(mm)	12.9(327.7)	12.9(327.7)	11(279) 21.9(556.3)	12.9(327.7)	11(279) 21.9(556.3)

Actual NER and static holding time will be affected by application, atmospheric conditions, and manufacturing tolerances.

Note: For guidance regarding NER, please contact technical support or your supplier.

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