



MVE HEco™ 800 Series

Available with the MVE Touch Screen & TEC 3000

The MVE HEco Series is the next generation High Efficiency freezer from MVE. With their unique shroud design, streamlined LN₂ plumbing, and vacuum jacketed transfer hose, the MVE HEco 800 Series freezers provide efficient use of LN₂, making them highly efficient. These next generation high efficiency freezers incorporate hinged work surfaces that fully enclose all electronics and plumbing to enhance overall safety and usability.

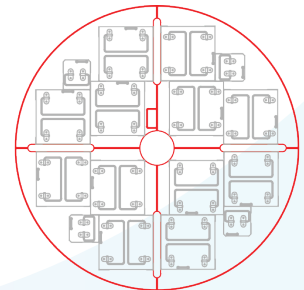
The technical and visual improvements combine to create a more aesthetically pleasing freezer that offers greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 800 Series freezers are available in three unique sizes and provide storage density as well as long hold times and high sample security.

Key Features

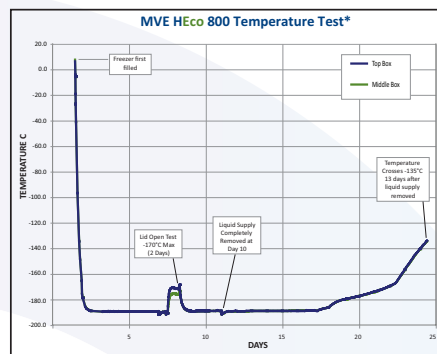
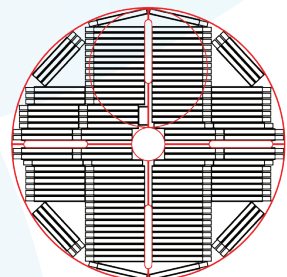
- LN₂ efficiency
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Single step standard
- Optional double-tier step

Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)



Temperature Test Graph

* Temperature test indicates typical performance of HEco Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

MVE HEco™ 800 Series

	MVE HEco 815P-190	MVE HEco 818P-190	MVE HEco 819P-190						
Maximum Storage Capacity									
○ 1.2 & 2 ml Vials (Internally Threaded)	15,600	18,200	19,500						
○ Quantity of Large Racks 100 cell boxes	12	12	12						
○ Quantity of Mini Racks 25 cell boxes	4	4	4						
○ Number of Shelves per Rack	12	14	15						
Performance									
○ LN ₂ Capacity at Vapor Platform L est.	62	55	55						
○ LN ₂ Capacity w/o Inventory L est.	360	403	446						
Unit Dimensions									
○ Neck Opening in. (mm)	12.5 (317)	12.5 (317)	12.5 (317)						
○ Usable Internal Height in. (mm)	26.5 (673)	30.7 (781)	34.5 (877)						
○ Inner Diameter in. (mm)	28.8 (731)	28.8 (731)	28.8 (731)						
○ Overall Height in. (mm) TS Model	53.1 (1350)	53.9 (1370)	57.70 (1465)						
○ Liftover Height in. (mm)	41 (1038)	43.8 (1115)	47.63 (1209)						
○ Door Width Requirement** in. (mm)	32.0 (813)	32.0 (813)	32.0 (813)						
○ Door Width Requirement, with handles** in. (mm)	33.2 (843)	33.2 (843)	33.2 (843)						
○ Weight Empty* lb. (kg)	480 (218)	495 (225)	515 (234)						
○ Weight Liquid Full* lb. (kg) est.	1160 (526)	1168 (530)	1340 (608)						
Blood Bag Capacities	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
○ 791 OS/U Medsep (25 ml)	1,224	6	204	1428	7	204	1,836	9	204
○ 4R9951 (50 ml)	768	6	128	896	7	128	1024	8	128
○ 4R9953 (250 ml)	416	4	104	416	4	104	520	5	104
○ 4R9955 (500 ml)	304	4	76	304	4	76	380	5	76
○ DF200 (200 ml)	236	4	59	236	4	59	295	5	59

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* Without inventory

** Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.

*** The TEC 3000 Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed.