





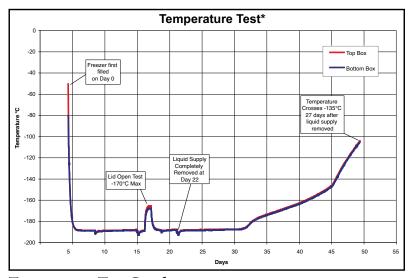
MVE HEco 1800 Series Freezers

The new MVE HEco 1800 Series freezers provide a reduction in LN2 usage, making them the most efficient vapor freezers available. When an LN2 fill is initiated, the redesigned plumbing system optimizes the LN2 flow and reduces transfer loss, increasing efficiency and LN2 cost savings. The 1800 series provides option for greater storage in one freezer. These next generation high efficiency freezers incorporate new hinged work surfaces that fully enclose all electronics and plumbing to enhance overall safety and usability. The technical and visual improvements provide an aesthetically more pleasing freezer while offering greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 1800 Series freezers provide maximum storage density as well as the longest hold time and highest sample security in the industry.

Features include:

- LN2 usage reduction
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Lowest liftover height
- Two tier folding step
- Optional battery backup





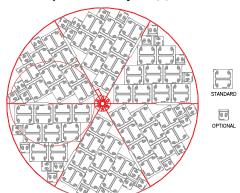
Temperature Test Graph

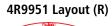
Visit www.chartbiomed.com for more information.

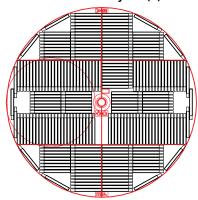
^{*} Temperature test indicates typical performance of HEco Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

Rack Layouts

Square Rack Layout (P)







	MVE HEco 1879P-190			MVE HEco 1892P-190			MVE HEco 1894R-190		
Maximum Storage Capacit	y								
1.2 & 2 ml Vials (Internally Threaded)	79,950			92,250			94,500		
Number of Racks 100 cell boxes	54			54			60		
Number of Racks 25 cell boxes	30			30			12		
Number of Stages per Rack	13			15			15		
Performance									
LN2 Capacity L	1745			1770			1770		
LN2 Capacity Under Tray <i>L</i>	318			295			295		
Static Hold Time—Vapor <i>days</i>	35			30			30		
Static Hold Time—Liquid Full <i>days</i>	174			177			177		
Unit Dimensions									
Neck Opening in. (mm)	24.7 (627)			24.7 (627)			24.7 (627)		
Usable Internal Height in. (mm)	29.5 (749)			34.5 (876)			34.2 (868)		
Inner Diameter in. (mm)	56.0 (1422)			56.0 (1422)			54.7 (1389)		
Overall Height <i>in. (mm)</i>	63.7 (1618)			68.6 (1742)			68.6 (1742)		
Liftover Height in. (mm)	38.8 (985)			44.0 (1118)			44.0 (1118)		
Door Width Requirement** in. (mm)	60.0 (1524)			60.0 (1524)			60.0 (1524		
Weight Empty <i>lb. (kg)</i>	1712 (781)			1721 (781)			1721 (781)		
Weight Liquid Full* <i>lb. (kg)</i>	4830 (2191)			4875 (2211)			4875 (2211)		
Blood Bag Capacities	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
791 OS/U (25 ml)	5,866	7	838	6,704	8	838	6,432	8	804
4R9951 (50 ml)	2,952	6	492	3,936	8	492	3,920	8	490
4R9953 (250 ml)	1,584	4	396	1,980	5	396	2,010	5	402
4R9955 (500 ml)	1,104	4	276	1,380	5	276	1,550	5	310
DF200 (200 ml)	960	4	240	1,200	5	240	1,230	5	246
DF700 (700 ml)	504	4	126	630	5	126	680	5	136

TWO Year Standard Warranty • FIVE Year Vacuum Warranty

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

^{*} Without inventory

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