

MVE HEco 800 Series Freezers

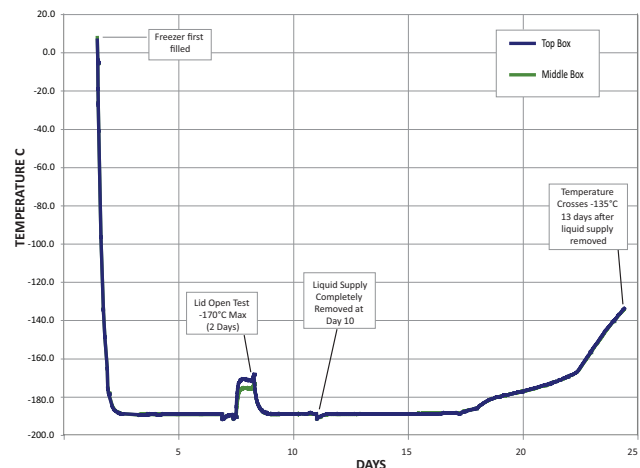
With their streamlined LN2 plumbing and vacuum jacketed transfer hose, the new MVE HEco 800 Series freezers provide a reduction in LN2 usage, making them the most efficient vapor freezers available. These next generation high efficiency freezers incorporate hinged work surfaces that fully enclose all 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 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
- Single step standard
- Optional removable double-tier step
- Optional battery backup



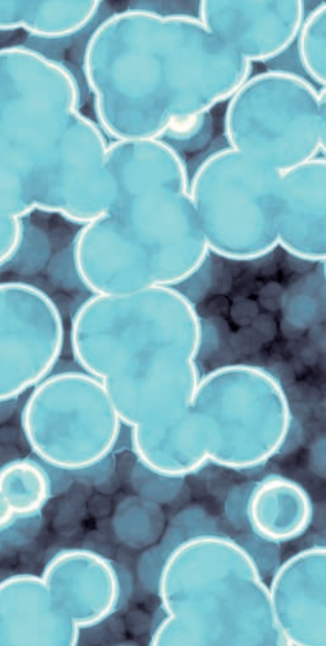
MVE HEco 800 Temperature Test*



Temperature Test Graph

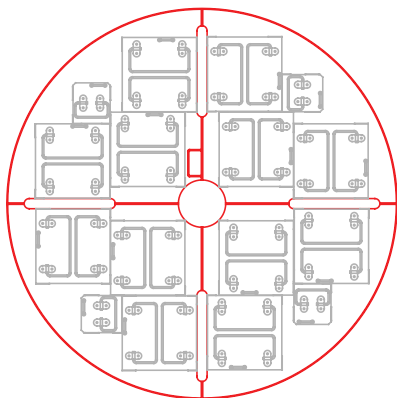
* Temperature test indicates typical performance of HEco Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

Visit www.chartbiomed.com for more information.

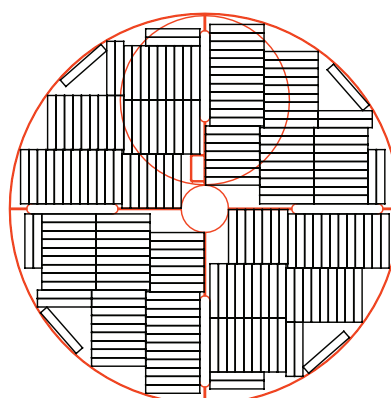


Rack Layouts

Square Rack Layout (P)



791 OS/U Layout



	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						
Number of Racks <i>100 cell boxes</i>	12	12	12						
Number of Racks <i>25 cell boxes</i>	4	4	4						
Number of Stages per Rack	12	14	15						
Performance									
LN2 Capacity <i>L</i>	370	420	463						
LN2 Capacity Under Tray <i>L</i>	52	55	55						
Static Hold Time—Vapor <i>days</i>	10	11	11						
Static Hold Time—Liquid Full <i>days</i>	74	84	92						
Unit Dimensions									
Neck Opening <i>in. (mm)</i>	12.5 (317)	12.5 (317)	12.5 (317)						
Usable Internal Height <i>in. (mm)</i>	26.6 (676)	30.7 (78)	34.5 (877)						
Inner Diameter <i>in. (mm)</i>	28.8 (731)	28.8 (731)	28.8 (731)						
Overall Height <i>in. (mm)</i>	49.5 (1257)	53.9 (1370)	57.70 (1465)						
Liftover Height <i>in. (mm)</i>	40 (1016)	43.8 (1115)	47.63 (1209)						
Door Width Requirement** <i>in. (mm)</i>	32.0 (813)	32.0 (813)	32.0 (813)						
Weight Empty <i>lb. (kg)</i>	475 (215)	495 (225)	515 (234)						
Weight Liquid Full* <i>lb. (kg)</i>	1134 (514)	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 (25 ml)	1,224	6	204	1632	7	128	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
DF700 (700 ml)	-	-	-	-	-	-	-	-	-

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.