

# MVE HEco 800 Series Freezers

With their streamlined LN2 plumbing and vacuum jacketed transfer hose, the new MVE HEco 800 Series freezers provide a 10% 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.

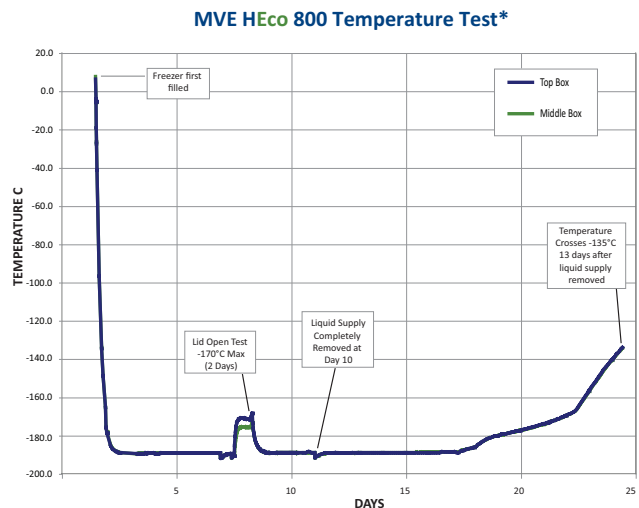


### Features include:

- 10% reduction in LN2 usage
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Lowest liftover height
- Optional removable single-tier or double-tier step
- Optional battery backup

### Temperature Test Graph

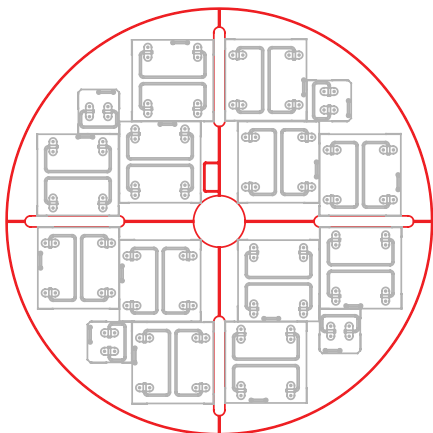
\* Temperature test indicates typical performance of HEco Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.



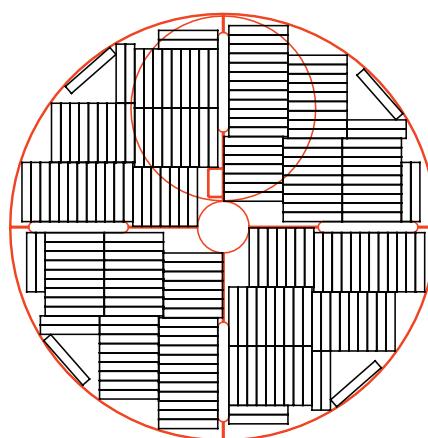
For further information,  
 contact Air Products  
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## Rack Layouts

Square Rack Layout (P)



791 OS/U Layout



	MVE HEco 815P-190			MVE HEco 819P-190		
<b>Maximum Storage Capacity</b>						
1.2 & 2 ml Vials (Internally Threaded)	15,600			19,500		
Number of Racks <i>100 cell boxes</i>	12			12		
Number of Racks <i>25 cell boxes</i>	4			4		
Number of Stages per Rack	12			15		
<b>Performance</b>						
LN2 Capacity <i>L</i>	370			463		
LN2 Capacity Under Tray <i>L</i>	52			55		
Static Hold Time—Vapor <i>days</i>	10			11		
Static Hold Time—Liquid Full <i>days</i>	74			92		
<b>Unit Dimensions</b>						
Neck Opening <i>in. (mm)</i>	12.5 (317)			12.5 (317)		
Usable Internal Height <i>in. (mm)</i>	26.6 (676)			34.5 (877)		
Inner Diameter <i>in. (mm)</i>	28.8 (731)			28.8 (731)		
Overall Height <i>in. (mm)</i>	49.5 (1257)			57.70 (1465)		
Liftover Height <i>in. (mm)</i>	40 (1016)			47.63 (1209)		
Door Width Requirement** <i>in. (mm)</i>	32.0 (813)			32.0 (813)		
Weight Empty <i>lb. (kg)</i>	475 (215)			515 (234)		
Weight Liquid Full* <i>lb. (kg)</i>	1134 (514)			1340 (608)		
<b>Blood Bag Capacities</b>	<b>Total Bags</b>	<b>Bags/Frame</b>	<b>No. Frames</b>	<b>Total Bags</b>	<b>Bags/Frame</b>	<b>No. Frames</b>
791 OS/U (25 ml)	1,224	6	204	1,836	9	204
4R9951 (50 ml)	768	6	128	1024	8	128
4R9953 (250 ml)	416	4	104	520	5	104
4R9955 (500 ml)	304	4	76	380	5	76
DF200 (200 ml)	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.