

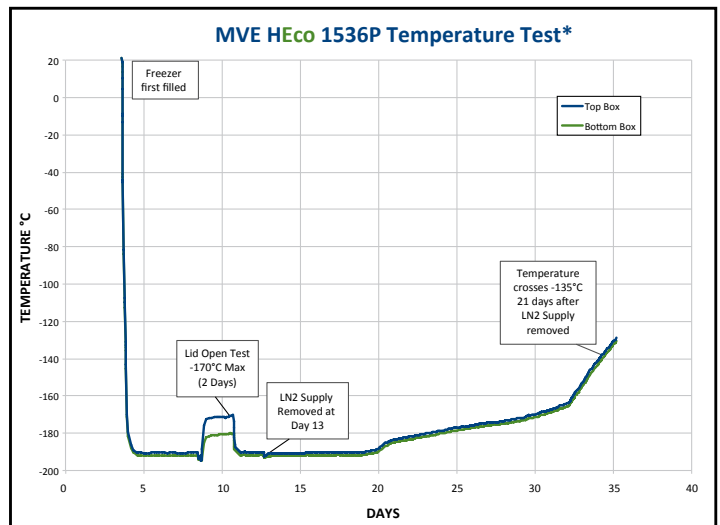
MVE HEco™ 1500 Series Freezers

The MVE HEco 1500 Series freezers provide a 20% reduction in LN2 usage, making them the most efficient vapor freezers available. These next generation high efficiency freezers incorporate a 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 1500 Series freezers are available in three unique sizes and provide maximum storage density as well as the longest hold time and highest sample security in the industry.

Available now for ease of ordering, HEco Series with Battery Backup has one part number.

Features include:

- 20% reduction in LN2 usage
- 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—ask about one part number to order HEco with battery backup installed!

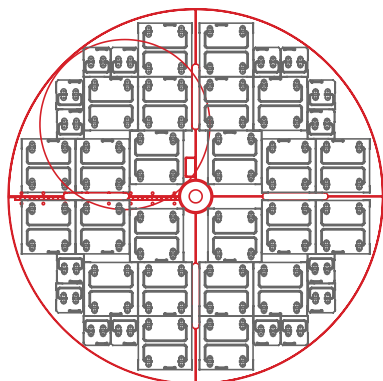


Temperature Test Graph

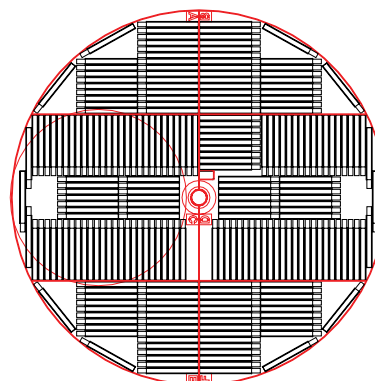
* Temperature test indicates typical performance of HEco Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

Rack Layouts

Square Rack Layout (P)



4R9951 Layout (R)



	MVE HEco 1536P-190	MVE HEco 1539P-190	MVE HEco 1542R-190						
Maximum Storage Capacity									
1.2 & 2 ml Vials (Internally Threaded)	36,400	39,200	42,000						
Quantity of Large <i>Racks</i> 100 cell boxes	24	24	26						
Quantity of Mini <i>Racks</i> 25 cell boxes	16	16	16						
Number of Shelves per Rack	13	14	14						
Performance									
LN2 Capacity w/o Inventory L est.	730	768	768						
LN2 Capacity at Vapor Platform L est.	115	115	115						
Static Hold Time—Vapor days	20	20	20						
Static Hold Time—Liquid Full days est.	112	118	118						
Unit Dimensions									
Neck Opening in. (mm)	17.4 (442)	17.4 (442)	17.4 (442)						
Usable Internal Height in. (mm)	28.8 (732)	30.2 (767)	30.8 (782)						
Inner Diameter in. (mm)	38.5 (978)	38.5 (978)	38.5 (978)						
Overall Height in. (mm)	54.7 (1389)	56.8 (1442)	56.8 (1442)						
Liftover Height in. (mm)	37.3 (947)	39.4 (999)	39.4 (999)						
Door Width Requirement** in. (mm)	42.0 (1067)	42.0 (1067)	42.0 (1067)						
Door Width Requirement, with handles** in. (mm)	43.3 (1099)	43.3 (1099)	43.3 (1099)						
Weight Empty* lb. (kg)	700 (318)	700 (318)	700 (318)						
Weight Liquid Full* lb. (kg) est.	2000 (907)	2100 (953)	2100 (953)						
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)	2,905	7	415	3,320	8 [†]	415	3,184	8 [†]	398
4R9951 (50 ml)	1,488	6	248	1,736	7	248	1,687	7	241
4R9953 (250 ml)	812	4	203	812	4	203	768	4	192
4R9955 (500 ml)	608	4	152	608	4	152	576	4	144
DF200 (200 ml)	496	4	124	496	4	124	488	4	122
DF700 (700 ml)	256	4	64	256	4	64	264	4	66

TWO Year Parts 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.

† Between usable height and clearance. Please refer to specifications.