

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.

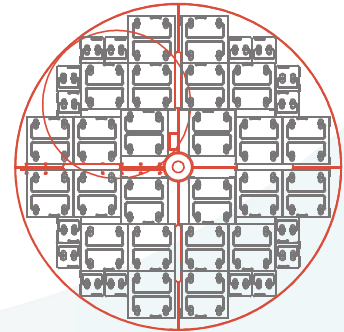
The technical and visual improvements combine to create a more aesthetically pleasing freezer that offers greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 800 Series freezers are available in three unique sizes and provide storage density as well as long hold times and high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

Key Features

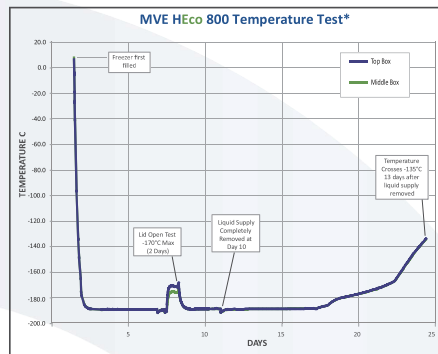
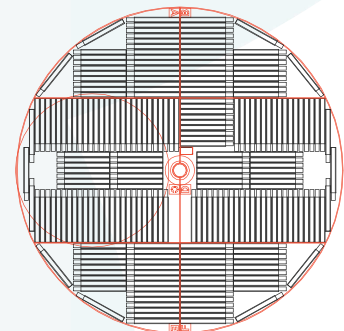
- LN₂ efficiency
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Single step standard
- Optional double-tier step

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.

MVE HEco™ 1500 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 1500 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.

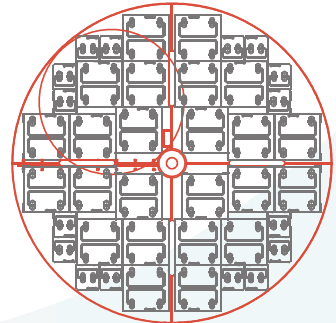
The technical and visual improvements combine to create a more aesthetically pleasing freezer that offers greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 1500 Series freezers are available in three unique sizes and provide storage density as well as long hold times and high sample security.

Key Features

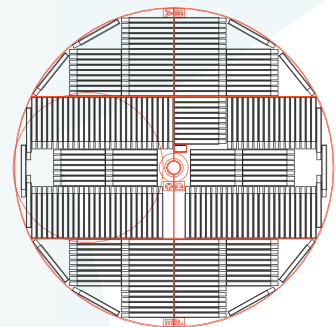
- LN₂ efficiency
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Two-tier folding step

Rack Layout

Square Rack Layout (P)



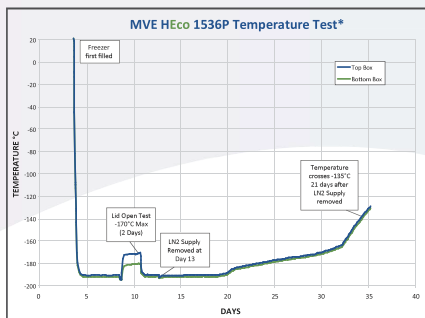
4R9951 Layout (R)





MVE HEco™ 1500 Series

	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 Racks 100 cell boxes	24	24	26						
○ Quantity of Mini Racks 25 cell boxes	16	16	16						
○ Number of Shelves per Rack	13	14	14						
Performance									
○ LN ₂ Capacity at Vapor Platform L est.	133	133	133						
○ LN ₂ Capacity w/o Inventory L est.	756	797	797						
Unit Dimensions									
○ Neck Opening in. (mm)	17.4 (442)	17.4 (442)	17.4 (442)						
○ Usable Internal Height in. (mm)	28.7 (730)	30.2 (767)	30.8 (782)						
○ Inner Diameter in. (mm)	38.5 (978)	38.5 (978)	38.5 (978)						
○ Overall Height in. (mm) TS Model	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



FIVE Year Vacuum Warranty • TWO Year Parts Warranty

* Without inventory
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 *** The TEC 3000 Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed.
 † Between usable height and clearance. Please refer to specifications.

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™ 1800 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 1800 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.

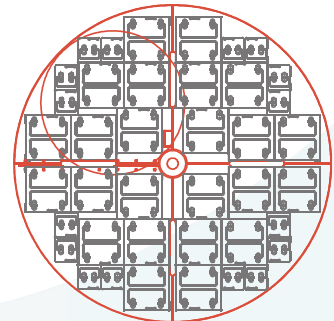
The technical and visual improvements combine to create a more aesthetically pleasing freezer that offers greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 1800 Series freezers are available in three unique sizes and provide storage density as well as long hold times and high sample security.

Key Features

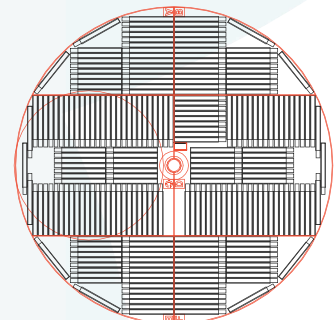
- LN₂ efficiency
- Fully enclosed wiring and plumbing
- Vacuum jacketed transfer hose
- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Two-tier folding step

Rack Layout

Square Rack Layout (P)



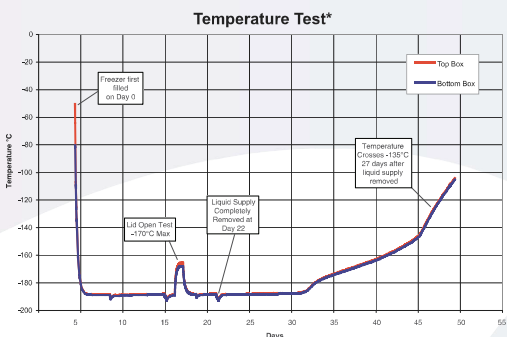
4R9951 Layout (R)





MVE HEco™ 1800 Series

	MVE HEco 1879P-190	MVE HEco 1881R-190	MVE HEco 1892P-190	MVE HEco 1894R-190								
Maximum Storage Capacity												
○ 1.2 & 2 ml Vials (Internally Threaded)	79,950	81,900	92,250	94,500								
○ Quantity of Large Racks 100 cell boxes	54	60	54	60								
○ Quantity of Mini Racks 25 cell boxes	30	12	30	12								
○ Number of Shelves per Rack	13	13	15	15								
Performance												
○ LN ₂ Capacity at Vapor Platform L est.	292	305	282	300								
○ LN ₂ Capacity w/o Inventory L est.	1516	1521	1737	1732								
Unit Dimensions												
○ Neck Opening in. (mm)	25 (635)	25 (635)	25 (635)	25 (635)								
○ Usable Internal Height in. (mm)	29.5 (749)	29.2 (741)	34.5 (876)	34.2 (868)								
○ Inner Diameter in. (mm)	56.0 (1422)	54.8 (1391)	56.0 (1422)	54.7 (1389)								
○ Overall Height in. (mm) TS Model	63.7 (1618)	63.7 (1618)	68.6 (1742)	68.6 (1742)								
○ Liftover Height in. (mm)	38.8 (985)	38.8 (985)	44.0 (1118)	44.0 (1118)								
○ Door Width Requirement** in. (mm)	60.0 (1524)	60.0 (1524)	60.0 (1524)	60.0 (1524)								
○ Weight Empty* lb. (kg)	1721 (781)	1721 (781)	1721 (781)	1721 (781)								
○ Weight Liquid Full* lb. (kg) est.	4830 (2191)	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	Total Bags	Bags/ Frame	No. Frames
791 OS/U Medsep (25 ml)	5,866	7	838	5,628	7	804	6,704	8	838	6,432	8	804
4R9951 (50 ml)	2,952	6	492	2,940	6	490	3,936	8	492	3,920	8	490
4R9953 (250 ml)	1,584	4	396	1,608	4	402	1,980	5	396	2,010	5	402
4R9955 (500 ml)	1,104	4	276	1,240	4	310	1,380	5	276	1,550	5	310
DF200 (200 ml)	960	4	240	984	4	246	1,200	5	240	1,230	5	246
DF700 (700 ml)	504	4	126	544	4	136	630	5	126	680	5	136



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Temperature Test Graph

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