

MVE High Efficiency 800 -190°C Series

Available with the TEC 3000

The MVE High Efficiency 800 Freezer Series provides vapor storage temperature at -190°C. Available in two unique sizes these freezers provide optimized storage density and provide long hold times. The MVE High Efficiency 800 Series freezer is capable of storing over 1800 blood bags.

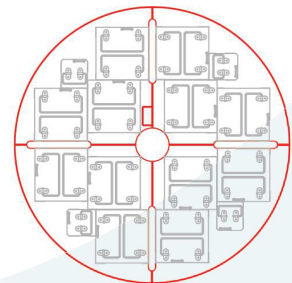
Key Features

- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Large LN₂ capacity at vapor platform
- Optional Battery Backup

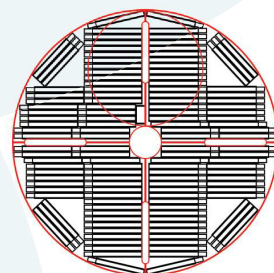


Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)





MVE High Efficiency 800 -190°C Series

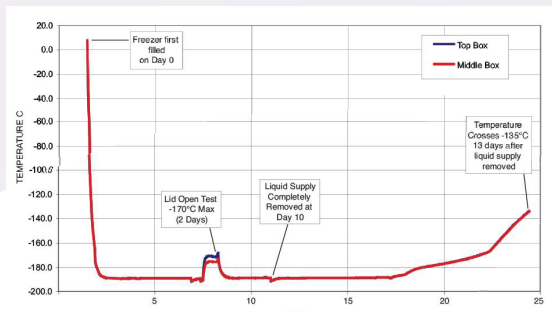
	MVE 815P-190	MVE 819P-190				
Maximum Storage Capacities						
○ 1.2 & 2 ml Vials (Internally Threaded)	15,600	19,500				
○ Quantity of Large Racks 100 cell boxes	12	12				
○ Quantity of Mini Racks 25 cell boxes	4	4				
○ Number of Shelves per Rack	12	15				
Performance						
○ LN ₂ Capacity at Vapor Platform L est.	62	55				
○ LN ₂ Capacity w/o Inventory L est.	360	463				
Unit Dimensions						
○ Neck Opening in. (mm)	12.5 (317)	12.5 (317)				
○ Usable Internal Height in. (mm)	26.5 (673)	34.5 (877)				
○ Inner Diameter in. (mm)	28.8 (731)	28.8 (731)				
○ Overall Height w/Autofill in. (mm)	58.2 (1478)	65.0 (1651)				
○ Door Width Requirement** in. (mm)	32.0 (813)	32.0 (813)				
○ Door Width Requirement** with handles in. (mm)	33.2 (843)	33.2 (843)				
○ Weight Empty* lb. (kg)	480 (218)	515 (234)				
○ Weight Liquid Full* lb. (kg) est.	1160 (526)	1340 (608)				
Blood Bag Capacities						
	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
○ 791 OS/U Medsep (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

FIVE Year Vacuum Warranty • TWO Year Parts 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.



Temperature Test Graph

* Temp Test indicates typical performance of 800 Series -190°C freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

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MVE High Efficiency 1500 -190°C Series

Available with the TEC 3000

The MVE 1500 Series -190°C freezers provide cryogenic storage for up to 42,000 1.2 / 2.0 ml vials. Available in three unique sizes, these freezers provide maximum storage density and provide long hold times. The MVE High Efficiency 1500 Series freezer is capable of storing over 3100 blood bags.

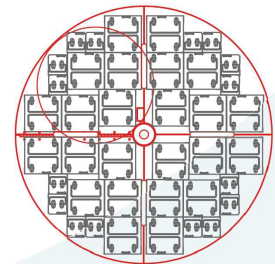
Key Features

- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Large LN₂ capacity at vapor platform
- Optional Battery Backup

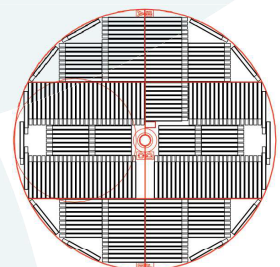


Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)





MVE High Efficiency 1500 -190°C Series

	MVE 1536P-190	MVE 1539P-190	MVE 1542R-190						
Maximum Storage Capacities									
○ 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)	17.5 (445)	17.5 (445)	17.5 (445)						
○ Usable Internal Height in. (mm)	28.8 (732)	30.8 (782)	30.8 (782)						
○ Inner Diameter in. (mm)	38.5 (978)	38.5 (978)	38.7 (983)						
○ Overall Height w/ AutoFill in. (mm)	61.3 (1556)	63.3 (1608)	63.3 (1608)						
○ Liftover Height in. (mm)	37.1 (942)	39.2 (995)	39.2 (995)						
○ Door Width Requirement** in. (mm)	42.0 (1067)	42.0 (1067)	42.0 (1067)						
○ Depth of Extended Step in. (mm)	7.9 (201)	7.9 (201)	7.9 (201)						
○ Weight Empty* lb. (kg)	690 (313)	720 (327)	720 (327)						
○ Weight Liquid Full* lb. (kg) est.	2037 (924)	2140 (971)	2140 (971)						
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

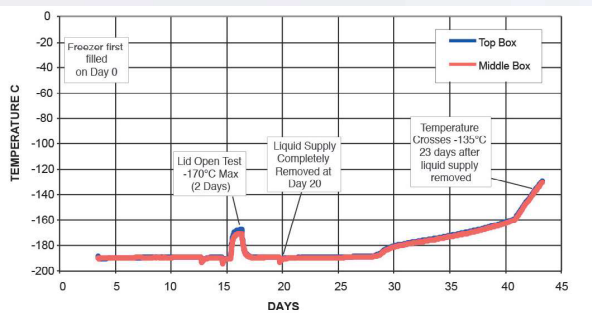
FIVE Year Vacuum Warranty • TWO Year Parts Warranty

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.



Temperature Test Graph

* Temp Test indicates typical performance of 1500 Series -190°C freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

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MVE High Efficiency 1800 -190°C Series

Available with the TEC 3000

The MVE 1800 Series -190°C freezers provide cryogenic storage for up to 94,500 1.2 / 2.0 ml vials. These freezers provide maximum storage density and provide long hold times. The MVE High Efficiency 1800 Series freezer is capable of holding over 8,400 blood bags.

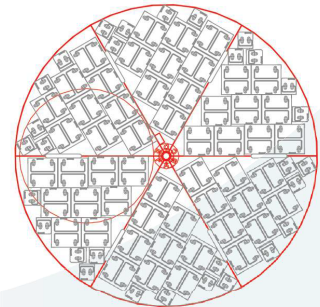
Key Features

- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Large LN₂ capacity at vapor platform
- Two tier folding step
- Optional Battery Backup

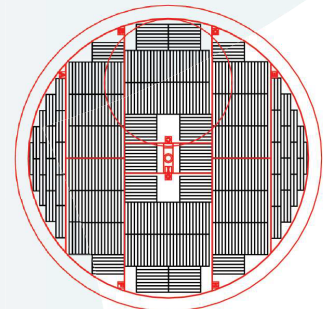


Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)





MVE High Efficiency 1800 -190°C Series

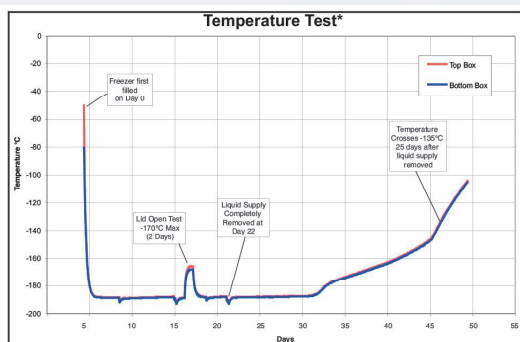
	MVE 1879P-190	MVE 1881R-190	MVE 1892P-190	MVE 1894R-190								
Maximum Storage Capacities												
○ 1.2 & 2 ml Vials (Internally Threaded)	79,950	81,900	92,250	94,500								
○ Quantity of Large Racks 100 cell boxes	54	60	54	60								
○ Quantity of Mini Racks 25 cell boxes	30	12	30	12								
○ Number of Shelves per Rack	13	13	15	15								
Performance												
○ LN ₂ Capacity at Platform Vapor L est.	290	305	282	300								
○ LN ₂ Capacity w/o Inventory L est.	1540	1521	1736	1731								
Unit Dimensions												
○ Neck Opening in. (mm)	25.0 (635)	25.0 (635)	25.0 (635)	25.0 (635)								
○ Usable Internal Height in. (mm)	29.5 (749)	29.2 (742)	34.5 (876)	34.2 (868)								
○ Inner Diameter in. (mm)	56.0 (1422)	54.8 (1391)	54.8 (1391)	54.8 (1391)								
○ Overall Height w/AutoFill in. (mm)	68.2 (1732)	68.2 (1732)	73.2 (1860)	73.2 (1860)								
○ 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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