

# MVE 1500 Series -190°C High Efficiency Freezer

The MVE 1500 Series -190°C freezers provide cryogenic storage for up to 42,000 1.2 / 2.0 ml vials. These freezers provide maximum storage density and provide the industry's longest hold time.

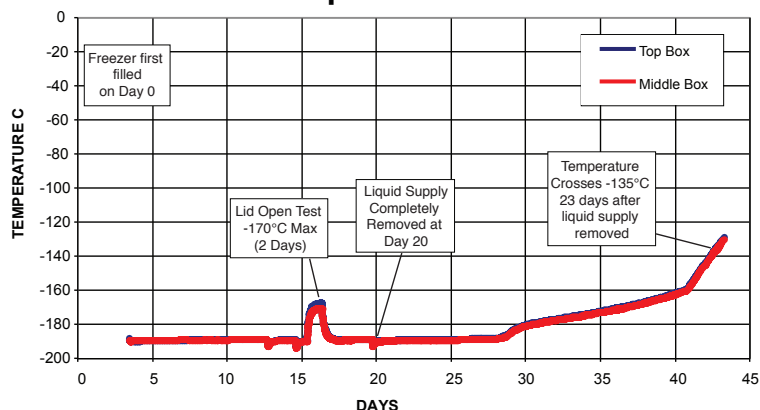
*Also available in -150°C versions*

## Features include:

- Dry sample storage
- -190°C top box temperature
- Lowest liftover height
- Largest LN2 capacity below turn tray
- 2-tier folding step



## Temperature Test\*



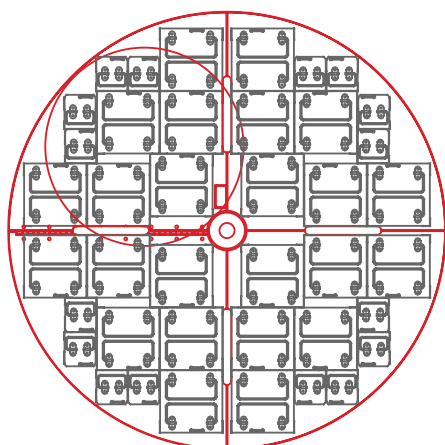
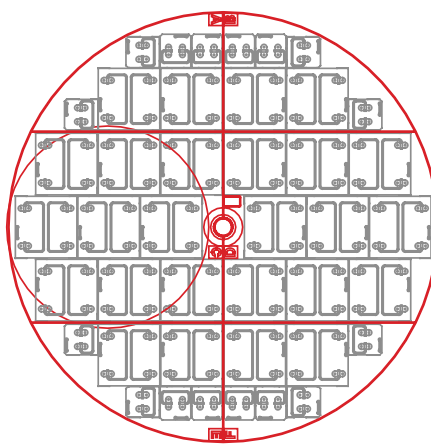
## Temperature Test Graph

\* 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.

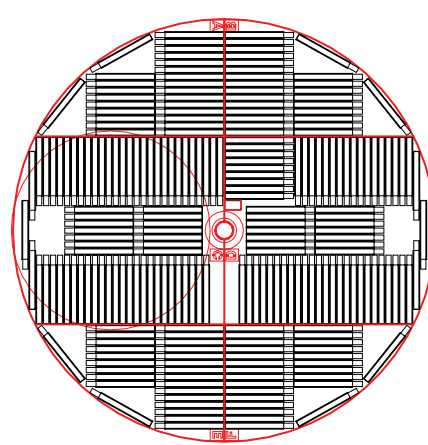
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Square Rack Layout (P)


Rack Layouts  
Square Rack Layout (R)


4R9551 Layout (R)



MVE 1536P-190

MVE 1539P-190

MVE 1542R-190

### Maximum Storage Capacity

1.2 & 2 ml Vials (Internally Threaded)	36,400	39,200	42,000
Number of Racks 100 cell boxes	24	24	26
Number of Racks 25 cell boxes	16	16	16
Number of Stages per Rack	13	14	14
High Security Straw Capacity (0.5 ml)	100,800	100,800	100,800
Number of Canisters (73 mm)	120	120	120
Goblets/Canister : Straws/Goblet	5:168	5:168	5:168

### Performance

LN2 Capacity L	756	797	797
LN2 Capacity Under Platform Vapor Storage L	133	133	133

### 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 in. (mm)	61.3 (1556)	63.3 (1607)	63.3 (1607)
Liftover Height in. (mm)	37.0 (940)	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)	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 (25 ml)	2,905	7	415	3,320	8	415	3,184	8	398
Compact (25ml)	4,338	9	482	4,338	9	482	4,464	9	496
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 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.