

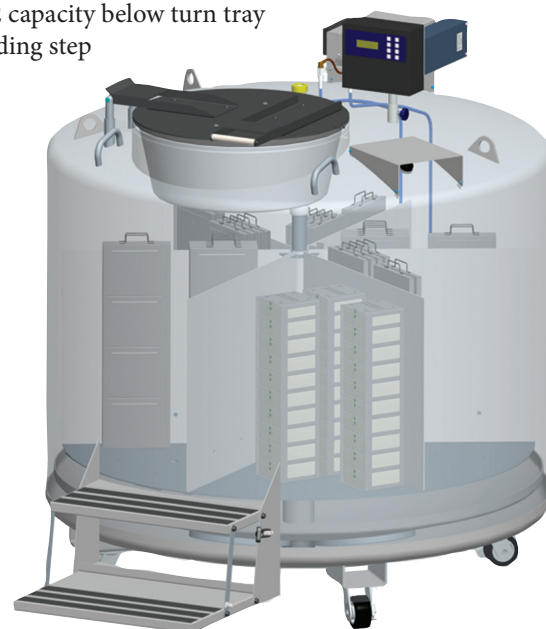
MVE 1800 Series -190°C High Efficiency Freezer

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 the industry's longest hold time.

Also available in -150°C versions

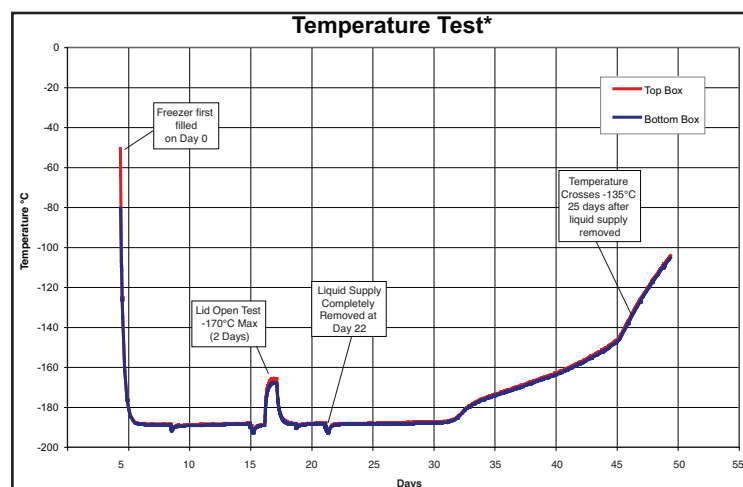
Features include:

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



Temperature Test Graph

* Temp Test indicates typical performance of 1800 Series -190°C freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

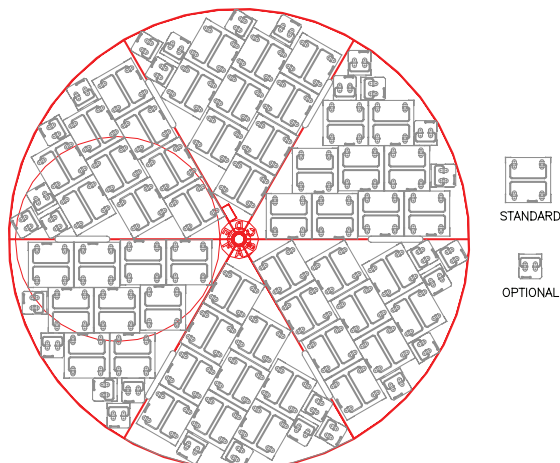


Visit www.chartbiomed.com for more information.

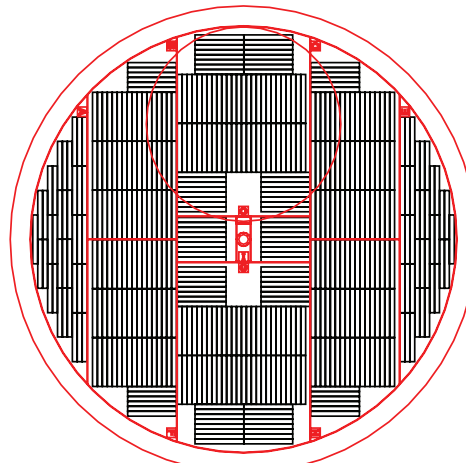
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Rack Layouts

Square Rack Layout (P)



4R9951 Layout (R)



MVE 1879P-190

MVE 1881R-190

MVE 1892P-190

MVE 1894R-190

Maximum Storage Capacity

1.2 & 2 ml Vials

| (Internally Threaded) | 79,950 | 81,900 | 92,250 | 94,500 |
|---------------------------------------|---------|---------|---------|---------|
| Number of Racks 100 cell boxes | 54 | 60 | 54 | 60 |
| Number of Racks 25 cell boxes | 30 | 12 | 30 | 12 |
| Number of Stages per Rack | 13 | 13 | 15 | 15 |
| High Security Straw Capacity (0.5 ml) | 236,880 | 213,360 | 284,256 | 256,032 |
| Number of Canisters (73 mm) | 282 | 254 | 282 | 254 |
| Goblets/Canister : Straws/Goblet | 5:168 | 5:168 | 6:168 | 6:168 |

Performance

| | | | | |
|--------------------------|------|------|------|------|
| LN2 Capacity L | 1745 | 1745 | 1770 | 1770 |
| LN2 Capacity Under | | | | |
| Platform Vapor Storage L | 318 | 318 | 296 | 296 |

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 (741) | 34.5 (876) | 34.2 (868) |
| Inner Diameter in. (mm) | 56.0 (1422) | 54.8 (1391) | 56.0 (1422) | 54.8 (1391) |
| Overall Height in. (mm) | 62.1 (1577) | 61.3 (1556) | 67.1 (1704) | 66.3 (1683) |
| Door Width Requirement** in. (mm) | 60.0 (1524) | 60.0 (1524) | 60.0 (1524) | 60.0 (1524) |
| Weight Empty in. (mm) | 1606 (728) | 1721 (781) | 1545 (701) | 1721 (781) |
| Weight Liquid Full* in. (mm) | 4585 (2080) | 4830 (2192) | 4803 (2179) | 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 (25 ml) | 5,866 | 7 | 838 | 5,628 | 7 | 804 | 6,704 | 8 | 838 | 6,432 | 8 | 804 |
| Compact (25ml) | 8,622 | 9 | 958 | 9,414 | 9 | 1,046 | 10,538 | 11 | 958 | 11,506 | 11 | 1,046 |
| 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 |

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.