



# 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.

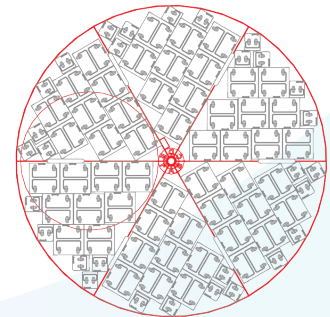
## Key Features

- Dry sample storage
- -190°C top box temperature
- Low liftover height
- Large LN<sub>2</sub> capacity at vapor platform
- Two tier folding step
- Optional Battery Backup

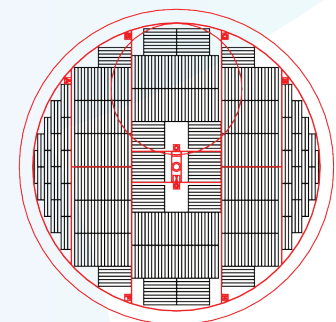


## Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)



# MVE High Efficiency 1800 -190°C Series

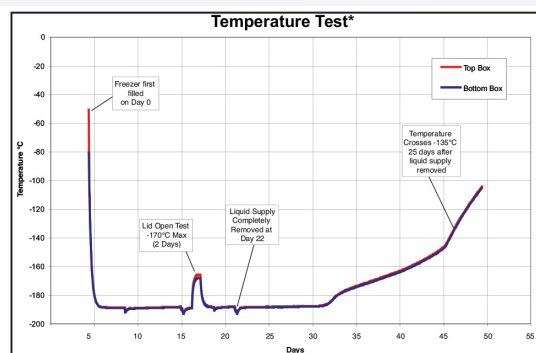
|   | MVE 1879P-190     | MVE 1881R-190      | MVE 1892P-190     | MVE 1894R-190     |                    |                   |                   |                    |                   |                   |                    |                   |
|---|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| <b>Maximum Storage Capacities</b>                   |                   |                    |                   |                   |                    |                   |                   |                    |                   |                   |                    |                   |
| ○ 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                |                    |                   |                   |                    |                   |                   |                    |                   |
| <b>Performance</b>                                  |                   |                    |                   |                   |                    |                   |                   |                    |                   |                   |                    |                   |
| ○ LN <sub>2</sub> Capacity at Platform Vapor L est. | 290               | 305                | 282               | 300               |                    |                   |                   |                    |                   |                   |                    |                   |
| ○ LN <sub>2</sub> Capacity w/o Inventory L est.     | 1540              | 1521               | 1736              | 1731              |                    |                   |                   |                    |                   |                   |                    |                   |
| <b>Unit Dimensions</b>                              |                   |                    |                   |                   |                    |                   |                   |                    |                   |                   |                    |                   |
| ○ 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)       |                    |                   |                   |                    |                   |                   |                    |                   |
| <b>Blood Bag Capacities</b>                         |                   |                    |                   |                   |                    |                   |                   |                    |                   |                   |                    |                   |
|   | <b>Total Bags</b> | <b>Bags/ Frame</b> | <b>No. Frames</b> | <b>Total Bags</b> | <b>Bags/ Frame</b> | <b>No. Frames</b> | <b>Total Bags</b> | <b>Bags/ Frame</b> | <b>No. Frames</b> | <b>Total Bags</b> | <b>Bags/ Frame</b> | <b>No. Frames</b> |
| ○ 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               |

## 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 1800 Series -190°C freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.