



CRYOGENIC PRODUCTS & SERVICES

- Design
- Installation
- Service
- Inspection

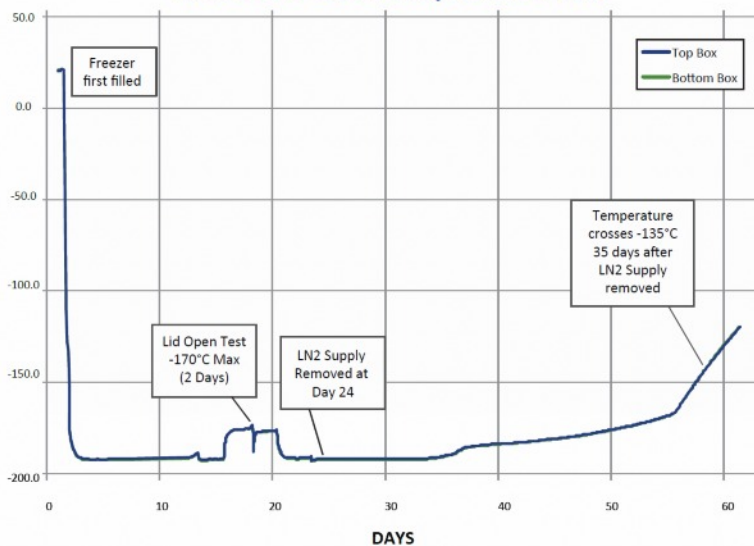
THAMES CRYOGENICS LTD
Total Cryogenic Solutions

MVE HEco 1800 Series

The new MVE HEco 1800 Series freezers provide a 20% reduction in LN2 usage, making them the most efficient vapor freezers available. The 1800 series provides option for greater storage in one freezer. These next generation high efficiency freezers incorporate new hinged work surfaces that fully enclose all electronics and plumbing to enhance overall safety and usability. The technical and visual improvements provide an aesthetically more pleasing freezer while offering greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 1800 Series freezers provide maximum storage density as well as the longest hold time and highest sample security in the industry.



MVE HEco 1800 Temperature Test*



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.

Key Features

- 20% reduction in LN2 usage
- Fully enclosed wiring and plumbing
- Vacuum insulated transfer hose
- Dry Sample storage
- 190°C top box temperature
- Lowest liftover height
- Two tier folding step as standard

TWO Year Standard Warranty • FIVE Year Vacuum Warranty

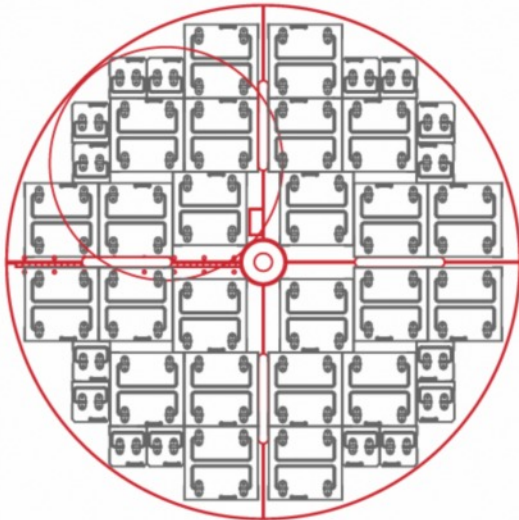
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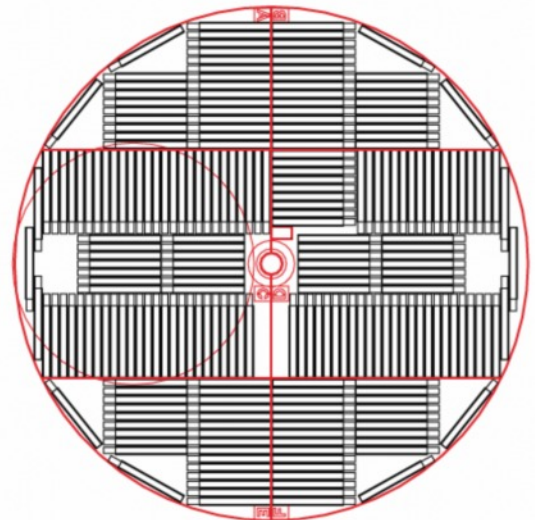
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Rack Layouts

Square Rack Layout (P)



4R9951 Layout (R)



**MVE HEco
1879P-190**

**MVE HEco
1892P-190**

**MVE HEco
1894R-190**

	MVE HEco 1879P-190	MVE HEco 1892P-190	MVE HEco 1894R-190
Maximum Storage Capacity			
1.2 & 2 ml Vials (Internally Threaded)	79,950	92,250	94,500
Number of Racks 100 cell boxes	54	54	60
Number of Racks 25 cell boxes	30	30	12
Number of Stages per Rack	13	15	15
Performance			
LN2 Capacity L	1745	1770	1770
LN2 Capacity Under Tray L	318	295	295
Static Hold Time—Vapor days	35	30	30
Static Hold Time—Liquid Full days	174	177	177
Unit Dimensions			
Neck Opening in. (mm)	24.7 (627)	24.7 (627)	24.7 (627)
Usable Internal Height in. (mm)	29.5 (749)	34.5 (876)	34.2 (868)
Inner Diameter in. (mm)	56.0 (1422)	56.0 (1422)	54.7 (1389)
Overall Height in. (mm)	63.7 (1618)	68.6 (1742)	68.6 (1742)
Liftover Height in. (mm)	38.8 (985)	44.0 (1118)	44.0 (1118)
Door Width Requirement** in. (mm)	60.0 (1524)	60.0 (1524)	60.0 (1524)
Weight Empty lb. (kg)	1712 (781)	1721 (781)	1721 (781)
Weight Liquid Full* lb. (kg)	4830 (2191)	4875 (2211)	4875 (2211)

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