



# CRYOGENIC PRODUCTS & SERVICES

- Design
- Installation
- Service
- Inspection

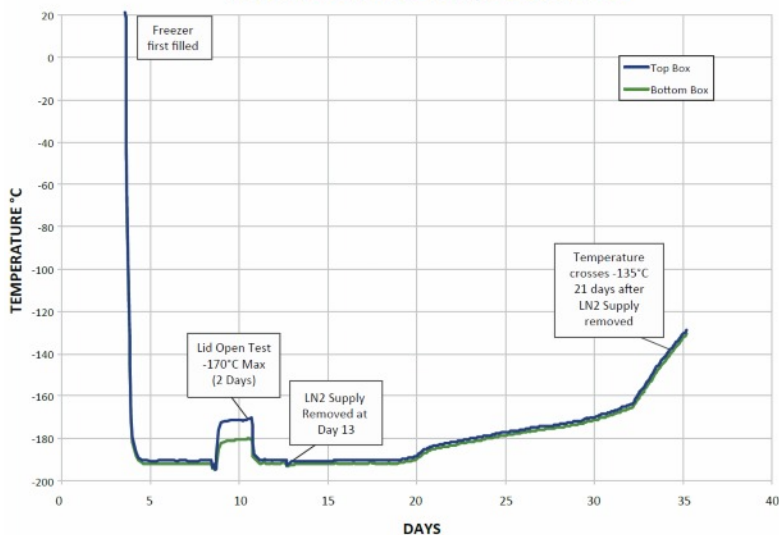
**THAMES CRYOGENICS LTD**  
Total Cryogenic Solutions

## MVE HEco 1500 Series

The new MVE HEco 1500 Series freezers provide a 20% reduction in LN2 usage, making them the most efficient vapor freezers available. 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 combine to create a more aesthetically pleasing freezer that offers greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco 1500 Series freezers provide maximum storage density as well as the longest hold time and highest sample security in the industry.










MVE HEco 1536P 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**

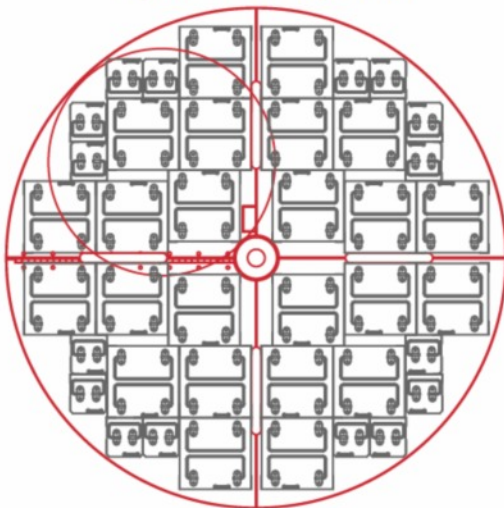
[www.thamescryogenics.com](http://www.thamescryogenics.com)

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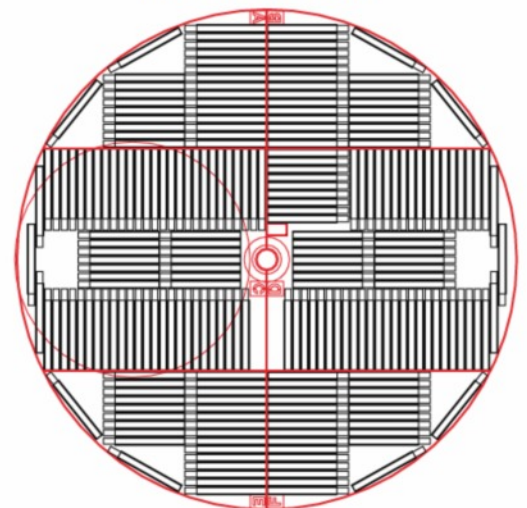
Tel: +44 (0)1235 815777

## Rack Layouts

Square Rack Layout (P)



4R9951 Layout (R)



	MVE HEco 1536P-190	MVE HEco 1539P-190	MVE HEco 1542R-190
<b>Maximum Storage Capacity</b>			
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
<b>Performance</b>			
LN2 Capacity <i>L</i>	730	797	797
LN2 Capacity Under Tray <i>L</i>	115	133	133
Static Hold Time—Vapor <i>days</i>	21	20	20
Static Hold Time—Liquid Full <i>days</i>	112	118	118
<b>Unit Dimensions</b>			
Neck Opening <i>in. (mm)</i>	17.4 (442)	17.5 (445)	17.5 (445)
Usable Internal Height <i>in. (mm)</i>	28.8 (732)	30.8 (782)	30.8 (782)
Inner Diameter <i>in. (mm)</i>	38.5 (978)	38.5 (978)	38.7 (983)
Overall Height <i>in. (mm)</i>	54.7 (1389)	63.3 (1607)	63.3 (1607)
Liftover Height <i>in. (mm)</i>	37.3 (947)	39.2 (995)	39.2 (995)
Door Width Requirement** <i>in. (mm)</i>	42.0 (1067)	42.0 (1067)	42.0 (1067)
Weight Empty <i>lb. (kg)</i>	700 (318)	720 (327)	720 (327)