



# CRYOGENIC PRODUCTS & SERVICES

Design

Installation

Service

Inspection

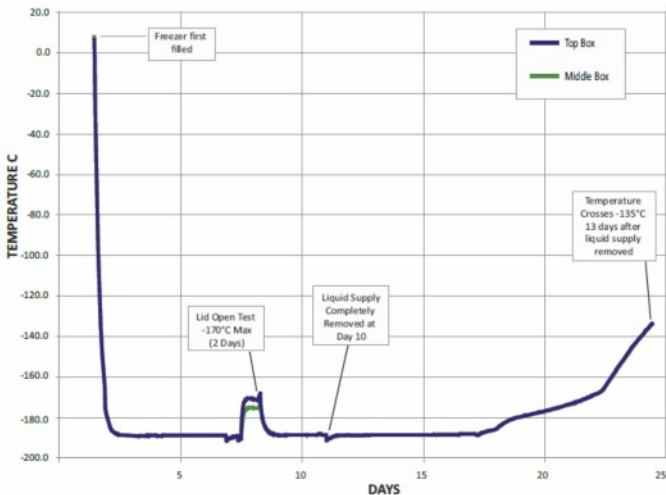
THAMES CRYOGENICS LTD  
Total Cryogenic Solutions

## MVE HEco 800 Series

With their streamlined LN2 plumbing and vacuum insulated transfer hose, the new MVE HEco 800 Series freezers provide a 10% reduction in LN2 usage, making them the most efficient vapour freezers available. These next generation high efficiency freezers incorporate 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 800 Series freezers provide maximum storage density as well as the longest hold time and highest sample security in the industry.



MVE HEco 800 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

- 10% reduction in LN2 usage
- Fully enclosed wiring and plumbing
- Vacuum insulated transfer hose
- Dry Sample storage
- 190°C top box temperature
- Lowest liftover height
- Single step as standard

TWO Year Standard Warranty • FIVE Year Vacuum Warranty

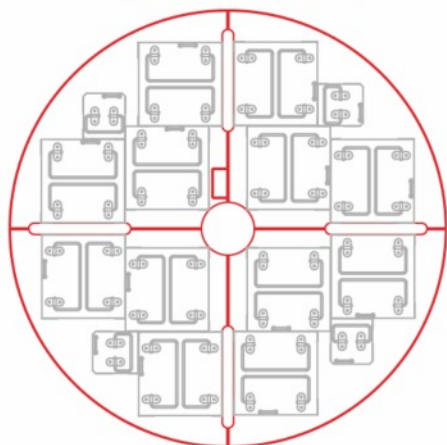
[www.thamescryogenics.com](http://www.thamescryogenics.com)

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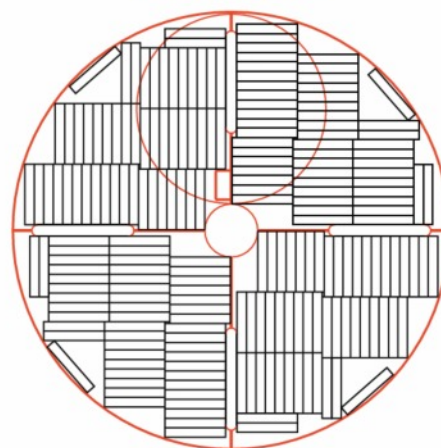
Tel: +44 (0)1235 815777

## Rack Layouts

Square Rack Layout (P)



791 OS/U Layout



**MVE HEco 815P-190**

**MVE HEco 818P-190**

**MVE HEco 819P-190**

	<b>MVE HEco 815P-190</b>	<b>MVE HEco 818P-190</b>	<b>MVE HEco 819P-190</b>
<b>Maximum Storage Capacity</b>			
1.2 & 2 ml Vials (Internally Threaded)	15,600	18,200	19,500
Number of Racks <i>100 cell boxes</i>	12	12	12
Number of Racks <i>25 cell boxes</i>	4	4	4
Number of Stages per Rack	12	14	15
<b>Performance</b>			
LN2 Capacity <i>L</i>	370	420	463
LN2 Capacity Under Tray <i>L</i>	52	55	55
Static Hold Time—Vapor <i>days</i>	10	11	11
Static Hold Time—Liquid Full <i>days</i>	74	84	92
<b>Unit Dimensions</b>			
Neck Opening <i>in. (mm)</i>	12.5 (317)	12.5 (317)	12.5 (317)
Usable Internal Height <i>in. (mm)</i>	26.6 (676)	30.7 (78)	34.5 (877)
Inner Diameter <i>in. (mm)</i>	28.8 (731)	28.8 (731)	28.8 (731)
Overall Height <i>in. (mm)</i>	49.5 (1257)	53.9 (1370)	57.70 (1465)
Liftover Height <i>in. (mm)</i>	40 (1016)	43.8 (1115)	47.63 (1209)
Door Width Requirement** <i>in. (mm)</i>	32.0 (813)	32.0 (813)	32.0 (813)
Weight Empty <i>lb. (kg)</i>	475 (215)	495 (225)	515 (234)
Weight Liquid Full* <i>lb. (kg)</i>	1134 (514)	1168 (530)	1340 (608)