

MVE Series

Liquid Nitrogen Freezers



MVE Cryo-Preservation Systems are designed for the user who needs either vapor or liquid storage. A large neck opening and stainless steel construction provides the most durable environment for your biological samples. With advanced features and storage from 4,000 vials to 56,000 vials, the MVE series is the perfect choice.

The now standard “One fill, all fill” feature drives every freezer in a network to top up each time any of the network freezers calls for a fill. This helps to minimize transfer losses.

Optional Features:

- **Battery Back-Up.** This option will provide fill operation for 72 hours in the event of power supply failure.
- **Gas By-Pass.** Monitors the temperature in the fill line at the start of the filling process. Until the line temperature falls below a level determined by the user (usually -130°C) the fill line is vented to atmosphere. Once the line is

sufficiently cold, the vent valve closes and the fill to the freezer begins. This reduces losses due to warm gas boiling off liquid already in the tank, and in conjunction with the one fill, all fill feature of the TEC2000 will optimize fill efficiency.

Accessories:

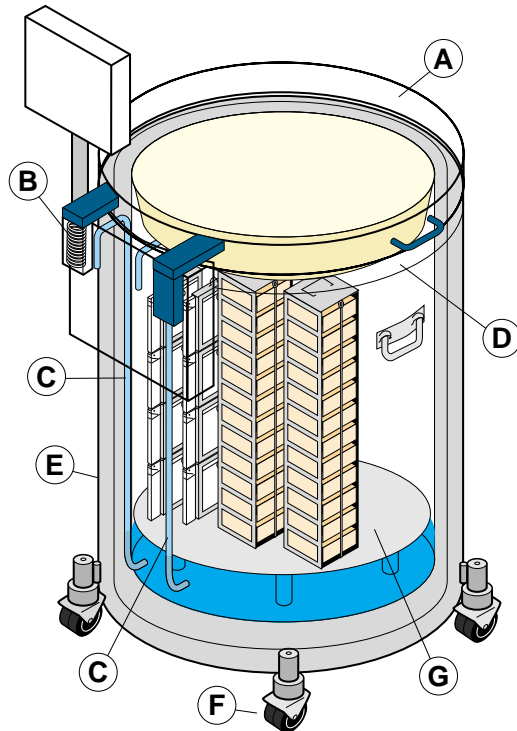
- Square Racks– stainless or aluminum
- Cardboard Boxes (81 cell)
- Plastic Boxes (25 cell and 100 cell)
- SUC Boxes
- Canes and Protectors
- Cryogenic Gloves



MVE Series

Specifications

MODEL	MVE 230II		MVE 511		MVE 611		MVE 1411		MVE 1841	
<i>Maximum Storage Capacity</i>										
Number of 1.2 & 2.0 ml vials in racks	5200		10,400		16,900		26,650		39,000	
Number of racks (100 vials)	4 (13/2 rack)		7 (13/2 rack)		12(13/2 rack)		18 (13/2 rack)		28 (13/2 rack)	
Number of racks (25 vials)	-		4 (13/2 rack)		4 (13/2 rack)		10 (13/2 rack)		8 (13/2 rack)	
Total number of racks	4		11		16		28		36	
Number of blood bag stored (Fenwal 4R-5461)	132		224						856	
<i>Performance</i>										
Liquid nitrogen capacity (liters)	89		158		236		375		669	
Power supply	24 VDC		24 VDC		24 VDC		24 VDC		24 VDC	
<i>Unit Dimensions</i>										
Neck opening (in/mm)	16.0	408	20.8	528	25.13	638	31.75	958	39.5	1003
Usable height (in/mm)	28.9	735	28.6	726	29.81	731	28.7	726	33.3	846
Overall height (in/mm)	45.25	1150	44.2	1123	40.69	1033	40.38	1026	48	1219
Outside diameter (in/mm)	18.0	457	22.75	579	27.38	695	40.06	1018	42	1067
Internal diameter (in/mm)	16.0	408	20.8	528	25.13	638	31.75	958	39.5	1003
Weight empty (lbs/kg)	125	57	242	110	283	128	530	240	675	306
Weight full (lbs/kg)	283	129	524	238	704	319	1198	543	1867	847



- A Metal lid construction—designed for longer life
- B Tough, durable hinges
- C Annular filling lines to reduce frost and ice formation
- D Lowest under lid temperature in the industry
- E Low maintenance , all-stainless steel construction
- F Tough, durable casters
- G Optional vapor platform

Five year vacuum warranty



MVE Bio-Medical Division, Chart Industries, Inc.
 3505 County Road 42 West, Burnsville, MN 55306-3803 U.S.A.
 Phone: 952-882-5000 . 888-683-2796 Local Fax: 952-882-5172 . www.chart-ind.com

