

# MVE Series

## Liquid Nitrogen Freezers



MVE Cryo-Preservation Systems are designed for the user who needs either vapor or liquid storage. A wide 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 choice of laboratories worldwide.

### 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  $-130^{\circ}\text{C}$ ) 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:

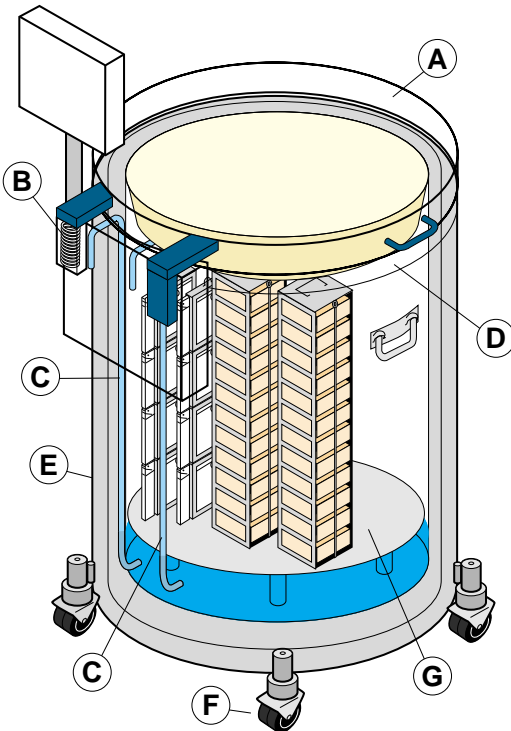
- Square Racks– stainless or aluminum
- Cardboard Boxes (81 cell)
- Plastic Boxes (25 cell and 100 cell)
- SUC Boxes
- Canes and Protectors
- Cryogenic Gloves



# MVE Series

## Specifications

MODEL	MVE 230*	MVE 230II	MVE 511	MVE 611	MVE 1411	MVE 1841
<b>Maximum Storage Capacity</b>						
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)	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	4	11	16	28	36
Number of blood bags stored (Fenwal 4R-5461)	-	132	224	86	136	856
<b>Performance</b>						
Liquid nitrogen capacity (liters)	63	89	158	236	375	669
Power supply	-	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
<b>Unit Dimensions</b>						
Neck opening (in/mm)	16.1 408	16.0 408	20.8 528	25.13 638	31.75 958	39.5 1003
Usable height (in/mm)	19.38 492	28.9 735	28.6 726	29.81 731	28.7 726	33.3 846
Overall height (in/mm)	30.25 768	45.25 1150	44.2 1123	40.69 1033	40.38 1026	48 1219
Outside diameter (in/mm)	18 457	18.0 457	22.75 579	27.38 695	40.06 1018	42 1067
Internal diameter (in/mm)	16.1 408	16.0 408	20.8 528	25.13 638	31.75 958	39.5 1003
Weight empty (lbs/kg)	79 36	125 57	242 110	283 128	530 240	675 306
Weight full (lbs/kg)	191 87	283 129	524 238	704 319	1198 543	1867 847
*Number of SUC-1 Canisters is	22					



- 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*



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