

MVE HE Plus Series

High Efficiency Storage In Liquid Vapor

MVE HE Series freezers have been designed to provide the highest efficiency freezing systems in the world....period. With over 90% of the system covered by super insulated vacuum, the HE series exhibit very low heat leak and consequent LN₂ usage rates. In fact, the HE units can show LN₂ cost savings of up to 70% compared to standard storage units of equivalent capacity. Additionally, the low liquid nitrogen usage allows for a total static hold time of up to 6 months when used liquid full.



MVE HE PLUS SERIES

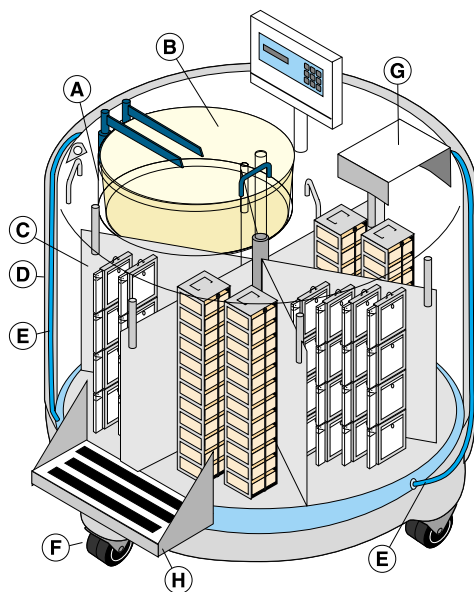
- The offset neck and guaranteed free moving sample turn tray offer incredible user convenience and sample access and the single sample retrieval point is incredibly ergonomic compared to the reaching and stretching required with standard freezers.
- Efficient thermal design ensures 95% of system surface area enclosed by vacuum - compare to typical 60% in standard freezers.
- Lowest liquid usage - LN₂ cost savings of up to 70% compared to standard storage units of equivalent capacity.
- No artificial aids required to lower and maintain temperature as with competitive tanks. HE Series achieves the lowest running cost/sample.
- Liquid reservoir below sample platform will typically maintain temperature for more than 20 days in vapor use.
- Extended internal storage space for extra capacity storage.

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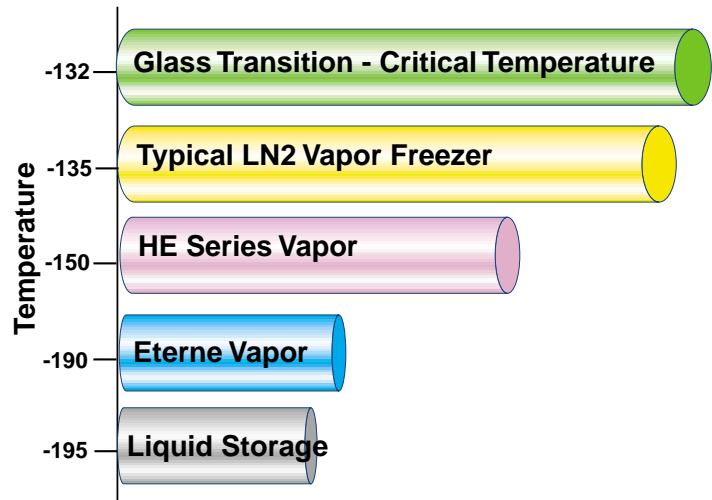
Specifications

	MVE 810HE+	MVE1520HE+	MVE1830HE+
UNIT DIMENSIONS			
LN2 Capacity (Liters)	377	797	1829
LN2 Capacity Under Platform (L)	52	133	296
Neck Opening (In/mm)	12.5 / 317.5	17.5 / 444.5	25 / 1735
Useable Internal Height (In/mm)	31.75 / 806.5	30.8 / 781.8	34.5 / 876
Inner Diameter (In/mm)	28.78 / 731	38.5 / 977.9	56 / 1422
Overall Height (In/mm)	53.3 / 1353.3	62.8 / 1595.7	68.3 / 1735
Outer Diameter (In/mm)	32 / 812.8	42 / 1066.8	60 / 1524
Weight Empty (Lbs/Kg)	378 / 171		1545 / 701
UNIT CAPACITIES - VIALS			
1.2 & 2 ml Vials (Internally Threaded)			
Number of Racks (100 cell boxes)	12	24	54
Number of Racks (25 cell boxes)	4	8	30
Number of Stages per Rack	14	14	15
Total Vial Capacity	18,200	36,400	92,250



- A Offset neck design to maintain -150°C in vapor storage and provide low liquid nitrogen consumption with standard racks
- B Durable aluminum lid - designed for longer life
- C Rotating interior tray provides easy access to cryobiological samples
- D Low Maintenance, all-stainless steel construction
- E Annular filling lines reduces frost and ice formation near lid
- F Super-tough, durable casters
- G Rack Stand
- H Step-up platform (MVE 1520HE, 1830HE)

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Unit Capacities - MVE 810HE Blood Bags	Frame Ht (In/mm)	Bags/Frame	No. Frames	Total Bags
4R9951	25.5 / 648	6	111	666
4R9953	26 / 661	4	95	380
4R9955	26 / 661	4	68	272
Unit Capacities - MVE 1520HE Blood Bags				
4R9951	25.5 / 648	6	224	1,344
4R9953	26 / 661	4	190	760
4R9955	26 / 661	4	180	720
Unit Capacities - MVE 1830HE Blood Bags				
4R9951	25.5 / 648	6	480	2,880
4R9953	26 / 661	4	390	1,560
4R9955	26 / 661	4	276	1,104
MedSep 810		6	138	828
MedSep 1830		7	828	5796
MedSep 1520		6	428	2568

FIVE Year Vacuum Warranty

Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU.

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