



MVE Fusion® Freezer

Self-sustaining cryogenic freezer

Satisfying the need to minimize or obsolete liquid nitrogen infrastructure, MVE created the MVE Fusion Freezer, the world's first self-sustaining cryogenic freezer. The MVE Fusion is a refrigerated liquid-based bio-storage freezer, similar in appearance and construction to an MVE High Efficiency LN₂ freezer. The MVE Fusion is designed to provide cold storage capabilities, with no need for regular ongoing liquid nitrogen supply source. The MVE Fusion can be used in remote locations, isolated rooms, high elevation facilities, and facilities with little or no vacuum jacketed pipe infrastructures. The MVE Fusion does not require constant LN₂ supply.

Key Features

- Self-sustaining
- Dry sample storage
- Low liftover height
- Two tier folding step



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Maximum Storage Capacity

○ 1.2 & 2 ml Vials (Internally Threaded)	31,200
○ Number of Racks 100 cell boxes	20
○ Number of Racks 25 cell boxes	16
○ Number of Stages per Rack	13

Performance

○ LN ₂ Capacity L	50 (inner pressure vessel)
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Unit Dimensions

○ Neck Opening in. (mm)	12.5 (318)
○ Usable Internal Height in. (mm)	29.6 (752)
○ Inner Diameter in. (mm)	38.4 (975)
○ Overall Height in. (mm)	65 (1625)
○ Overall Depth in. (mm)	57 (1450)
○ Liftover Height in. (mm)	37.1 (944)
○ Door Width Requirement** in. (mm)	43.5 (1105) with handles
○ Weight Empty est. lb. (kg)	750 (340) estimated
○ Weight Liquid Full* (Freezer with 50L and Cryocooler) est. lb. (kg)	830 (377) without racks estimated

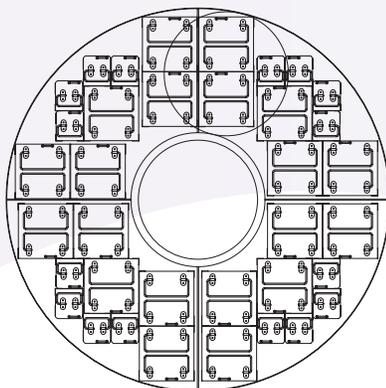
Blood Bag Capacities

	Total Bags	Bags/Frame	No. Frames
○ 791 OS/U (25 ml)	2296	7	328
○ 4R9951 (50 ml)	1484	7	212
○ 4R9953 (250 ml)	752	4	188
○ 4R9955 (500 ml)	592	4	148
○ DF200 (200 ml)	416	4	104
○ DF700 (700 ml) (will not fit through neck opening)			

FIVE Year Vacuum Warranty • TWO Year Standard Warranty

* Without inventory

**Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings. Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed.



Rack Layout