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MVE Fusion® 800 Series

Award-Winning, Self-Sustaining Technology, Evolved.

MVE's patented Fusion® technology made history as the world's first and only self-sustaining cryogenic freezer—earning the prestigious ISBER 2017 Outstanding New Product Award. By eliminating the need for a continuous liquid nitrogen supply, Fusion redefined reliability, safety, and sustainability in cryogenic storage.

Now, we're building on that breakthrough with the latest innovation in the Fusion platform: the Fusion 800. Compact enough to fit through a standard doorway, the Fusion 800 delivers the same trusted performance and energy efficiency in a more space-conscious design—ideal for labs where floor space and access are limited.

Backed by MVE's QDrive™ technology, the Fusion 800 continues our commitment to smarter, simpler cryogenic storage—without compromise.



Key Features

- **Compact Footprint:** At just 32 inches wide, the Fusion 800 fits through standard doorways for easy installation in existing lab spaces.
- **Energy Efficient:** Advanced technology sustains cryogenic temperatures with significantly reduced energy consumption compared to traditional mechanical freezers.
- **Self-Sustaining:** Integrated technology eliminates the need for routine LN₂ refills, reducing operating costs and improving safety.
- **User-Friendly Design:** Mounted casters and handles allow for flexible lab placement and repositioning.
- **Sustainable Performance:** Designed with efficiency and carbon reduction in mind—supporting institutional sustainability goals.
- **QDrive™ Technology:** Ensures ultra-reliable performance with fewer moving parts, low vibration, and minimal maintenance.

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Technical Specifications

Unit Dimensions

○ Neck Opening	9.2 in [234 mm]
○ Usable Internal Height	28.7 in [730 mm]
○ Inner Diameter	27.9 in [707 mm]
○ Overall Height	59.3 in [1507 mm]
○ Liftover Height	49.7 in [1263 mm]
○ Door Width Requirement	32.0 in [813 mm]
○ Weight (Empty /Operating)	500 lb [226 kg] / 650 lb [295 kg]
○ Top Box Temp (Steady State)	-150°C
○ Operating Pressure	22 PSIG

Storage Capacity

Vials

○ Inventory Racks (13-2, 100 Cell)	9 total
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Blood Bag Capacities

Total Bags

○ 25 mL (Medsep)	987 bags
○ 50 mL (Baxter)	672 bags
○ 250 mL (Baxter)	300 bags
○ 500 mL (Baxter)	216 bags
○ 200 mL (Gambaro)	132 bags

FIVE Year Vacuum Warranty • TWO Year Standard Warranty

Freezer systems UL/C-UL Listed.



Intended Use & Indication for Use of Cryogenic Storage and/or Transport.

LIFE SCIENCE INTENDED USE STATEMENT

STORAGE ONLY

MVE freezers are intended for the indication of preserving human biological products, samples, and/or specimens (e.g., blood, blood products, cells, tissues, etc.) at cryogenic and ultracold temperatures during storage.

STORAGE AND TRANSPORT

MVE dewars and vapor shippers are intended for the indication of preserving human biological products, samples, or specimens (e.g., blood, blood products, cells, tissues, etc.) at cryogenic and ultracold temperatures during storage and/or transportation.

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