

Introducing the New Chart MVE Fusion™



New Chart MVE Fusion™

New innovative, energy-efficient, ultra-low temperature

World's first Self-Sustaining Cryo-Storage Freezer (No Continuous Cryogen liquid supply is needed!)

Equipped with Q-Drive Liquefaction Technology

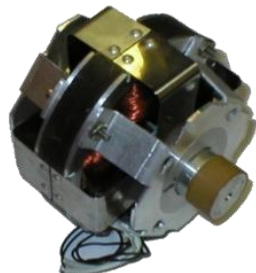
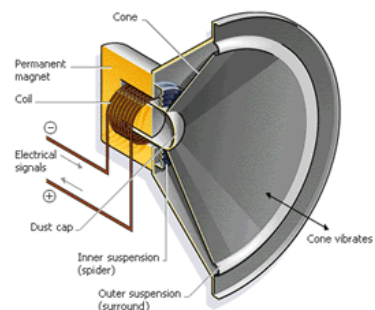
Pressure Vessel



+

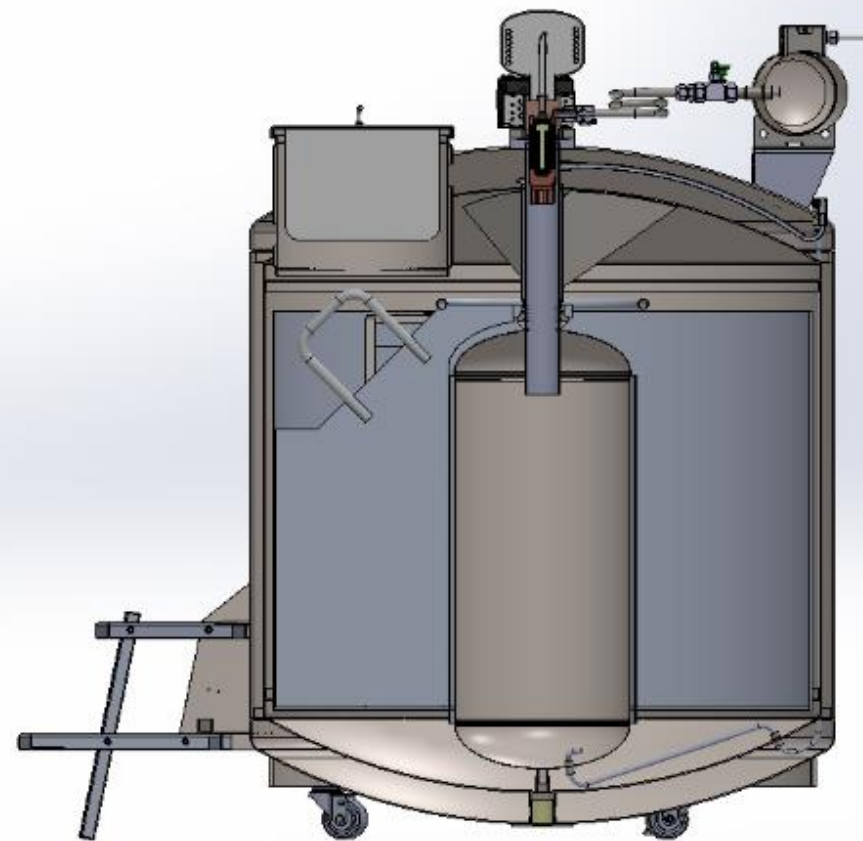
Q-Drive Liquefaction Technology



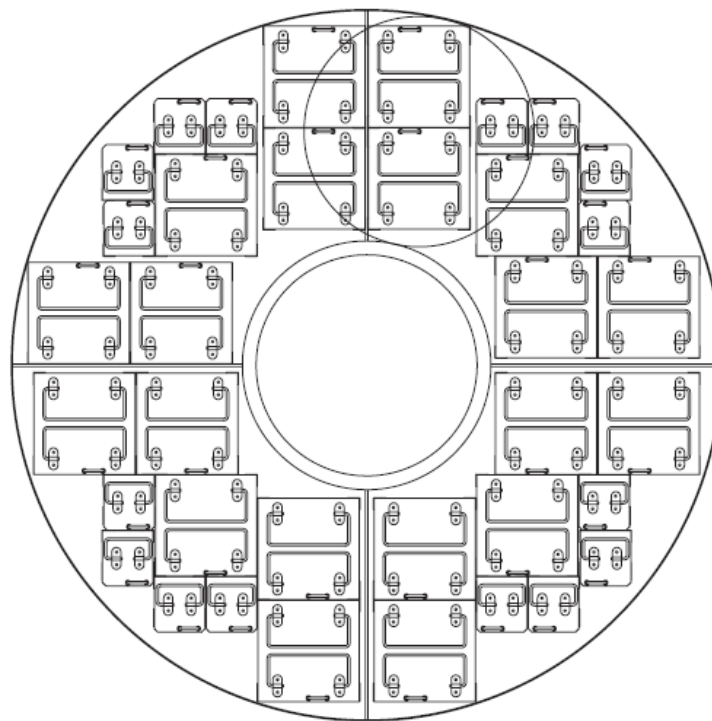


• Powered by Opposing Soundwaves

- Oil Free
- Sound waves drive Helium inside the sealed system to compress and expand gas
- Gas expansion creates **COOLING**
- No Moving Parts



Rack Layout



Maximum Storage Capacity

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

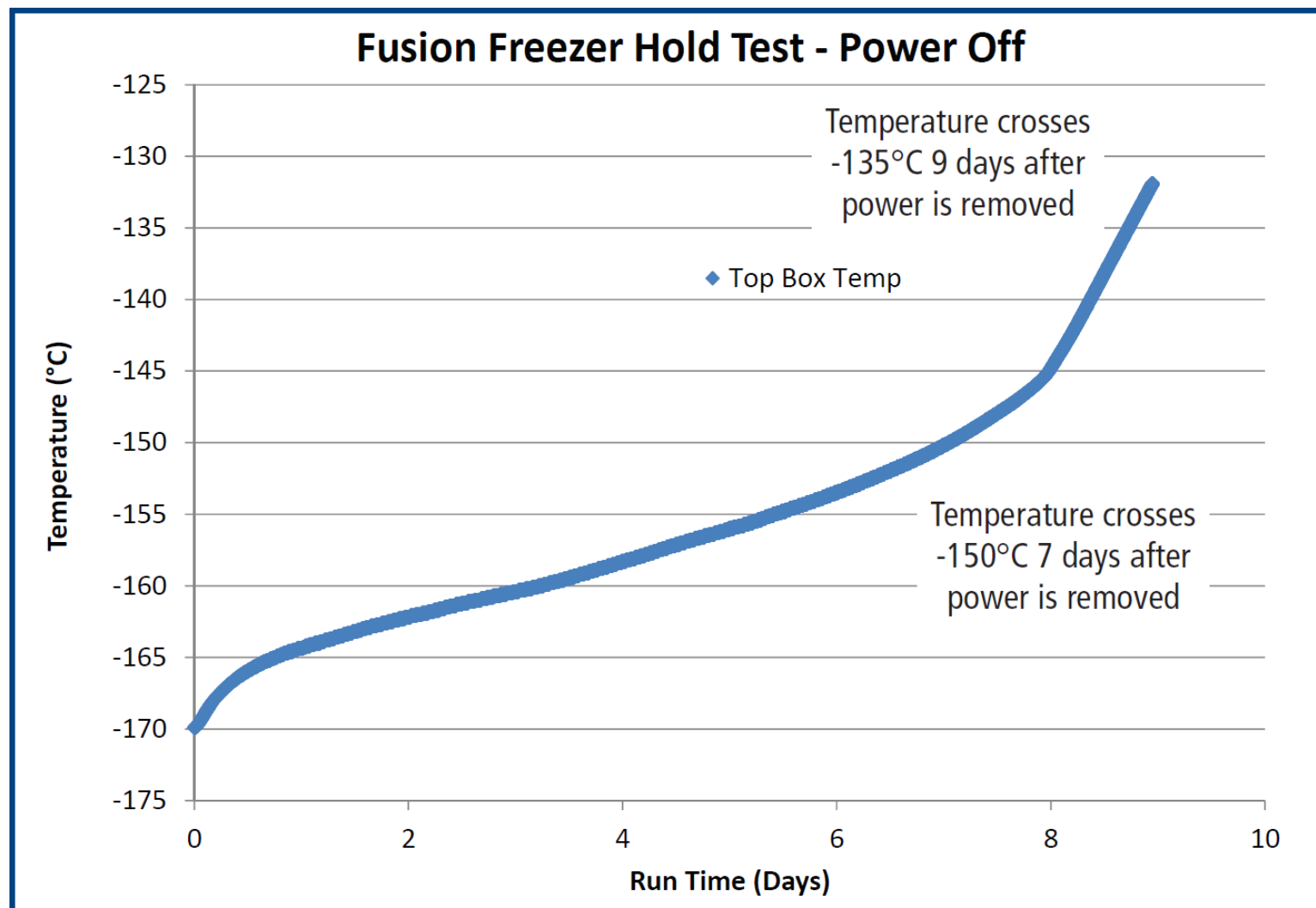


Chart MVE Fusion™



LN2 Transfer Hose

LN2 Supply

HE Vapor Freezer

NITROGEN REQUIREMENTS:

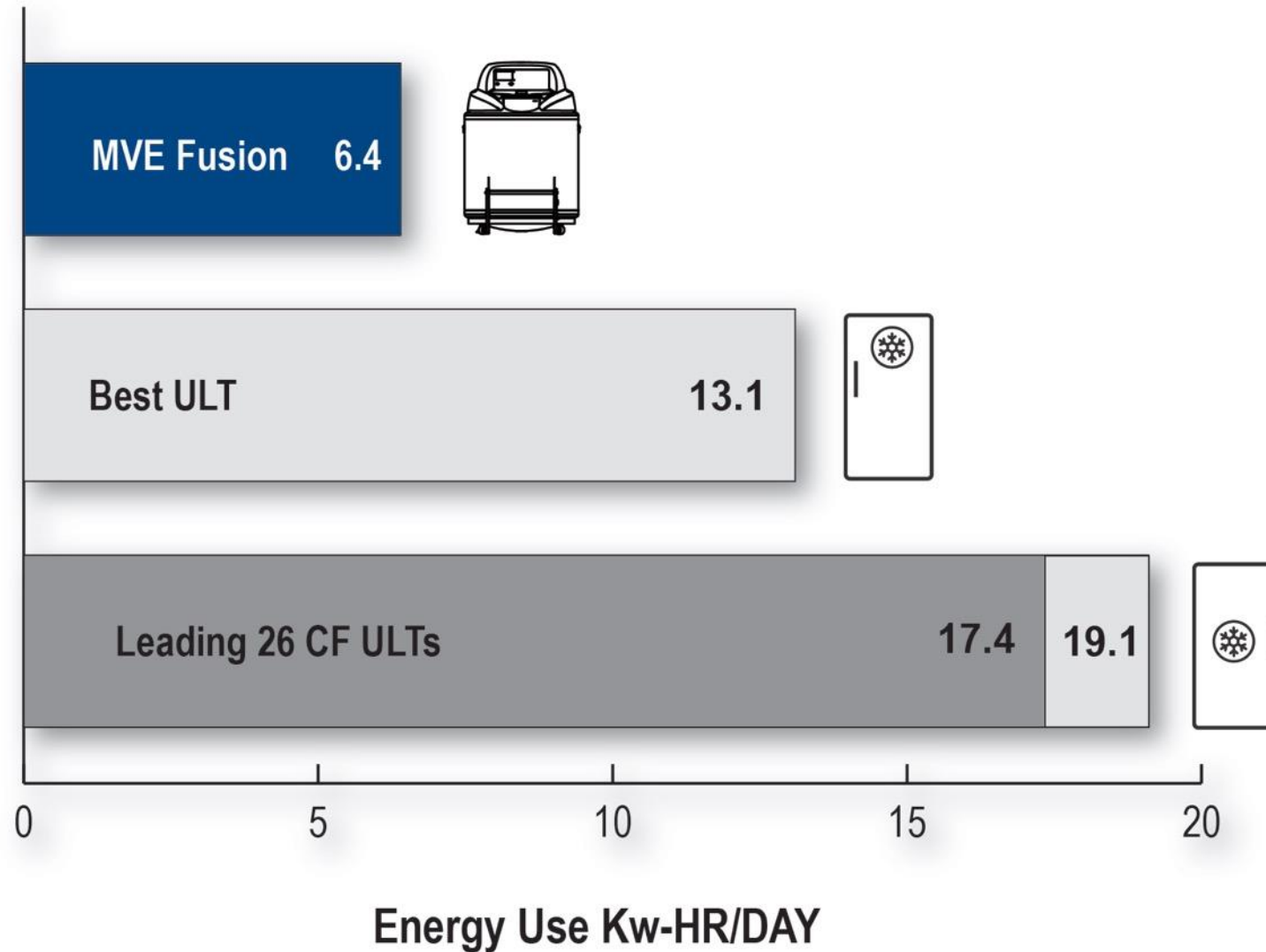
- 2 Liquid Cylinder fills (initial start-up)

ELECTRICITY REQUIREMENTS:

- Minimal

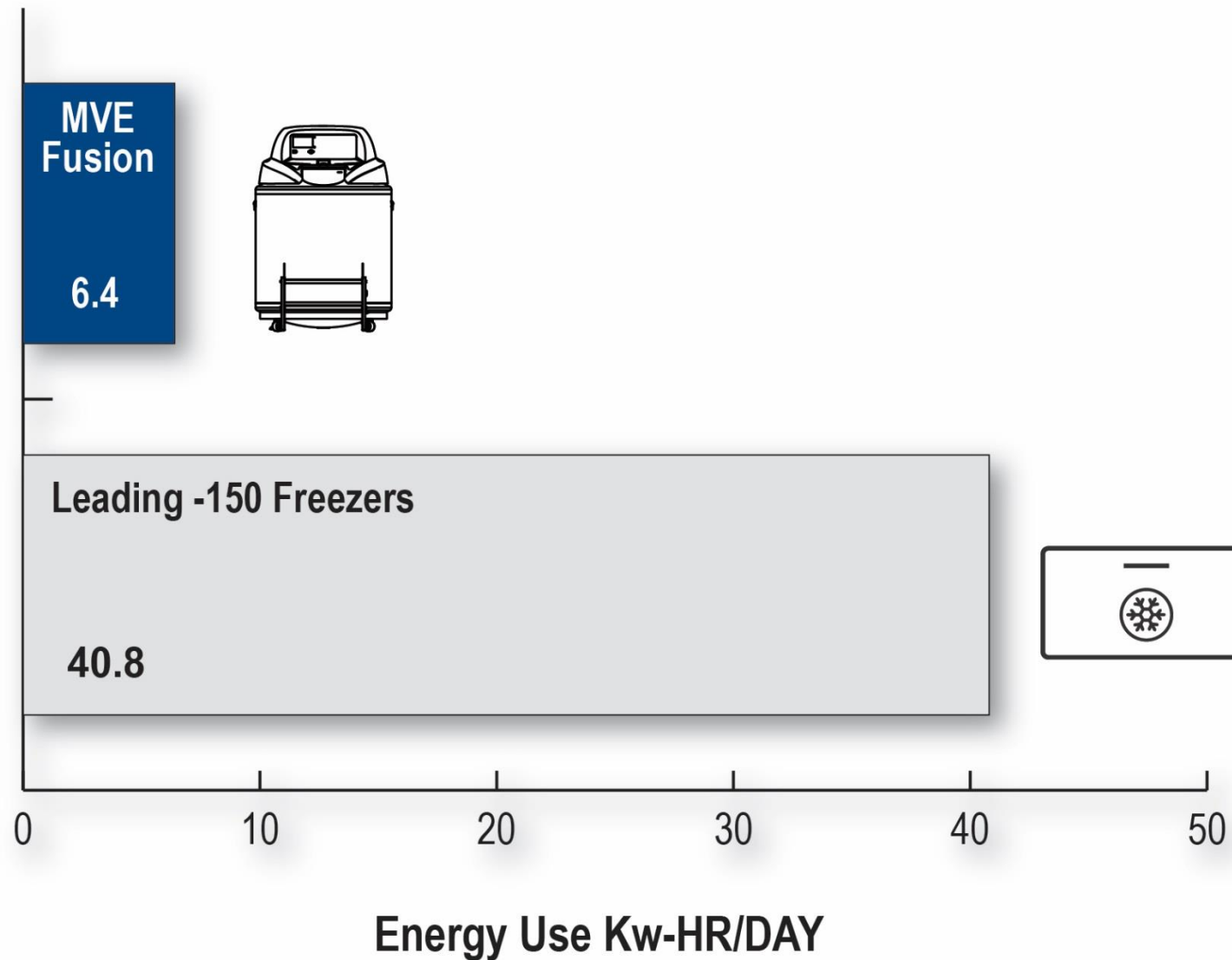
Energy Comparison

(Fusion vs. Typical -80 Freezer)



Energy Comparison

(Fusion vs. Typical -150 Freezer)





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