

MAINSTREAM ENGINEERING CORPORATION

TriCon Refrigerated Container System (TRCS)



- ▶ **Type I** - Electrically Powered RU with Full-Width Double Door
- ▶ **Type III** - Electrically Powered RU with Single-Man Door
- ▶ Verified to Meet MIL-PRF-32335 Requirements
- ▶ ISO Tested and CSC Approved
- ▶ NSF/ANSI Standard 7 Certified
- ▶ High Efficiency with Energy Saver Option
- ▶ MTBF 5,202 hrs.
- ▶ 20 Year Storage

Portable Exterior Lighting System (PELS)
Standard on **Type III**
Optional on **Type I**



TRCS/MRU Value-Added Features

Designed for Military Environment

The MRU was designed for the harsh military environment. The unit has been tested to MIL-STD-810G (e.g., salt-fog, humidity, sand-dust, solar, ice & freezing rain, blowing rain and watertightness, EMI [RE102 and CE102], high and low temperature operation & storage, ground mobility, rail impact and transit drop).

Improved Air Flow and Air Circulation

Air is drawn into the evaporator so condensation is not sprayed onto the food inside the container. The conditioned air circulates radially from the evaporator compartment to provide more uniform air flow distribution and prevent air blockage.

Total Unit Modularity

Every component can be replaced with common tools. Tube brazing or wire splicing is never required.

NSF Food Grade Shelving Units

The TRCS can be outfitted with NSF certified removable stainless steel shelving units consisting of five 22" wide shelves spanning the length on each side of the container (standard on Type III, optional on Type I).

PELS Lighting System

Available with an approved Portable Exterior Light System (PELS) with magnetic mounting bracket for attachment anywhere on the exterior of the TRCS (standard on Type III, optional on Type I).

Interior Lights

Available with an approved Interior (White and Black-out) LED lighting system (standard on Type III).

System Redundancy

Component redundancy allows the MRU to operate even if a condensor fan, evaporator fan, fan capacitor or heater fails. Extra terminals are available on the relays if a contact pits and fails.

Energy Saver Option

In freezer mode, an energy saver selection switch automatically operates the MRU longer during cooler periods of the day, such as the evening, to reduce power consumption.

Circuit Breakers

The MRU uses re-settable circuit breakers; there are no fusible links or fuses.

Physical	Type I	Type III
Size	96" x 77.5" x 96"	96" x 77.5" x 96"
Doors	full-width double door	single-man door
PELS Light	Optional	Included/Standard
Removable Stainless Steel Shelves	Optional	(5) 22" wide shelves Included/Standard
Power Connector	MS90556-C-32412P	MS90558-C-32412P
Maximum Gross Weight	26,460 lb	26,460 lb
Tare Weight	3,880 lb	4,630 lb
Payload Capacity	22,580 lb	21,830 lb
Operating Temperature Range	-25 to 125°F	-25 to 125°F
Storage Temperature Range	-50 to 160°F	-50 to 160°F
Minimum Circuit Ampacity	15 amps at 208 VAC 50/60 Hz Requires Y connection w/neutral	15 amps at 208 VAC 50/60 Hz Requires Y connection w/neutral
Refrigerant Charge	6.5 lbs R-404A	6.5 lbs R-404A

NSN (National Stock Number)	
Type I	8145-01-598-4828
Type III	8145-01-598-4829
Type III PELS	6230-01-630-7370