

# **Dual Refrigerated & Dual Powered Container**

- » Two full capacity reefer units offer total redundancy—each reefer has their own thermostat and control circuit
- » Two generator sets offer total redundancy—each genset capable of powering the reefer units
- » Complies with international regulations for the transport of dangerous goods
- » Provides the ultimate protection with two reefers & two gensets

Klinge's Dual Refrigerated Container has two full capacity reefer units. The refrigeration system, Model NMR-872, and generator sets, Model NMG-115-11, automatically switches to its back-up in an emergency to provide the ultimate peace of mind when shipping hazardous cargo or valuable cargo. The system complies with the [International Maritime Organization's regulations](#) for transporting certain [Dangerous Goods](#).

Klinge's Dual Refrigerated & Dual Powered Containers have been used to transport millions of dollars of ice cores from the southern hemisphere, across the equator, and through the southwestern United States. Using Klinge's equipment, the ice cores were not permitted to drop below -20°C at any point during their 1.5-month travel. Otherwise some of the most critical research related to analysis of the gases contained in the cores would not have been possible. [Fill out the form](#) or call +1 717-840-4500 to learn more. If you already know what you need, you can [Request a Quote](#) or [Request Service](#) today!

PHOTO OF THE DUAL REFRIGERATED & DUAL POWERED CONTAINER (MODEL NMR-872 & NMG-115-11)



Dual Refrigerated & Dual Powered Container (two full capacity reefers & two full powered gensets)

**ADDITIONAL FEATURES OF THE DUAL REFRIGERATED & DUAL POWERED CONTAINER (MODEL NMR-872 & NMG-115-11)**

- » Generator set starts automatically when shore power is not available
- » Generator set operates in outdoor ambient from -50°C to +50°C (-58°F to +125°F)
- » Single fuel tank automatically supplies fuel to each generator as needed
- » Fuel tank holds enough fuel for 3 days of continuous operation under full load
- » Common, Double-walled fuel tank for leak containment

#### ADDITIONAL SAFETY FEATURES

- » **Satellite communication** tracks location, monitors box & ambient temp, running condition, alarm status, fuel level, and much more
- » Large alarm strobe & powerful alarm horn for each reefer unit
- » Round-the-clock notification and problem solving services
- » **Electronic datalogger** with back-up alarm and printer
- » Large battery charger for alarm, datalogging, and satellite systems

#### SPECIFICATION OF THE DUAL REFRIGERATION SYSTEM (MODEL NMR-872)

- » Each system is solely capable of maintaining the required cargo bay temperature setpoint.
- » Only one system can operate at one time; they are not designed as lead-lag or automatic-alternating systems.
- » Main power to the refrigeration unit is 380/460 volts 3 phase, 50/60 Hz electrical power (provided either from “shore” power through an onboard voltage transformer, or via one of the integral gensets).
- » The control circuit voltage is reduced to 20/24VAC.
- » The refrigeration unit has a welded aluminum frame, aluminum doors and closures, and steel hardware.
- » The electrical section consists of two electrical systems, one complete electrical system for each unit.
- » The thermostats control the temperature of the cargo space. Each system has its own thermostat and temperature sensing probes.
- » Each system also has its own compressor, evaporator motor and condenser motor (the two condenser motors are in one frame). Only one compressor will operate at any time.
- » System 1 operates with 10.5 lbs of R-404a refrigerant charge. System 2 operates with 11 lbs of R-404a refrigerant charge.