

Pharma & Medical Cold Storage Solutions



Main Applications & Solutions

Ensuring your vital pharma products are protected in all conditions.



► Business continuation plan (BCP)

- Klinge's equipment offers a reliable and flexible solution for emergency situations in which a walk-in refrigeration/ freezer space becomes inoperable

► Storage

- Could be finish/ filled product or bulk drug substance

► Transport by via ocean or freight truck

- The insulated shipping containers onto which Klinge's equipment is installed can be transported throughout the US and world

► Production-to-storage

- Some customers utilize Klinge's equipment by incorporating it into their production process to freeze product and keep it stored until distribution is needed

► Blast freezing of phase-change material (PCM) packs

► Large molecule/ rare disease

- Monoclonal antibodies (2°C to 8°C Ref/-20°C to -70°C Frozen)
- Recombinant DNA (-20°C short-term/-70°C long-term)
- Insulin (2°C to 8°C)

► API's

► mRNA vaccines

- Ultra-low temperature glass transition point (-40°C to -70°C)
- -20°C storage of final product

► Blood products

- Plasma (-18°C frozen)

► PCM cartridges/packs

► Legacy vaccines (inactivated vaccines at 2°C to 8°C)

- Seasonal flu, polio, hepatitis A

Dual Redundant Pharma & Medical Cold Storage Solutions



Provides ultimate flexibility and mobility for both transport and stationary applications. Can easily be mounted on a chassis for use at a dock, offering near-instant on-site freezer capability.

- -70°C to 25°C (-94°F to 77°F)
- Maintaining regulatory compliance
- Security/ theft prevention
- Cost reduction
- Ultimate reliability with redundant cooling systems

NMF-372

Deep Freezer Dual System



Provides ultimate flexibility and mobility for both transport and stationary applications. Can easily be mounted on a chassis for use at a dock, offering near-instant on-site freezer capability.

- -20°C to -70°C (-4°F to -94°F)
- Completely redundant with automatic switching in case of any failure and each system fully capable of maintain required temperatures
- Designed for the rigors of intermodal transport in harsh conditions, but perfect for quick on-site storage
- Optional onboard generator set can be manually engaged or through an Automatic Transfer Switch

NMR-262

Nose-mount Redundant Container System



Provides ultimate flexibility and mobility for both transport and stationary applications. Can easily be mounted on a chassis for use at a dock, offering near-instant on-site freezer capability.

- 0°C to -29°C (-18°F to -20°F)
- Completely redundant with automatic switching in case of any failure and each system fully capable of maintain required temperatures
- Designed for the rigors of intermodal transport in harsh conditions, but perfect for quick on-site storage
- Optional onboard generator set can be manually engaged or through an Automatic Transfer Switch

PFP-572

Picture Frame Redundant Container System



Provides ultimate flexibility and mobility for both transport and stationary applications.

Can easily be mounted on a chassis for use at a dock, offering near-instant on-site freezer capability.

- 2°C to 25°C (35°F to 77°F)
- Completely redundant with automatic switching in case of any failure and each system fully capable of maintain required temperatures
- Designed for the rigors of intermodal transport in harsh conditions, but perfect for quick on-site storage
- Dual redundant system design in the same space as a standard reefer unit, allowing for extra peace of mind without taking extra cargo space



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