

Cold Storage Solutions

Ultra-low temperature,
flexible and adaptable





As part of the Trane Technologies™ portfolio known for progressive innovation, we joined forces with our strategic brand partner, Thermo King®, to offer cold storage products as a solution to storing COVID-19 vaccines and other high value cargo items.

The Thermo King SuperFreezer™ refrigerated container is an ultra-low temperature solution offering flexibility from -10°C to -70°C temperature control that can provide off-site preservation of the stored product properties helping to avoid retrogradation. These are easily transportable and readily available with stock currently at three major U.S. hubs.

Thank you all for your continued partnership and trust in Trane and Thermo King. Please feel free to reach out for additional information on cold storage. We will continue to be here through this time and can provide any support needed.



Cold Storage Solutions: Your Needs

Users of transportation containers trust Thermo King, the market leader in temperature control, for flexible and innovative solutions for goods in transit and storage. We have applied this expertise to the enhancement of standard refrigeration units for use in temporary refrigerated storage worldwide—at temperature set-points between -70° Celsius to + 40° Celsius. As standard ISO containers are easy to transport and install, this gives you flexibility and ease to scale up or down as your demands shift.

Thermo King's Cold Storage Solutions offer various customizations and upgrades on SuperFreezers to optimize end user experience on storage and protection of temperature sensitive perishables and pharmaceuticals.

Performance is exceptional, providing high cooling capacity in combination with precise temperature control from fresh to deep frozen, even in the most severe applications (high ambient temperatures, frequent door openings, long running hours).

Applications

Cold Storage Solutions can be used for unplanned temporary cold storage requirements for super- and hypermarkets or manufacturing that need additional storage capacity.

With the rise of temporary cold storage needs for **pharmaceuticals** and extra capacity in **hospital environments**, Thermo King's Cold Storage Solutions offer effective, flexible and mobile storage as well as temporary testing capabilities in low or ultra low temperatures.

Cold Storage Solutions: Our Offer

Standard Features

- 10' or 20' box sizes to operate as low as -70°C
- Dual compressor cascade technology
- Operates electrically with 360-500 Volt 50 or 60 Hz power supply
- Advanced MP-3000 controller
- Internal overhead light
- Door curtains
- Alarm button with audio and visual warnings
- Protect valuable pharmaceuticals or blood plasma
- Exceptionally high performance to preserve first-day product freshness of seafood (Grade A sashimi, tuna, salmon)

Options

- Telematics allows for two-way communication
- Generator set to operate on diesel power



SuperFreezer System Performance

Refrigerant Capacity

Capacity @ 460V/60Hz and 37.8°C (100°F) ambient	BTUs/hr	Watts
-30°C (-22°F)	28,100	8,250
-60°C (-76°F)	19,900	5,850
-70°C (-94°F)	13,200	3,880

Temperature Management

Temperature Accuracy	±1°C (±1.8°F)
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Electricity

Power supply	400 to 500 Volt 3 Phase 60 Hz 360 to 460 Volt 3 Phase 50 Hz
Circuit breaker	32 amp
Max power draw	19 kW

Dimensions

Internal (L x W x H)	
10'	92" x 84" x 87"
20'	213" x 81" x 85"
External (L x W x H)	
10'	117" x 96" x 102"
20'	238" x 96" x 104"

Weight

Max Gross	
10'	26,455 lbs (12,000 kg)
20'	52,911 lbs (24,000 kg)
System	
10'	7,165 lbs (3,250 kg)
20'	8,929 lbs (4,050 kg)

System Noise

Noise level	80 db(A)
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Refrigerant	Charge
R-134A	7.7 lbs
R-23	7.0 lbs



Upgrades for COLD STORAGE Solutions

We have an extensive range of options and accessories to enable you to create the exact solution you need. With customized hardware and software solutions, we have the perfect match to protect your cargo and valuable products. Learn more at: thermoking.com/pharma or contact your local dealer: thermoking.com/dealers

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