

Tank Container Units

Temperature control for liquids



Tank Container Units

Applications for Temperature-Controlled Tank Containers

Use Cases (Chemical/ DG)

- ▶ High-purity solvents such as Cyclohexanone used in the semiconductor industry
 - Transported in tank-containers utilizing TCR-109s
- ▶ Lithium battery electrolyte solutions
 - Typical solution temperatures are between -5°C and -10°C
 - Transported in tank-containers utilizing Klinge's TCR-109s and TCR-110s
- ▶ Isopropyl Alcohol
 - Transported in Klinge ATEX TCR-110-Z2 units

Use Cases (Other Applications)

- ▶ Food and beverage (including juice, beer and milk)
- ▶ Resins and urethanes
- ▶ Medical and pharmaceutical
- ▶ Waxes and latex
- ▶ Chemicals
- ▶ Mining
- ▶ Military
- ▶ Construction and building materials

TCR-109

Tank Container 4.9kW Refrigeration System

Cools, heats and circulates heat transfer fluid (typically ethylene glycol) in channels along the skin of the tank container to control the cargo temperature.

- -29°C to 60°C (-20°F to 140°F)
- Redundant options available
- End-mounted control box allows for control and servicing of electronics during ocean voyage
- Low unit weight and profile maximize cargo loading capabilities
- Temperatures up to 60°C available when adding optional heater module



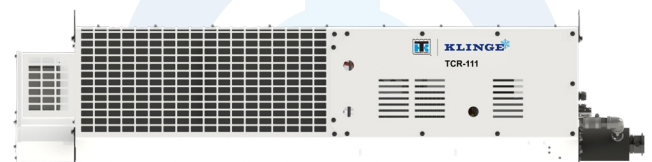
TCR-111

Tank Container 10kW Refrigeration System

Cools/heats and circulates heat transfer fluid (typically ethylene glycol) in channels along the skin of the tank container to control the cargo temperature.

- -10°C to 60°C (-14°F to 140°F)
- Uses low-GWP R-513a refrigerant*
- Redundant options available
- End-mounted control box allows for control and servicing of electronics during ocean voyage
- Low unit weight and profile maximize cargo loading capabilities in tanks up to 25,000 liters

*R-134a can be used in emergency cases





TCR-110 & TCR-110-Z2

Tank Container 7kW Refrigeration System

Cools/heats and circulates heat transfer fluid (typically ethylene glycol) in channels along the skin of the tank container to control the cargo temperature.

- -29°C to 60°C (-20°F to 140°F)
- Redundant and explosion-proof (ATEX) options available
- Standard unit: end-mounted control and servicing of electronics during ocean voyage
- Low unit weight and profile maximize cargo loading capabilities
- ATEX unit: meets IMDG requirements under Clause 7.3.7.6 for transport of certain flammable liquids. Certified by independent 3rd party and European Notifying Body.



TCH-112

Tank Container 12kW Heating System

Heats and circulates heat transfer fluid (typically ethylene glycol) in channels along the skin of the tank container to control the cargo temperature.

- Temperatures up to 103°C (217°F)
- Standard unit heats up to 85°C, but high heat kit allows temperatures up to 103°C
- End-mounted control box allows for control and servicing of electronics during ocean voyage
- Compact design, low unit weight and profile maximize cargo loading capabilities



Tank Container Units



Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport temperature control solutions. Thermo King has been providing transport temperature control solutions for a variety of applications, including trailers, truck bodies, buses, air, shipboard containers and railway cars since 1938. For more information, visit thermoking.com or tranetechnologies.com.

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