

Global Standards and the Cold Chain

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Industrial Refrigeration Standards

- International Institute
 of Ammonia
 Refrigeration (IIAR)
 publishes global
 standard for ammonia
 and CO2 refrigeration
 systems
- ANSI accredited
- Recognized globally





Approach to Food Standards



Codex - HACCP Principles - GMP

Legislation - Food Law

Global Food Safety Initiative (GFSI)

- Global effort to advance food safety and quality
- Certification process working with scheme owners (Examples: SQF and BRC)
- Usually customer driven
- Globally recognized
- Increasingly popular with GCCA members



Under Development - ISO/TC 315: Cold chain logistics

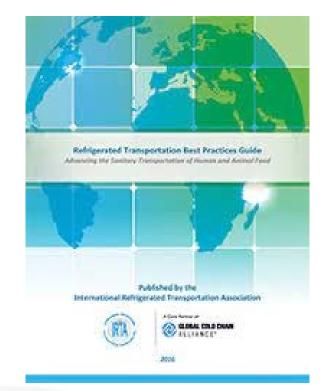
SCOPE:

- Terms and conditions for carriage/storage service of refrigerated goods, physical handling of refrigerated goods (acceptance, loading, trans-shipment, storage, sorting, transportation and delivery)
- Maintenance and control methods of temperature-controlled facilities, quality control
 methods throughout the cold chain (e.g. temperature monitoring and control, prevention
 of damage, loss and delay)
- Hygiene management during carriage/storage service to prevent contamination of goods,
- Facilitation of logistical efficiency
- Manpower management, staff education and training, safety management for staff and workplaces
- Safety and reliability of carriage/storage services
- Information management and data processing such as customer management
- Cargo/parcel tracking (including labelling), as well as terminology.



Transportation

- GCCA developed best practices for refrigerated transportation
- Certification program developed to recognize achievement of best practices
- Originated in US in response to FSMA regulations, but applicable globally





Energy

- GCCA developed program to recognize achievement in energy efficiency
- Qualitative and quantitative assessment tools for operators to track facility performance
- Helps build an energy culture
- Not dependent on specific technologies, more about management and performance over time

