

Temperature controlled cargo

Mitigating risk in the temperature-controlled supply chain

Temperature-controlled cargoes present operational challenges for all those in the global supply chain.

What are the risks? CARGO DAMAGE CARGO DAMAGE COLIPMENT DAMAGE COLIPMENT DAMAGE INCREASED INSURANCE COSTS

How can you mitigate these risks?

COMMUNICATION

- Verify whether instructions are in degrees Celsius or Fahrenheit
- Double check whether the instructed temperature is "+" or "-" (chilled or frozen)
- Clarify any instructions you do not understand
- Avoid ambiguous instructions (temperature ranges)

AT PLUG-IN

- Check the unit for structural damage
- Check the cable and plug for damage and report immediately
- Verify the temperature, humidity and ventilation settings against the documentation

PACKING

MONITORING

- Record supply and return air temperatures to check for inconsistencies
- Notify the shipping line/cargo transport unit operator immediately if you note:
 - Temperature deviation of more than 5° F/C
- Malfunction
- Alarms or warning lights

PRE-TRIP INSPECTION (PTI)

Check

- Warning/indicator lights
- Gas levels
- Leaks
- Unusually noisy compressor (crunching, banging, rattling)
- Damage to the reefer equipment
- Blockages to the internal airflow

- Ensure the cargo is pre-cooled
- Stow below the red line
- Ensure that the air is able to flow around the cargo space (no short circuits)
- For containers, do not pack cargo beyond or block the channels at the end of the T-bar floor
- Where applicable, monitor and record readings for any humidity control, integrated controlled atmosphere or additional cargo probes

WATCH OUT FOR RED FLAGS

- Obvious impact damage to the carrying equipment
- Obvious errors in instructions (e.g. the cargo is described as "frozen tuna" but the instructions request "+25°C/ 77°F")
- Return air temperature readings significantly higher than supply air temperature readings
- Setpoint temperature different to instructions



Use the code - CONTAIN THE RISK!

