



## Container Products

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### Subject: Refrigerant Quality Guidelines

Given the recent global concerns over refrigerant contamination in the reefer service industry, it is important that every Carrier Authorized Service Center take steps to ensure the quality of refrigerant used in your business. Since 1993, Carrier has exclusively produced R134a reefers. The only refrigerant acceptable for servicing these machines is R134a.

To assist in your efforts to assure refrigerant quality to your customers, Carrier recommends the following guidelines:

- Use only internationally known refrigerant brands purchased from reputable sources.
- Request a certificate of origin or chemical analysis documentation from your refrigerant supplier for each purchase or delivery. AHRI Standard 700 is a good reference for refrigerant purity specifications. If your supplier is unable to provide this type of information, consider changing suppliers.
- Visually inspect every refrigerant package for misspelled words, unusual logos or other obvious changes from previous deliveries. Do not accept disposable cylinders that are not in their original, sealed cardboard box.
- Visually inspect every gas cylinder for any changes in shape, color or fittings on the bottle, as these rarely change for refrigerant sourced from major manufacturers.
- Consider purchasing a refrigerant identification tool, and implement processes to test each new refrigerant cylinder when it is delivered by your supplier.
- Be cautious of refrigerant offered for sale at prices well below normal market price. Counterfeit refrigerant is frequently offered at a significant discount.
- Consider using exchange refillable cylinders from direct gas suppliers, which typically have shorter supply chains and easier traceability. (Note that refillable cylinders are required by F-gas rules within the EU).
- Consider implementing a record retention system which includes the following:
  - A gas cylinder numbering or identification system.
  - Delivery logs that track refrigerant source and authenticity by cylinder number.
  - Technician logs that track the amount of refrigerant used from each numbered cylinder on every unit (container ID).
- Store refrigerant in a secure location.

As always, be sure to follow refrigerant manufacturers' recommendations and applicable local regulations for gas handling, charging, recovery, recycling, etc.

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