



Freon™
Refrigerants

Avoiding Low-Quality Manufacturers: Trust the Brands You Know

Product Information

Over a 9-month period, Chemours purchased five discrete 25-lb DACs of competing R-410A that are commercially available in the U. S. market. The cylinders were then sampled and analyzed under AHRI 700 testing conditions. Alarming, 4 out of 5 of these cylinders, that are labeled as “meeting industry standards,” failed to meet the AHRI 700 specifications for blend composition, moisture, and non-condensables.

Competitor Samples of R-410A

| AHRI Specification | | | Sample #1 | Sample #2 | Sample #3 | Sample #4 | Sample #5 |
|--------------------------------|-----------------------|---------------------|-------------|-------------|------------|-------------|------------|
| Blend Characteristics | | | | | | | |
| Allowable Composition | wt% | R-32/R-125 | R-32/R-125 | R-32/R-125 | R-32/R-125 | R-32/R-125 | R-32/R-125 |
| | | 48.5–50.5/49.5–51.5 | 43.58/56.42 | 49.99/50.01 | 50.1/49.9 | 50.91/49.09 | 49.3/50.7 |
| Contaminants | | | | | | | |
| Air and Other Non-Condensables | vol% at 25 °C (77 °F) | <1.5 | 1.43 | 3.06 | 2.1 | 0.86 | 1.2 |
| Moisture | wt, ppm | <10 | 4.6 | 11.7 | 7.2 | 5.1 | 6 |

In a related investigation, several 24- and 25-lb DACs of competitor R-404A and R-407C were also shown to contain low-quality mixtures that could cause financial and reputational harm.

Bad composition, non-condensables, and high moisture may lead to:

- Flammability under leak conditions
- Increased discharge temperature
- Damage to the compressor and metering device
- Poor cooling capacity
- Decreased system energy efficiency

Protect your business by avoiding manufacturers that do not meet AHRI 700 purity standards. Trust the brands you know: Freon™ and Opteon™ refrigerants.

Share this message to warn customers about the harmful effects of buying untrustworthy refrigerant—you and your customers’ reputations may depend on it.

For more information on Freon™ refrigerants, visit freon.com.

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