



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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