

Agenda

Presented by Carter Stanfield

Agenda Monday February 10, 2025:

Refrigerant History: Where We Have Been and How We Got Here

- A history of refrigerant development
- Challenges faced when trying to produce the “perfect” refrigerant

Comparing R410A System Operation to R32 and R454B

- Compare pressures
- Temperatures
- System efficiency among R410A, R32, and R454B

What Exactly IS an A2L Refrigerant?

- “Mildly flammable” definition
- Difference between A2L refrigerant and A3 refrigerant

Agenda Tuesday February 11, 2025:

A2L Refrigerant in Standards and Codes

- An in-depth look at how A2L refrigerant is addressed
- UL 60335-2-40
- ASHRAE 34
- ASHRAE 15
- ICC Codes
- IAPMO Codes

AHRI Testing of A2L Refrigerant Flammability

- Testing performed to establish safety guidelines
- Application, installation, and service of air conditioning systems utilizing A2L refrigerant and specific application details required to safely install A2L equipment

Applying A2L Equipment

- Changes manufacturers have made
- Important application guidelines
- Specific installation practices necessary to mitigate possible flammable hazards posed by A2L refrigerant

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A2L Refrigerants: Characteristics and Applications

Online - Monday, February 10 and Tuesday, February 11, 2025

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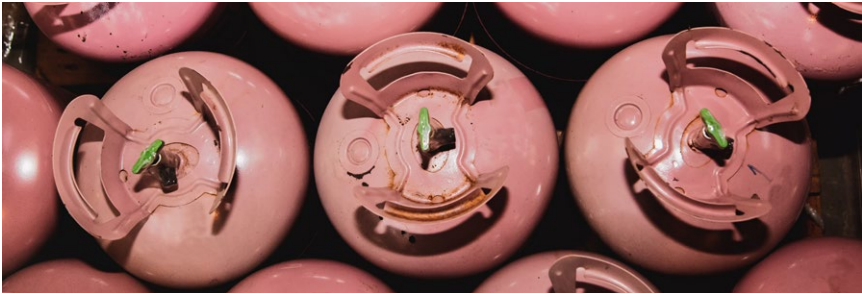
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A2L Refrigerants: Characteristics and Applications



Live, Interactive Webinar
Monday, February 10, 2025 | 9:00 am - 12:15 pm CST
Tuesday, February 11, 2025 | 9:00 am - 12:15 pm CST

This webinar covers the history and evolution of refrigerants, challenges in developing optimal refrigerants, and comparisons of R410A, R32, and R454B in terms of pressures, temperatures, and system efficiency. It also provides an in-depth exploration of A2L refrigerants, including their definition, flammability testing, relevant standards and codes, and specific application and installation practices to ensure safety.

Continuing Education Credits

Professional Engineers	International Code Council
6.0 PDHs	.6 CEUs (Sustainability)
Architects	
6.0 HSW CE Hours	
6.0 AIA LU/HSW	



Webinar Information

Day One: Monday, February 10, 2025

9:00 am - 12:15 pm CST (including a 15-min. break)

Day Two: Tuesday, February 11, 2025

9:00 am - 12:15 pm CST (including a 15-min. break)

(please log into the webinar 15 - 30 minutes before start time)

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\$339 for individual registration.

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Faculty

Carter Stanfield is the co-author of *Fundamentals of HVACR*.

He spent over 40 years in HVACR education, including serving as program director of the Air Conditioning Technology Department at Athens Technical College. Mr. Stanfield's industry credentials include an RSES CMS, NATE Certification and a State of Georgia Unrestricted Conditioned Air Contracting License.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Sustainability (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits:

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- Wednesday, January 8, 2025 CST | 9:00 am - 4:00 pm CST

AIA Contract Document Workshop

- Friday, January 10, 2025 | 9:00 am - 4:30 pm CST

Commercial and High-End

Residential Deck Design and Construction

- Friday, January 10, 2025 | 9:00 am - 4:00 pm CST

Estimating Mechanical, Electrical and Plumbing Systems

- Friday, January 10, 2025 | 9:00 am - 4:30 pm CST

Onsite Wastewater Treatment Systems:

Conventional and Alternative Treatment Technologies

- Wednesday, January 15, 2025 | 9:00 am - 4:00 pm CST

2024 International Plumbing Code

- Thursday, January 16, 2025 | 8:30 am - 4:00 pm CST

Shallow Foundation Design and Construction

- Friday, January 17, 2025 | 8:45 am - 4:30 pm CST

Construction Scheduling and Cost Control

- Thursday, January 23, 2025 | 9:30 am - 2:00 pm CST

- Friday, January 24, 2025 | 9:30 am - 2:00 pm CST

National Electrical Code 2023: Grounding and Bonding

- Friday, January 24, 2025 | 9:00 am - 5:00 pm CST

Building EV Infrastructure in the US

- Tuesday, January 28, 2025 | 9:00 am - 4:00 pm CST

High-Performance Building Envelope

Design and Construction

- Wednesday, January 29, 2025 | 8:30 am - 4:30 pm CST

2024 International Existing Building Code and More

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