

Introduction to 2025 Compliant Refrigerant Resource Guide

Lennox is updating our product lineup to use 2025 Compliant Refrigerant (R-454B). We are committed to making decisions that keep homeowners, dealers, and the environment in mind.

General

What does low GWP mean?

Global Warming Potential (GWP) was a metric developed by the United States Environmental Protection Agency (EPA) to measure the amount of heat trapped in the atmosphere from greenhouse gases. Hydrofluorocarbons (HFCs) are a type of greenhouse gas that is present in refrigerants. The HVAC industry is undergoing a transition to low GWP refrigerants, which are those with a global warming potential of less than 700. Lennox' 2025 Compliant Refrigerant has 78% lower global warming potential than the previous version, R-410A.

Why did Lennox choose 2025 Compliant Refrigerant (R-454B) for their products?

When selecting a new refrigerant, Lennox considered ease of installation, service, safety, performance, environmental impact, and more. Lennox engineers worked to maximize equipment performance and efficiency with this refrigerant, while minimizing changes to installation requirements.

Can anyone purchase the new refrigerant?

No. The EPA requires specific certification under Section 608 or Section 609 in order for technicians to purchase refrigerants. Lennox' [BuildATech™](#) training course offers EPA Section 608 testing. To find out more about the [Lennox Learning Solutions](#) courses, visit [LennoxPros.com](#) under the My Learning tab.

Do low GWP refrigerants perform better than R-410A?

Lennox' 2025 Compliant Refrigerant provides comparable performance to R-410A. New low GWP systems will be designed to provide similar levels of comfort, efficiency, and safety as current R-410A systems.

Will a 2025 compliant refrigerant system use the same amount of refrigerant as an R-410A system?

While there may be some exceptions, most Lennox 2025 Compliant Refrigerant systems will use a similar amount of refrigerant as R-410A systems.

When will this change take place for the Lennox product line-up?

In preparation for the new standards effective January 1, 2025, Lennox will launch our 2025 Compliant Refrigerant products in the second half of 2024. As always, whenever new regulations go into effect, Lennox is here to provide you support, training, and educational resources that make it easy to sell, install, and service the new equipment.

To help drive awareness of 2025 Compliant Refrigerant and designate information regarding these products, Lennox has created an icon that will be easily recognizable in product information and materials.



**2025 COMPLIANT
REFRIGERANT**

Technical/Safety

What is A2L refrigerant?

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) created a subgroup of refrigerants called A2L. "A" refers to non-toxic, "2" refers to the flammability level, and "L" refers to the low burning velocity. You can see this new subgroup compared to other refrigerant classifications in the referenced chart.

A 4x2 grid chart showing refrigerant classifications. The vertical axis is labeled 'Increasing Flammability' with an upward arrow. The horizontal axis is labeled 'Increasing Toxicity' with a rightward arrow. The rows are: 'Higher Flammability', 'Flammable', 'Lower Flammability', and 'No Flame Propagation'. The columns are: 'Lower Toxicity' and 'Higher Toxicity'. The cells contain the following classifications: (Higher Flammability, Lower Toxicity) is A3; (Higher Flammability, Higher Toxicity) is B3; (Flammable, Lower Toxicity) is A2; (Flammable, Higher Toxicity) is B2; (Lower Flammability, Lower Toxicity) is A2L; (Lower Flammability, Higher Toxicity) is B2L; (No Flame Propagation, Lower Toxicity) is A1; (No Flame Propagation, Higher Toxicity) is B1.

Higher Flammability	A3	B3
Flammable	A2	B2
Lower Flammability	A2L	B2L
No Flame Propagation	A1	B1
	Lower Toxicity	Higher Toxicity

Is A2L the same as low GWP?

A2L refrigerants are not the same as low GWP. The subgroup A2L is the refrigerant classification the HVAC industry is using in the 2025 refrigerant transition. Low GWP refers to the global warming potential of the emissions of the refrigerant.

How flammable is 2025 compliant refrigerant?

Is this class of refrigerants dangerous?

Refrigerants in the A2L class are considered "mildly flammable" but no more dangerous than many other household products. An A2L refrigerant is very safe when handled properly and when best practices and safety guidelines are applied. As part of the HVAC industry transition, low GWP systems, which utilize A2L refrigerants, require sensor and safety protocol in the event of a leak. Our products have additional safety features such as a Refrigerant Detection System that will reduce its concentration in the event of a large leak.

Does the vacuum pump need to be rated with low GWP refrigerants?

Most new vacuums are already rated for both R-410A and low GWP refrigerants, however, older ones may not be. Be sure to check your vacuum's rating and replace it if it is not compatible with low GWP refrigerants.

Will press fittings need to be different?

Press fittings are determined by the line set diameter. Lennox' 2025 Compliant Refrigerant will have the same line sets as R-410A, so press fittings will be the same.

Will there be a change to the threading on service valves?

Service valves on Lennox' 2025 Compliant Refrigerant systems will be right-hand threaded which is the same as R-410A systems.

What happens if the wrong refrigerant gets into the system?

2025 compliant refrigerant is not a drop in refrigerant and should not be added to an existing R-410A system. For safety purposes, low GWP systems require a Refrigerant Detection System (RDS), so it is important not to mix the type of refrigerant in the system and to follow all manufacturer instructions for installation and safety.

Industry/Homeowner Impact

What should I do with the old refrigerant when installing a new low GWP system?

To help ensure continuity of service, Lennox has teamed up with Hudson Technologies for the Lennox Reclaim Program, a simple, hassle-free solution that pays you for recovered R-22 and R-410A refrigerant. In addition to recovering and reclaiming previous refrigerants to allow for their reuse, the Lennox Reclaim Program will help to continue circulation of the current refrigerant to sustain servicing homeowners in a way that reduces the overall environmental impact of refrigerants.

If a homeowner needs a new system, should they buy one now or wait until the new models are available?

For homeowners, the most important thing is to be comfortable. If there is an emergency with their system, they should take care of it now. If they can afford to wait, it's better to wait for the new models.

If I install a system with R-410A refrigerant, how will Lennox support or service that system?

After the transition, Lennox will continue to offer R-410A repair coils, parts and R-410A refrigerant for servicing units.

Will new systems cost more to operate?

Lennox' 2025 Compliant Refrigerant products will be more cost effective over the life of the unit, as previous refrigerants phase out and become more costly to maintain.

Supporting Resources - Coming Soon

- Informational Webinars
- Product Transition Training
- New Product Information and Line Logic
- Homeowner Education

Scan or click the QR codes to learn more.



[2025 Compliant Refrigerant Hub](#)



[Learning Solutions Courses](#)