Building for a Cleaner Tomorrow

ALLIED™ Air Enterprises

LOW GLOBAL WARMING POTENTIAL (GWP) REFRIGERANTS

What to expect and how to be prepared.

CHANGE IS COMING

And We're Here to Make Sure You're Prepared

We believe building for tomorrow is as important as building for today. The transition to low Global Warming Potential (GWP) refrigerants represents a positive step for the environment, as it significantly reduces the impact of harmful greenhouse gases. We embrace this change, as it aligns with our corporate commitment to reducing our carbon footprint. Our new refrigerant used in our product lines reduces global warming potential by 78%*. That helps all of us reduce our environmental impact and build toward a cleaner future for everyone.

Keeping your teams ahead of the curve

Your Distributor Service Reps and Allied Air team have the tools and resources to help support you through this regulatory transition. The best practices you know for installing heating and cooling systems today are actually pretty similar to what you'll need to do with low GWP systems. Brush up on installation best practices and learn more about what is changing. Updated modules are available through the **Allied Air Academy**™ to keep your teams up to date on the latest information.

When compared to R-410A refrigerant

Built for the Future

The advent of new low GWP (Global Warming Potential) refrigerants marks a significant stride forward in environmental sustainability. These innovative refrigerants not only mitigate climate change by emitting fewer greenhouse gases but also contribute to reduced carbon footprints. At Allied Air, we don't merely adhere to regulatory standards; we pioneer beyond them. Our design philosophy revolves around not only meeting but exceeding environmental benchmarks, ensuring a healthier planet for generations to come.

78% REDUCTION

COMPARED TO CURRENT R-410A REFRIGERANT

This change reduces the GWP rating of the refrigerants used in our products by 78%, greatly reducing the environmental impact of any future refrigerant leaks that may occur.

We're simplifying the transition to new refrigerants by having indoor coils and air handlers that are field-convertible to R-454B refrigerant - ensuring the inventory you have on the ground at the end of 2024 can be used into 2025 and beyond.

Refrigerant detection system (RDS) kits ensure new R-454B systems are compatible with our existing line of furnaces, requiring only an outdoor unit and coil replacement to give you flexibility to meet your customers' needs.

*Global, national, state, and local GWP requirements may change at anytime without notice.

DESIGNED FOR SIMPLICITY AND ENHANCED FOR FLEXIBILITY

Your teams need consistency when it comes to installing equipment. That's why we've made installing a new R-454B system similar with only one extra step if you've been following our installation guidelines. We've also made several enhancements to make sure you can cover a wide range of installation with as few models to chose from as possible - and help you get in and out faster.

		R-410A	R-454B
APPLICATION	**Perform a proper load calculation.**	✓	✓
	Evaluate duct work to ensure proper airflow. *Make modifications if necessary.*	✓	✓
	Ensure that the electrical wire and breakers are the correct size	✓	✓
	Check to ensure the low voltage wire is the correct size and installed according to the manufacturer's instructions.	✓	✓
	Select proper equipment.	✓	✓
	Ensure line sets are the proper size and clean. *Replace it if needed.*	✓	✓
INSTALLATION	**Set equipment making sure all clearance requirements are followed.**	✓	✓
	Braze line sets following manufacturer's instructions such as using nitrogen.	✓	✓
	Connect refrigerant detection systems wires according to the manufacturer's instructions.		✓
	Pull a vacuum on the system being sure to follow manufacturer's instructions.	✓	✓
	Charge the system according to manufacture's recommendations.	✓	✓
	Perform a start-up and document it on a performance check list.	✓	✓

*Assuming all installation best practices are followed

OUR OVERALL DESIGN REMAINS CONSISTENT

You know how to work on our products today. That's why we've left platform designs the same - less new stuff for you to learn.

ALL NEW EQUIPMENT IS COMPATIBLE WITH PRESS FITTINGS

Braze or press line set connections. Products are now designed to help utilize time-saving installation techniques - the choice is yours!

MULTI-REFRIGERANT COILS

New R-410A coils and air handlers can be field-converted for use in a R-454B system - address nearly any application with the same indoor equipment.

BUILT TO THE HIGHEST STANDARDS

As with previous systems, our new equipment is designed and tested to the latest UL standards.

BUILT-IN REFRIGERANT DETECTION SENSORS

Dedicated R-454B equipment will include built-in refrigerant detection components – meeting UL code requirements, giving you and the homeowner added peace of mind.

EXISTING SYSTEMS MAY REQUIRE RETRO-FITTING

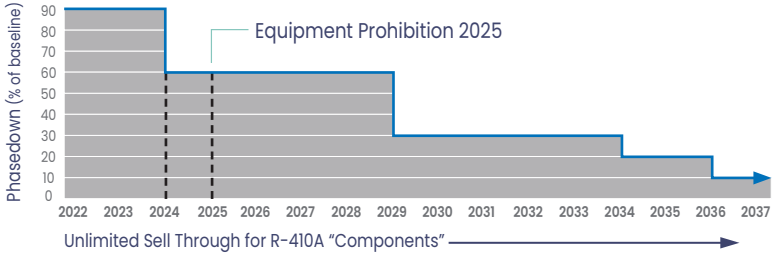
Homeowners don't always want to replace the furnace with their new cooling system. Our field kits provide the flexibility to use what's already there*.

KITS AVAILABLE JULY '24

* Field kits are compatible with existing AirEase®, Armstrong Air®, Concord®, Duane™, and Allied-branded furnaces.

A Few Things To Consider

HFC PHASE-DOWN SCHEDULE



REFRIGERANT PHASE-OUT & COST IMPACTS

EPA rules are different for the R-410A ramp-down compared to previous refrigerant transitions. Because they are aggressively pushing the R-454B change over, expect to see big shifts in the cost of R-410A – likely beginning in 2024.

R-410A EQUIPMENT SELL-THROUGH

The EPA has made a distinction between a product and a system. A **Product** is functional when it leaves the factory - just like commercial rooftop units, residential packaged units, window air conditioners, and refrigerators. These products have a **3-year sell-through** period after December 31, 2024.

Systems are defined as being assembled and charged in the field using multiple components (an outdoor AC or heat pump installed with an indoor coil or air handler). Commercial and residential split systems, both ducted and ductless are and have a **one-year sell through** after December 31, 2024**.

Scan or click QR code for FAQ

REPAIR COMPONENTS

Individual components may be used indefinitely to repair an existing R-410A system. A heat pump is a component, an air conditioner is a component, and indoor coils and air handlers are components when installed separately to fix an existing system.

PARTS, TOOLS & TESTING

Tools like your gauge set and vacuum pump may already be certified for use with R-454B refrigerants. If it doesn't say on the tool itself, check with the manufacturer to find out if updates are needed.

**Equipment installed in a R-410A system during the one-year sell through period in 2025 must have been produced prior to Jan 1, 2025.

Note: Sell-through rules are applicable in the United States except California where R-410A components have a one-year sell through period.

BEST PRACTICES TODAY WILL HELP ENSURE YOUR SUCCESS TOMORROW

Our training goes beyond the equipment in order to help support your business. Learn about best practices for installation, transportation, and handling of low GWP refrigerants.

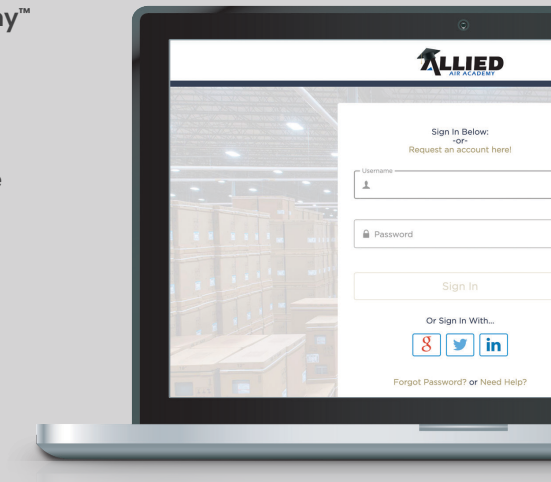
Distributor Service Reps (DSRs) in your market are here to help educate you and your team and are proactively training on changes you need to know.

Training options will be available both in-person and on-demand to help keep your teams moving.

Resources to Help You Train Your Team

Log in to **Allied Air Academy™** to access training on best practices and products.

Scan or click the QR code below to get a jump on the coming changes.



ALLIED™ AIR ACADEMY

Contact your local DSR for help locating specific resources, or with additional questions.

ALLIED™ Air Enterprises

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