

REFRIGERANT DETECTION SYSTEM

What you need to know about field-installed kits



Field-convertible Coils & Air Handlers

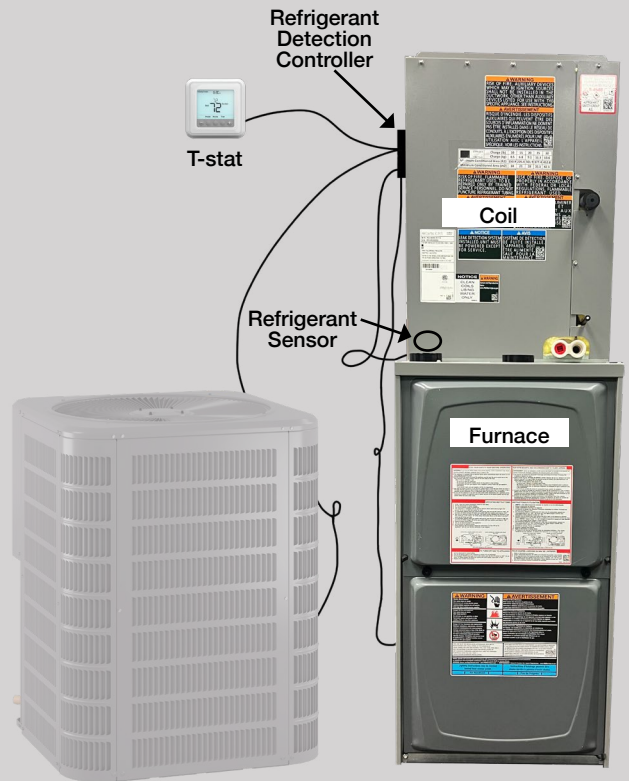
Convertible coils and air handlers ship to you ready for R-410A installations. Here's what you need to know to convert them to R-454B refrigerant:

1. You'll need a R-454B TXV to replace the factory installed R-410A TXV in the convertible coil or air handler.
2. A refrigerant sensor needs to be installed in the factory installed mounting bracket.
3. Depending on the orientation of the air handler, the mounting bracket may need to be relocated. Units ship ready for up-flow installation.
4. If the job has a furnace that does not have built-in refrigerant detection system controls, or you're using a convertible air handler, you'll need to add external controls to the system.
5. Be sure to apply the supplied R-454B labels once the coil or air handler is converted.
6. Refer to the chart for components needed in different applications.

Factory-ready R-454B Components

When you're installing a dedicated R-454B coil and outdoor unit, coils have a factory installed sensor. For an existing furnace or if the new furnace does not have built-in refrigerant detection system controls, you'll need external controls.

Air Handlers will ship from the factory with both the refrigerant detection system sensor and refrigerant detection system controls built-in – no field modification required.



Installation Instructions



Coil Sensor



Air Handler Sensor





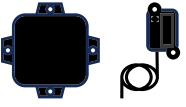

Communicating Board





Non-Communicating Board

Scan QR codes for full installation instructions and wiring diagrams

When is a Refrigerant Detector Sensor or Control Needed?

	Furnace Without Built-in Controls	Furnace With Built-in Controls	Air Handlers
2024 R-410A Multi-refrigerant Coil (-01)			
Designated R-454B Coil (-71)			

Legend:

-  **Refrigerant Detection System Control Kit**
- Reacts to refrigerant leak
 - Factory or field installed near furnace or AHU
-  **Refrigerant Detection System Sensor Kit**
- Senses refrigerant leak
 - Factory or field installed near coil

Furnace or Air Handler <u>Without</u> Refrigerant Detection System Controls	
Multi-refrigerant Coil	27A05 - Non-communicating Controls 27A06 - Communicating Controls 26Z69 - Coil Sensor
Dedicated R-454B Coil	27A05 - Non-communicating Controls 27A06 - Communicating Controls
Multi-refrigerant Air Handler	27A05 - Non-communicating Controls 27A06 - Communicating Controls 27J27 - Air Handler Sensor
Dedicated R-454B Air Handler	

Furnace or Air Handler <u>With Built-in</u> Refrigerant Detection System Controls	
Multi-refrigerant Coil	26Z69 - Coil Sensor
Dedicated R-454B Coil	No Kit Needed
Multi-refrigerant Air Handler	
Dedicated R-454B Air Handler	No Kit Needed

If a Refrigerant Leak Occurs:

1. System turns off
2. Blower turns on to circulate air & dilute
3. System restored when below threshold

Error Codes	
Green	Operating normally
Flashing Green	Turning on
Blue	Went through mitigation
Flashing Blue	Refrigeration detected
Red	See IOM for codes

RDS boards and sensors are exclusively for use with Allied Air equipment.