

RDS INTEGRATED FURNACES

Frequently Asked Questions (FAQs)



What changes are coming to furnaces?

A number of enhancements have been made to the furnace lineup, including:

- Factory-integrated Refrigerant Detection System (RDS) Control (Protection Pro™ Technology)
- Field Test push button
- 7-Segment LED Display
- Availability of Right-Hand Entry Gas Kits
- Dual Fuel “O” Terminals
- Twin Terminals (Single Stage CT models)
- O Relay (Communicating models)

Will the lineup change?

No, we will retain the same furnace lineup.

How will I know which furnaces in my inventory are Furnaces with Integrated RDS Controls?

You can identify low-GWP equipment through the model nomenclature; furnaces have a “K” at the end. There will be new UPCs and updated SKUs.

Will this affect ratings?

Ratings will be unchanged. In AHRI, a “*” or wildcard will be in this position.

Will existing furnaces become obsolete once the new furnaces launch?

We will phase out our current furnaces, but that inventory is still good to sell. Dealers can add an RDS Control kit (27A05 / 27A06) to make those furnaces compatible in R-454B applications.

FURNACE COMPATIBILITY

Are furnaces with integrated RDS controls compatible with R-410A?

Yes, they are compatible with R-410A, R-454B, and R-32. If used with R-410A equipment, the dealer will not need to hook up the RDS sensor and will need to disable the integrated Protection Pro™ RDS Control via dip switches on the IFC.

Can furnaces with integrated RDS controls be installed with another OEM’s R-454B or R-32 coil?

Yes, but it is the coil manufacturer's responsibility to supply the refrigerant sensing device and the controls to integrate with the furnace. In instances where another OEM’s RDS is used, the dip switches can be disabled to indicate that the Protection Pro™ RDS Control is not needed. The competitor’s RDS control will connect to our furnace using low voltage on the terminal strip. Refer to the installation instructions for more information.

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Does the A3 Comfort Sync® Thermostat work with RDS integrated furnaces?

Yes, the A802VK, A972VK and A98MVK are our communicating furnaces. The latest A3 software displays RDS error codes, provides streamlined installation for dealers, and offers full communication comfort and functionality for homeowners.

All noncommunicating furnaces are compatible with adding an EIM (Part #: R104785-01).

REFRIGERANT DETECTION CONTROL (PROTECTION PRO™)

Is the RDS Control *and* RDS sensor integrated?

The RDS *Control* is factory integrated in furnaces with a 'K' in the nomenclature. The RDS *Sensor* is factory integrated in our R-454B dedicated Coils and Air Handlers.

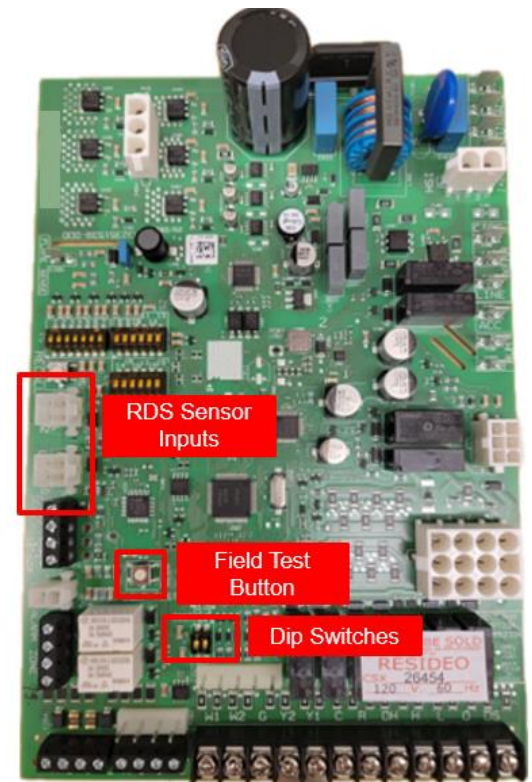
Will Allied continue to offer RDS Control Kits?

Yes! Despite being factory-installed in all of our low-GWP residential products, we will continue producing RDS Kits. We know that distributors have an existing inventory of our furnaces and will need them for component swap-outs.

Will the RDS sensors supplied with ADP Low GWP coils connect directly into Allied furnaces?

Technically, the coil manufacturer should provide the RDS. However, ADP is utilizing the same solution, and their sensors can be used with our furnaces.

Note: We require two **MATCHING** sensors in applications that require two sensors. For example, do **not** install one ADP sensor and one Allied sensor. Instead, install two Allied sensors or two ADP sensors.



Has the RDS control been added to the furnace as a separate board?

No, it has been integrated into the IFC, dip switches, and field test button. See image above.

Are all RDS integrated furnace IFC repair parts backward compatible with the current non-Low GWP furnaces?

Yes, new boards can be used as replacement components on existing furnaces except for the two-stage variable speed noncommunicating IFC (found in 80G2VK, 97G2VK, A802VK, and A97G2VK), which is not backward compatible with current non-Low GWP furnaces. We will stock the repair parts for the current IFC for 10 years.

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What applications would require multiple RDS sensors?

Instances that require multiple RDS sensors include:

- 80% furnaces with a braze joint outside of the sleeve in a confined space
- Multiple Systems Installed in Same Space
- For any Low GWP refrigerant system with additional joints not covered by line set joint sleeves, each system in the same space must have a refrigerant detection sensor installed below the level of the burners

Refer to gas and local codes for all applications. Reference installation instructions for more information.

In applications that require two sensors, we require two MATCHING sensors. For example, do **not** install one ADP sensor and one Allied sensor. Instead, install two Allied sensors or two ADP sensors.

FURNACE ENHANCEMENTS

Is the 7-segment display just for communicating furnaces?

No, the 7-segment display has been added to our 1S CT, 2S CT, and 2S VS NC furnaces, so now our entire furnace lineup has a 7-segment LED on the IFC, along with standardized alpha-numeric status and diagnostic codes. It is an actual code display designed to significantly improve understanding of codes and serviceability. Error codes will be the same across all furnace models. RDS codes will be included.

What are the SKUs for the Right-Hand Gas Entry Kits?

There are two right-hand gas entry kits:

- One kit for 80% (SKU: 27U30)
- One kit for 90%+ (SKU: 27U29)

These kits are sold separately.

What training resources are available?

- Low GWP Furnaces webinar recording and training deck are available on [AlliedAirAcademy](#)
- Counter materials will be available through AlliedConnect on the 2025 New Refrigerants [Content Central](#)
- Print materials (brochures, merchandiser, etc) can be found on the Marketing Vault (Ansira), after June 5
- As always, the [2025 Refrigerants page](#) on AlliedConnect has additional materials