ADP Advanced Distributor Products®

FLEX COIL

United Components, Inc.
Manufacturers' Representative

HVAC PARTNERS FOR SUCCESS

ADP IS THE

#1 producer of residential evaporator coils in the USA.

Supply over 500 HVAC distributors throughout North America

RELIABLE PERFORMANCE

The highest quality coil in the residential HVAC market, leak tested twice for quality assurance.

Air Under Water Testing

500 psi, visual detection of leaks for maximum quality

Helium Testing

Fine detection of microscopic leaks

OPTIMIZED PERFORMANCE

System and Coil Heat Transfer Labs

- Maximizing performance and efficiency ratings with any OEM
- **Held to same testing standards as OEM**
- ADP Coils and Air Handlers go through complete system tests with all OEM's
- First Heat Transfer Lab in North America

COMPASS REVOLUTION

- Instant access to millions of AHRI certifiable matches
- Backed by testing
- Creates customer confidence
- Industry-exclusive software platform

FLEXCOIL

ADP's Solution

FLEX COIL

One coil, any refrigerant.*
The flexibility you need in 2024 and beyond.
Only from ADP.

*** Factory or field configurable for R-22, R-410A, R-454B, or R-32**

FLEXCOIL

The ADP's Solution

Key Differentiators

Dual listed for A1 and A2L

- Marked with refrigerant type at time of install.

Field or Factory installed RDS

- Single RDS with dual-calibrated sensor for both R-32 and R-454B

Maximize flexibility for dealers & distributors

- Meets current demands while maintaining backward compatibility

Offerings

All coil and AHU lines with options for factory or field configurations:

Factory Refrigerant	Factory RDS
R-410A	No
R-32	Yes
R-32	No
R-454B	Yes
R-454B	No

Field TXVs
R-410A
R-32
R-454B

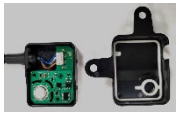
Field RDS
Dual: R-32 & R-454B

FLEXCOIL

A2L Requirements

Refrigerant Detection System (RDS)

- Sensor mounted inside coil
- Before concentration of refrigerant reaches 25% of lower flammability limit (LFL) then:
  1) Turns on blower to dilute (& turns off heat)
  2) Turns off ODU to reduce additional leakage
  3) After minimum of 7 minutes of mitigation, **automatically resets when concentration drops below trigger point**
- ADP's RDS will utilize 24V thermostat controls



Sensor

Mitigation control board

RDS inside coil

Turn on blower

Turn off ODU

FLEXCOIL - FAQ

Operation

- What happens when the RDS is triggered?
  - Thermostat loses power
  - Outdoor unit is turned off
  - Gas or electric heat turns off
  - Furnace/AHU fan turns on
- How long does the mitigation process last?
  - Runs for a minimum of 7 minutes once the refrigerant concentration drops below trigger point of 25% LFL .
- Does the board lock out after several cycles?
  - No, it automatically resets after mitigation complete and will cycle indefinitely.

FLEXCOIL - FAQ

Operation – Page 2

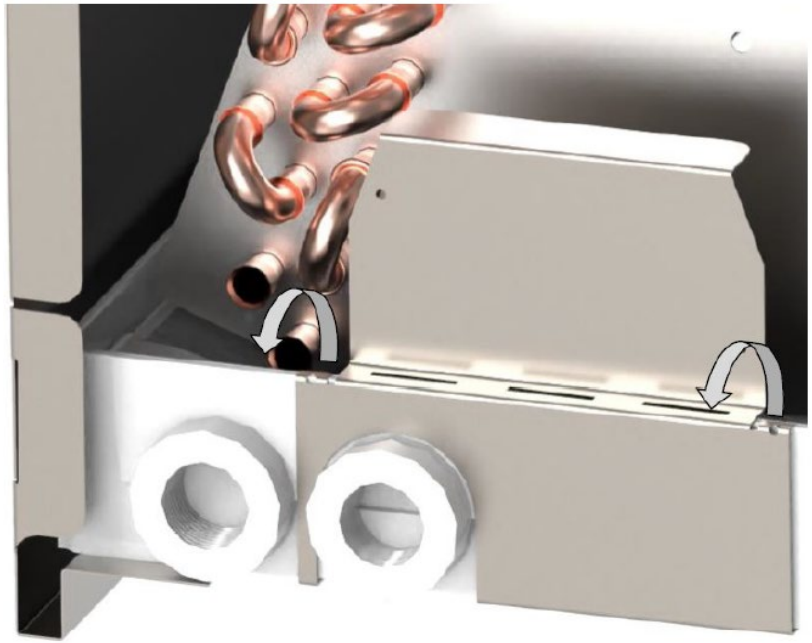
- Will the ADP RDS work with communicating controls?
  - Not currently. ADP is looking into this and we will update you as these systems become available and we are able to confirm compatibility.
- Does the sensor need servicing?
  - No, it should last for the life of the coil. It is maintenance free.
- How will the homeowner know the RDS is triggered?
  - The thermostat will lose power, while the indoor fan continues to run.
  - The installer may use the RDS alarm contacts in conjunction with other hardware to alert the homeowner.

FLEXCOIL

Sensor

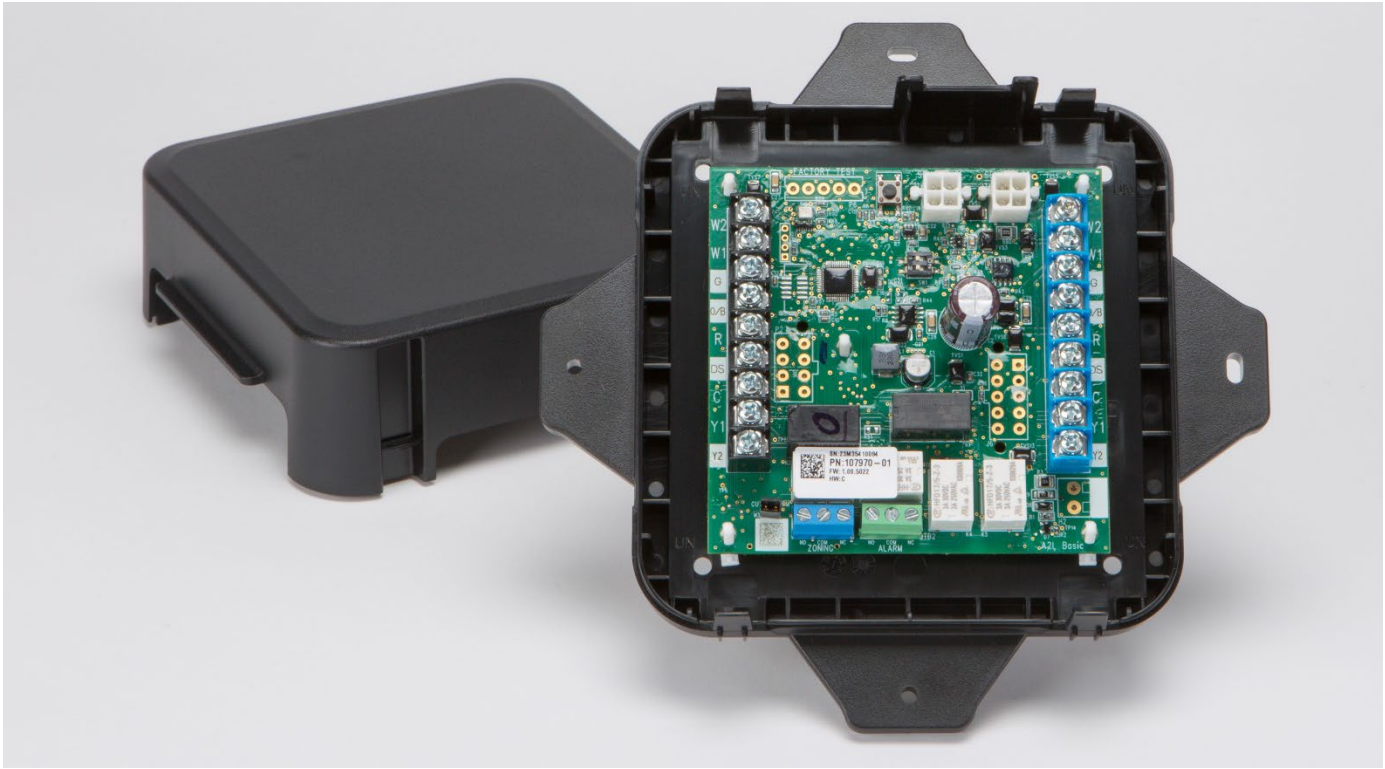
FLEXCOIL

Bracket



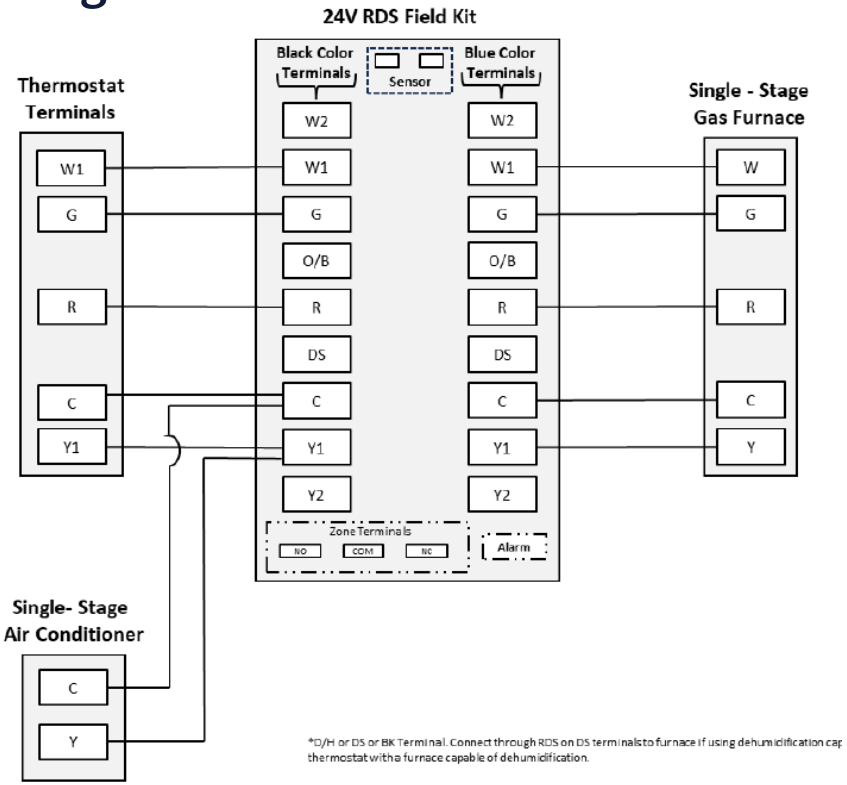
FLEXCOIL

Control Board



FLEXCOIL

Control Board – Wiring



Control Board – LED Flash Codes

Flash	Status	Action
Green Flashing	Initializing	None
Green/Blue Flashing	Monitoring	None
Blue Flashing	Mitigating	Locate and repair leak
Solid Blue	Fault / Service	Refer to Red LED diagnostic codes in manual

Control Board – Test Button

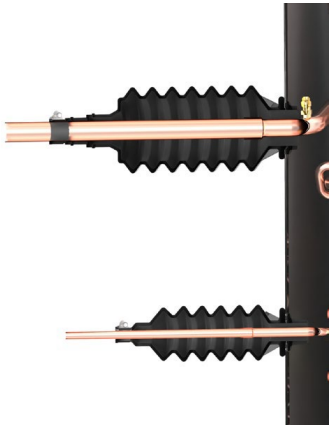
Mode	Press the Test Button to …
Normal	Test leak detection response.
Leak Detected	Reset to normal operation after test.
Fault	Reset to normal operation after troubleshooting.

FLEXCOIL

Line Set Sleeves – ADP Best Practices

- Line set installation
  - Not Required but ADP recommended.
  - Primary joints shall receive a line set sleeve
  - Redirects refrigerant leak into the coil cabinet to allow detection
  - Sleeve installs on tube prior to brazing

- Line set sleeves are included in the RDS installation kit.



FLEXCOIL - FAQ

Certification

- ADP's coils are certified to the UL 60335-2-40 standard and have met the exact same requirements as the OEM coils
- UL 60335-2-40 specifically allows for 3rd party coils (referred to as "partial units")

FLEXCOIL - FAQ

Myths and Misinformation

- “UL is changing the standard and you will have to replace any FlexCoils you installed.”
  - UL standard changes are not retroactive. Already manufactured units would not be affected.

- “You can’t sell coil-only systems because you have to use an OEM furnace certified to UL 60335-2-40.”
  - Furnaces are not certified to UL 60335-2-40, they are certified to a different ANSI standard. UL 60335-2-40 is agnostic to the air mover used.
  - Coil-only ratings and installations continue to be allowed.

FLEXCOIL

Nomenclature – Goodman /Amana

- Nomenclature

J	G30	B	24	D	145	B	12	05	N
Cabinet Color	Slab Number	Refrigerant Type & Metering Device (Field Configurable)	Nominal MBTUH	Cabinet Depth	Width	Cabinet Upper Notch	Cabinet Height	Configuration	Refrigerant Detection System (Field Configurable)
J= Goodman /Amana		1 = Piston							R = Included (Factory Installed)
		7 = R-410A Bleed HP-A/C TXV							N = Not Included (Field Installed)
		9 = R-410A Non-bleed HP-A/C TXV							
		A = R-454B Non-bleed HP-A/C TXV							
		B = R-32 Non-bleed HP-A/C TXV							

FLEXCOIL

Labeling

"FlexCoil" will also be in the description on the carton label

FLEXCOIL

Data Label Example

FLEXCOIL

HVAC Distributors Plan:

FlexCoil (Phase 1 /Gen 1) *Current Inventory

- R-410 TXV Factory Installed, R-32 TXV and RDS Field Installed.
- Two R-32 TXVs (18-36MBH & 42-60MBH) SKUs

FlexCoil (Phase 2 / Gen 2)

- R-32 TXV and RDS Factory Installed.
- AHRI Ratings for New A2L Condensers.

All ADP FlexCoils have a 10-year warranty – no registration required!

Advanced Distributor Products®

Questions?

United Components, Inc.
Manufacturers' Representative

HVAC
PARTNERS FOR SUCCESS