



FLEXCOIL WEBINAR

Tim Orr | 12-20-2023





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Agenda

- EPA Requirements
- A2L Requirements
- ADP's Solution
- Q & A
- Key Take Aways

EPA Requirements

New info – different than
as presented

Compliance Dates – US CFR

- May not install systems using ≥ 700 GWP refrigerant beginning Jan. 1, 2025
- May sell components using ≥ 700 GWP indefinitely
 - E.g. condensing units, compressors, evaporators
- **Latest from EPA:**

EPA issued an interim final rule to allow inventory of higher-GWP HFC equipment manufactured or imported before January 1, 2025, to be installed until January 1, 2026.



Final Rule: <https://www.federalregister.gov/d/2023-22529>

Interim Final Rule: <https://www.federalregister.gov/documents/2023/12/26/2023-28500/phasedown-of-hydrofluorocarbons-technology-transitions-program-residential-and-light-commercial-air>

EPA FAQ: <https://www.epa.gov/climate-hfcs-reduction/frequent-questions-phasedown-hydrofluorocarbons#technology-transitions-program>

EPA Fact Sheet: <https://www.epa.gov/system/files/documents/2023-10/technology-transitions-final-rule-fact-sheet-2023.pdf>



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EPA Requirements

Industry Trends

- Majority of residential split systems expected to use R-454B or R-32
- Announcements from manufacturers seem to be favoring R-454B
- Ductless manufacturers may favor R-32

	Ozone Depletion Potential (ODP)	100 Year Global Warming Potential of Different Refrigerants
R12 (CFC)	1.0	10,900
R22 (HCFC)	0.055	1,810
R410A (HFC)	0	2,090
R32 (HFC)	0	675
R454B (HFC/HFO)	0	466

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A2L Requirements

UL 60335-2-40 4th Ed.

- Updated safety standard for systems using A2L refrigerants
- Design/testing requirements
- Leak mitigation requirements

ASHRAE Standard 34 Safety Classes

Higher Flammability	A3 Propane, Butane	B3
Flammable	A2 Methylene Flouride	B2 Methyl Chloride
Lower Flammability	A2L R-454B R-32	B2L Ammonia
No Flame Propogation at 60° C	A1 R-410A	B1 Sulfur Dioxide
	Lower Toxicity (OEL of 400 ppm or greater)	Higher Toxicity (OEL of less than 400 ppm)

Increasing Flammability

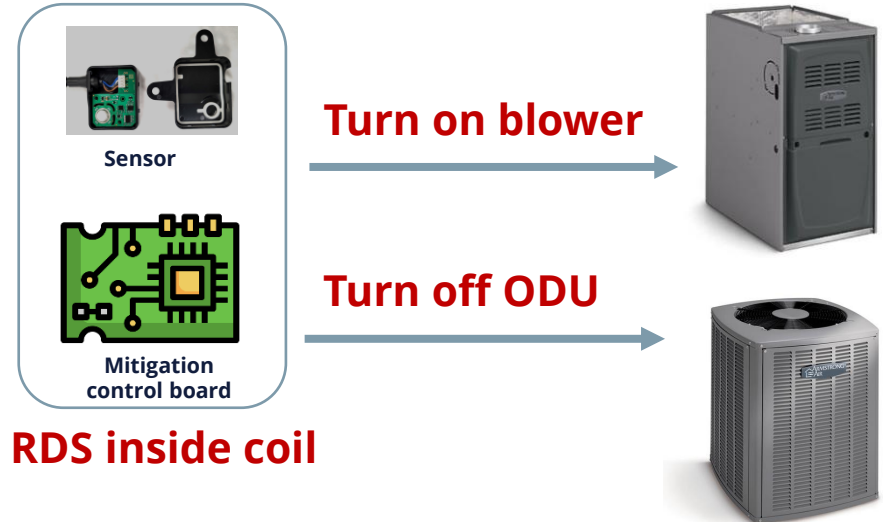
Increasing Toxicity

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A2L Requirements

Refrigerant Detection System

- Sensor mounted inside coil
- Before concentration of refrigerant reaches 25% of lower flammability limit (LFL) then:
 - 1) Turns on blower to dilute
 - 2) Turns off ODU to reduce additional leakage
- ADP's RDS will utilize 24V thermostat controls





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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



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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 distributors

- Future proof inventory while maintaining backward compatibility

Offerings

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

Factory Refrigerant	Factory RDS	Field TXVs
R-410A	No	R-410A
R-32	Yes	R-32
R-32	No	R-454B
R-454B	Yes	Field RDS
R-454B	No	Dual: R-32 & R-454B



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Transition

Q4'23

Q1'24

Q2'24

Q3'24

Q4'24

Q1'25

Buy / Sell Through Current Models

Low-GWP
Outdoor Units

FlexCoil R-410A

FlexCoil w/Field Kit

FlexCoil w/Factory Kit

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Service Coils



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Key Take Aways

FLEX COIL

- FlexCoil future proofs your inventory while maintaining backward compatibility
- We will introduce FlexCoil across our entire product line product line of coils and air handlers
- More specifics coming mid-January, but start discussing your transition plans now with your ADP sales representative
- www.ADNow.com/FlexCoil