

FLEX COIL Technology Guide

Built for Flexibility with R-32 and R-454B Refrigerants



Patent-Pending Dual-Refrigerant Sensor Technology

ADP'S PATENT-PENDING FLEXCOIL TECHNOLOGY

We created **FlexCoil™ technology in 2023** to make the refrigerant transition easier for distributors and contractors. As the industry moved to low-GWP A2L refrigerants, the challenge went beyond compliance—it was about inventory management, field flexibility, and peace of mind.

Our patent-pending dual-refrigerant sensor is designed to work across multiple refrigerants. Each unit can be configured at the factory or converted in the field to ensure sell-through and reduce the risk of stockouts.

Conversion is simple: swap the metering device, update the label, and place the sensor. A single certified sensor calibrated for both R-32 and R-454B meets the latest UL60335-2-40 safety standards—delivering confidence in every install.

Launched in 2023 and entering production in 2025, FlexCoil is the smarter way to manage change: reducing stockouts, keeping inventory moving, and providing the flexibility you need today and tomorrow.

EARLY 2024



**Factory Configured
for R-410A & R-22**



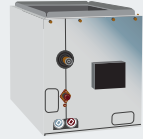
MID-2024



**Field Configured for
Low-GWP with TXV &
RDS Kit***



AFTER JAN 2025



**Factory Configured for
R-32 & R-454B Only**

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

ADP ADVANTAGES



- One RDS kit that is compatible with both R-32 and R-454B refrigerant



- Multi-position flexibility to meet the requirements of any space



- Factory / Field Installed Electric Heat Kits



- Every Healthy Solutions® coil features Microban® technology, providing added protection against the build-up of mold and mildew within your system for improved air quality



- Drain pan with less water retention



- 208/240/120 V, 60 Hz, 1 Ph
- 3-speed PSC & 5-speed HE ECM motor
- Variable Speed ECM Motor



- Factory installed TXV's with bolt on connections and easy access for servicing without brazing



- Factory Installed Hot Water Coils

KEY FEATURES

- **2024 ADP Manufactured Coils and Air Handlers** – Compatible with R-410A, R-32, or R-454B.
 - **2025 ADP Manufactured Coils and Air Handlers** – Future-ready, designed for R-32 and R-454B.
 - **Factory or Field Configurable** – Convert with a simple metering device swap, label update, and sensor placement.
 - **Dual Piston Advantage** – Ships with R-454B piston installed plus an R-32 backup piston included.
 - **Copper & Aluminum Slab Options** – Available for both refrigerant types.
 - **Universal RDS Sensor** – One certified sensor detects both R-32 and R-454B (UL60335-2-40 by ETL).
 - **Flexible RDS Choices** – Choose factory-installed controller + sensor, leak detection sensor, or field-installed option.
 - **Inventory Efficiency** – Reduce SKUs and avoid obsolescence with one coil line that covers multiple refrigerants.
 - **Contractor Friendly** – Quick onsite adjustments support emergency installs and minimize callbacks.
 - **Exclusive Microban® Protection** – Only ADP offers Microban®-infused drain pans, designed to inhibit bacteria, mold, and mildew growth.
 - **Award-Winning Innovation** – Recognized with the 2024 Dealer Design Gold Award.
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WHY ADP?



QUALITY

- Leading US manufacturer of evaporator coils and air handlers
- In-house innovation labs and extensive quality testing (including leak testing)



FLEXIBILITY

- Products designed to match perfectly with any system
- Product variations that allow for quick installation and easy access



SOLUTIONS

- We solve problems
- Wide range of products – 10,000 SKUs



NOMENCLATURE

A2L									
H	G32	A	24	D	145	B	16	05	R
Cabinet Color	Slab Number <i>Core/Non-Core: see specs</i>	Metering Device	Nominal MBTUH	Cabinet Depth <i>Core/Non-Core: Based on color see below</i>	Width	Cabinet Upper Notch	Cabinet Height ¹	Configura-tion ³ <i>Core/Non-Core: Based on color see below</i>	Refrigerant Detection System <i>(Field Configurable)</i>
H = Embossed A = Armstrong G = ICP J = Goodman/ Amana N = Nordyne P = Carrier/ Bryant/ Payne R = Rheem/ Ruud T = Trane/ American Standard Y = York/Luxaire Coleman	E & A = Copper slab G = Aluminum slab	1 = Piston (R-454B & R-32) ¹ A = R-454B Non-bleed HP-A/C TXV B = R-32 Non-bleed HP-A/C TXV C = R-454B Bleed HP-A/C TXV		A = Uncased C = 20.5"2 D = 21.0" E = 21.5"	Cased 140 = 14.0" 142 = 14.25" 145 = 14.5" 175 = 17.5" 210 = 21.0" 245 = 24.5" Uncased 130 = 13.0" 140 = 14.0" 155 = 15.5" 170 = 17.0" 200 = 20.0" 235 = 23.5"	A = Uncased B = 0.75" (Standard)	00 = Uncased 12 = 12.5" 16 = 16.5" 18 = 18.5" (up to 31.5")	00 = Right-hand uncased 01 = Right-hand cased 04 = Left-hand uncased 05 = Left-hand cased 20 = Right-hand cased multiposition 22 = Left-hand cased multiposition	R = RDS Controller & Sensor (Factory Installed) L = Leak Detection Sensor (Factory Installed) N = Not Included (Field Installed)

TXV and Piston Options

Description		Part Number	Qty	For Coils Size (MBTUH)
TXVStandard size coils (1.5 to 5 tons)	HP-A/C TXV R454B Kit (non-bleed) "A" designation in nomenclature	167757901A	1	18 - 36
		167757902A	1	42 - 60
	HP-A/C TXV R32 Kit (non-bleed) "B" designation in nomenclature	167758801A	1	18 - 36
		167758802A	1	42 - 60
	HP-A/C TXV R454B Kit (bleed) "C" designation in nomenclature	167828101A	1	18 - 36
		167828102A	1	42 - 60

Description	Piston Size	Part Number	Qty	For Coils Size (MBTUH)
R-454B Pistons	46	176799946	10	18
	53	176799953	10	24
	59	176799959	10	30
	65	176799965	10	36
	70	176799970	10	42
	76	176799976	10	48
R-32 Pistons	84	176799984	10	60
	41	176799941	10	18
	46	176799946	10	24
	53	176799953	10	30
	57	176799957	10	36
	62	176799962	10	42
	65	176799965	10	48
	76	176799976	10	60

¹Piston will always be sized to match the nominal BTU rating of the coil. 2 "C" depth not available with aluminum slabs. See Spec Guide for additional nomenclature details.

