

## EVAPORATOR COIL PRODUCT GUIDE



ADPNOW.COM

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## WHY ADP?

Advanced Distributor Products (ADP) started with a vision to produce the best evaporator coils in the country. In 1992, ADP began production in Grenada, Mississippi, and started developing innovative products that are fully supported by a research and development laboratory, which includes areas for testing, assembling, and designing future products.

Today, ADP offers a wide range of premier HVAC products with exclusive design advantages. We pride ourselves on our quality, flexibility, and solutions. We design our products to fit any application and simplify installation. And we're always open to new partnerships with businesses and the communities we serve.



- Leading US manufacturer of evaporator coils and air handlers
- Built to the highest quality standards
- Microban<sup>®</sup> antimicrobial technology
- Advanced performance testing simulation software



- Broadest product line in the industry – thousands of variations available
- Products designed to match perfectly with any system
- Personalized programs for distributor partners
- Custom product strategies to meet local needs



- Short lead times
- Low warranty rates with simple claim process
- Insights from industry experts
- Focused on distributor and dealer success
- Quick and easy installation in the field



## THE ADP ADVANTAGE

There's a reason ADP is the #1 producer of evaporator coils in the USA. Our coils are designed to match perfectly with any system, excelling in appearance and performance. And our coil line can accommodate any application need.

### ALL ADP EVAPORATOR COILS OFFER



Innovative and efficient designs that maintain a minimal footprint



Installation flexibility and efficiency



Increased system performance



Available 10-year extended warranty with registration



Out-of-the-box installation



Industry-exclusive Microban<sup>®</sup> anti-microbial product protection on every Healthy Solutions<sup>®</sup> coil



Factory installed TXV's with bolt on connections



Both copper and aluminum coils available

## **EVAPORATOR COIL APPLICATION**

An evaporator coil plays a crucial role in the operation of an air conditioner or heat pump by gently drawing warmth from the air within the home. It's positioned within the air handler or connected to the furnace.

Nestled within the blower compartment or air handler, the evaporator coil serves as a reservoir for the cooled refrigerant that the compressor sends its way. As the blower fan guides air over the coil, the refrigerant's chilly temperature effectively extracts heat from your indoor air, leaving you with a more comfortable environment. Subsequently, the refrigerant, now carrying the warmth it collected, embarks on a journey to the outdoor condenser coil. In the case of a heat pump, this process takes on a role reversal during winter. Here, the evaporator coil releases heat from the refrigerant into your home, counteracting the chill instead of sending it outside.

In this way, the evaporator coil silently contributes to the coziness of your living spaces while also being versatile enough to adapt to seasonal variations in temperature.





# FLEX COIL DE COIL

### WHAT IS FLEXCOIL?

FlexCoil is ADP's A2L solution that works with both R-32 and R-454B. ADP's FlexCoil is designed to help HVAC distributors and dealers succeed during this year's refrigerant transition.

### WHAT MAKES FLEXCOIL THE RIGHT CHOICE?



### **Flexibility for distributors**

• Maximizes inventory flexibility: The same coil can be used for R-32 or R-454B with just a metering device change

- Easy installation for dealers
  Provides a full line of coils certified for both A2L refrigerants
  - Field or factory-installed Refrigerant Detection System (RDS)
    - Single RDS with dual-calibrated sensor for both R-32 and R-454B
    - Field RDS offers one kit with everything needed to make an easy refrigerant change
  - All ADP FlexCoil products come with the sensor bracket preinstalled in the approved location and have mechanical fit connections to install or change the metering device, such as a TXV

### WHEN WILL FLEXCOIL BE AVAILABLE?

FlexCoil is available now! Contact your ADP sales representative for more details.

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

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



### Scan to learn more about ADP's FlexCoil

## **EVAPORATOR COIL PRODUCT OFFERING**

FlexCoil A2L + Legacy A1 models available

Multi-Position & Dedicated Downflow HE & Dedicated Downflow Series

Lower heights and variable widths for a perfect furnace fit

### **Horizontal Top Connection**

V Series Dedicated horizontal coils offer strategic attic solutions over standard MP coils

### **Horizontal Side Connection**

HD Series Dedicated horizontal coils offering the perfection solution for crawl spaces

### **Plenum Coil** PL Series Dedicated horizontal coil with an integrated plenum for fast installation

Horizontal Slab HH Series Dedicated horizontal slab coils great for replacement of legacy applications

### Manufactured Housing M Series

Mobile home applications with sized out down-turned headers for easy line brazing

### **Service Coils**

SC Series Service coils offering the perfect replacement for 8-12 SEER coils













## **EVAPORATOR COIL PRODUCT COMPARISON**

		•					
Series	HE Series	Downflow	V Series	HD Series	PL Series	M Series	HH Series
DESCRIPTION	Multi-Position	Dedicated Downflow	Horizontal Coil	Horizontal Coil	Horizontal Coil	Manufactured House	Horizontal Coil
FLEXCOIL A2L							
R-32	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
R-454B	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
LEGACY A1							
R-410A	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
R-22	<ul> <li>✓</li> </ul>	×	~	$\checkmark$	~	<ul> <li>✓</li> </ul>	~
WARRANTY					-		1
Extended Warranty Available	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
COIL FEATURES							
Aluminum Coil	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		
Copper Coil	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$
APPLICATION							
Vertical Upflow/Downflow	$\checkmark$	✔ Down- flow				$\checkmark$	
Horizontal Right/Left	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
AC/HP	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Cased	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Uncased	$\checkmark$					$\checkmark$	
CABINET							
Embossed	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Painted	$\checkmark$		$\checkmark$				
DRAIN PAN							
Microban <sup>®</sup> Antimicrobial	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
UV Resistant	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Sloped Design	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	
METERING (Also availa	ble field-installed)						
Piston	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
TXV	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

🖌 Available factory installed

**5-YEAR** LIMITED PARTS WARRANTY STANDARD AVAILABLE **10-YEAR** EXTENDED WARRANTY WITH REGISTRATION

SCAN THIS CODE TO REGISTER FOR OUR 10-YEAR WARRANTY.





Scan the QR code to learn more





Lower heights and variable widths for a perfect furnace fit

Cased, uncased, multi-position and upflow/downflow configurations

Built-in plenum flanges with rounded corners for fast and safe installation

Front panel with only four screw access and non-captive refrigerant lines for fast and easy coil access

Available in copper or aluminum

Painted cabinet options for furnace color coordination



Microbes can double every 20 minutes on an untreated surface!



Mold is part of our environment and there are no practical ways to completely eliminate mold spores.

The best defense against mold in a home is to prevent it from taking hold through moisture control and the use of mold resistant building materials.

## **Lower Height**

ADP provides space saving opportunities and a perfect fit with your furnace!



### Nomenclature

н	G32	1	24	D	145	B	12	05	N
Cabinet Color	Slab No.	Refrigerant Type & Metering Device (Field Configurable)	Nominal MBTUH	Cabinet Depth	Width	Cabinet Upper Notch	Cabinet Height	Configuration	Refrigerant Detection System (Field Configurable)
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	<b>E &amp; A =</b> Copper slab <b>G =</b> Aluminum slab			A = Uncased C = 20.5" <sup>2</sup> 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" 255 = 25.5" Uncased 130 = 13.0" 140 = 14.0" 155 = 15.5" 170 = 17.0" 200 = 20.0" 205 = 20.5" 235 = 23.5"	<b>A</b> = Uncased <b>B</b> = 0.75" ( <i>Standard</i> )	00 = Uncased 12 = 12.5" 16 = 16.5" 18 = 18.5" (up to 31.5")	<ul> <li>00 = Right-hand uncased</li> <li>01 = Right-hand cased</li> <li>04 = Left-hand uncased</li> <li>05 = Left-hand cased</li> <li>20 = Right-hand cased multi-position</li> <li>22 = Left-hand cased multi-position</li> </ul>	R = Included (Factory Installed) N = Not Included (Field Installed)

\*Typical A2L nomenclature shown, see spec guide for full details nomenclature including for A1 models. <sup>1</sup>Piston will always be sized to match the nominal BTU rating of the coil. <sup>2</sup> "C" depth not available with aluminum slabs. See Spec Guide for additional nomenclature details.



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Short height to fit constrained spaces

Fits furnace with no additional support needed

Better air flow for higher performance versus N-coil

Out-of-the-box reliable downflow solution and no kit needed

Front panel with only six screws for fast and easy coil access; non-captive refrigerant lines



## **Perfect Fit**

- Full depth cabinet for a sturdy installation
- Perfect width fit for a cleaner design
- Braced cabinet for added strength



## **Short Height**

- Fits in height constrained spaces
- Space savings opportunities



\* See spec guide for available models

### Nomenclature

А	24	VAC	1	Х	R	17	D	N
Series	Nominal MBTUH	Slab Number	Refrigerant Type & Metering Device (Field Configurable)	Cabinet Color	Cabinet Depth	Cabinet Width	Configuration	Refrigerant Detection System (Field Configurable)
A = Vertical		VAC, VBC. VCC, etc. = Copper Slab VAA, VBA. VCA, etc. = Aluminum Slab	<ul> <li>1 = Piston<sup>1</sup></li> <li>A = R-454B Non-bleed HP-A/C TXV</li> <li>B = R-32 Non-bleed HP-A/C TXV</li> <li>C = R-454B Bleed HP-A/C TXV</li> </ul>	<b>X =</b> Embossed	<b>R =</b> 26.5"	<b>14 =</b> 14.5" <b>17 =</b> 17.5" <b>21 =</b> 21.0" <b>24 =</b> 24.5"	<b>D</b> = Downflow	R = Included (Factory Installed) N = Not Included (Field Installed)



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Dedicated horizontal coils offer strategic attic solutions over standard MP coils

Top refrigerant connections eliminating counter flow and line re-routing

Dual condensate drains on each side for additional installation flexibility

Top panel with only four screws for fast and easy coil access

Available in copper or aluminum

Painted cabinet options for furnace color coordination



Microbes can double every 20 minutes on an untreated surface!





Mold is part of our environment and there are no practical ways to completely eliminate mold spores.

The best defense against mold in a home is to prevent it from taking hold through moisture control and the use of mold resistant building materials.

## **Perfect Attic Solution**

Dedicated horizontal coils offer a quality advantage over standard multi-position coils!



#### **Perfect Furnace Fit**

Coil height matches furnace width, no adapter required

5 Ton Attic Access 21" solution easily passes through 22" attic opening

Top Refrigerant Connections Eliminates counter flow and line re-routing

### Nomenclature

V	24	н	145	D12	1
Cabinet Color	Nominal MBTUH	Coil Type	Cabinet Height	Slab Number	Metering Device
<b>V =</b> Embossed		<b>H =</b> Horizontal	<b>145 =</b> 14.5"	<b>D</b> = Copper Slab	<b>1</b> = Piston <sup>1</sup>
A = Armstrong		A-Coil	<b>175 =</b> 17.5"	<b>P</b> = Aluminum Slab	
<b>C =</b> Carrier/Bryant/Payne			<b>210 =</b> 21.0"		
<b>D</b> = Ducane/Aire-Flo			<b>245 =</b> 24.5"		
G = ICP			<b>252 =</b> 25.25"		
<b>J =</b> Goodman/Amana					
N = Nordyne					
<b>P =</b> Carrier/Bryant/Payne					
R = Rheem/Ruud					
<b>T</b> = Trane/American Standard					
<b>Y =</b> York/Luxaire/Coleman					

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Dedicated horizontal coil with Integrated plenum for fast installation

Built-in handle allows for easy lifting through tight spaces, such as an attic

Top refrigerant connections and dual condensate drains for installation flexibility

Top panel with only four screw access and UV light knockouts for installation flexibility

Pilot holes for fast secondary drain pan attachment



Microbes can double every 20 minutes on an untreated surface!



Standard plastic pan with visible mold



Mold is part of our environment and there are no

practical ways to completely eliminate mold spores.

The best defense against mold in a home is to prevent it from taking hold through moisture control and the use of mold resistant building materials.

## **All-in-One Solution**

ADP provides a light weight plenum coil solution with premier features and benefits!



#### Mobility

Light weight aluminum evaporator coils with aluminum header plates

Attic Access Built-in handle allows easy lifting through tight spaces

Top Refrigerant Connections Eliminates counter flow and line re-routing

#### PL 24 145 P12 35 Н Ν 1 Refrigerant Type & Refrigerant Nominal Slab Number **Cabinet Type** Coil Type **Coil Height Cabinet Length Metering Device Detection System** мвтин (Field Configurable) (Field Configurable) PL = Plenum H = Horizontal **145 =** 14.5" P13 1 = Piston<sup>1</sup> 35 R = Included Coil (Factory Installed) **175 =** 17.5" P14 **A** = R-454B 40 **210 =** 21.0" P16 etc. Non-bleed N = Not Included HP-A/C TXV (Field Installed) **245 =** 24.5" B = R-32 Non-bleed HP-A/C TXV C = R-454B Bleed HP-A/C TXV

\*Typical A2L nomenclature shown, see spec guide for full details nomenclature including for A1 models <sup>1</sup>Piston will always be sized to match the nominal BTU rating of the coil. See Spec Guide for additional nomenclature details.

## Nomenclature



Scan the QR code to learn more





Dedicated horizontal coils offering the perfection solution for crawl spaces

Counterflow capable to meet any airflow direction

Side refrigerant connections for easy access to coil

Built-in plenum flanges with rounded corners for fast and safe installation

Available in copper or aluminum



Microbes can double every 20 minutes on an untreated surface!



Mold is part of our environment and there are no practical ways to completely eliminate mold spores.

The best defense against mold in a home is to prevent it from taking hold through moisture control and the use of mold resistant building materials.

## **Crawl Space Solutions**

Dedicated horizontal with side refrigerant connections are perfect for crawl space application!



### Nomenclature

н	1	А	24	E	145	В	21	47	N
Cabinet Color	Slab Number	Refrigerant Type & Metering Device (Field Configurable)	Nominal MBTUH	Cabinet Width	Cabinet Height	Duct Flange	Cabinet Length	Product Code	Refrigerant Detection System (Field Configurable)
<ul> <li>H = Embossed</li> <li>A = Armstrong</li> <li>C = Carrier/Bryant/ Payne</li> <li>G = ICP</li> <li>J = Goodman/Amana</li> <li>N = Nordyne</li> <li>R = Rheem/Ruud</li> <li>T = Trane/American Standard</li> <li>Y = York/Luxaire/ Coleman</li> </ul>	D = Copper Slab P = Aluminum Slab	1 = Piston <sup>1</sup> 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		<b>E</b> = 21.5" (Standard)	<b>145</b> = 14.5" <b>175</b> = 17.5" <b>210</b> = 21.0" <b>245</b> = 24.5"	<b>B</b> = 0.75" (Standard)	<b>21</b> = 21.5" <b>26</b> = 26.5" <b>31</b> = 31.5"	<b>47</b> = Side refrigerant connections	R = Included (Factory Installed) N = Not Included (Field Installed)



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Great for replacement of legacy applications

Dedicated Horizontal slab coils

Bi-directional airflow for installation flexibility

Available with piston or TXV factory installed



Microbes can double every 20 minutes on an untreated surface!



Mold is part of our environment and there are no practical ways to completely eliminate mold spores.

The best defense against mold in a home is to prevent it from taking hold through moisture control and the use of mold resistant building materials.



Factory installed TXV's with bolt on connections

## Nomenclature

Н	H57	1	24	А	185	Α	21	02	N
Cabinet Color	Slab Number	Refrigerant Type & Metering Device (Field Configurable)	Nominal MBTUH	Cabinet Depth	Cabinet Opening	Airflow	Cabinet Height	Product Code	Refrigerant Detection System (Field Configurable)
<b>H =</b> Embossed		1 = Piston <sup>1</sup> 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		<b>A</b> = 10"	<b>185</b> = 18 5/8" <b>225</b> = 22 5/8" <b>265</b> = 26 5/8" <b>305</b> = 30 5/8" <b>365</b> = 36 5/8" <b>425</b> = 42 5/8"	A = Bi-directional airflow	<b>21</b> = 21 1/4"	<b>02 =</b> Cased "H"	R = Included (Factory Installed) N = Not Included (Field Installed)



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Designed for manufactured housing applications - Works perfectly with our mFurnace manufactured housing electric furnace

Filter friendly top plate

Sized out down-turned headers for easy line brazing

Coils charged with dry air for greater flexibility with both R-22 and R-210A applications

Low water retention drain pan design with built-in downflow drip shields



## **Blow-off Protection & Improved Air Quality**

ADP provides enhanced protection to prevent condensate blow-off and improve overall air quality. Our manufactured housing evaporator coils are designed to remove unhealthy standing water from the drain pan.



### Reduce Condensate Blow-off

Specially designed downflow drain pan for added protection

#### Reduced Installation Time

Drip shield molded into pan, no installation required

#### Sloped Drain Pan Superior drainage versus standard manufactured housing coils

### **Moisture Control**

Reduced opportunities for growth of mold and bacteria due to standing water

### Nomenclature

М	24	E32	1	Ν
Series	Nominal MBTUH	Slab No.	Refrigerant Type & Metering Device (Field Configurable)	Refrigerant Detection System (Field Configurable)
<b>M =</b> Manufactured Housing (Uncased)		E30 E31 etc.	<ul> <li>1 = Piston<sup>1</sup></li> <li>A = R-454B Non-bleed HP-A/C TXV</li> <li>B = R-32 Non-bleed HP-A/C TXV</li> <li>C = R-454B Bleed HP-A/C TXV</li> </ul>	<b>R =</b> Included (Factory Installed) <b>N =</b> Not Included (Field Installed)



Scan the QR code to learn more





Perfect replacement for 8-12 SEER coils

Sized for legacy installations

Same features as rated coils

Embossed cabinets for universal furnace match

Supplied with pistons for both R-22 and R-410A application



## **The Premier Replacement Coil for Any System**

- Service coil for indoor coil replacement only; for new systems, please see our Premier Evaporator Coil product line
- Same features as rated coils
- Perfect replacement for 8-12 SEER coils

- Sized for legacy installations
- Supplied with pistons for both R-22 and R-410A applications
- Access port for easy TXV installation
- "No Hassle" 5-year warranty

### Nomenclature

S	24	R	145
Product Line	Nominal MBTUH	Configuration	Width/Height
<b>S =</b> Service Coil		R = Right Hand Upflow (CU) L = Left Hand Upflow (CU) H = Horizontal (AL) S = Horizontal Slab (CU) (Multi-position option not available)	Cased         Uncased         Horizontal         Slab           145 = 14.5"         130 = 13.0"         145 = 14.5"         187 = 18.75"           175 = 17.5"         140 = 14.0"         175 = 17.5"         227 = 22.75"           210 = 21.0"         155 = 15.5"         210 = 21.0"         245 = 24.5"           200 = 20.0"         200 = 20.0"         245 = 24.5"         265 = 24.5"

## **Upflow Specifications**

Model	Cased Width			Uncased Width					
Number	14.5"	17.5"	21"	24.5"	13"	14"	15.5"	17"	20"
S 24 (R,L)	х				х	х			
S 30 (R,L)	х	х			х	x	x		
S 36 (R,L)	х	х	х			х	х	х	
S 42 (R,L)		х	х				x	х	
S 48 (R,L)		х	х					х	х
S 60 (R,L)			х	x					х

## **Piston Kit Sizes**

See Spec Guide for additional nomenclature details.

МВТИН	R-22	R-410A
24	59	53
30	67	59
36	73	67
42	80	73
48	84	76
60	93	93

Model	Horizontal					
Number	14.5"	17.5"	21"	24.5"		
S 24 H	х					
S 36 H	х	х				
S 48 H		х	х			
S 60 H			х	х		

## Horizontal Specifications Horizontal Slab Specifications

Model Number	Low Pro	ofile 18.7	Standard 22.75" Slab				
	23"	27"	35"	23"	27"	35"	47"
S 24 S	х			х			
S 36 S		х			х		
S 48 S			х			х	
S 60 S			х				х




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