**ADP** Advanced Distributor Products®

PREMIER AIR HANDLERS
# PRODUCT GUIDE
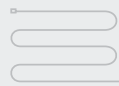
# CONTENTS

# 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.

## QUALITY

- We're proud of our products
- It's all we do
- #1 U.S. producer of residential evaporator coils
- Innovation labs and extensive testing
- Exclusive Microban® technology prevents the growth of mildew

## FLEXIBILITY

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

## SOLUTIONS

- We solve problems!
- Choice of products 10,000 SKUs
- Advanced technical capabilities
- Short lead times are typical
- Experts in our industry
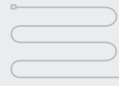
# THE ADP ADVANTAGE

Offering several options for flexibility, ADP air handlers are thoroughly tested to ensure quality and deliver reliable ratings. Our air handler line accommodates any application need.
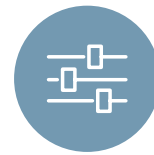
## ALL ADP AIR HANDLERS OFFER:

**Compact and efficient design**

**Options for heating requirements**

**Multiple configurations**

**Available 10-Year extended warranty with registration**



**Electric or hot water heat options**



**Easy access control panel and one-point electrical connections**



**Multiple configurations for installation flexibility**



**ECM or PSC motor options for enhanced performance**

# AIR HANDLER APPLICATION

If you own a heat pump for your home, the indoor component responsible for ceaselessly endeavoring to maintain cozy indoor temperatures is likely your air handler. Typically, air handlers are situated in the attic, basement, or a dedicated closet and may resemble the shape of a gas furnace.

When properly matched with the heat pump's capacity and SEER (Seasonal Energy Efficiency Ratio), the air handler efficiently circulates conditioned air through the home's ductwork. The circulated air can be either cool or hot, depending on the season. It's important to note that according to the Air Conditioning, Heating and Refrigeration Institute (AHRI), using mismatched systems can result in efficiency losses of at least 30% compared to matched systems. Homeowners should consider this efficiency loss when contemplating replacing only the outdoor unit of their split system.



ATTIC

DEDICATED CLOSET

GARAGE

BASEMENT
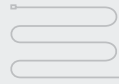
# AIR HANDLER PRODUCT OFFERING

## Low Profile
### F Series
Factory installed heat, standard or 5-speed high-efficiency ECM motors

`120 V & 240 V`

## Multi-Position & Hydronic
### B Series
Multi-position, hydronic for northern climates where heat can be supplied by electric or hot water

`120 V & 240 V`

## Modular Blower
### MX Series
Designed for space constrained installations, may also be used as a stand-alone blower

`120 V & 240 V`

## Gas Furnace Replacement Modular Blower
### Moduleflex eFurnace™
True replacement for an existing gas furnace as a no-heat unit

`120 V`

## Compact Wall Mount
### S Series
Compact wall mount to meet the needs of multi-family market for wall or closet installations

## Soffit Mount
### CP Series
Ceiling mount designed for a seamless install in multi-family applications

# AIR HANDLER PRODUCT COMPARISON

| Series | F Series | B Series | S Series | CP Series | MX Series | Moduleflex eFurnace™ |
|---|---|---|---|---|---|---|
| **DESCRIPTION** | Low Profile | Multi-Position & Hydronic | Compact Wall Mount | Soffit Mount | Modular Blower | Gas Furnace Replacement Modular Blower |
| **WARRANTY** | | | | | | |
| Extended Warranty Available | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **COIL FEATURES** | | | | | | |
| Aluminum Coil | ✔ | | ✔ | ✔ | | |
| Copper Coil | ✔ | ✔ | ✔ | ✔ | | |
| Microban® Antimicrobial Pan | ✔ | | | | | |
| UV Resistant Pan | ✔ | ✔ | ✔ | ✔ | | |
| **APPLICATION** | | | | | | |
| Vertical Upflow | ✔ | ✔ | | | ✔ | ✔ |
| Vertical Downflow | * | | | | ✔ | ✔ |
| Horizontal Right/Left | ✔ | ✔ | | ✔ | ✔ | ✔ |
| Air Return | ✔ Bottom | ✔ Bottom/Side° | ✔ Front | ✔ Bottom | ✔ Bottom/Side°° | ✔ Bottom/Side |
| **MOTOR** | | | | | | |
| Variable Speed ECM | | ✔ `120 V 240 V` | | | | |
| Five-Speed ECM | NEW FOR 2023 ✔ `120 V 240 V` | | ✔ `240 V` | ✔ `240 V` | NEW FOR 2023 ✔ `120 V 240 V` | ✔ `120 V` |
| PSC | ✔ `120 V 240 V` | ✔ `120 V 240 V` | ✔ `240 V` | ✔ `240 V` | ✔ `120 V` | |
| **HEAT OPTIONS** | | | | | | |
| Electric | ✔ * | * | ✔ | ✔ * | * | |
| Hot Water | | ✔ * | | | ✔ | |
| No Heat | ✔ | ✔ | | ✔ | ✔ | ✔ |

✔ Available factory installed    *Available field installed kit    °Side return available in 12-36 MBTUH only    °°Side return on HW models only

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

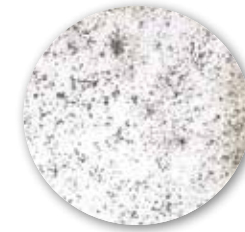SCAN THIS CODE TO REGISTER FOR OUR 10-YEAR WARRANTY.

## Improved Air Quality

Microbes can double every 20 minutes on an untreated surface!


Standard plastic pan with visible mold


MICROBAN
Plastic pan with Microban® antimicrobial additive

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.

## Compact Design

F Series air handlers are lightweight and up to 12" shorter than the comparable OEM models.



Air Handler Heights

| | |
|---|---|
| 45.0" | |
| 40.0" | 3 Ton ──── 41.0" |
| 35.0" | 2 Ton ──── 36.0" |
| 30.0" | |
| 25.0" | |
| 20.0" | |

4 & 5 Ton ──── 48.0"

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- Compact, lightweight design, up to 12" shorter than the comparable OEM models

- Multi-position configurations including upflow, downflow, and horizontal left or right

- Available with PSC or 5-speed high-efficiency ECM motor

- Electric or no heat, with optional 5-20 kW heat kit factory or field installed

- Available in 208/240 V and 120 V

**new product FOR 2023**

## 120 V 5-Speed ECM Air Handler

The 120 V option is designed to target mild climate applications where electric heat isn't a requirement. The supply voltage is a key feature to help installers save time and money in applications where a traditional AC system is being replaced with a heat pump

## Nomenclature

| F | C | M | E31 | 9 | 24 | S | 05 | 2 |
|---|---|---|---|---|---|---|---|---|
| Series | Blower Motor | Airflow Config. | Slab No. | Metering Device | Unit Size | Line Voltage Connection | Electric Heat | Voltage |
| F | **C:** 3-speed PSC motor <br><br> **E:** 5-speed high eff. ECM motor | **M:** Multi-pos. (vertical, left or right horizontal) | E31 <br> E32 <br> E33 <br> etc. | **1:** Piston (R-410A) <br><br> **9:** Non-bleed HP-A/C TXV (R-410A) | 18 <br> 24 <br> 25 <br> 30 <br> 31 <br> 36 <br> 37 <br> 42 <br> 48 <br> 60 | **S:** Stripped wire <br><br> **B:** Circuit breaker | **00:** none (sizes 18-60) <br> **05:** 5 kW (sizes 18-48) <br> **07:** 7.5 kW (sizes 18-60) <br> **10:** 10 kW (sizes 18-60) <br> **15:** 15 kW (sizes 30-60) <br> **20:** 20 kW (sizes 48-60) | **1:** 208/240 V, 60 Hz, 1ph. (ECM only) <br> **2:** 208/240 V, 60 Hz, 1ph. (PSC only) <br> **3:** 120 V, 60 Hz, 1ph. (ECM only) <br> **4:** 120 V, 60 Hz, 1ph. (PSC only) |

See Spec Guide for additional nomenclature details.
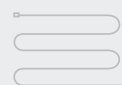
**Scan the QR code to learn more**

## Multi-Function Controls

Easy to read plug and play multi-function control board, standard on all models.

### Control Board Features:

• Controls both factory and field installed circulating pumps

• 24 VAC isolation valve control

• Auxiliary contacts for water heater or boiler activation

• Freeze protection activates at 40 °F

• Thermostat connections

• 60 second time delay for blower activation

• 130 °F aquastat time delay for blower activation (optional)

• Pump timer to meet local or national codes for water circulation

## Variable Speed Option

Optional variable speed high-efficiency ECM motor for enhanced product performance.

### Variable Speed Features & Benefits:

• Maintains selected CFM over wide range of static conditions

• Standard fan time delay feature

• Constant air circulation setting for improved IAQ

• LED display for visual indication of air volume

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Multi-position, hydronic for northern climates where heat can be supplied by electric or hot water

Plug and play multi-function control board

Side return option available on 12-36 BTU/H models

Optional variable speed high-efficiency ECM motor for enhanced product performance

Optional easy-to-replace hot water kits, available factory or field installed

Field configurable for upflow and horizontal left and right

Field installed electric heat kits available for 208/240 V models

## Nomenclature

| B | C | R | M | A3 | 9 | 24 | S | 3P | 3 |
|---|---|---|---|---|---|---|---|---|---|
| Series | Blower Motor | Horizontal Drain Pan Position | Airflow Config. | Slab No. | Metering Device | Unit Size | Line Voltage Connection | Heat Kit Option | Voltage |
| B | **C:** 3-speed PSC motor<br><br>**V:** Variable speed high eff. ECM motor | **R:** Right-hand<br><br>**O:** No cooling coil | **M:** Multi-pos. | A1<br>A2<br>A3<br>etc. | **0:** No cooling coil<br><br>**1:** Piston (R-410A)<br><br>**9:** Non-bleed HP-A/C TXV (R-410A) | **Slant Coil:** 12, 18, 24, 25, 30, 36 (side return capable)<br><br>**A-Coil:** 31, 37, 42, 48, 60 | **S:** Stripped wire | **Heat Options**<br>**00:** No heat<br><br>**Hot Water Coil w/ Pump & Valve Assembly**<br>**2P:** 2 row hot water coil (sizes 12-30, 36)<br>**3P:** 3 row hot water coil (all sizes)<br>**4P:** 4 row hot water coil (sizes 31, 37-60)<br><br>**Hot Water Coil w/o Pump & Valve Assembly**<br>**2N:** 2 row hot water coil (sizes 12-30, 36)<br>**3N:** 3 row hot water coil (all sizes)<br>**4N:** 4 row hot water coil (sizes 31, 37-60) | **1:** 208/240V, 60Hz, 1ph.<br><br>**3:** 120V, 60Hz, 1ph.<br><br>**4:** 120V, 60Hz, 1ph. & 130°F aquastat |

NOTE: Hot Water Heat models only available in 120V. See Spec Guide for additional nomenclature details.

## Electric Heat Unit

Modular Blowers can be used as a stand-alone electric furnace or combined with an ADP coil.

### Electric Heat Unit Features:

• High-efficiency 5-speed ECM motor
• 5kW - 20kW field installed Electric Heat Kits
• Slide-out panel with one-point electrical connections
• Add an ADP coil to make complete air handler unit

## Hot Water Heat Unit

Easy to read plug and play multi-function control boards provide fast access to key features.

### Control Board Features:

• Controls both factory and field installed circulating pumps
• 24 VAC isolation valve control
• Auxiliary contacts for water heater or boiler activation
• Freeze protection activates at 40 °F
• Thermostat connections
• 60 second time delay for blower activation
• 130 °F aquastat time delay for blower activation (optional)
• Pump timer to meet local or national codes for water circulation

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Modular blower offering flexible options and ideal for a variety of applications

208/240 V 5-speed high-efficiency ECM motor with field-installed electric heat kits

120 V PSC or 5-speed high-efficiency ECM motor with hot water heat factory installed

Combine with an existing ADP coil in inventory to reduce SKUs

Upflow, downflow, and horizontal left or right configurations

## Nomenclature

| MX | E | 08 | 00 | N | 2 | E |
|---|---|---|---|---|---|---|
| Series | Blower Motor | Size/ Airflow | Hot Water Coil | Line Voltage Connection | Voltage | Heat Size |
| MX | C: 3-speed PSC motor<br>E: 5-speed ECM motor | 08: 800 CFM<br>12: 1,200 CFM<br>16: 1,600 CFM<br>20: 2,000 CFM | 00: No hot water coil<br>WP: Hot water coil with pump<br>WN: Hot water coil without pump<br>AP: Hot water coil with 130°F aquastat & pump<br>AN: Hot water coil with 130°F aquastat without pump | N: Stripped wire | 2: 208/240V, 60Hz, 1ph. with time delay<br>4: 120V, 60Hz, 1ph. with time delay | B: 3 row hot water coil (available on 08 & 20 models)<br>C: 4 row hot water coil (available on 08, 12 & 16 models)<br>E: No heat (electric heat kits sold separately) |

**NOTES: 1.** Hot water heat models only available with 120V 3-speed PSC motor. **2.** Electric heat & no heat models only available with 208/240V 5-speed ECM motor. See Spec Guide for additional nomenclature details.

| Air Handler Size | 08 | 12 | 16 | 20 |
|---|---|---|---|---|
| Height (in) | 27 | 27 | 28 | 28 |
| Depth (in) | 20 ⅞ | 20 ⅞ | 20 ⅞ | 20 ⅞ |
| Width (in) | 17 ⅞ | 17 ⅞ | 21 | 24 ⅞ |

**Scan the QR code to learn more**



### eFURNACE

## Moduleflex eFurnace is a true replacement for an existing gas furnace.

With either side or bottom return capability, this modular blower should be a drop-in replacement with no modification needed to the current system. It has a high-efficiency 5-speed ECM motor with no electric heat which allows for installation with an existing electrical circuit in climate applications where electric heat isn't a requirement.

### Features:

- Fits within the existing unit's footprint
- No modification needed to the current system
- High-efficiency 5-speed ECM motor
- No electric heat allows installation with existing electrical circuit

True replacement for an existing gas furnace with a heat pump

Upflow, downflow, and horizontal left or right airflow

No electric heat, only for mild climates

30" tall - shorter than most gas furnaces with industry standard A, B, C, and D cabinet widths

Side return capable on both sides

120 V, 5-speed ECM motor

Combine with an existing ADP coil in inventory to reduce SKUs

## Nomenclature

| AEF | E | 3 | A | 00 | S | 1 | H | H | 1 |
|---|---|---|---|---|---|---|---|---|---|
| Series | Blower Motor | Size/ Airflow | Cabinet Width | Electric Heat | Line Voltage Connection | Voltage | Cabinet Color | Front Panel Color | Revision |
| AEF | E: 5-speed ECM motor | 3: 3 Ton / 600-1,200 CFM<br><br>4: 4 Ton / 1,000-1,600 CFM<br><br>5: 5 Ton / 1,400-2,000 CFM | A: 14.25"<br>B: 17.5"<br>C: 21.0"<br>D: 24.5" | 00: No heat | S: Stripped wires | 1: 120 V, 60 Hz. 1ph. with time delay | H: Galvanized | H: Galvanized<br>A: Armstrong<br>G: ICP<br>J: Goodman/Amana<br>N: Nordyne<br>P: Carrier/Bryant/Payne<br>R: Rheem/Ruud<br>T: Trane/American Std.<br>Y: York/Luxaire/Coleman | |

See Spec Guide for additional nomenclature details.

## Perfect Fit

ADP provides options for a variety of applications to meet industry needs.



• Fits industry standard footprint
• Shallow depth for easy installation
• Standard connection locations
• PSC and ECM motor options

## Cased Options

The soffit mount knock-down case provides for ease of installation and simple servicing.



• Optional factory installed case for new construction
• Knock-down case accessory saves storage space
• Both cased options return air capable

Designed for a seamless and easy install in multi-family applications

1.5, 2, and 2.5-ton options to meet replacement market needs

PSC and ECM motor options

208/240 V with factory-installed heat available in 3, 5, 6, 8, and 10 kW

Match-ups with all OEM brands

Fits industry standard footprint

Optional factory-installed case for new construction

## Nomenclature

| C | P | 18 | 01C | H | H | P | 03 | 1 | C |
|---|---|---|---|---|---|---|---|---|---|
| Series | Blower Motor | Unit Size (MBTUH) | Slab Number | Metering Device | Airflow Config. | Line Connection | Electric Heat | Voltage | Option |
| C: Ceiling mount | P: PSC Motor<br><br>E: ECM Constant Torque | 18<br>19<br>23<br>24<br>25<br>29<br>30 | CU Slab: 01C, 03C, 05C<br><br>AL Slab: 01A, 03A 05A | A: Piston (R-410A) w/Access Port<br><br>H: Non-bleed HP - A/C TXV (R-410A) | H: Horiz. only | S: Stripped wire (no heat models only)<br><br>P: Pull disconnect | 00: No heat<br>03: 3 kW (18-24)<br>05: 5 kW (all sizes)<br>06: 6 kW (all sizes)<br>08: 8 kW (all sizes)<br>10: 10 kW (24-30) | 1: 208/240V, 60 Hz, 1ph. | Blank: Unc.<br><br>C: Factory installed case |

See Spec Guide for additional nomenclature details.

| Uncased Size | 18, 23 | 19, 24, 29 | 25, 30 |
|---|---|---|---|
| Height (in) | 10.5 | 10.5 | 10.5 |
| Depth (in) | 19.5 | 20.5 | 20.5 |
| Width (in) | 37 | 43 | 49 |

| Cased Size | 18, 23 | 19, 24, 29 | 25, 30 |
|---|---|---|---|
| Height (in) | 11 | 11 | 11 |
| Depth (in) | 24 | 24 | 24 |
| Width (in) | 39.7 | 45.7 | 51.7 |

**Scan the QR code to learn more**

Compact wall mount to meet the needs of multi-family market for wall or closet installations

Compact, lightweight design, at 30" tall and weighing 80 lbs. or less

Available in copper or aluminum

PSC or optional 5-speed high-efficiency motor: 240/208 V, 60 Hz

Factory installed electric heat available

Top refrigerant connections for easy brazing

## Low Height

ADP provides options for a variety of applications to meet industry needs.

30"

ADP Standard Wall Mount Height

- 30" tall for heat pump match-ups
  (35" option also available)

## Light Weight

The compact wall mount air handler allows for ease of installation and simple servicing.

- Aluminum and copper wall mount air handler
- Weighing 80 lbs. or less
- Can be a "one-man-job"

## Nomenclature

| S | M2 | 2 | 24 | 05 |
|---|---|---|---|---|
| Series | Slab Number | Metering Device | Unit Size | Electric Heat |
| **S:** Compact Wall Mount | **Aluminum:** M2, M3, M5, M6, M7  **Copper:** K1, K2, K3, K6, K7, L1, L5, L6, L9 | **1:** Piston (R-410A)  **9:** Non-bleed HP-A/C TXV (R-410A) | **PSC Motor:** 18, 24, 30, 36  **ECM High-Efficiency Motor:** 19, 25, 31, 37, 39 | **05:** 5 kW (all sizes)  **07:** 7.5 kW (all sizes)  **10:** 10 kW (all sizes) |

See Spec Guide for additional nomenclature details.

| Air Handler Size | 18, 19 | 24, 25 | 30, 31 | 36, 37 | 39 |
|---|---|---|---|---|---|
| Height (in) | 30 | 30 | 30 | 30 | 35.5 |
| Depth (in) | 18 ¾ | 18 ¾ | 18 ¾ | 18 ¾ | 18 ¾ |
| Width (in) | 22 | 22 | 22 | 22 | 22 |

**ADP** Advanced Distributor Products®

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