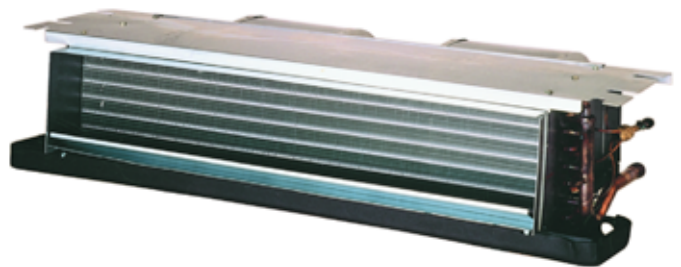
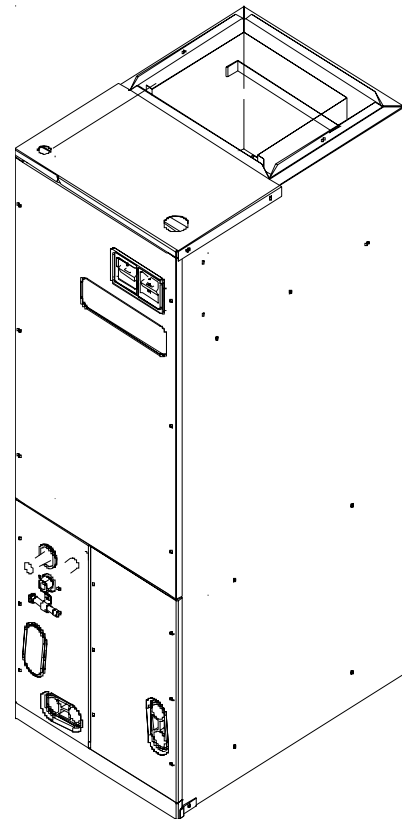


# TECHNICAL INFORMATION MANUAL

## ACNF, AWUF, ADPF, ARPF, ARUF, AEPF, ASPF, ATUF Air Handlers

Models listed  
on page 3

- Refer to Service Manual RS6100004 & RS6200006 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.

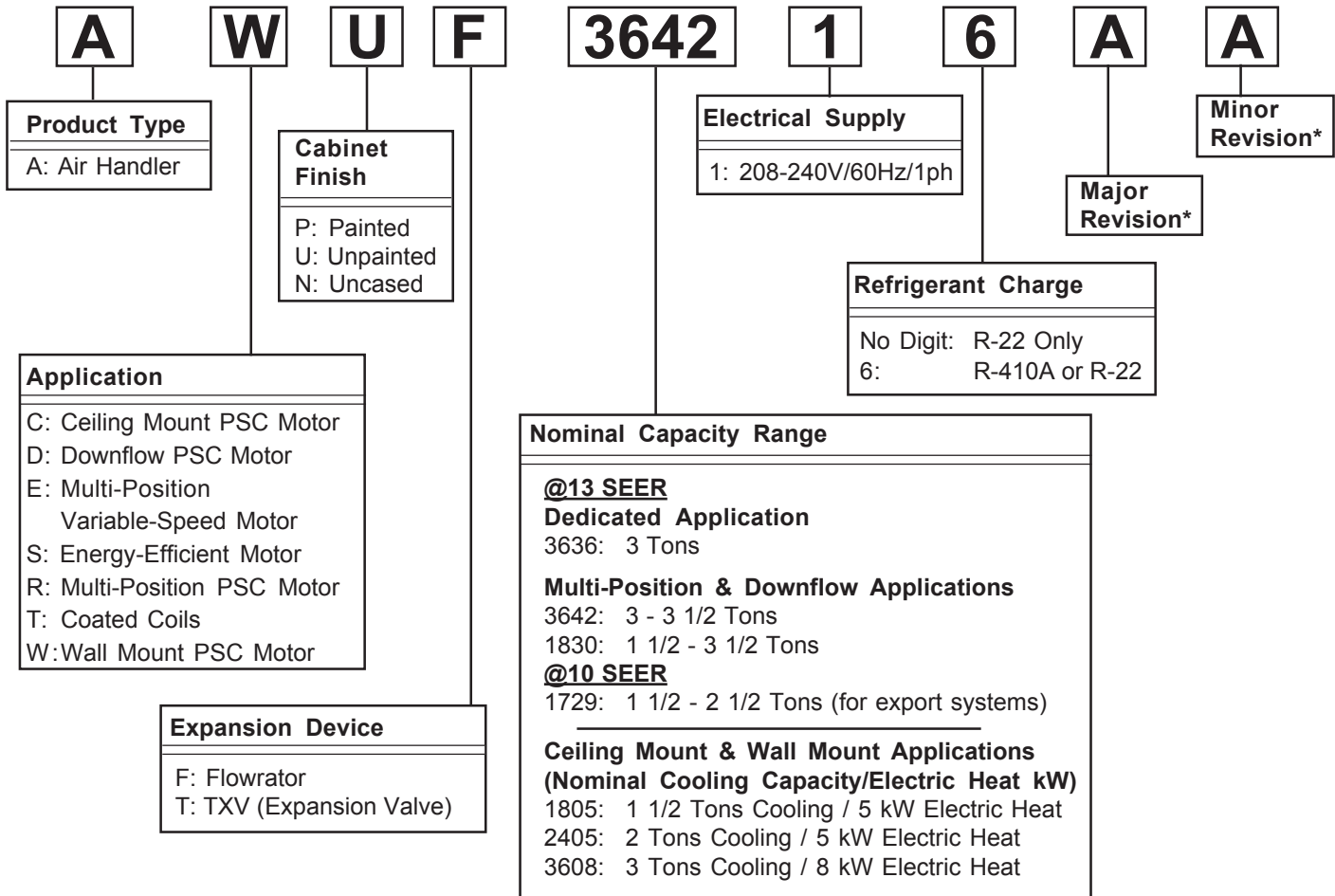


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6121000 Rev. 3  
November 2007

# PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.



All Airhandlers use **DIRECT DRIVE MOTORS**. Power supply is AC 208-230v, 60 hz, 1 phase.



**WARNING**

**HIGH VOLTAGE!**

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



**WARNING**

Installation and repair of this unit should be performed **ONLY** by individuals meeting the requirements of an "entry level technician" as specified by the Air Conditioning and Refrigeration Institute (ARI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.



**WARNING**

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

# PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

|             |              |              |
|-------------|--------------|--------------|
| ACNF18001** | ADPF18241**  | ARUF303016** |
| ACNF18051** | ADPF30421**  | ARUF363616** |
| ACNF18061** | ADPF48601**  | ARUF364216** |
| ACNF18081** | ADPF182416** | ARUF374316** |
| ACNF24001** | ADPF304216** | ARUF486016** |
| ACNF24051** | ADPF486016** |              |
| ACNF24061** |              | AEPF18301**  |
| ACNF24081** | ARPF18241**  | AEPF30361**  |
| ACNF24101** | ARPF30301**  | AEPF42601**  |
| ACNF30001** | ARPF37431**  |              |
| ACNF30051** | ARPF48601**  | ASPF183016*  |
| ACNF30061** | ARPF182416** | ASPF303616*  |
| ACNF30081** | ARPF193116** | ASPF426016*  |
| ACNF30101** | ARPF303016** |              |
|             | ARPF363616** | ATUF182416** |
| AWUF18051** | ARPF364216** | ATUF193116** |
| AWUF18081** | ARPF374316** | ATUF303016** |
| AWUF24051** | ARPF486016** | ATUF363616** |
| AWUF24081** |              | ATUF364216** |
| AWUF24101** | ARUF18241**  | ATUF374316** |
| AWUF30051** | ARUF30301**  | ATUF486016** |
| AWUF30081** | ARUF36421**  |              |
| AWUF30101** | ARUF37431**  |              |
| AWUF36051** | ARUF48601**  |              |
| AWUF36081** | ARUF172916** |              |
| AWUF36101** | ARUF182416** |              |
|             | ARUF193116** |              |



The United States Environmental Protection Agency (“EPA”) has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.



Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.

# PRODUCT DESIGN



## WARNING

When installing or servicing this equipment, safety clothing, including hand and eye protection, is strongly advised. If installing this equipment in an area that has special safety requirements (hard hats etc.), observe these requirements. To protect the unit when brazing close to the painted surfaces, the use of a quenching cloth is strongly advised to prevent scorching or marring of the equipment finish.



## WARNING

### HIGH VOLTAGE

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



## WARNING

The unit **MUST** have an uninterrupted, unbroken electrical ground to minimize the possibility of personal injury if an electrical fault should occur. The electrical ground circuit may consist of an appropriately sized electrical wire connecting the ground lug in the unit control box to the building electrical service panel. Other methods of grounding are permitted if performed in accordance with the “National Electric Code” (NEC)/“American National Standards Institute” (ANSI)/“National Fire Protection Association” (NFPA) 70 and local/state codes. In Canada, electrical grounding is to be in accordance with the Canadian Electric Code CSA C22.1. Failure to observe this warning can result in electrical shock that can cause personal injury or death.



## WARNING

If this appliance is installed in an enclosed area such as a garage or utility room with any carbon monoxide (CO) producing appliance (i.e. automobile, furnace, water-heaters, etc.), ensure the area is properly ventilated.

## AIR HANDLERS

\*See Air Handler Specification Sheet for Proper Combinations.

ALL AIR HANDLERS USE DIRECT DRIVE MOTORS. POWER SUPPLY IS 220-240 V, 60 HZ, 1 PHASE

### Installation

Before installing this appliance insure that it is properly sized and adequate power is available.

This appliance can be installed in the vertical or right horizontal position without modification. The horizontal left and downflow positions require product modification.

This product is designed for zero inches (0 inches) clearance; however, adequate access for service or replacement must be considered without removing permanent structure. This unit can be installed on a platform when deemed necessary.

In an attic installation a secondary drain pan must be provided by the installer and placed under the entire unit with a separate drain line properly sloped and terminated in an area visible to the owner. This secondary drain pan is required in the event that there is a leak or main drain blockage. Closed cell insulation should be applied to the drain lines in unconditioned spaces where sweating may occur.

Appliances installed in garages, warehouses or other areas where they may be subjected to mechanical damage must be suitably guarded against such damage by installing behind protective barriers, being elevated or located out of the normal path of vehicles. When installed on a base, the base must also be protected by similar means.

Heating and cooling equipment located in garages, which may generate a glow, spark or flame capable of igniting flammable vapors, must be installed with the ignition source at least 18"[46cm] above the floor level.

When more than one appliance is installed in a building it shall be permanently identified as to the area or space serviced by the equipment.

When this product is installed in the downflow installation in an unconditioned space, remove the horizontal drain pan and install the following insulation kit

| ARUF/ARPF | AEPF/ASPF | INSULATION KIT |
|-----------|-----------|----------------|
| 018-032   | N/A       | DPI18-30/20    |
| 036-042   | 30        | DPI36-42/20    |
| 048-061   | 036, 060  | DPI48-61/20    |

This kit is used to prevent sweating on the vertical drain pan.

# PRODUCT DESIGN

To prevent the horizontal drain pan from sweating in high humidity applications, it is recommended that a DPIH insulation accessory kit be used. NOTE: The DPIH insulation kit is not supplied with this product and must be purchased separately.

See Chart below for the correct DPIH kit.

| ARUF/ARPF            | AEPF/ASPF    | INSULATION KIT |
|----------------------|--------------|----------------|
| 1729<br>1824         | N/A          | DPIH18-32      |
| 3030<br>1931<br>3636 | 1830         | DPIH36-42      |
| 3642<br>3743<br>4860 | 3036<br>4260 | DPIH48-61      |

**ACNF** AC electric heat air handlers are designed for ceiling mounting and have a direct drive, multi-speed motor. They are available in 1-1/2, 2 and 2 1/2 ton sizes.

**AWUF** is a vertical stud or wall-mount electric heat air handler and features a direct drive, multi-speed motor. The AWUF has a check flowrater for cooling only and heat pump operation, with sequence controlled heating elements of 5, 8, and 10 kW. The AWUF is available in 1 1/2 to 3 ton sizes.

**ADPF** is a dedicated downflow, multi-speed air handler and is available in 1 1/2 to 5 ton sizes. Electric heat kits are available as a field-installed option.

\***ARPF** air handlers are multi-position, multi-speed with di-

rect drive motors. They are available in 1 1/2 to 5 ton sizes with optional 3 kW to 21kW electric heat kits available for field installation. (See note below.)

**ARUF** is a multi-position air handler and can be used with R-410A or R-22 (models ending in 1/16) and features a direct drive, multi-speed motor. The ARUF has a check flowrater for cooling-only and heat pump operation. The ARUF is available in 1 1/2 to 5 ton sizes.

\***AEPF** is a multi-position, variable-speed air handler and can be used with R-410A or R-22 (models ending in 1/16). The unit's blower design includes a variable-speed DC motor and is compatible with heat pumps and variable-capacity cooling applications. (See note below.)

\***ASPF** is a multi-position air handler that can be used with R-410A or R-22 and it features a X-13 motor. This motor is a constant torque motor with very low power consumption and it is energized by a 24V signal. The X-13 features an integrated control module and is compatible with heat pumps and cooling applications. (See note below.)

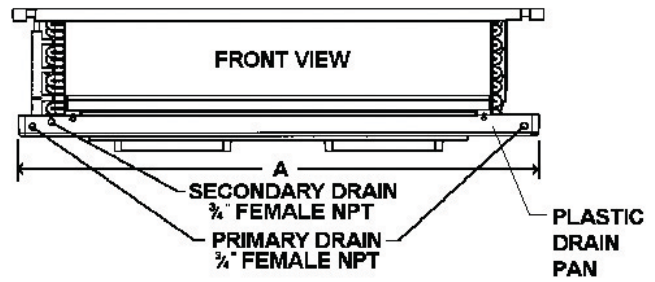
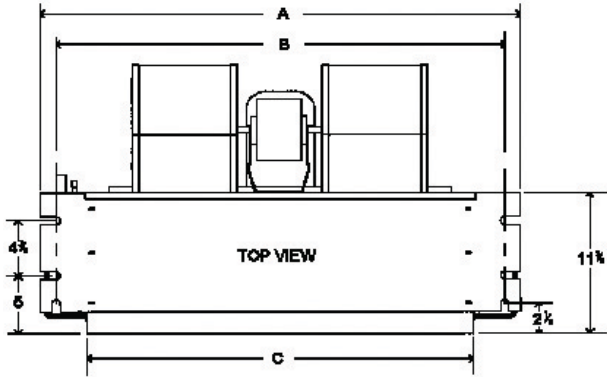
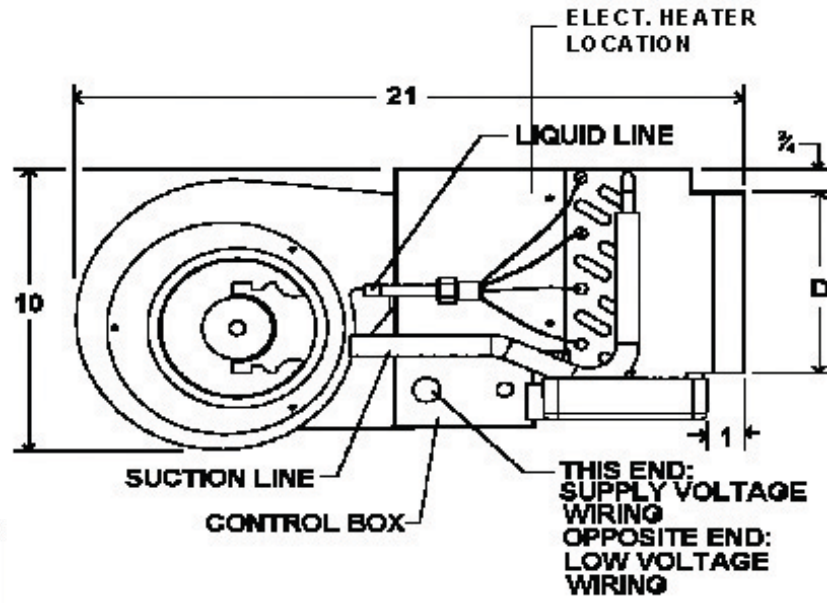
**\*NOTE:** Factory-sealed to achieve a 2% or less leakage rate at 1.0" water gauge external duct static pressure.

Complies with the Factory-sealed Air Handling Credit as listed in the 2001 Florida Building Code, Chapter 13, Section 610.2.A.2.1.

# PRODUCT DIMENSIONS

# ACNF

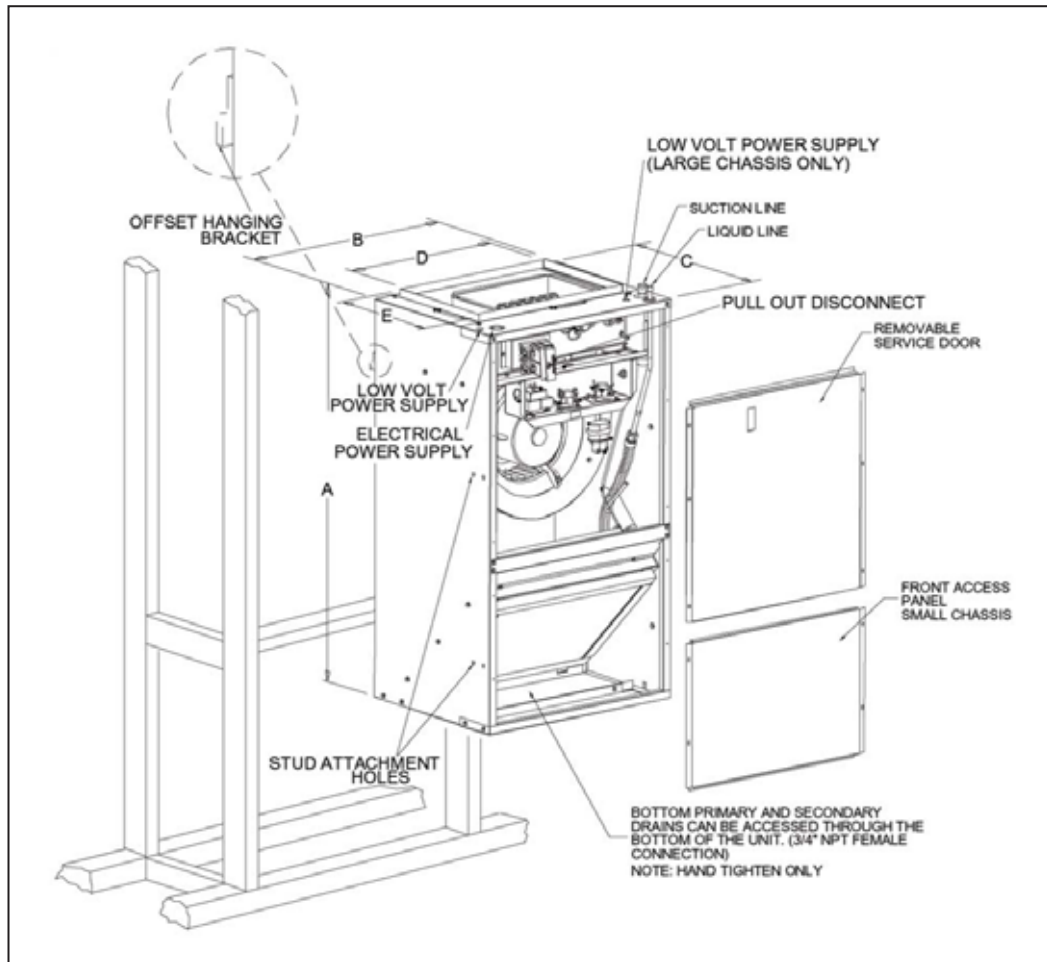
| Model  | A                  | B                    | C   | D                 |
|--------|--------------------|----------------------|-----|-------------------|
| ACNF18 | 37 $\frac{1}{4}$ " | 34 $\frac{11}{16}$ " | 30" | 6 $\frac{1}{2}$ " |
| ACNF24 | 43 $\frac{1}{4}$ " | 40 $\frac{11}{16}$ " | 36" | 6 $\frac{1}{2}$ " |
| ACNF30 | 49 $\frac{1}{4}$ " | 46 $\frac{11}{16}$ " | 42" | 6 $\frac{1}{2}$ " |
| AC18   | 37 $\frac{1}{4}$ " | 34 $\frac{11}{16}$ " | 30" | 6 $\frac{1}{2}$ " |
| AC30   | 43 $\frac{1}{4}$ " | 40 $\frac{11}{16}$ " | 36" | 6 $\frac{1}{2}$ " |
| AC36   | 49 $\frac{1}{4}$ " | 46 $\frac{11}{16}$ " | 42" | 6 $\frac{1}{2}$ " |





# PRODUCT DIMENSIONS

# AWUF

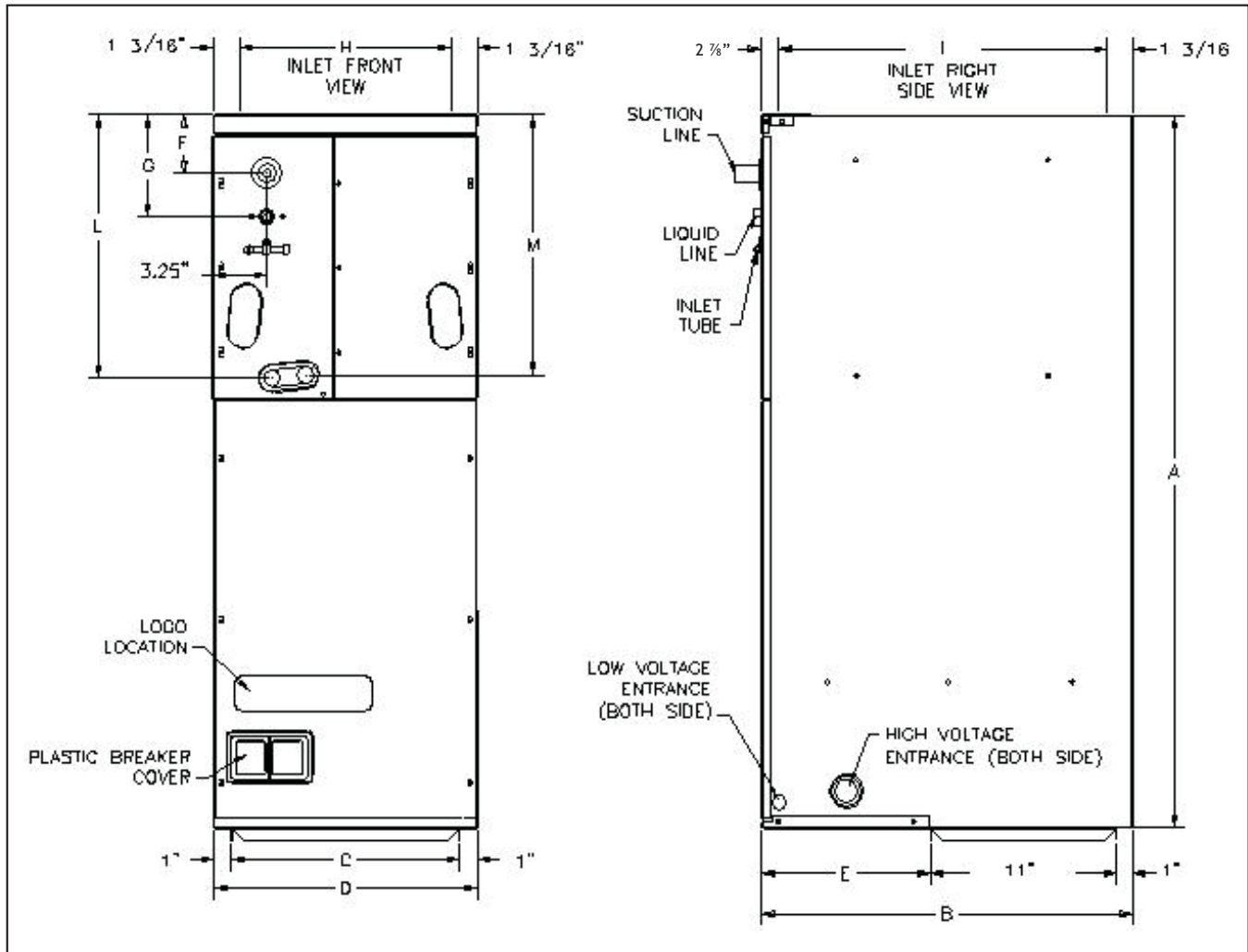


| Small Chassis<br>AWUF 18 & 24 |                |
|-------------------------------|----------------|
| A                             | 36"            |
| B                             | 20 3/8"        |
| C                             | 16 1/8"        |
| D                             | 16"            |
| E                             | 11"            |
| FILTER                        | 14" X 18" X 1" |

| Large Chassis<br>AWUF 30 & 36 |                |
|-------------------------------|----------------|
| A                             | 36"            |
| B                             | 24"            |
| C                             | 21"            |
| D                             | 19 7/8"        |
| E                             | 15 7/8"        |
| FILTER                        | 16" X 20" X 1" |

# PRODUCT DIMENSIONS

# ADPF

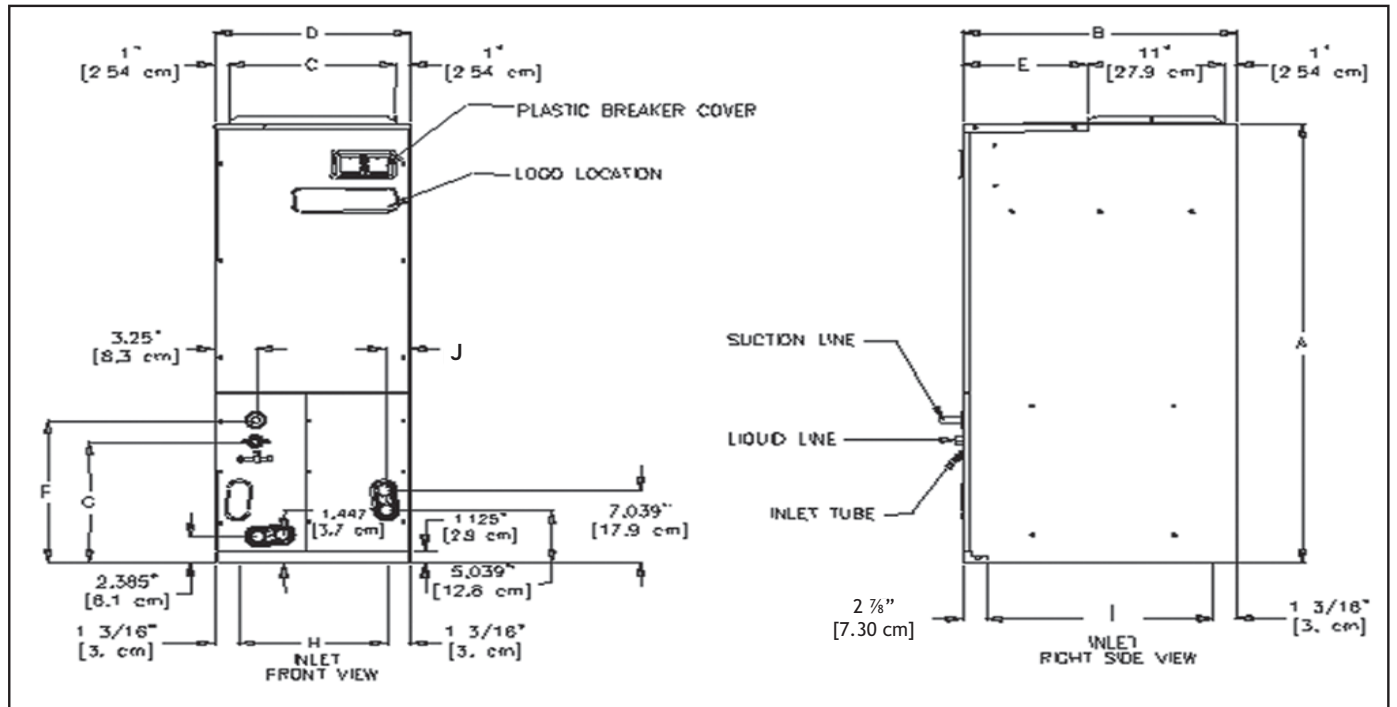


| Model        | A                  | B   | C                  | D                  | E   | F                 | G                    | H                  | I                    | L                   | M                   |
|--------------|--------------------|-----|--------------------|--------------------|-----|-------------------|----------------------|--------------------|----------------------|---------------------|---------------------|
| ADPF18241/16 | 42 $\frac{1}{8}$ " | 22" | 13 $\frac{1}{2}$ " | 15 $\frac{1}{2}$ " | 10" | 3 $\frac{1}{2}$ " | 6 $\frac{1}{16}$ "   | 13 $\frac{3}{8}$ " | 17 $\frac{15}{16}$ " | 15 $\frac{1}{2}$ "  | 15 $\frac{5}{16}$ " |
| ADPF30421/16 | 53 $\frac{1}{4}$ " | 24" | 20"                | 22"                | 12" | 9 $\frac{1}{4}$ " | 11 $\frac{13}{16}$ " | 19 $\frac{5}{8}$ " | 19 $\frac{15}{16}$ " | 21 $\frac{7}{16}$ " | 21 $\frac{1}{4}$ "  |
| ADPF48601/16 | 53 $\frac{1}{4}$ " | 24" | 20"                | 22"                | 12" | 9 $\frac{1}{4}$ " | 11 $\frac{13}{16}$ " | 19 $\frac{5}{8}$ " | 19 $\frac{15}{16}$ " | 21 $\frac{7}{16}$ " | 21 $\frac{1}{4}$ "  |



# PRODUCT DIMENSIONS

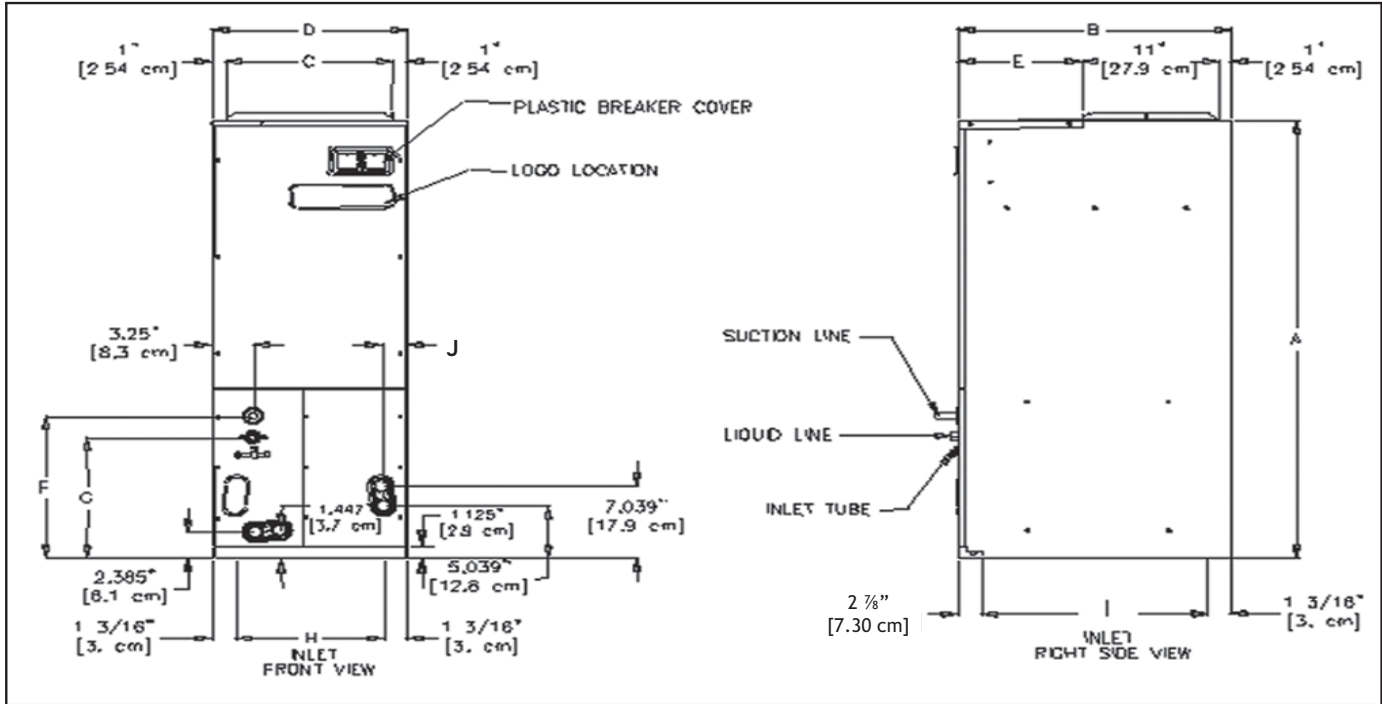
ARPF



| Model      | A       | B   | C       | D       | E   | F       | G         | H       | I         | J        |
|------------|---------|-----|---------|---------|-----|---------|-----------|---------|-----------|----------|
| ARPF18241* | 42 1/8" | 22" | 13 1/2" | 15 1/2" | 10" | 14 1/2" | 11 15/16" | 13 1/8" | 17 15/16" | 2"       |
| ARPF19311* | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARPF30301* | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARPF36361* | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARPF36421* | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| ARPF37431* | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| ARPF48601* | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |

# PRODUCT DIMENSIONS

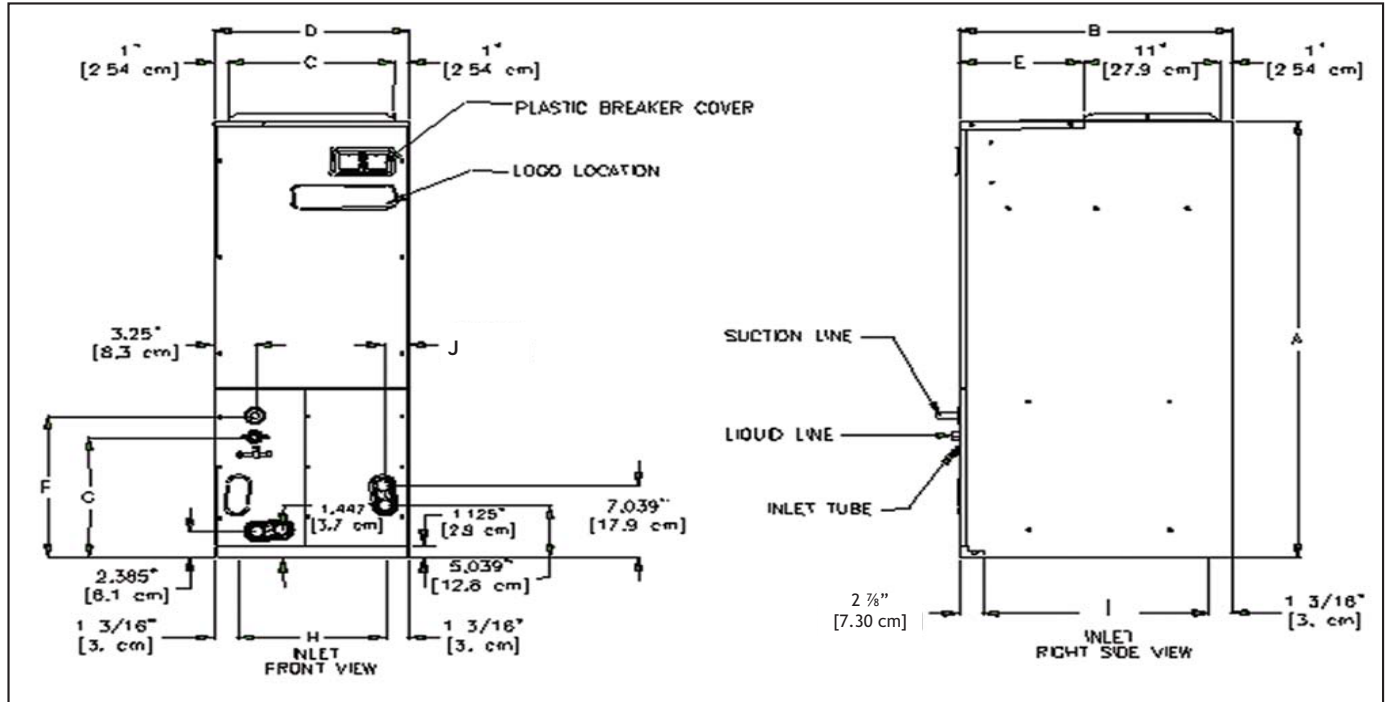
# ARUF



| Model      | A       | B   | C       | D       | E   | F       | G         | H       | I         | J        |
|------------|---------|-----|---------|---------|-----|---------|-----------|---------|-----------|----------|
| ARUF172916 | 42 1/8" | 22" | 13 1/2" | 15 1/2" | 10" | 14 1/2" | 11 15/16" | 13 1/8" | 17 15/16" | 2"       |
| ARUF182416 | 42 1/8" | 22" | 13 1/2" | 15 1/2" | 10" | 14 1/2" | 11 15/16" | 13 1/8" | 17 15/16" | 2"       |
| ARUF193116 | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARUF303016 | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARUF363616 | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ARUF364216 | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| ARUF374316 | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| ARUF486016 | 53 1/4" | 24" | 20"     | 22"     | 12" | 14 1/2" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |

# PRODUCT DIMENSIONS

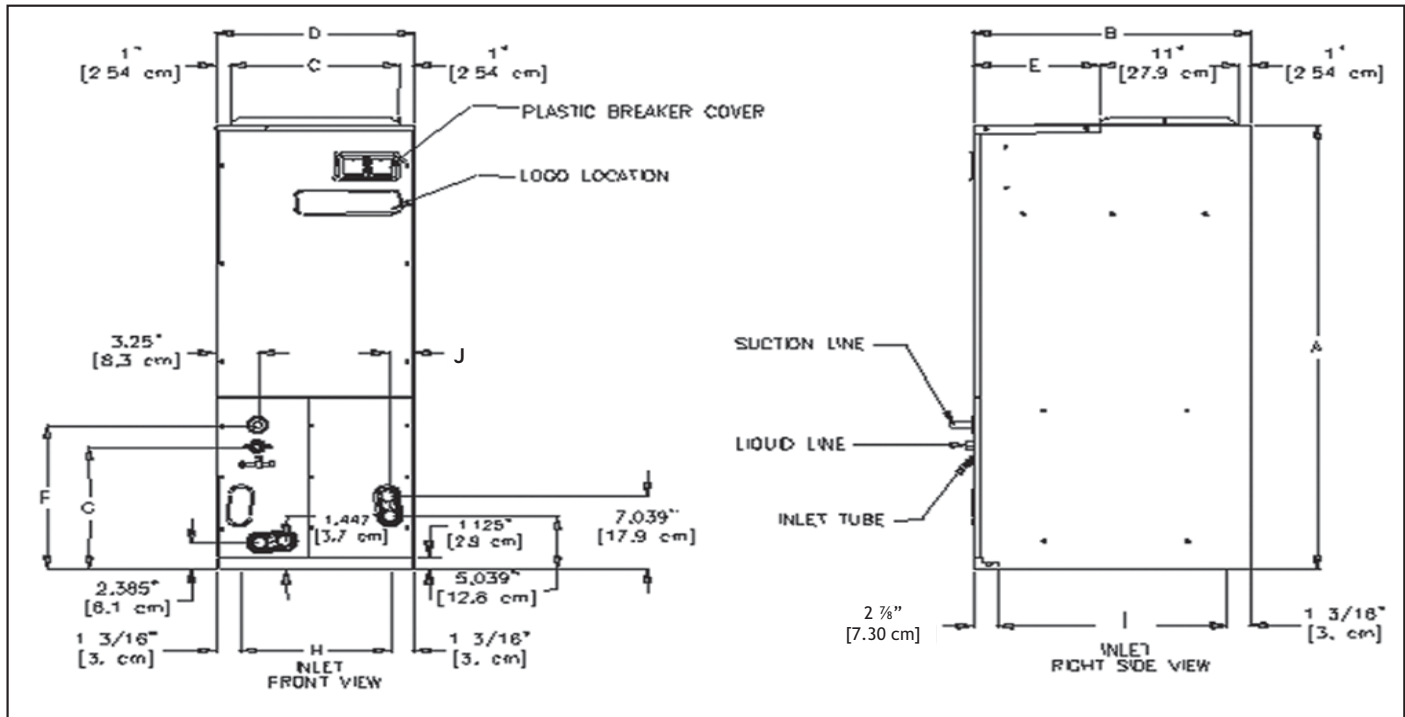
AEPF



| Model        | A       | B   | C       | D       | E   | F       | G         | H       | I         | J        |
|--------------|---------|-----|---------|---------|-----|---------|-----------|---------|-----------|----------|
| AEPF18301/16 | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10" | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| AEPF30361/16 | 53 1/4" | 24" | 20"     | 22"     | 12" | 19 5/8" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| AEPF42601/16 | 53 1/4" | 24" | 20"     | 22"     | 12" | 19 5/8" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |

# PRODUCT DIMENSIONS

# ASPF



| Model       | A       | B   | C       | D       | E   | F       | G         | H       | I         | J        |
|-------------|---------|-----|---------|---------|-----|---------|-----------|---------|-----------|----------|
| ASPF183016* | 46 3/4" | 22" | 17 1/2" | 19 1/2" | 10' | 14 1/2" | 11 15/16" | 17 1/8" | 17 15/16" | 2"       |
| ASPF303616* | 53 1/4" | 24" | 20"     | 22"     | 12" | 19 5/8" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |
| ASPF426016* | 53 1/4" | 24" | 20"     | 22"     | 12" | 19 5/8" | 11 15/16" | 19 5/8" | 19 15/16" | 1 13/16" |

# PRODUCT SPECIFICATIONS

# ACNF

|                                | ACNF18001 | ACNF18051 | ACNF18061 | ACNF18081 | ACNF24001 | ACNF24051 | ACNF24061 | ACNF24081 | ANF24101 | ACNF30001 | ACNF30051 | ACNF30061 | ACNF30081 | ACNF30101 |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| <b>Blower</b>                  |           |           |           |           |           |           |           |           |          |           |           |           |           |           |
| Diameter                       | 5.75      | 5.75      | 5.75      | 5.75      | 6.31      | 6.31      | 6.31      | 6.31      | 6.31     | 6.75      | 6.75      | 6.75      | 6.75      | 6.75      |
| Width                          | 6.75      | 6.75      | 6.75      | 6.75      | 8.25      | 8.25      | 8.25      | 8.25      | 8.25     | 8.25      | 8.25      | 8.25      | 8.25      | 8.25      |
| Coil Drain Connection FPT      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"     | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      |
| <b>Lineset Connection Size</b> |           |           |           |           |           |           |           |           |          |           |           |           |           |           |
| Liquid                         | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"     | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      |
| Suction                        | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"     | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      |
| <b>Electrical Data</b>         |           |           |           |           |           |           |           |           |          |           |           |           |           |           |
| Min. Circuit Ampacity @ 240V   | 0.9       | 27        | 33.5      | 40.5      | 1.68      | 27.8      | 34.3      | 41.3      | 54.9     | 1.68      | 27.8      | 34.3      | 41.3      | 54.9      |
| Min. Circuit Ampacity @ 208V   | 0.9       | 2405      | 30.5      | 36.8      | 1.68      | 25.3      | 31.36     | 37.6      | 49.8     | 1.68      | 25.3      | 31.3      | 37.6      | 49        |
| Max. Overcurrent Device 240V   | 15        | 30        | 40        | 50        | 15        | 30        | 40        | 50        | 60       | 15        | 30        | 40        | 50        | 8         |
| Max. Overcurrent Device @ 208V | 15        | 30        | 40        | 40        | 15        | 30        | 40        | 40        | 50       | 15        | 30        | 40        | 40        | 60        |
| Minimum VAC                    | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197      | 197       | 197       | 197       | 197       | 50        |
| Maximum VAC                    | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253      | 253       | 253       | 253       | 253       | 253       |
| <b>Blower Motor</b>            |           |           |           |           |           |           |           |           |          |           |           |           |           |           |
| FLA                            | 0.72      | 0.72      | 0.72      | 0.72      | 1.34      | 1.34      | 1.34      | 1.34      | 1.34     | 1.34      | 1.34      | 1.34      | 1.34      | 1.34      |
| HP                             | 1/8       | 1/8       | 1/8       | 1/8       | 1/4       | 1/4       | 1/4       | 1/4       | 1/4      | 1/4       | 1/4       | 1/4       | 1/4       | 1/4       |
| <b>Ship Weight (lbs)</b>       | 59        | 59        | 59        | 59        | 69        | 69        | 69        | 69        | 69       | 79        | 79        | 79        | 79        | 79        |

# AC

|                                | AC18-05D | AC18-06D | AC18-08D | AC30-05D | AC20-08D | AC30-10D | AC36-05D | AC36-08D | AC36-10D |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Blower</b>                  |          |          |          |          |          |          |          |          |          |
| Diameter                       | 5.75     | 5.75     | 5.75     | 5.75     | 6.31     | 6.31     | 6.31     | 6.31     | 6.31     |
| Width                          | 6.75     | 6.75     | 6.75     | 6.75     | 8.25     | 8.25     | 8.25     | 8.25     | 8.25     |
| Coil Drain Connection FPT      | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     |
| <b>Lineset Connection Size</b> |          |          |          |          |          |          |          |          |          |
| Liquid                         | 3/8"     | 3/8"     | 3/8"     | 3/8"     | 3/8"     | 3/8"     | 3/8"     | 3/8"     | 3/8"     |
| Suction                        | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     |
| <b>Electrical Data</b>         |          |          |          |          |          |          |          |          |          |
| Min. Circuit Ampacity @ 240V   | 29       | 36       | 43       | 29       | 43       | 58       | 29       | 44       | 59       |
| Min. Circuit Ampacity @ 208V   | 27       | 33       | 39       | 27       | 39       | 53       | 27       | 39       | 54       |
| Max. Overcurrent Device 240V   | 30       | 40       | 45       | 30       | 45       | 60       | 30       | 45       | 60       |
| Max. Overcurrent Device @ 208V | 30       | 40       | 40       | 30       | 40       | 60       | 30       | 40       | 60       |
| Minimum VAC                    | 197      | 197      | 197      | 197      | 197      | 197      | 197      | 197      | 197      |
| Maximum VAC                    | 253      | 253      | 253      | 253      | 253      | 253      | 253      | 253      | 253      |
| <b>Blower Motor</b>            |          |          |          |          |          |          |          |          |          |
| FLA                            | 0.72     | 0.72     | 0.72     | 0.72     | 1.34     | 1.34     | 1.34     | 1.34     | 1.34     |
| HP                             | 1/8      | 1/8      | 1/8      | 1/4      | 1/4      | 1/4      | 1/4      | 1/4      | 1/4      |
| <b>Ship Weight (lbs)</b>       | 59       | 59       | 59       | 59       | 69       | 69       | 69       | 69       | 69       |

# PRODUCT SPECIFICATIONS

# AWUF

|                                 | AWUF18051 | AWUF18081 | AWUF24051 | AWUF24081 | AWUF24101 | AWUF30051 | AWUF30081 | AWUF30101 | AWUF36051 | AWUF36081 | AWUF36101 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Heating Capacity</b>         |           |           |           |           |           |           |           |           |           |           |           |
| Actual kW @ 240 volts           | 4.8       | 7.3       | 4.8       | 7.3       | 9.8       | 4.8       | 7.3       | 9.8       | 4.8       | 7.3       | 9.8       |
| BTU/h @ 240 volts               | 16,390    | 24,925    | 16,390    | 24,925    | 33,460    | 16,390    | 24,925    | 33,460    | 16,390    | 24,925    | 33,460    |
| <b>Blower</b>                   |           |           |           |           |           |           |           |           |           |           |           |
| Diameter                        | 9"        | 9"        | 10"       | 10"       | 10"       | 9"        | 9"        | 9"        | 9"        | 9"        | 9"        |
| Width                           | 6"        | 6"        | 6"        | 6"        | 6"        | 8"        | 8"        | 8"        | 8"        | 8"        | 8"        |
| Coil Drain Connection FPT       | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      |
| <b>Lineset Connection Size</b>  |           |           |           |           |           |           |           |           |           |           |           |
| Liquid                          | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      | 3/8"      |
| Suction                         | 5/8"      | 5/8"      | 5/8"      | 5/8"      | 5/8"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      | 3/4"      |
| <b>Electrical Data</b>          |           |           |           |           |           |           |           |           |           |           |           |
| Min. Circuit Ampacity*          | 26.7/23.3 | 39.7/34.2 | 26.7/23.3 | 39.7/34.2 | 52.7/45.6 | 27.0/23.6 | 40.0/34.5 | 53.0/45.9 | 27.0/23.6 | 40.0/34.5 | 53.0/45.9 |
| Max. Overcurrent Device (amps)* | 30/30     | 40/40     | 30/30     | 40/40     | 60/50     | 30/30     | 40/40     | 60/50     | 30/30     | 40/40     | 60/50     |
| Minimum VAC                     | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197       | 197       |
| Maximum VAC                     | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253       | 253       |
| <b>Blower Motor</b>             |           |           |           |           |           |           |           |           |           |           |           |
| FLA                             | 1.35      | 1.35      | 1.35      | 1.35      | 1.35      | 1.61      | 1.61      | 1.61      | 1.61      | 1.61      | 1.61      |
| HP                              | 1/5       | 1/5       | 1/5       | 1/5       | 1/5       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       |
| <b>Ship Weight (lbs)</b>        | 84        | 84        | 84        | 84        | 84        | 93        | 93        | 93        | 96        | 96        | 96        |

\* @ 208V/240V

# ADPF

|                                 | ADPF1824<br>1/16 | ADPF3042<br>1/16 | ADPF4860<br>1/16 |
|---------------------------------|------------------|------------------|------------------|
| <b>Blower</b>                   |                  |                  |                  |
| Diameter                        | 9 1/2"           | 10 5/8"          | 10 5/8"          |
| Width                           | 6"               | 8"               | 10 5/8"          |
| Coil Drain Connection FPT       | 3/4"             | 3/4"             | 3/4"             |
| <b>Lineset Connection Size</b>  |                  |                  |                  |
| Liquid                          | 3/8"             | 3/8"             | 3/8"             |
| Suction                         | 3/4"             | 7/8"             | 7/8"             |
| <b>Electrical Data</b>          |                  |                  |                  |
| Voltage                         | 208/240          | 208/240          | 208/240          |
| Min. Circuit Ampacity*          | 2.1/2.1          | 3.7/3.7          | 5.4/5.4          |
| Max. Overcurrent Device (amps)* | 15/15            | 15/15            | 15/15            |
| Minimum VAC                     | 197              | 197              | 197              |
| Maximum VAC                     | 253              | 253              | 253              |
| <b>Blower Motor</b>             |                  |                  |                  |
| FLA                             | 1.70             | 2.95             | 4.30             |
| HP                              | 1/3              | 1/2              | 3/4              |
| <b>Ship Weight (lbs)</b>        | 100              | 144              | 160              |

\* @ 208V/240V

# PRODUCT SPECIFICATIONS

# ARPF

|                                | ARPF18241* | ARPF19311* | ARPF30301* | ARPF36361* |
|--------------------------------|------------|------------|------------|------------|
| <b>Blower</b>                  |            |            |            |            |
| Diameter                       | 9 1/2"     | 9 1/2"     | 9 1/2"     | 9 1/2"     |
| Width                          | 6"         | 6"         | 8"         | 6"         |
| Coil Drain Connection FPT      | 3/4"       | 3/4"       | 3/4"       | 3/4"       |
| <b>Lineset Connection Size</b> |            |            |            |            |
| Liquid                         | 3/8"       | 3/8"       | 3/8"       | 3/8"       |
| Suction                        | 3/4"       | 7/8"       | 3/4"       | 3/4"       |
| <b>Electrical Data</b>         |            |            |            |            |
| Voltage                        | 208 / 240  | 208 / 240  | 208 / 240  | 208 / 240  |
| Min. Circuit Ampacity          | 2.1 / 2.1  | 1.9 / 1.9  | 3.3 / 3.3  | 3.3 / 3.3  |
| Max. Overcurrent Device (amps) | 15 / 15    | 15 / 15    | 15 / 15    | 15 / 15    |
| Minimum VAC                    | 197        | 197        | 197        | 197        |
| Maximum VAC                    | 253        | 253        | 253        | 253        |
| <b>Blower Motor</b>            |            |            |            |            |
| FLA                            | 1.70       | 1.48       | 2.64       | 2.64       |
| HP                             | 1/3        | 1/4        | 1/3        | 1/3        |
| <b>Ship Weight (lbs)</b>       | 120        | 155        | 144        | 164        |

|                                | ARPF36421* | ARPF37431* | ARPF48601* |
|--------------------------------|------------|------------|------------|
| <b>Blower</b>                  |            |            |            |
| Diameter                       | 10 5/8"    | 11 15/16"  | 10 5/8"    |
| Width                          | 8"         | 10 11/16"  | 10 5/8"    |
| Coil Drain Connection FPT      | 3/4"       | 3/4"       | 3/4"       |
| <b>Lineset Connection Size</b> |            |            |            |
| Liquid                         | 3/8"       | 3/8"       | 3/8"       |
| Suction                        | 7/8"       | 7/8"       | 7/8"       |
| <b>Electrical Data</b>         |            |            |            |
| Voltage                        | 208 / 240  | 208 / 240  | 208 / 240  |
| Min. Circuit Ampacity          | 3.7 / 3.7  | 4.2 / 4.2  | 5.4 / 5.4  |
| Max. Overcurrent Device (amps) | 15 / 15    | 15 / 15    | 15 / 15    |
| Minimum VAC                    | 197        | 197        | 197        |
| Maximum VAC                    | 253        | 253        | 253        |
| <b>Blower Motor</b>            |            |            |            |
| FLA                            | 2.95       | 3.39       | 4.30       |
| HP                             | 1/2        | 1/2        | 3/4        |
| <b>Ship Weight (lbs)</b>       | 173        | 195        | 192        |



# PRODUCT SPECIFICATIONS

# ARUF

|                                | ARUF172916 | ARUF182416 | ARUF193116 | ARUF303016 |
|--------------------------------|------------|------------|------------|------------|
| <b>Blower</b>                  |            |            |            |            |
| Diameter                       | 9 1/2"     | 9 1/2"     | 9 1/2"     | 9 1/2"     |
| Width                          | 6"         | 6"         | 6"         | 8"         |
| Coil Drain Connection FPT      | 3/4"       | 3/4"       | 3/4"       | 3/4"       |
| <b>Lineset Connection Size</b> |            |            |            |            |
| Liquid                         | 3/8"       | 3/8"       | 3/8"       | 3/8"       |
| Suction                        | 3/4"       | 7/8"       | 3/4"       | 3/4"       |
| <b>Electrical Data</b>         |            |            |            |            |
| Voltage                        | 208 / 240  | 208 / 240  | 208 / 240  | 208 / 240  |
| Min. Circuit Ampacity          | 2.1 / 2.1  | 2.1 / 2.1  | 1.9 / 1.9  | 3.3 / 3.3  |
| Max. Overcurrent Device (amps) | 15 / 15    | 15 / 15    | 15 / 15    | 15 / 15    |
| Minimum VAC                    | 197        | 197        | 197        | 197        |
| Maximum VAC                    | 253        | 253        | 253        | 253        |
| <b>Blower Motor</b>            |            |            |            |            |
| FLA                            | 1.70       | 1.70       | 1.48       | 2.64       |
| HP                             | 1/3        | 1/3        | 1/4        | 1/3        |
| <b>Ship Weight (lbs)</b>       | 110        | 120        | 155        | 144        |

|                                | ARUF363616 | ARUF364216 | ARUF374316 | ARUF486016 |
|--------------------------------|------------|------------|------------|------------|
| <b>Blower</b>                  |            |            |            |            |
| Diameter                       | 9 1/2"     | 10 5/8"    | 11 15/16"  | 10 5/8"    |
| Width                          | 6"         | 8"         | 10 11/16"  | 10 5/8"    |
| Coil Drain Connection FPT      | 3/4"       | 3/4"       | 3/4"       | 3/4"       |
| <b>Lineset Connection Size</b> |            |            |            |            |
| Liquid                         | 3/8"       | 3/8"       | 3/8"       | 3/8"       |
| Suction                        | 3/4"       | 7/8"       | 7/8"       | 7/8"       |
| <b>Electrical Data</b>         |            |            |            |            |
| Voltage                        | 208 / 240  | 208 / 240  | 208 / 240  | 208 / 240  |
| Min. Circuit Ampacity          | 3.3 / 3.3  | 3.7 / 3.7  | 4.2 / 4.2  | 5.4 / 5.4  |
| Max. Overcurrent Device (amps) | 15 / 15    | 15 / 15    | 15 / 15    | 15 / 15    |
| Minimum VAC                    | 197        | 197        | 197        | 197        |
| Maximum VAC                    | 253        | 253        | 253        | 253        |
| <b>Blower Motor</b>            |            |            |            |            |
| FLA                            | 2.64       | 2.95       | 3.39       | 4.30       |
| HP                             | 1/3        | 1/2        | 1/2        | 3/4        |
| <b>Ship Weight (lbs)</b>       | 164        | 173        | 195        | 192        |

# PRODUCT SPECIFICATIONS

# AEPF

|                                 | AEPF183016 | AEPF303616 | AEPF416016 |
|---------------------------------|------------|------------|------------|
| <b>Blower</b>                   |            |            |            |
| Diameter                        | 9 1/2"     | 10 5/8"    | 10 5/8"    |
| Width                           | 8"         | 10 5/8"    | 10 5/8"    |
| Coil Drain Connection FPT       | 3/4"       | 3/4"       | 3/4"       |
| <b>Lineset Connection Size</b>  |            |            |            |
| Liquid                          | 3/8"       | 3/8"       | 3/8"       |
| Suction                         | 3/4"       | 7/8"       | 7/8"       |
| <b>Electrical Data</b>          |            |            |            |
| Voltage                         | 208/240    | 208/240    | 208/240    |
| Min. Circuit Ampacity*          | 2.5/2.5    | 3.1/3.1    | 7.8/7.8    |
| Max. Overcurrent Device (amps)* | 15/15/     | 15/15      | 15/15      |
| Minimum VAC                     | 197        | 197        | 197        |
| Maximum VAC                     | 253        | 253        | 253        |
| <b>Blower Motor</b>             |            |            |            |
| FLA                             | 2.00       | 2.50       | 6.20       |
| HP                              | 1/2        | 3/4        | 3/4        |
| <b>Ship Weight (lbs)</b>        | 125        | 176        | 195        |

# ASPF

|                                | ASPF183016* | ASPF303616* | ASPF426016* |
|--------------------------------|-------------|-------------|-------------|
| <b>Blower</b>                  |             |             |             |
| Diameter                       | 9 1/2"      | 10 5/8"     | 10 15/16"   |
| Width                          | 8"          | 10 5/8"     | 10 11/16"   |
| Coil Drain Connection FPT      | 3/4"        | 3/4"        | 3/4"        |
| <b>Lineset Connection Size</b> |             |             |             |
| Liquid                         | 3/8"        | 3/8"        | 3/8"        |
| Suction                        | 3/4"        | 7/8"        | 7/8"        |
| <b>Electrical Data</b>         |             |             |             |
| Voltage                        | 208 / 230   | 208 / 230   | 208 / 230   |
| Min. Circuit Ampacity          | 3.1 / 3.1   | 3.8 / 3.8   | 5.3         |
| Max. Overcurrent Device (amps) | 15 / 15     | 15 / 15     | 15 / 15     |
| Minimum VAC                    | 197         | 197         | 197         |
| Maximum VAC                    | 253         | 253         | 253         |
| <b>Blower Motor</b>            |             |             |             |
| FLA                            | 2.5         | 3.0         | 4.2         |
| HP                             | 1/2         | 3/4         | 3/4         |
| <b>Ship Weight (lbs)</b>       | 125         | 176         | 195         |

# BLOWER PERFORMANCE DATA

# ACNF

| Model     | Speed | CFM delivered against External Static Pressure |       |      |      |      |
|-----------|-------|--|-------|------|------|------|
|           |       | 0.1"   | 0.2"  | 0.3" | 0.4" | 0.5" |
| ACNF18001 | High  | 780  | 710   | 625  | 520  | 440  |
|           | Low   | 675  | 585   | 510  | 460  | 400  |
| ACNF18051 | High  | 780  | 710   | 625  | 520  | 440  |
|           | Low   | 675  | 585   | 510  | 460  | 400  |
| ACNF18061 | High  | 780  | 710   | 625  | 520  | 440  |
|           | Low   | 675  | 585   | 510  | 460  | 400  |
| ACNF18081 | High  | 780  | 710   | 625  | 520  | 440  |
|           | Low   | 675  | 585   | 510  | 460  | 400  |
| ACNF24001 | High  | 935  | 880   | 810  | 735  | 675  |
|           | Low   | 720  | 680   | 630  | 565  | 490  |
| ACNF24051 | High  | 935  | 880   | 810  | 735  | 675  |
|           | Low   | 720  | 680   | 630  | 565  | 490  |
| ACNF24061 | High  | 935  | 880   | 810  | 735  | 675  |
|           | Low   | 720  | 680   | 630  | 565  | 490  |
| ACNF24081 | High  | 935  | 880   | 810  | 735  | 675  |
|           | Low   | 720  | 680   | 630  | 565  | 490  |
| ACNF24101 | High  | 935  | 880   | 810  | 735  | 675  |
|           | Low   | 720  | 680   | 630  | 565  | 490  |
| ACNF30001 | High  | 1,075  | 1,015 | 945  | 865  | 770  |
|           | Low   | 830  | 785   | 720  | 665  | 605  |
| ACNF30051 | High  | 1,075  | 1,015 | 945  | 865  | 770  |
|           | Low   | 830  | 785   | 720  | 665  | 605  |
| ACNF30061 | High  | 1,075  | 1,015 | 945  | 865  | 770  |
|           | Low   | 830  | 785   | 720  | 665  | 605  |
| ACNF30081 | High  | 1,075  | 1,015 | 945  | 865  | 770  |
|           | Low   | 830  | 785   | 720  | 665  | 605  |
| ACNF30101 | High  | 1,075  | 1,015 | 945  | 865  | 770  |
|           | Low   | 830  | 785   | 720  | 665  | 605  |

| Model    | Speed | CFM Delivered Against External Static Pressure |       |       |       |      |
|----------|-------|--|-------|-------|-------|------|
|          |       | 0.1"   | 0.2"  | 0.3"  | 0.4"  | 0.5" |
| AC18-05D | High  | 780  | 710   | 625   | 520   | 440  |
| AC18-06D | Low   | 675  | 585   | 510   | 460   | 400  |
| AC18-08D |       |  |       |       |       |      |
| AC30-05D | High  | 1,075  | 1,015 | 945   | 865   | 770  |
| AC30-08D | Low   | 830  | 785   | 720   | 665   | 605  |
| AC30-10D |       |  |       |       |       |      |
| AC36-05D | High  | 1,200  | 1,150 | 1,090 | 1,025 | 945  |
| AC36-08D | Low   | 920  | 880   | 830   | 770   | 710  |
| AC36-10D |       |  |       |       |       |      |

**Note:**  
Assumes dry coil with filter in place;  
208-volt operation x .96

# BLOWER PERFORMANCE DATA

**AWUF**

| Model     | Speed | CFM delivered against External Static Pressure |      |      |      |      |
|-----------|-------|--|------|------|------|------|
|           |       | 0.1"   | 0.2" | 0.3" | 0.4" | 0.5" |
| AWUF18051 | High  | 750  | 730  | 690  | 650  | 595  |
|           | Low   | 710  | 700  | 690  | 635  | 585  |
| AWUF18081 | High  | 750  | 730  | 690  | 650  | 595  |
|           | Low   | 710  | 700  | 690  | 635  | 585  |
| AWUF24051 | High  | 880  | 845  | 810  | 770  | 735  |
|           | Low   | 845  | 815  | 780  | 745  | 705  |
| AWUF24081 | High  | 880  | 845  | 810  | 770  | 735  |
|           | Low   | 845  | 815  | 780  | 745  | 705  |
| AWUF24101 | High  | 880  | 845  | 810  | 770  | 735  |
|           | Low   | 845  | 815  | 780  | 745  | 705  |
| AWUF30051 | High  | 1250   | 1195 | 1135 | 1085 | 1010 |
|           | Low   | 1110   | 1055 | 1020 | 955  | 905  |
| AWUF30081 | High  | 1250   | 1195 | 1135 | 1085 | 1010 |
|           | Low   | 1110   | 1055 | 1020 | 955  | 905  |
| AWUF30101 | High  | 1250   | 1195 | 1135 | 1085 | 1010 |
|           | Low   | 1110   | 1055 | 1020 | 955  | 905  |
| AWUF36051 | High  | 1280   | 1190 | 1110 | 1010 | 930  |
|           | Low   | 1170   | 1100 | 1030 | 950  | 890  |
| AWUF36081 | High  | 1280   | 1190 | 1110 | 1010 | 930  |
|           | Low   | 1170   | 1100 | 1030 | 950  | 890  |
| AWUF36101 | High  | 1280   | 1190 | 1110 | 1010 | 930  |
|           | Low   | 1170   | 1100 | 1030 | 950  | 890  |

Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208V/240V)

# BLOWER PERFORMANCE DATA

# ADPF

| Model        | Speed | CFM delivered against External Static Pressure |       |       |       |       |
|--------------|-------|--|-------|-------|-------|-------|
|              |       | 0.1"   | 0.2"  | 0.3"  | 0.4"  | 0.5"  |
| ADPF18241/16 | High  | 1,155  | 1,090 | 1,025 | 950   | 895   |
|              | Med   | 875  | 830   | 790   | 750   | 715   |
|              | Low   | 640  | 610   | 570   | 535   | 490   |
| ADPF30421/16 | High  | 1,700  | 1,680 | 1,645 | 1,610 | 1,535 |
|              | Med   | 1,500  | 1,480 | 1,440 | 1,380 | 1,325 |
|              | Low   | 1,345  | 1,320 | 1,275 | 1,230 | 1,195 |
| ADPF48601/16 | High  | 2,135  | 2,080 | 1,985 | 1,900 | 1,805 |
|              | Med   | 1,980  | 1,935 | 1,875 | 1,775 | 1,675 |
|              | Low   | 1,715  | 1,670 | 1,650 | 1,590 | 1,530 |

Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208V/240V)

# ARPF

| Model      | Speed | CFM delivered against External Static Pressure |      |      |      |      |
|------------|-------|--|------|------|------|------|
|            |       | 0.1"   | 0.2" | 0.3" | 0.4" | 0.5" |
| ARPF18241* | High  | 1155   | 1090 | 1025 | 950  | 895  |
|            | Med.  | 875  | 830  | 790  | 750  | 715  |
|            | Low   | 640  | 610  | 570  | 535  | 490  |
| ARPF19311* | High  | 1135   | 1085 | 1025 | 965  | 915  |
|            | Med.  | 860  | 825  | 780  | 750  | 680  |
|            | Low   | 600  | 570  | 545  | 500  | 465  |
| ARPF30301* | High  | 1455   | 1385 | 1330 | 1205 | 1090 |
|            | Med.  | 1340   | 1290 | 1230 | 1140 | 1050 |
|            | Low   | 1075   | 1030 | 980  | 910  | 840  |
| ARPF36361* | High  | 1345   | 1290 | 1230 | 1150 | 1070 |
|            | Med.  | 1270   | 1210 | 1140 | 1075 | 980  |
|            | Low   | 1045   | 1005 | 955  | 885  | 805  |
| ARPF36421* | High  | 1700   | 1680 | 1645 | 1610 | 1535 |
|            | Med.  | 1500   | 1480 | 1440 | 1380 | 1325 |
|            | Low   | 1345   | 1320 | 1275 | 1230 | 1195 |
| ARPF37431* | High  | 2065   | 2000 | 1925 | 1860 | 1780 |
|            | Med.  | 1685   | 1635 | 1550 | 1470 | 1410 |
|            | Low   | 1490   | 1425 | 1345 | 1280 | 1205 |
| ARPF48601* | High  | 2135   | 2080 | 1985 | 1900 | 1805 |
|            | Med.  | 1975   | 1935 | 1875 | 1775 | 1675 |
|            | Low   | 1715   | 1670 | 1650 | 1590 | 1530 |

Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208V/240V)

# BLOWER PERFORMANCE DATA

ARUF

| Model      | Speed | CFM delivered against External Static Pressure |      |      |      |      |
|------------|-------|--|------|------|------|------|
|            |       | 0.1"   | 0.2" | 0.3" | 0.4" | 0.5" |
| ARUF172916 | High  | 1155   | 1090 | 1025 | 950  | 895  |
|            | Med.  | 875  | 830  | 790  | 750  | 715  |
|            | Low   | 640  | 610  | 570  | 535  | 490  |
| ARUF182416 | High  | 1155   | 1090 | 1025 | 950  | 895  |
|            | Med.  | 875  | 830  | 790  | 750  | 715  |
|            | Low   | 640  | 610  | 570  | 535  | 490  |
| ARUF193116 | High  | 1135   | 1085 | 1025 | 965  | 915  |
|            | Med.  | 860  | 825  | 780  | 750  | 680  |
|            | Low   | 600  | 570  | 545  | 500  | 465  |
| ARUF303016 | High  | 1455   | 1385 | 1330 | 1205 | 1090 |
|            | Med.  | 1340   | 1290 | 1230 | 1140 | 1050 |
|            | Low   | 1075   | 1030 | 980  | 910  | 840  |
| ARUF363616 | High  | 1345   | 1290 | 1230 | 1150 | 1070 |
|            | Med.  | 1270   | 1210 | 1140 | 1075 | 980  |
|            | Low   | 1045   | 1005 | 955  | 885  | 805  |
| ARUF364216 | High  | 1700   | 1680 | 1645 | 1610 | 1535 |
|            | Med.  | 1500   | 1480 | 1440 | 1380 | 1325 |
|            | Low   | 135  | 1320 | 1275 | 1230 | 1195 |
| ARUF374316 | High  | 2065   | 2000 | 1925 | 1860 | 1780 |
|            | Med.  | 1685   | 1635 | 1550 | 1470 | 1410 |
|            | Low   | 1490   | 1425 | 1345 | 1280 | 1205 |
| ARUF486016 | High  | 2135   | 2080 | 1985 | 1900 | 1805 |
|            | Med.  | 1975   | 1935 | 1875 | 1775 | 1675 |
|            | Low   | 1715   | 1670 | 1650 | 1590 | 1530 |

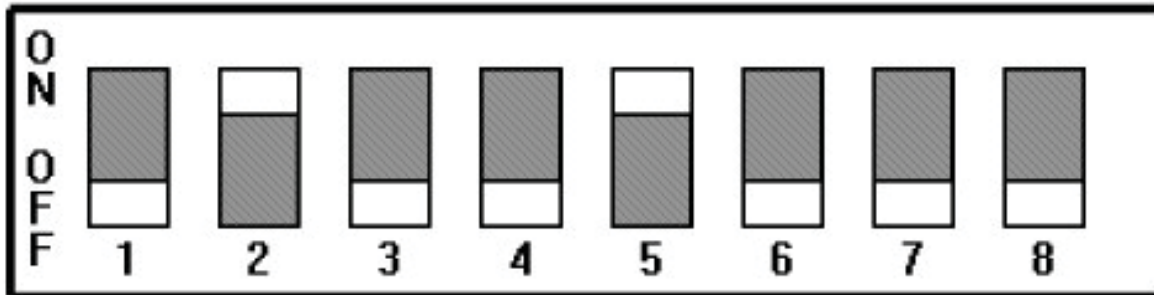
Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208V/240V)

# BLOWER PERFORMANCE DATA

**AEPF**

The AEPF air handler blower motor is pre-programmed for operation at four distinct airflow levels when operating in the Cooling, Heat Pump heating, Backup heating (Electric Heating), and Backup + Heat Pump heating modes. Each mode has four levels to deliver different CFM. Simply flip the dipswitch for a different CFM combination.

## Setting the Motor



| Dipswitch Number | Function               | Instructions   |
|------------------|------------------------|--|
| 1                | Electric Heat Mode     | Select the taps allowed in the tables (Dipswitch 1/2) below.   |
| 2                | Electric Heat Mode     |  |
| 3                | N/A                    | N/A  |
| 4                | Thermostat Mode        | ON = The system operates with single-stage units using a single-stage cooling or heat pump thermostat. (factory default)<br>OFF = The system operates with two-stage units with either a conventional two-stage cooling/heat pump thermostat or with an encoded two-stage thermostat for cooling operation. The encoded thermostats can be used with two-stage condensing units in retrofit applications where not enough existing wires are available for connections to the indoor thermostat and outdoor units. |
| 5                | Cooling/Heat Pump Mode | Find the airflow for your application in the tables (Dipswitch 5/6) below.<br>Set up the motor based on the outdoor unit capacity tons.  |
| 6                | Cooling/Heat Pump Mode |  |
| 7                | Trim CFM Adjust Mode   | Increase or decrease your selected airflow to fit your requirement.<br>ON-OFF = Increases selected Cool/Heat Pump airflow by 10%.<br>OFF-ON = Decreases selected Cool/Heat Pump airflow by 15%<br>NOTE: Other settings have no effect on the set airflow.  |
| 8                | Trim CFM Adjust Mode   |  |

### Dipswitch 1/2

AEPF1830

| Heating Element (kW) | Switch Position      | Emergency Backup | Heat Pump with Backup |
|----------------------|----------------------|------------------|-----------------------|
| Up to 10             | Off-Off <sup>1</sup> | 1100             | 1210                  |
| Up to 10             | On-Off               | 850              | 935                   |
| 5                    | Off-On               | 700              | 770                   |

### Dipswitch 5/6

AEPF1830

| Switch Position      | Indoor Airflow |           |
|----------------------|----------------|-----------|
|                      | Cooling        | Heat Pump |
| Off-Off <sup>1</sup> | 1100           | 1100      |
| On-Off               | 850            | 800       |
| Off-On               | 700            | 600       |

AEPF3036 / 4260

| Heating Element (kW)  | Switch Position | Emergency Backup | Heat Pump With Backup |
|-----------------------|-----------------|------------------|-----------------------|
| Up to 20              | Off-Off         | 2050             | 2150                  |
| Up to 20              | On-Off          | 1750             | 1835                  |
| Up to 15              | Off-On          | 1600             | 1680                  |
| Up to 10              | On-On           | 1200             | 1260                  |
| Up to 10 <sup>1</sup> | On-On           | 1020             | 1020                  |

AEPF3036 / 4260

| Switch Position    | Indoor Airflow |           |
|--------------------|----------------|-----------|
|                    | Cooling        | Heat Pump |
| Off-Off            | 1600           | 1600      |
| On-Off             | 1350           | 1350      |
| Off-On             | 1250           | 1250      |
| On-On              | 1000           | 1000      |
| On-On <sup>1</sup> | 850            | 850       |

<sup>1</sup> 7-8 shall be OFF-ON for 2.5-TON applications

NOTE: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%



# BLOWER PERFORMANCE DATA

# ASPF

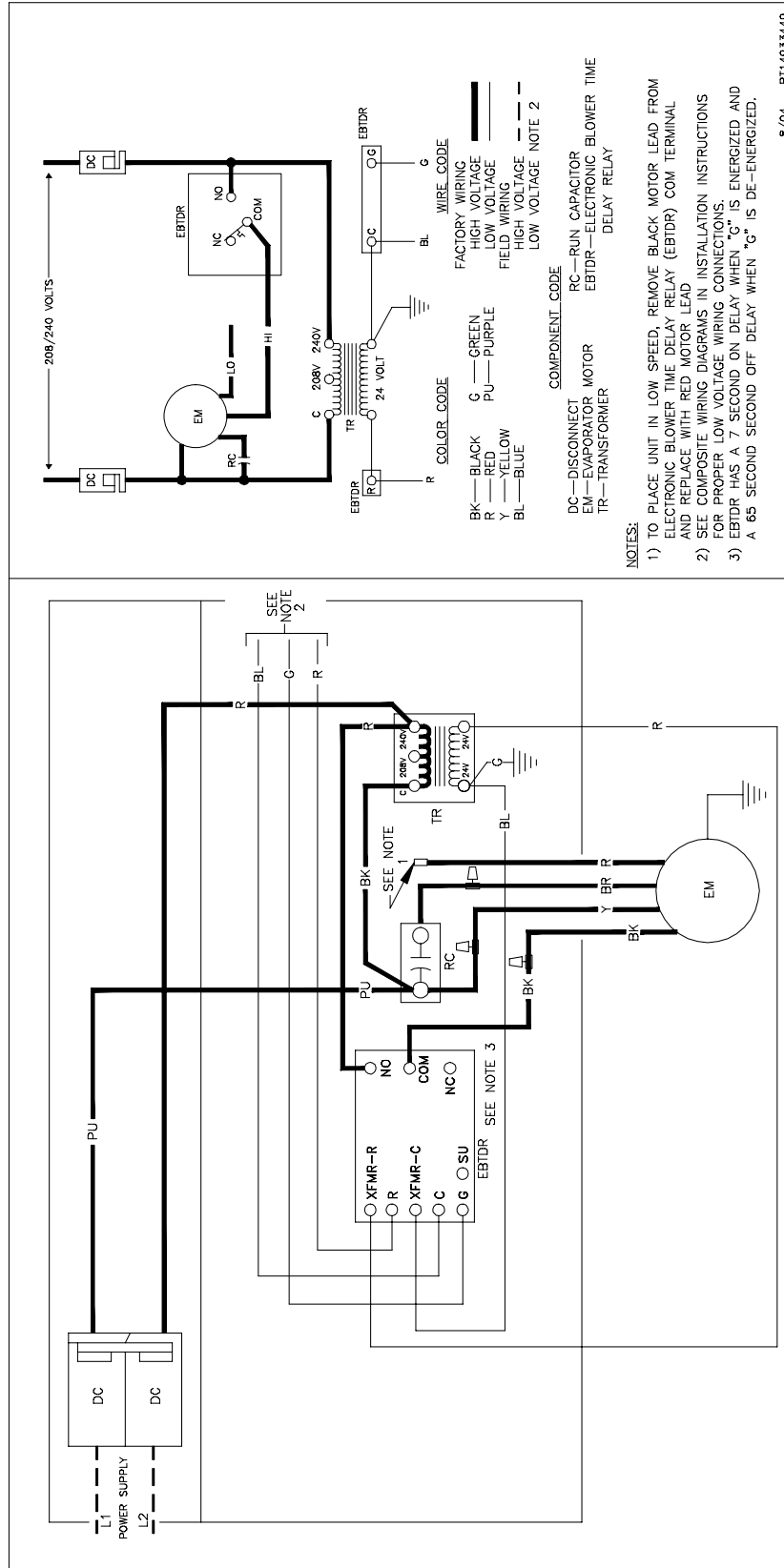
| Model      | Motor Speed Tap | CFM deliverd against External Static Pressure |      |      |      |      |
|------------|-----------------|---|------|------|------|------|
|            |                 | 0.1"  | 0.2" | 0.3" | 0.4" | 0.5" |
| ASPF183016 | 1               | 700   | 670  | 650  | 595  | 510  |
|            | 2               | 820   | 785  | 765  | 745  | 705  |
|            | 3               | 920   | 900  | 850  | 840  | 815  |
|            | 4               | 1075  | 1055 | 1015 | 975  | 960  |
|            | 5               | 1130  | 1115 | 1085 | 1040 | 1000 |
| ASPF303616 | 1               | 1060  | 865  | 600  | 515  | 420  |
|            | 2               | 1105  | 910  | 795  | 745  | 690  |
|            | 3               | 1165  | 1070 | 1020 | 960  | 915  |
|            | 4               | 1285  | 1240 | 1195 | 1140 | 1100 |
|            | 5               | 1435  | 1395 | 1350 | 1315 | 1265 |
| ASPF426016 | 1               | 1445  | 1275 | 1040 | 940  | 855  |
|            | 2               | 1545  | 1405 | 1325 | 1260 | 1145 |
|            | 3               | 1660  | 1610 | 1555 | 1490 | 1415 |
|            | 4               | 1905  | 1870 | 1810 | 1750 | 1695 |
|            | 5               | 2115  | 2070 | 2000 | 1965 | 1915 |

Notes: Assumes dry coil with filter in place; SCFM correction for wet coil = 4% (208/240V)  
 All ASPF models are shipped from the factory with the speed tap set on T4.



**WARNING**

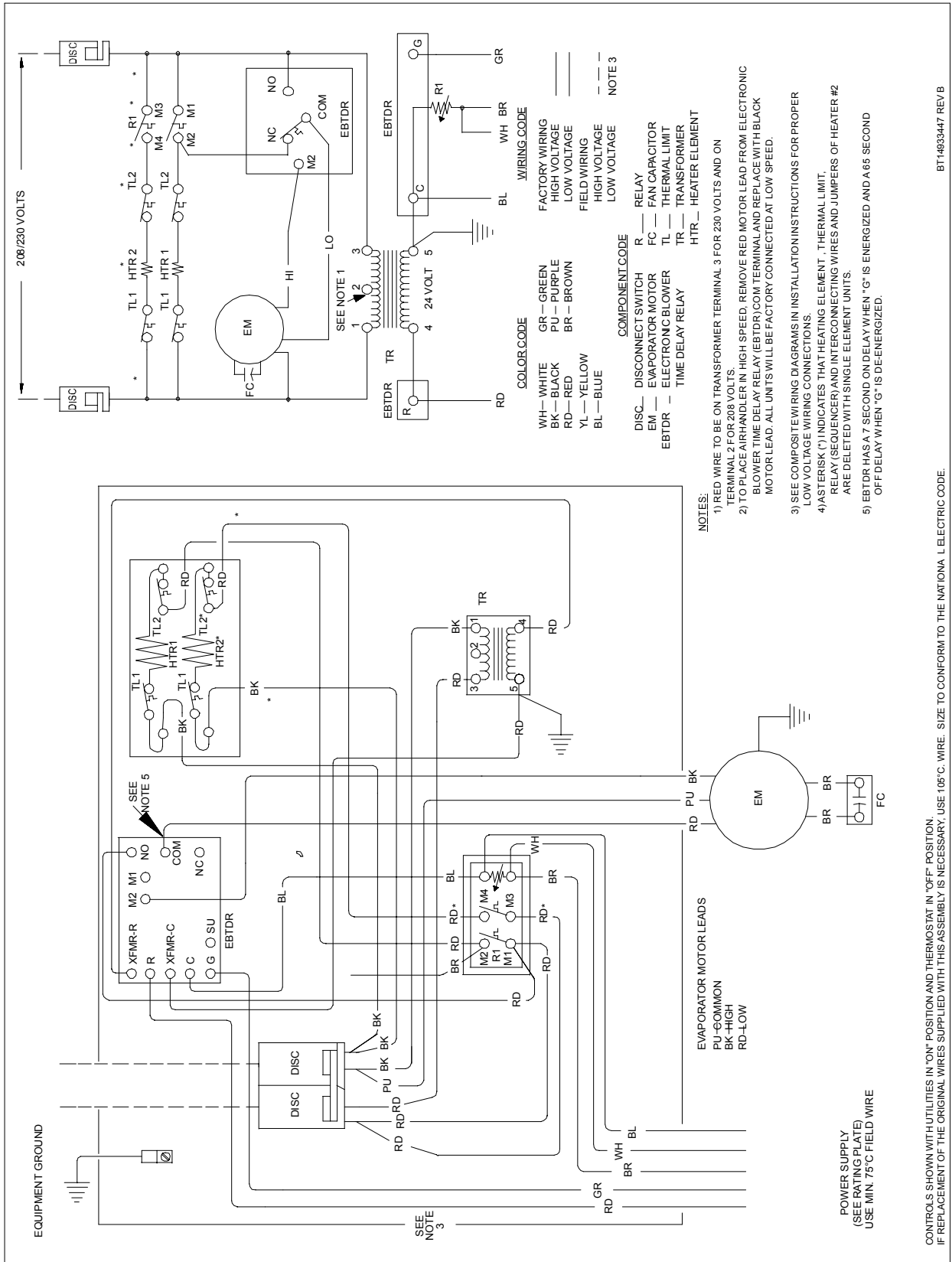
**HIGH VOLTAGE!**  
**DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WARNING

HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



BT14933447 REV B

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

# WIRING DIAGRAMS

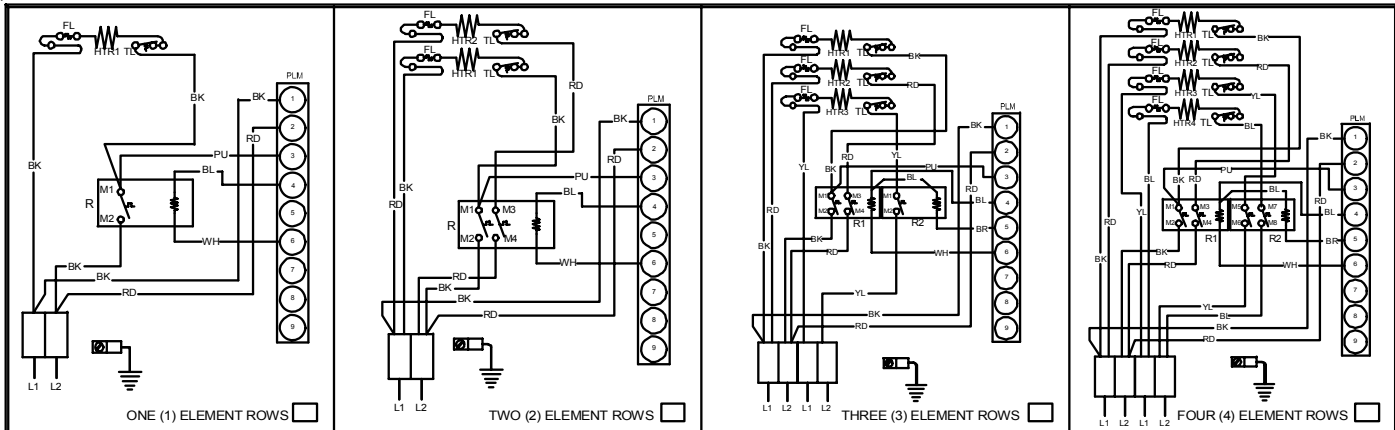
# ADPF, ARPF, ARUF



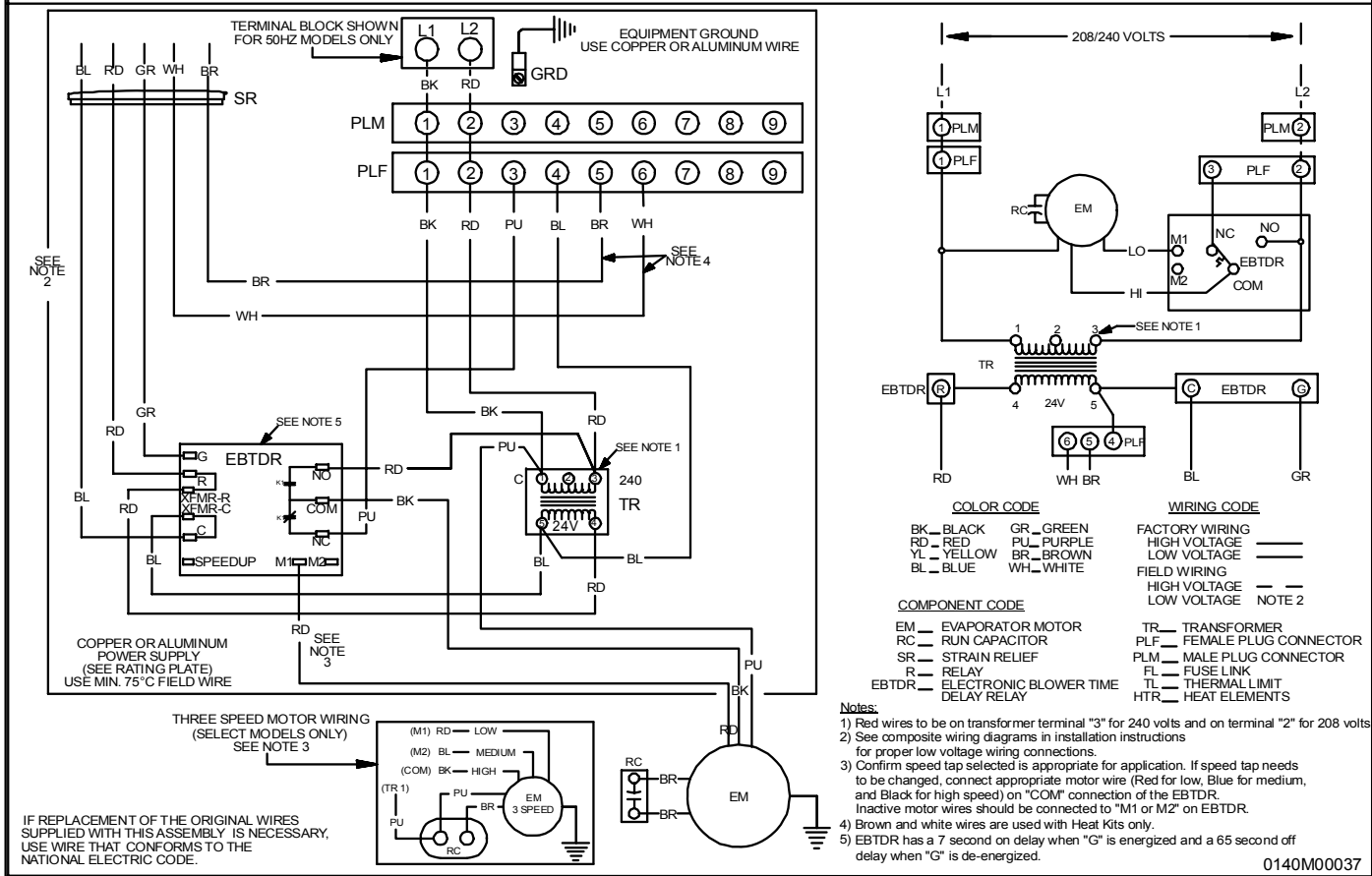
**WARNING**

**HIGH VOLTAGE!**  
**DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**





NOTE: WHEN INSTALLING HEATER KIT, ENSURE SPEED TAP DOES NOT EXCEED MINIMUM BLOWER SPEED (MBS) SPECIFIED FOR THE AIRHANDLER/HEATER KIT COMBINATION ON THIS UNIT'S S&R PLATE. AFTER INSTALLING OPTIONAL HEAT KIT, MARK AN "X" IN THE  PROVIDED ABOVE. MARK ACCORDING TO NUMBER OF HEATER ELEMENT ROWS INSTALLED. NO MARK INDICATES NO HEAT KIT INSTALLED.



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

# WIRING DIAGRAMS

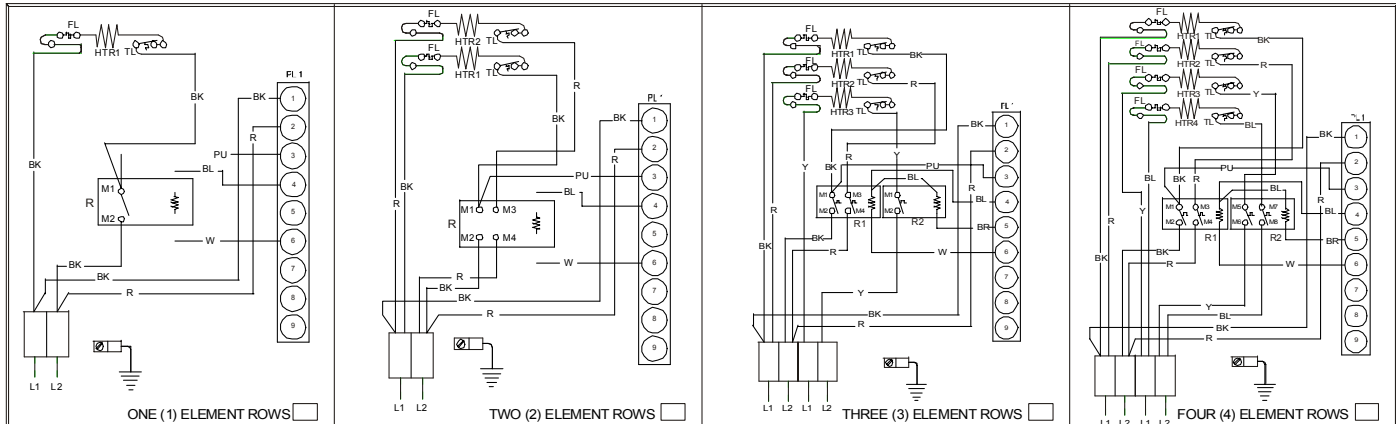
AEPF



**WARNING**

**HIGH VOLTAGE!**  
**DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**





AFTER INSTALLING OPTIONAL HEAT KIT, MARK AN "X" IN THE  PROVIDED ABOVE.  
 MARK ACCORDING TO NUMBER OF HEATER ELEMENT ROWS INSTALLED  
 NO MARK INDICATES NO HEAT KIT INSTALLED

\* SEE NOTE 7  
 LOW VOLTAGE  
 FIELD CONNECTION  
 BOX

COPPER  
 POWER SUPPLY  
 (SEE RATING PLATE)

EQUIPMENT GROUND  
 USE COPPER WIRE

208/240 VOLTS

TO LOW VOLTAGE  
 TERMINAL BOARD

SEE NOTE 5

SEE NOTE 2

SEE NOTE 1

SEE NOTE 4

SEE NOTE 7

|                   |               |                      |
|-------------------|---------------|----------------------|
| <b>COLOR CODE</b> |               | <b>WIRING CODE</b>   |
| W ___ WHITE       | G ___ GREEN   | ===== FACTORY WIRING |
| BK ___ BLACK      | PU ___ PURPLE | ----- HIGH VOLTAGE   |
| R ___ RED         | BR ___ BROWN  | ----- LOW VOLTAGE    |
| Y ___ YELLOW      | O ___ ORANGE  | ----- FIELD WIRING   |
| BL ___ BLUE       | PK ___ PINK   | ----- HIGH VOLTAGE   |
|                   |               | ----- LOW VOLTAGE    |

|   |                      |
|---|----------------------|
| <b>COMPONENT CODE</b>                     |                      |
| EM ___ EVAPORATOR MOTOR                   | TL ___ THERMAL LIMIT |
| PL ___ PLUG                               | HTR ___ HEAT ELEMENT |
| PJ2, PJ4, PJ6 ___ PROGRAM JUMPER          | R ___ RELAY          |
| VSTB ___ VARIABLE SPEED<br>TERMINAL BOARD | TR ___ TRANSFORMER   |
| FL ___ FUSE LINK                          |                      |

**NOTES:**

- FOR HEAT PUMP APPLICATIONS REMOVE ORANGE JUMPER WIRE BETWEEN O & Y1.
- FOR TWO STAGE ELECTRIC HEAT APPLICATIONS CUT PJ4. (USE ONLY ON #5 & 20 KW MODELS).
- FOR OUTDOOR THERMOSTAT OPERATION OF SECOND STAGE HEAT, CUT PJ2 & ADD OT18-60 TO OTC & OT2.
- FOR SINGLE STAGE COOLING APPLICATIONS CONNECT THERMOSTAT TO Y/Y2 ONLY, TAPE OR REMOVE Y1 CONNECTION. CONNECT CONDENSING UNIT TO YCON & C.
- WHEN HUMIDSTAT IS PROVIDED CUT PJ6. THERMOSTAT OPENS ON HUMIDITY RISE.
- RED WIRES TO BE ON TRANSFORMER TERMINAL 3 FOR 240 VOLTS AND ON TERMINAL 2 FOR 208 VOLTS.
- SEE COMPOSITE WIRING DIAGRAMS IN INSTALLATION INSTRUCTIONS FOR PROPER LOW VOLTAGE CONNECTIONS AND DETAILS ON COMPATIBLE THERMOSTATS AND THEIR CONNECTIONS.
- DISCARD ORIGINAL "PL1" PLUG CONNECTOR WHEN INSTALLING OPTIONAL HEAT KIT.

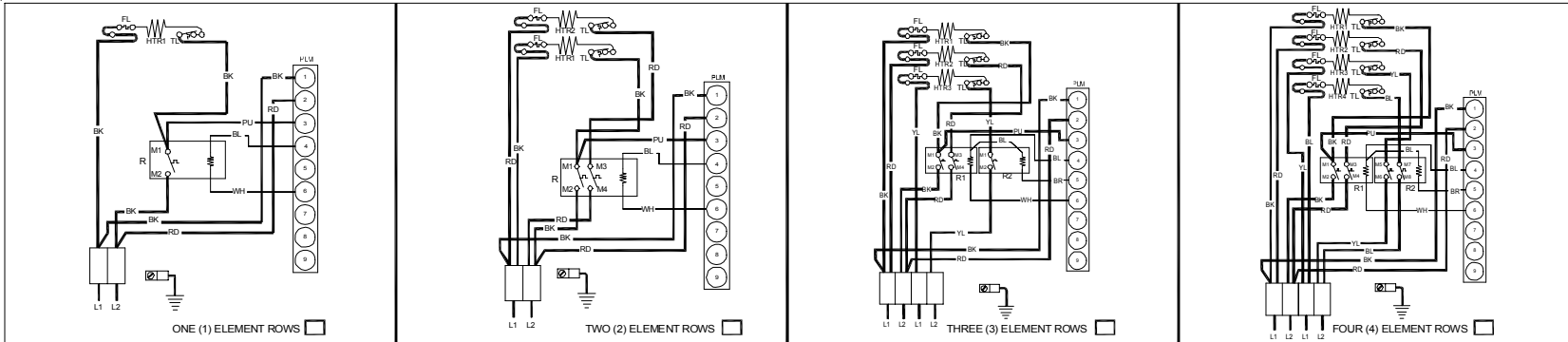
CONTROLS SHOWN WITH UTILITIES IN "ON" POSITION AND THERMOSTAT IN "OFF" POSITION.  
 IF REPLACEMENT OF THE ORIGINAL WIRES SUPPLIED WITH THIS ASSEMBLY IS NECESSARY, USE 105°C. WIRE. SIZE TO CONFORM TO THE NATIONAL ELECTRIC CODE.

0140A0000P

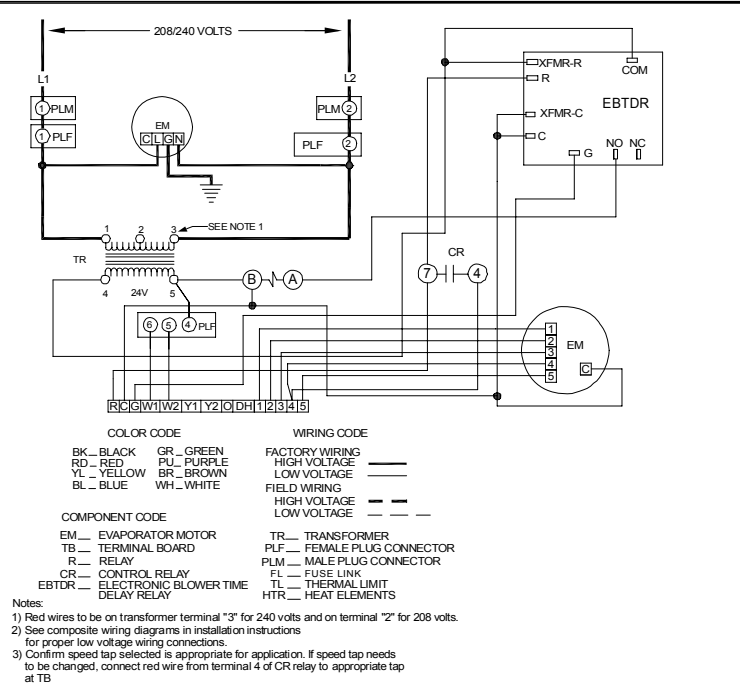
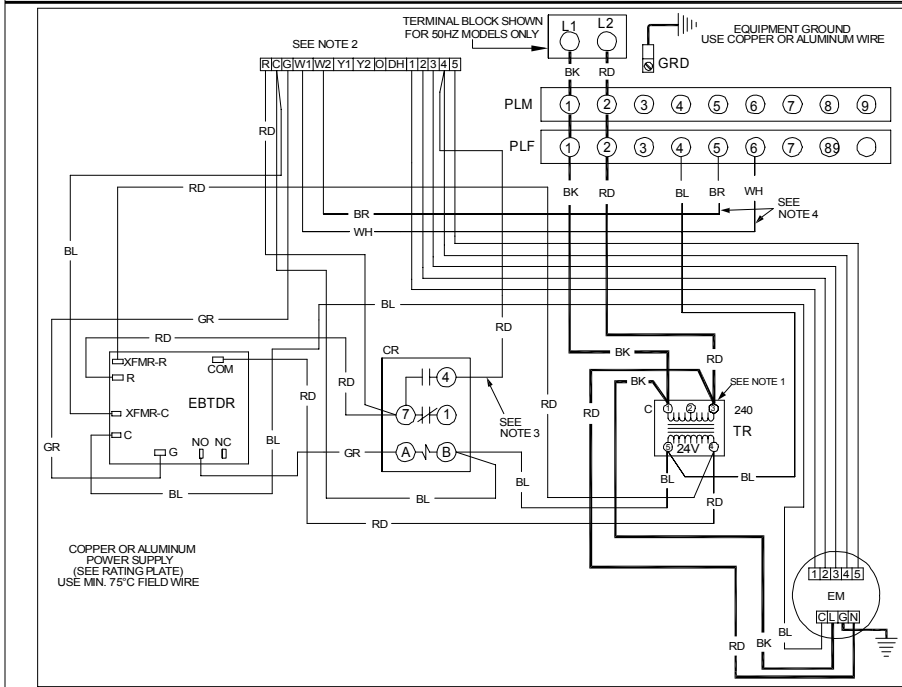
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

**WARNING**

**HIGH VOLTAGE!**  
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



NOTE: WHEN INSTALLING HEATER KIT, ENSURE SPEED TAP DOES NOT EXCEED MINIMUM BLOWER SPEED (MBS) SPECIFIED FOR THE AIRHANDLER/HEAT ER KIT COMBINATION ON THIS UNIT'S S&R PLATE. AFTER INSTALLING OPTIONAL HEAT KIT, MARK AN "X" IN THE  PROVIDED ABOVE. MARK ACCORDING TO NUMBER OF HEATER ELEMENT ROWS INSTALLED. NO MARK INDICATES NO HEAT KIT INSTALLED.



|             |             |                |             |
|-------------|-------------|----------------|-------------|
| COLOR CODE  |             | WIRING CODE    |             |
| BK _ BLACK  | GR _ GREEN  | FACTORY WIRING | —           |
| RD _ RED    | PU _ PURPLE | HIGH VOLTAGE   | — —         |
| YL _ YELLOW | BR _ BROWN  | LOW VOLTAGE    | — — —       |
| BL _ BLUE   | WH _ WHITE  | FIELD WIRING   | — — — —     |
|             |             | HIGH VOLTAGE   | — — — — —   |
|             |             | LOW VOLTAGE    | — — — — — — |

- Notes:
- 1) Red wires to be on transformer terminal "3" for 240 volts and on terminal "2" for 208 volts.
  - 2) See composite wiring diagrams in installation instructions for proper low voltage wiring connections.
  - 3) Confirm speed tap selected is appropriate for application. If speed tap needs to be changed, connect red wire from terminal 4 of CR relay to appropriate tap at TB.
  - 4) Brown and white wires are used with Heat Kit's only.

IF REPLACEMENT OF THE ORIGINAL WIRES SUPPLIED WITH THIS ASSEMBLY IS NECESSARY, USE WIRE THAT CONFORMS TO THE NATIONAL ELECTRIC CODE.

0140A00034

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.