

## FEATURES AND BENEFITS:

### APPLICATION VERSATILITY

Designed for the manufactured home market with flexibility in mind. One-piece air handler with the ability to be factory built as upflow (solid door) or downflow (louvered door) air handler. Can also be field configured to opposite configuration with the proper conversion kit. (Kits sold separately). 2 – 5 tons of cooling or heating airflow with a range of electric heat kits.

### MOTOR

Constant torque ECM, speeds and torque controlled by software to maintain constant torque\*. Direct drive blowers circulate air quietly and efficiently. Motor speeds and torques pre-programmed in the motor at the factory. Blowers mounted on rails so they can be easily removed for service.

### CABINET

Sturdy, galvanized steel cabinet with painted front panels. Cabinet fully insulated with 1/2" micro mat non-hygroscopic insulation to prevent sweating, to encapsulate glass fibers, and to provide excellent R-value. Mechanical fastening ensure insulation remains in place.

### MODULAR ELECTRIC HEAT KITS

Heat kits available with either circuit breakers or terminal blocks. Available from 3 to 20 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Modules are easily installed in the field using molex plugs or can be ordered factory-installed. Controls are accessible from the front for easy service. Disconnect does not protrude through the wall panel.

### ELECTRONIC CIRCUIT BOARD

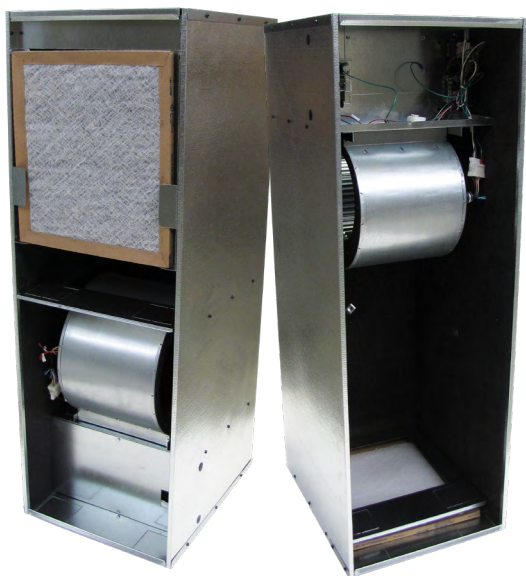
Electronic circuit board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil. Automotive pull-style fuse integrated into board for easy diagnosis and replacement of fuse.

### WARRANTY

Hassle-free five-year limited parts warranty.

### OPTIONS

See options menu.



Unit shown with service panels removed. Representative drawing only. Some models may vary in appearance. Due to continuous product improvement, specifications are subject to change without notice.

### BENEFITS & ENHANCEMENTS:

- One piece cabinet, reducing time and effort when field converting airflow orientation. Unit is convertible to either orientation with the correct door / accessories.
- Reduced air handler weight.
- Heat kits available in both field and factory installation kits.
- More room in cabinet for larger coils, as energy efficiencies increase, while maintaining overall cabinet dimensions.
- AEU/D-S & AEU/D-L one-piece cabinet design fits up to a 27.5 tall coil.
- Rail-mounted blower assembly easily removed for service.
- Electrical access from both sides of the cabinet.
- Redesigned control panel for enhanced interface to wiring and components.
- Sloped coil shelf for optimal condensate management.

\*Constant torque does not change as ESP increases/decreases



**WANT MORE INFORMATION ON  
ASPEN'S AED/AEU SERIES AIR  
HANDLERS?**

SCAN QR CODE TO VISIT THIS  
PRODUCT ON OUR WEBSITE



**For complete warranty details, please visit our Warranty Information tab when you visit Aspen's website.  
To view this coil's product information online for the most up-to-date information scan the QR Code.**

In keeping with its commitment to continuous improvement. Aspen Manufacturing reserves the right to make changes without notice and incurring obligation. To stay up-to-date with this product and Aspen's trusted line of coils, air handlers, and more, go to our website. AED/U Spec-2024-10-V003

# SPECIFICATIONS & PERFORMANCE:

## HEATING AND COOLING PERFORMANCE AND ELECTRICAL DATA

| MODEL | NOM. COOLING (BTU) | ELECTRIC HEAT KIT MODEL | PERFORMANCE DATA |              |         |                | ELECTRICAL DATA |                             |           |                           |         |
|-------|--------------------|-------------------------|------------------|--------------|---------|----------------|-----------------|-----------------------------|-----------|---------------------------|---------|
|       |                    |                         | SPEED TAP        | HEATING (KW) |         | TOTAL AMPS (A) |                 | MIN. CIRCUIT AMPACITY (MCA) |           | MAX. BREAKER OR FUSE SIZE |         |
|       |                    |                         |                  | 208V         | 240V    | 208V           | 240V            | 208V                        | 240V      | 208V                      | 240V    |
| AE*S  | 18,000 - 36,000    | F(C,T)LS00              | N/A              | 0.0          | 0.0     | 3.6            | 3.6             | 4.5                         | 4.5       | 15A                       | 15A     |
|       |                    | F(C,T)LS03              | TAP 1            | 2.3          | 3.0     | 14.4           | 16.1            | 18.0                        | 20.1      | 20A                       | 25A     |
|       |                    | F(C,T)LS05              | TAP 2            | 3.6          | 4.8     | 20.9           | 23.6            | 26.1                        | 29.5      | 30A                       | 30A     |
|       |                    | F(C,T)LS06              |                  | 4.5          | 6.0     | 25.2           | 28.6            | 31.5                        | 35.8      | 35A                       | 40A     |
|       |                    | F(C,T)LS08              |                  | 6.0          | 8.0     | 32.4           | 36.9            | 40.6                        | 46.2      | 45A                       | 50A     |
|       |                    | F(C,T)LS10              |                  | 7.2          | 9.6     | 38.2           | 43.6            | 47.8                        | 54.5      | 50A                       | 60A     |
|       |                    | F(C,T)LS15              | TAP 3            | 7.2/3.6      | 9.6/4.8 | 38.2/17.3      | 43.6/20.0       | 47.8/21.6                   | 54.5/25.0 | 50A/25A                   | 60A/25A |
| AE*L  | 36,000 - 60,000    | F(C,T)LL00              | N/A              | 0.0          | 0.0     | 7.0            | 7.0             | 9.5                         | 9.5       | 15A                       | 15A     |
|       |                    | F(C,T)LL03              | TAP 1            | 2.3          | 3.0     | 17.8           | 19.5            | 23.0                        | 25.1      | 25A                       | 30A     |
|       |                    | F(C,T)LL05              |                  | 3.6          | 4.8     | 24.3           | 27.0            | 31.1                        | 34.5      | 35A                       | 35A     |
|       |                    | F(C,T)LL06              |                  | 4.5          | 6.0     | 28.6           | 32.0            | 36.5                        | 40.0      | 35A                       | 45A     |
|       |                    | F(C,T)LL08              |                  | 6.0          | 8.0     | 35.8           | 40.3            | 45.6                        | 51.2      | 50A                       | 60A     |
|       |                    | F(C,T)LL10              | TAP 2            | 7.2          | 9.6     | 41.6           | 47.0            | 52.8                        | 59.5      | 60A                       | 60A     |
|       |                    | F(C,T)LL15              |                  | 7.2/3.6      | 9.6/4.8 | 41.6/17.3      | 47.0/20.0       | 52.8/21.6                   | 59.5/25.0 | 60A/25A                   | 60A/25A |
|       |                    | F(C,T)LL20              |                  | 7.2/7.2      | 9.6/9.6 | 41.6/34.6      | 47.0/40.0       | 52.8/43.3                   | 59.5/50.0 | 60A/45A                   | 60A/50A |

## ELECTRIC HEAT KIT NOMENCLATURE

| F             | C  | L*         | 00   |
|---------------|--|------------|--|
| ELECTRIC HEAT | <u>INTERRUPTION</u><br>C = CIRCUIT BREAKER<br>T = TERMINAL BLOCK | LS = 24-36 | <u>HEAT STRIP</u><br>00 = 0 KW<br>03 = 3 KW<br>05 = 5 KW<br>06 = 6 KW<br>08 = 8 KW<br>10 = 10 KW<br>15 = 15 KW               |
|               |  | LL = 36-60 | <u>HEAT STRIP</u><br>00 = 0 KW<br>03 = 3 KW<br>05 = 5 KW<br>06 = 6 KW<br>08 = 8 KW<br>10 = 10 KW<br>15 = 15 KW<br>20 = 20 KW |

## BLOWER DATA

| MODEL                    | SPEED TAP | MOTOR |      |         | CFM V EXTERNAL STATIC* |      |      |      |      |      |      |      |      |      |
|--------------------------|-----------|-------|------|---------|------------------------|------|------|------|------|------|------|------|------|------|
|                          |           | HP    | AMPS | VOLTAGE | 0.1                    | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| AE*-S<br>(18,000-36,000) | TAP 1     | 1/2   | 3.6  | 240     | 710                    | 650  | 590  | 530  | 470  | 460  | 410  | 340  | -    | -    |
|                          | TAP 2     |       |      |         | 770                    | 720  | 670  | 630  | 570  | 510  | 450  | 420  | 370  | 340  |
|                          | TAP 3     |       |      |         | 900                    | 850  | 810  | 800  | 705  | 660  | 610  | 560  | 510  | 480  |
|                          | TAP 4     |       |      |         | 1130                   | 1100 | 1060 | 1020 | 980  | 940  | 900  | 850  | 810  | 760  |
|                          | TAP 5     |       |      |         | 1310                   | 1280 | 1240 | 1200 | 1165 | 1130 | 1080 | 1050 | 1010 | 970  |
| AE*-L<br>(36,000-60,000) | TAP 1     | 1     | 7.0  | 240     | 1130                   | 1100 | 1060 | 1020 | 965  | 900  | 860  | 810  | 750  | 690  |
|                          | TAP 2     |       |      |         | 1340                   | 1300 | 1265 | 1230 | 1200 | 1155 | 1115 | 1050 | 1020 | 975  |
|                          | TAP 3     |       |      |         | 1490                   | 1450 | 1420 | 1400 | 1365 | 1330 | 1300 | 1270 | 1235 | 1170 |
|                          | TAP 4     |       |      |         | 1670                   | 1640 | 1610 | 1585 | 1550 | 1520 | 1500 | 1460 | 1430 | 1400 |
|                          | TAP 5     |       |      |         | 1850                   | 1825 | 1800 | 1770 | 1750 | 1720 | 1690 | 1670 | 1640 | 1620 |

\*Dry coil with Filter

## ONE PIECE WRAPPER - CONFIGURATION TABLE

| MODEL (DEFAULT) | CONFIGURATION (DEFAULT) | RETURN (DEFAULT) | DOOR (DEFAULT) | CONVERTIBLE TO                                 | KIT NEEDED FOR CONVERSION |
|-----------------|-------------------------|------------------|----------------|--|---------------------------|
| AED-S-003       | DOWNFLOW                | FRONT            | LOUVERED       | DOWNFLOW / FRONT & TOP RETURN<br>- LOUVER DOOR | AEXK-01                   |
|                 |                         |                  |                | DOWNFLOW / TOP RETURN<br>- SOLID DOOR          | AEXK-02                   |
| AED-L-003       |                         |                  |                | UPFLOW / BOTTOM RETURN<br>- SOLID DOOR         | AEXK-02                   |
| AEU-S-003       | UPFLOW                  | BOTTOM           | SOLID          | DOWNFLOW / FRONT RETURN<br>- LOUVER DOOR       | AEXK-03                   |
|                 |                         |                  |                | DOWNFLOW / FRONT & TOP RETURN<br>- LOUVER DOOR | AEXK-03                   |
| AEU-L-003       |                         |                  |                | DOWNFLOW TOP RETURN<br>- SOLID DOOR            | AEXK-01                   |
| AED-S-004       | DOWNFLOW                | FRONT & TOP      | LOUVERED       | DOWNFLOW / FRONT RETURN<br>- LOUVER DOOR       | AEXK-04                   |
|                 |                         |                  |                | DOWNFLOW / TOP RETURN<br>- SOLID DOOR          | AEXK-05                   |
| AED-L-004       |                         |                  |                | UPFLOW / BOTTOM RETURN<br>- SOLID DOOR         | AEXK-05                   |
| AED-S-005       | DOWNFLOW                | TOP              | SOLID          | DOWNFLOW / FRONT RETURN<br>- LOUVER DOOR       | AEXK-03                   |
|                 |                         |                  |                | DOWNFLOW / FRONT & TOP RETURN<br>- LOUVER DOOR | AEXK-03                   |
| AED-L-005       |                         |                  |                | UPFLOW / BOTTOM RETURN<br>- SOLID DOOR         | N/A                       |

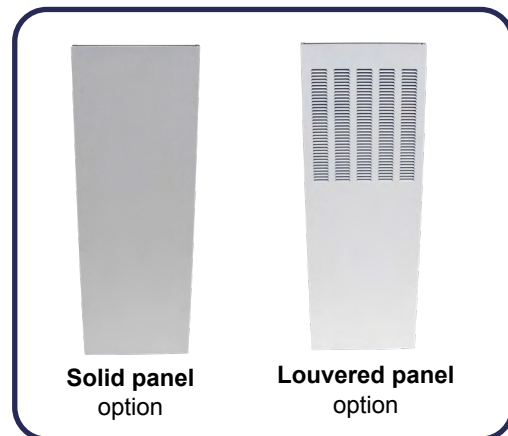
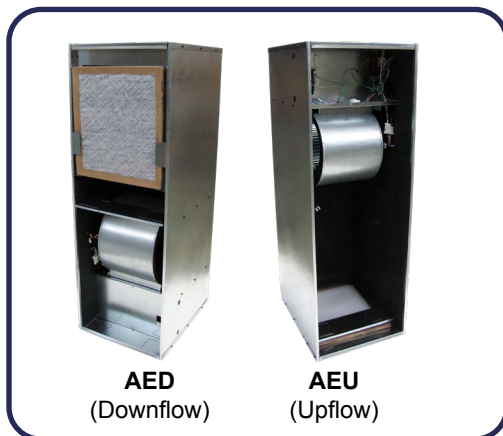
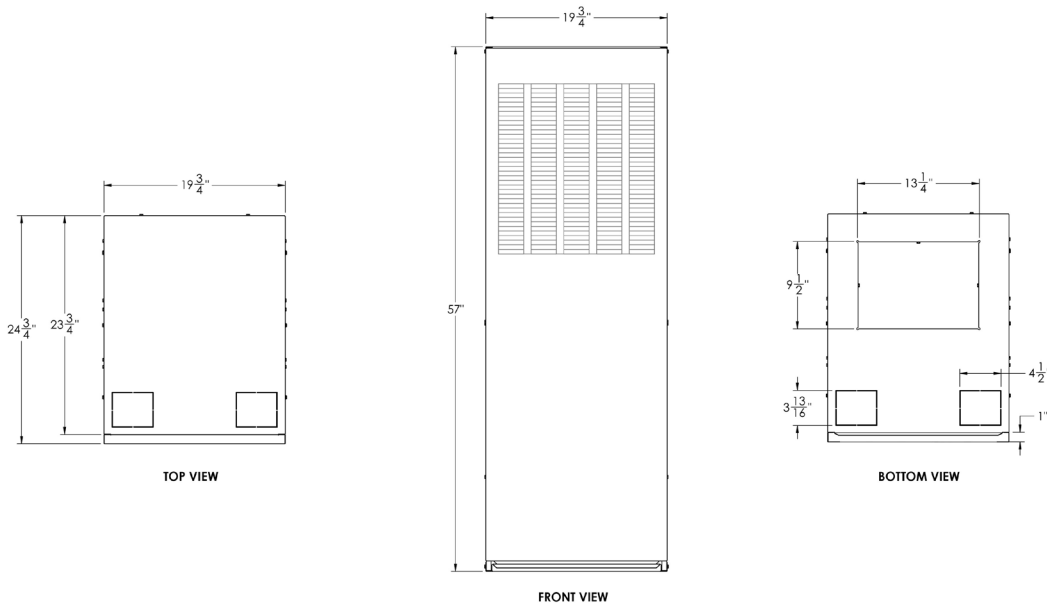
## AIR HANDLER CHASSIS NOMENCLATURE

| AE*                               | -S                   | -003        |
|-----------------------------------|----------------------|-------------|
| CONFIGURATION                     | NOM. TONNAGE (MBTUH) | OPTION CODE |
| U = UPFLOW / BOTTOM RETURN        |                      | 003         |
| D = DOWNFLOW / FRONT RETURN       | S = 18 TO 36<br>OR   | 004         |
| D = DOWNFLOW / FRONT & TOP RETURN | L = 36 TO 60         | 005         |
| D = DOWNFLOW / TOP RETURN         |                      | 005         |

## SHIPPING SPECIFICATIONS

| MODEL     | SHIP WEIGHT (LB) | SKID QTY |
|-----------|------------------|----------|
| AED-S-00* | 116              | 4        |
| AED-L-00* | 128              |          |
| AEU-S-00* | 111              |          |
| AEU-L-00* | 123              |          |

**Figure 1**



**FILTER SIZE:** 18x20x1 for all configurations.

In keeping with its commitment to continuous improvement, Aspen Manufacturing reserves the right to make changes without notice and incurring obligation. To stay up-to-date with this product and Aspen's trusted line of coils, air handlers, and more, go to our website.

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