

# AED/U SERIES MANUFACTURED HOUSING ELECTRIC FURNACE

## FEATURES, BENEFITS, DIMENSIONS, & SPECIFICATIONS



Unit shown with service panels removed. Representative image 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.

### APPLICATION VERSATILITY

Designed for the manufactured home market with flexibility in mind. One unit for all, Downflow (Front Return) or Upflow (Bottom Return) as shipped (field-convertible for downflow-front and top return and downflow-top return). 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.

- ETL listed for use with R-22, R-410A, R-454B, and R-32 when a proper metering device is used.
- In accordance to UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.

### 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** Five-year limited parts warranty.

**OPTIONS** See options menu.

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



**WANT MORE INFORMATION ON ASPEN'S AED/U 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.*

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AED/U-Spec-2025-03

| HEATING/COOLING PERFORMANCE & ELECTRICAL DATA |                          |                      |              |                 |             |                   |               |                                    |               |  |             |
|---|--------------------------|----------------------|--------------|-----------------|-------------|-------------------|---------------|------------------------------------|---------------|--|-------------|
| MODEL   | PERFORMANCE DATA         |                      |              |                 |             |                   |               | ELECTRICAL DATA                    |               |  |             |
|   | NOM.<br>COOLING<br>(BTU) | ELECTRIC<br>HEAT KIT | SPEED<br>TAP | HEATING<br>(KW) |             | TOTAL AMPS<br>(A) |               | MIN. CIRCUIT<br>AMPACITY<br>(MCA2) |               | MAX. BREAKER<br>OR FUSE SIZE<br>(MEU2) |             |
|   |                          |                      |              | 208V            | 240V        | 208V              | 240V          | 208V                               | 240V          | 208V                                   | 240V        |
| AE*S  | 18,000-<br>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           | T1           | 2.3             | 3.0         | 14.4              | 16.1          | 18.0                               | 20.1          | 20A                                    | 25A         |
|   |                          | F(C,T)LS05           | T2           | 3.6             | 4.8         | 20.9              | 23.6          | 26.1                               | 29.5          | 30A                                    | 30A         |
|   |                          | F(C,T)LS06           | T2           | 4.5             | 6.0         | 25.2              | 28.6          | 31.5                               | 35.8          | 35A                                    | 40A         |
|   |                          | F(C,T)LS08           | T2           | 6.0             | 8.0         | 32.4              | 36.9          | 40.6                               | 46.2          | 45A                                    | 50A         |
|   |                          | F(C,T)LS10           | T2           | 7.2             | 9.6         | 38.2              | 43.6          | 47.8                               | 54.5          | 50A                                    | 60A         |
|   |                          | F(C,T)LS15           | T3           | 7.2/3.6         | 9.6/<br>4.8 | 38.2/<br>17.3     | 43.6/<br>20.0 | 47.8/<br>21.6                      | 54.5/<br>25.0 | 50A/<br>25A                            | 60A/<br>25A |
| AE*L  | 30,000-<br>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           | T1           | 2.3             | 3.0         | 17.8              | 19.5          | 23.0                               | 25.1          | 25A                                    | 30A         |
|   |                          | F(C,T)LL05           | T1           | 3.6             | 4.8         | 24.3              | 27.0          | 31.1                               | 34.5          | 35A                                    | 35A         |
|   |                          | F(C,T)LL06           | T1           | 4.5             | 6.0         | 28.6              | 32.0          | 36.5                               | 40.0          | 35A                                    | 45A         |
|   |                          | F(C,T)LL08           | T1           | 6.0             | 8.0         | 35.8              | 40.3          | 45.6                               | 51.2          | 50A                                    | 60A         |
|   |                          | F(C,T)LL10           | T2           | 7.2             | 9.6         | 41.6              | 47.0          | 52.8                               | 59.5          | 60A                                    | 60A         |
|   |                          | F(C,T)LL15           | T2           | 7.2/<br>3.6     | 9.6/<br>4.8 | 41.6/<br>17.3     | 47.0/<br>20.0 | 52.8/<br>21.6                      | 59.5/<br>25.0 | 60A/<br>25A                            | 60A/<br>25A |
|   |                          | F(C,T)LL20           | T2           | 7.2/<br>7.2     | 9.6/<br>9.6 | 41.6/<br>34.6     | 47.0/<br>40.0 | 52.8/<br>43.3                      | 59.5/<br>50.0 | 60A/<br>45A                            | 60A/<br>50A |

| ELECTRIC HEAT KIT NOMENCLATURE |   |                          |   |
|--------------------------------|---|--------------------------|---|
| HEAT KIT SERIES                | POWER CONNECTION                          | CABINET SIZE & NOM. TON. | HEAT STRIP  |
| F                              | C   | L*                       | 00  |
| ELECTRIC<br>HEAT               | C = CIRCUIT BREAKER<br>T = TERMINAL BLOCK | LS = 24-36               | <b>00</b> = 0 KW <b>08</b> = 8 KW<br><b>03</b> = 3 KW <b>10</b> = 10 KW<br><b>05</b> = 5 KW <b>15</b> = 15 KW<br><b>06</b> = 6 KW                   |
|                                |   | LL = 36-60               | <b>00</b> = 0 KW <b>08</b> = 8 KW<br><b>03</b> = 3 KW <b>10</b> = 10 KW<br><b>05</b> = 5 KW <b>15</b> = 15 KW<br><b>06</b> = 6 KW <b>20</b> = 20 KW |

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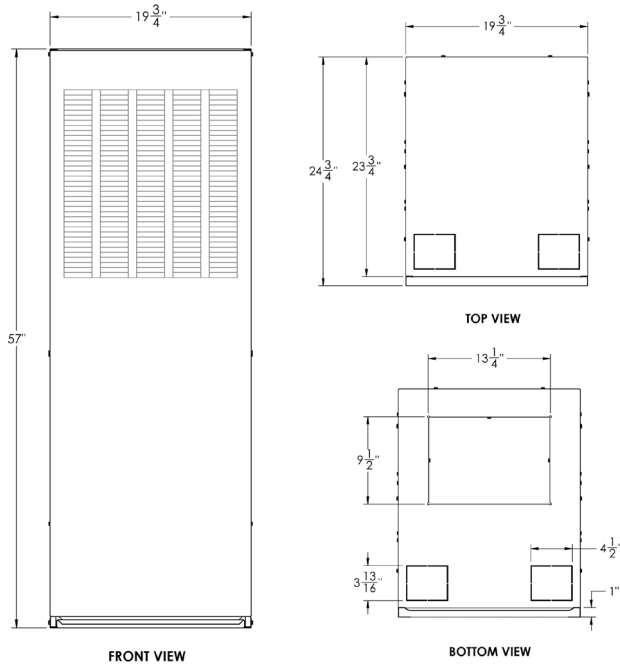
| BLOWER DATA |           |     |     |      |                                   |      |      |      |      |      |      |      |      |      |
|-------------|-----------|-----|-----|------|-----------------------------------|------|------|------|------|------|------|------|------|------|
| MODEL       | ECM MOTOR |     |     |      | CFM VS EXTERNAL STATIC (DRY COIL) |      |      |      |      |      |      |      |      |      |
|             | SPEED TAP | HP  | AMP | VOLT | 0.1                               | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| AE*-S       | T1        | 1/2 | 3.6 | 240  | 710                               | 650  | 590  | 530  | 470  | 460  | 410  | 340  | -    | -    |
|             | T2        |     |     |      | 770                               | 720  | 670  | 630  | 570  | 510  | 450  | 420  | 370  | 340  |
|             | T3        |     |     |      | 900                               | 850  | 810  | 800  | 705  | 660  | 610  | 560  | 510  | 480  |
|             | T4        |     |     |      | 1130                              | 1100 | 1060 | 1020 | 980  | 940  | 900  | 850  | 810  | 760  |
|             | T5        |     |     |      | 1310                              | 1280 | 1240 | 1200 | 1165 | 1130 | 1080 | 1050 | 1010 | 970  |
| AE*-L       | T1        | 1   | 7.0 |      | 1130                              | 1100 | 1060 | 1020 | 965  | 900  | 860  | 810  | 750  | 690  |
|             | T2        |     |     |      | 1340                              | 1300 | 1265 | 1230 | 1200 | 1155 | 1115 | 1050 | 1020 | 975  |
|             | T3        |     |     |      | 1490                              | 1450 | 1420 | 1400 | 1365 | 1330 | 1300 | 1270 | 1235 | 1170 |
|             | T4        |     |     |      | 1670                              | 1640 | 1610 | 1585 | 1550 | 1520 | 1500 | 1460 | 1430 | 1400 |
|             | T5        |     |     |      | 1850                              | 1825 | 1800 | 1770 | 1750 | 1720 | 1690 | 1670 | 1640 | 1620 |

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

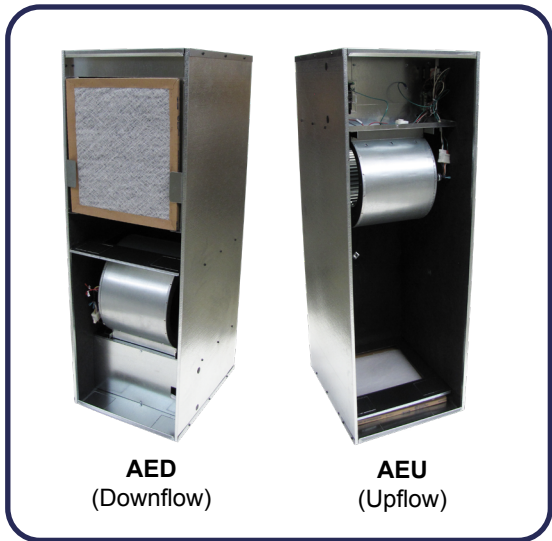
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| AIR HANDLER CHASSIS NOMENCLATURE  |  |             |
|-----------------------------------|--|-------------|
| CONFIGURATION                     | NOM. TONNAGE (MBTUH)                                     | OPTION CODE |
| AE*                               | -S   | -003        |
| U = UPFLOW / BOTTOM RETURN        | <b>S (SMALL) = 18 - 36</b><br><b>L (LARGE) = 36 - 60</b> | -003        |
| D = DOWNFLOW / FRONT RETURN       |  | -003        |
| D = DOWNFLOW / FRONT & TOP RETURN |  | -004        |
| D = DOWNFLOW / TOP RETURN         |  | -005        |

**FIGURE 1**

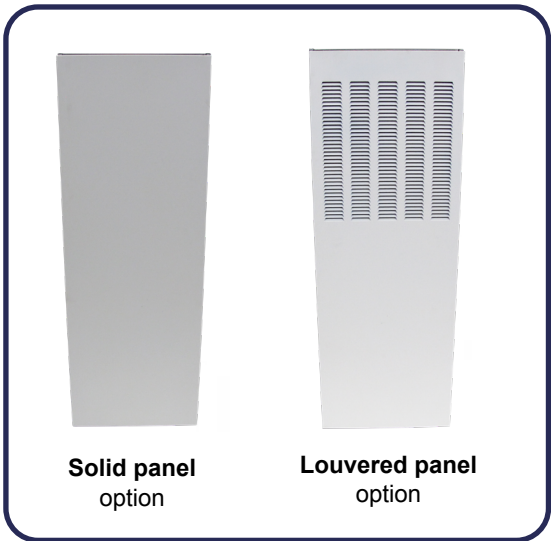


| SHIPPING SPECIFICATIONS |             |          |
|-------------------------|-------------|----------|
| MODEL                   | WEIGHT (LB) | SKID QTY |
| AED-S-00*               | 116         | 4        |
| AED-L-00*               | 128         |          |
| AEU-S-00*               | 111    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



**AED**  
(Downflow)

**AEU**  
(Upflow)



**Solid panel**  
option

**Louvered panel**  
option

FILTER SIZE: 18x20x1 for all configurations.

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