

AEC SERIES ELECTRIC HEAT AIR HANDLER

CEILING MOUNT



APPLICATION VERSATILITY

Built-in mounting tabs for ceiling or furrdown mounting. Louvered ceiling access panel has separate frame that attaches to ceiling joists. Solid access panel available for use with end return installations. Can be AHRI matched with most brands of air conditioners or heat pumps outdoor sections R32 or R454B REFRIGERANT when proper metering device is used.

- A2L refrigerants require a Refrigerant Detection System (RDS) for compliance. In accordance with UL 60335 Refrigerant Detection Systems are factory-installed on A2L refrigerant ready air handlers.
- ETL listed for R22 and 410A. ETL listed for R454B and R32 with Refrigerant Detection System (RDS).

MOTOR

Equipped with constant torque ECM speeds and torques are controlled by software embedded in the motor to maintain constant torque. Motors are pre-programmed at the factory.

CABINET

Sturdy, galvanized steel cabinet with knockout for duct return. The cabinet is fully insulated with 1/2" faced insulation to prevent sweating, to encapsulate glass fibers, and to provide excellent R-value. Stick pins ensure insulation remains in place. Less than 2% air leakage from cabinet when tested in accordance with ASHRAE standard 193. Unit must be installed according to Aspen installation instructions.

MODULAR HEAT KITS

Heat kits available with terminal blocks. Available in 3, 5, 8, & 10 KW. Models with electric heat include sequencers and temperature limit switches for safe, efficient operation. Easily accessible controls for quick

service. Disconnect does not protrude through the wall panel.

BLOWER

Direct drive multi-speed blowers circulate air quietly and efficiently. Motor speeds can be easily selected via motor terminals. Swing mounted blowers can be easily removed for service.

ELECTRONIC CIRCUIT BOARD

Electronic circuit, board provides 30 secs ON/OFF blower time delay extracting more heat/cool from the coil.

DX COIL

High-Efficiency rifled copper tubes/ enhanced aluminum fins provide maximum heat transfer. All coils immersion tested at 500 psi, then Nitrogen pressurized and factory sealed for maximum reliability Liquid-line Schrader allows pre-installation pressure assurance testing. Available with either check style flowrater or TXV metering device. Field installable TXVs are also available. Galvanized metal drain pan with bottom primary and secondary drain connections or alternate right side primary. All connections 3/4" NPT. Access door allows for coil cleaning.

WARRANTY Five-year limited parts warranty with registration.

OPTIONS See options menu.

AEC-SS-AH-018-A

HELPFUL LINKS



VIEW PRODUCT ONLINE

For full warranty terms and conditions, please refer to the Warranty Information section on Aspen's official website.



AHRI QUICK MATCH TOOL

Identify the correct AHRI-certified match for any Aspen coil, air handler, or Aspen PRO air handler. Available on the Resources page.



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| HEATING/COOLING PERFORMANCE & ELECTRICAL DATA | | | | | | | | | | |
|---|------------------|-------------------|---------|------|------------------|------|-----------------------|------|---------------------------|------|
| MODEL | PERFORMANCE DATA | | | | | | ELECTRICAL DATA | | | |
| | NOM. COOLING | ELECTRIC HEAT KIT | HEATING | | HEATING CAPACITY | | MIN. CIRCUIT AMPACITY | | MAX. BREAKER OR FUSE SIZE | |
| | | | KW | | MBTUH | | MCA2 | | MFU | |
| | BTU | | 208V | 240V | 208V | 240V | 208V | 240V | 208V | 240V |
| AEC 18 | 18,000 | G(C,T)S00 | 0 | 0 | 0 | 0 | 3.5 | 3.5 | 15 | 15 |
| | | G(C,T)S03 | 2.3 | 3 | 7.8 | 10.2 | 17.0 | 19.1 | 20 | 20 |
| | | G(C,T)S05 | 3.8 | 5 | 13.0 | 17.1 | 25.1 | 28.5 | 30 | 30 |
| | | G(C,T)S08 | 6.0 | 8 | 20.8 | 27.3 | 39.6 | 45.2 | 45 | 50 |
| | | G(C,T)S10 | 7.5 | 10 | 24.9 | 32.8 | 46.8 | 53.5 | 50 | 60 |
| AEC 24 | 24,000 | G(C,T)S00 | 0 | 0 | 0 | 0 | 3.5 | 3.5 | 15 | 15 |
| | | G(C,T)S03 | 2.3 | 3 | 7.8 | 10.2 | 17.0 | 19.1 | 20 | 20 |
| | | G(C,T)S05 | 3.8 | 5 | 13.0 | 17.1 | 25.1 | 28.5 | 30 | 30 |
| | | G(C,T)S08 | 6.0 | 8 | 20.8 | 27.3 | 39.6 | 45.2 | 45 | 50 |
| | | G(C,T)S10 | 7.5 | 10 | 24.9 | 32.8 | 46.8 | 53.5 | 50 | 60 |
| AEC 30 | 30,000 | G(C,T)S00 | 0 | 0 | 0 | 0 | 5.1 | 5.1 | 15 | 15 |
| | | G(C,T)S03 | 2.3 | 3 | 7.8 | 10.2 | 18.6 | 20.8 | 20 | 25 |
| | | G(C,T)S05 | 3.8 | 5 | 13.0 | 17.1 | 26.8 | 30.1 | 30 | 35 |
| | | G(C,T)S08 | 6.0 | 8 | 20.8 | 27.3 | 41.2 | 46.8 | 45 | 50 |
| | | G(C,T)S10 | 7.5 | 10 | 24.9 | 32.8 | 48.4 | 55.1 | 50 | 60 |
| AEC 36/37 | 36,000 | G(C,T)S00 | 0 | 0 | 0 | 0 | 5.1 | 5.1 | 15 | 15 |
| | | G(C,T)S03 | 2.3 | 3 | 7.8 | 10.2 | 18.6 | 20.8 | 20 | 25 |
| | | G(C,T)S05 | 3.8 | 5 | 13.0 | 17.1 | 26.8 | 30.1 | 30 | 35 |
| | | G(C,T)S08 | 6.0 | 8 | 20.8 | 27.3 | 41.2 | 46.8 | 45 | 50 |
| | | G(C,T)S10 | 7.5 | 10 | 24.9 | 32.8 | 48.4 | 55.1 | 50 | 60 |

| BLOWER DATA | | | | | | | | | |
|--------------|-----------|-----------|------|------|------------------------------------|------|------|------|------|
| MODEL | SPEED TAP | ECM MOTOR | | | CFM VS EXTERNAL STATIC* (WET COIL) | | | | |
| | | HP | AMPS | VOLT | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 |
| AEC 18/24 | T1 | 3/4 | 5.4 | 240 | 890 | 830 | 780 | 730 | 680 |
| | T2 | 3/4 | 5.4 | 240 | 750 | 680 | 640 | 600 | 560 |
| | T3 | 3/4 | 5.4 | 240 | 600 | 565 | 539 | 502 | 480 |
| | T4 | 3/4 | 5.4 | 240 | 750 | 830 | 780 | 730 | 560 |
| | T5 | 3/4 | 5.4 | 240 | 890 | 680 | 640 | 600 | 680 |
| AEC 30/36/37 | T1 | 1 | 7.0 | 240 | 1220 | 1160 | 1110 | 1070 | 1010 |
| | T2 | 1 | 7.0 | 240 | 1110 | 1075 | 1040 | 1010 | 980 |
| | T3 | 1 | 7.0 | 240 | 898 | 873 | 853 | 827 | 800 |
| | T4 | 1 | 7.0 | 240 | 1110 | 1075 | 1040 | 1010 | 980 |
| | T5 | 1 | 7.0 | 240 | 1220 | 1160 | 1110 | 1070 | 1010 |

* Wet coil with filter †For 208 operation multiply by 0.90

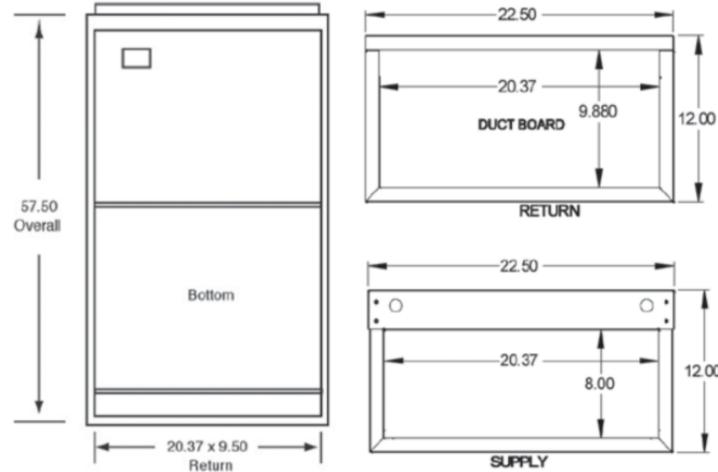
| ELECTRIC HEAT KIT NOMENCLATURE | | | |
|--------------------------------|---|--------------------------|---|
| HEAT KIT SERIES | POWER CONNECTION | CABINET SIZE & NOM. TON. | HEAT STRIP |
| G | C | S | 03 |
| CEILING MOUNT ELECTRIC HEAT | C = CIRCUIT BREAKER T = TERMINAL BLOCK | S (SMALL) 18-36 | 03 = 3 KW 08 = 8 KW 05 = 5 KW 10 = 10 KW |

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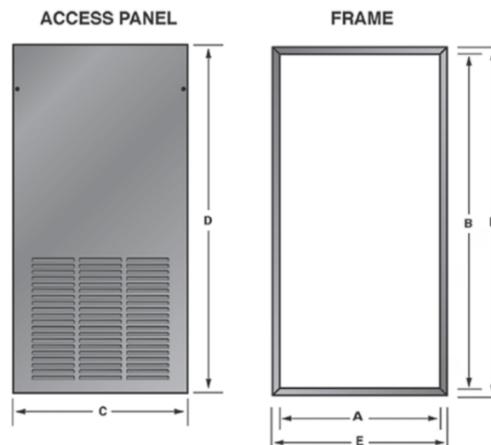
| AIR HANDLER CHASSIS NOMENCLATURE | | | |
|---|---|--|----------------|
| AEC | NOM. TON. | METERING DEVICE | OPTION CODE |
| | | 18 | F |
| 240V CONSTANT TORQUE ECM CEILING MOUNT | 18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 (MBTUH) | R410A + R22 | OPTION CODE |
| | | 4 = R410A (TXV NON-BLEED AC or HP) X = R22 (TXV NON-BLEED AC or HP) G = R410A (PISTON) B = R22 (TXV 20% BLEED AC or HP) F = R22 (PISTON) | |
| | | R454B + R32 | |
| | | J = R454B (TXV NON-BLEED AC or HP) K = R454B (TXV 20% BLEED AC or HP) D = R32 (TXV NON-BLEED AC or HP) M = R32 (PISTON) N = R454B (PISTON) | |

FIGURE 1



| AEC DIMENSIONS (In.) - Figure 1 | | | | | | | | |
|---------------------------------|-----------------|----------------|------------|----------------|-----------|--------|----------------|----------|
| MODEL | A | B | C | D | E | FILTER | SHIPPING INFO. | |
| | | | | | | | WEIGHT | SKID QTY |
| AEC18* | 57-1/2 [146] | 22-1/2 [57] | 12 [20] | 20-3/8 [52] | 8 [20] | 20X20 | 91 | 6 |
| AEC24* | | | | | | | 91 | |
| AEC30* | | | | | | | 100 | |
| AEC36*/37* | | | | | | | 100 | |

FIGURE 2



| CABINET INSTALLATION CLEARANCES (In.) | | |
|---------------------------------------|-----------|---------|
| CLEARANCE AREA | OPERATION | SERVICE |
| TOP | 0 | 0 |
| FRONT | | 30" |
| SIDES | | 0 |
| REAR | | 0 |

| AEC DIMENSIONS (In.) - Figure 2 | | | | | | | | |
|---------------------------------|--------------|--------------|----|-----------------|----|-----------------|--------|-------------|
| PANEL MODEL | FOR USE WITH | OPENING SIZE | | PANEL DIMENSION | | FRAME DIMENSION | | # OF PANELS |
| | | A | B | C | D | E | F | |
| CAD-4(S/L) | AEC | 23-3/4 | 58 | 24-3/4 | 60 | 24-5/8 | 59-7/8 | 2 |

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