

## 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 to 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.

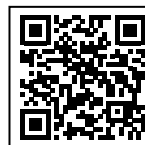
AEC-SS-AH-018-A

## 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 &amp; 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	
			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

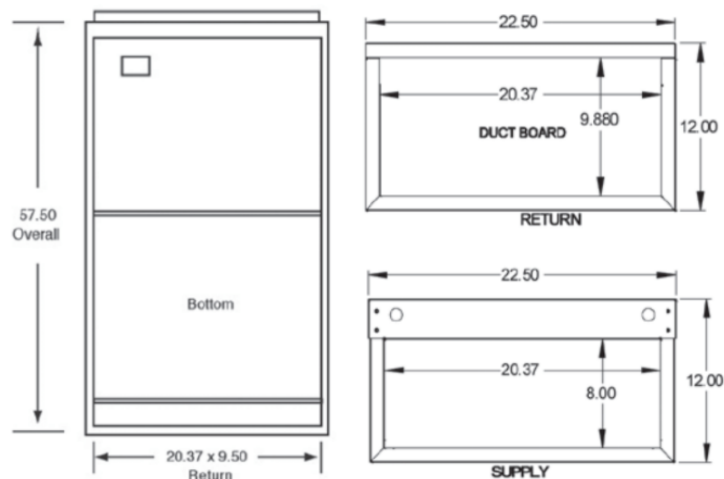
HEAT KIT SERIES	POWER CONNECTION	CABINET SIZE & NOM. TON.	HEAT STRIP
G	C	S	03
CEILING MOUNT ELECTRIC HEAT	C = CIRCUIT BREAKER T = TERMINAL BLOCK	S (SMALL) 18-36	03 = 3 KW 08 = 8 KW 05 = 5 KW 10 = 10 KW

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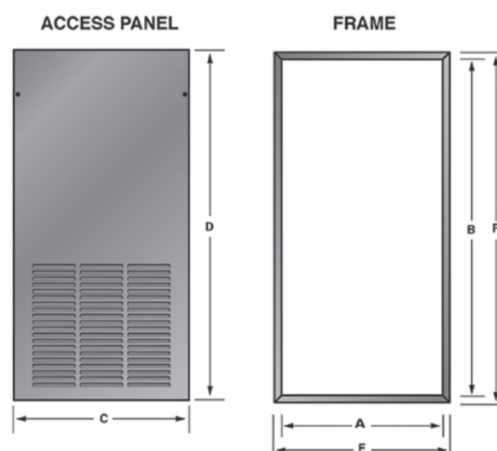
AIR HANDLER CHASSIS NOMENCLATURE				
AEC	NOM. TON.	METERING DEVICE	OPTION CODE	
	18	F	-001	
240V CONSTANT TORQUE ECM CEILING MOUNT	18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 (MBTUH)	R410A + R22		OPTION CODE
		4 = R410A (TXV NON-BLEED AC or HP) X = R22 (TXV NON-BLEED AC or HP) G = R410A (PISTON) 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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