



## INSTALLATION INSTRUCTIONS

### “E” Series Electric Heat Kits for Aspen Multi-Position Air Handlers

**▲ WARNING**

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.

The unit is designed for operation with 208/240 V, single phase, 60 Hz power supply. Aspen will not be responsible for damages caused due to modification of the unit to operate with alternative power sources.

This product designed and manufactured to permit installation in accordance with local and national building codes. It is the installer’s responsibility to ensure that product is installed in strict compliance with national and local codes. Manufacturer takes no responsibility for damage (personal, product or property) caused due to installations violating regulations. Installation of this unit shall be made in accordance with the National Electric Code, NFPA No. 90A and 90B, and any other local codes or utilities requirements.

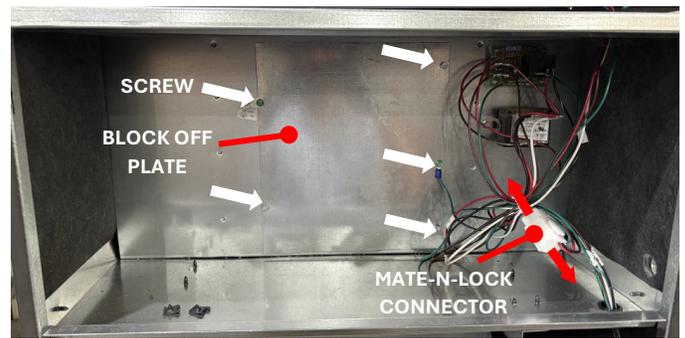
Do not bypass safety devices.

Electric Heat Kits						
	Kit #	Description		Kit #	Description	Model used
<b>W/ Terminal Block</b>	ETS03	3KW Heat Strip w/ Terminal Block	<b>W/ Circuit Breaker</b>	ECS03	3KW Heat Strip w/ Circuit Breaker	A(A,E)M   G(A,E)M 18,19,24,25
	ETS05	5KW Heat Strip w/ Terminal Block		ECS05	5KW Heat Strip w/ Circuit Breaker	
	ETS08	8KW Heat Strip w/ Terminal Block		ECS08	8KW Heat Strip w/ Circuit Breaker	
	ETS10	10KW Heat Strip w/ Terminal Block		ECS10	10KW Heat Strip w/ Circuit Breaker	L(A,E)M 24,25
	ETM03	3KW Heat Strip w/ Terminal Block		ECM03	3KW Heat Strip w/ Circuit Breaker	A(A,E)M   G(A,E)M 30,31,36,37
	ETM05	5KW Heat Strip w/ Terminal Block		ECM05	5KW Heat Strip w/ Circuit Breaker	
	ETM08	8KW Heat Strip w/ Terminal Block		ECM08	8KW Heat Strip w/ Circuit Breaker	
	ETM10	10KW Heat Strip w/ Terminal Block		ECM10	10KW Heat Strip w/ Circuit Breaker	L(A,E)M 26,30,31,32,36,37,38
	ETM15	5KW Heat Strip w/ Terminal Block		ECM15	15KW Heat Strip w/ Circuit Breaker	
	ETL03	3KW Heat Strip w/ Terminal Block		ECL03	3KW Heat Strip w/ Circuit Breaker	
	ETL05	5KW Heat Strip w/ Terminal Block		ECL05	5KW Heat Strip w/ Circuit Breaker	
	ETL08	8KW Heat Strip w/ Terminal Block		ECL08	8KW Heat Strip w/ Circuit Breaker	
	ETL10	10KW Heat Strip w/ Terminal Block		ECL10	10KW Heat Strip w/ Circuit Breaker	L(A,E)M 42,43,48,49,60,61,62
	ETL15	15KW Heat Strip w/ Terminal Block		ECL15	15KW Heat Strip w/ Circuit Breaker	

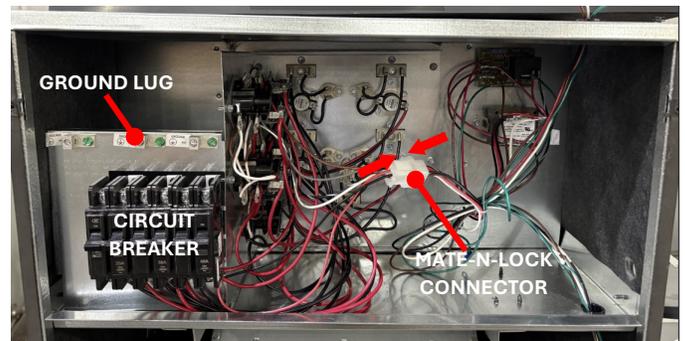
- 1) Refer to Table 1 for appropriate kit
- 2) Check kit for physical damage, do not install damaged kit
- 3) Remove the upper access panel from air handler
- 4) Unplug the Mate-n-Lock connector and Remove block-off plate or existing heater kit from air handler by removing 5 screws (see FIG. 2)
- 5) Slide the heater kit into the slot where you took the block off plate and secure it by replacing back the 5 screws (see FIG. 3)
- 6) Insert power leads into the circuit breaker lugs or terminal block and tighten (see FIG. 3)
- 7) Connect ground wire to ground lug (see FIG. 3)
- 8) Plug in the Mate-N-Lock connector (see FIG. 3)
- 9) Break out the appropriate number of circuit breaker openings (if applicable) on the upper access panel of the air handler



**FIG. 1 (ELECTRIC HEAT KIT)**



**FIG. 2**



**FIG. 3**

10) Find the nameplate of the air handler unit and cross out the existing configuration and check the new heat kit model configuration that was installed. Nameplate shown below is a sample only.





64786  
CONFORMS TO  
UL 60335-2-40  
CSA C22.2 No.  
60335-2-40

MEMBER  
**AIR-CONDITIONING, HEATING,  
& REFRIGERATION INSTITUTE**  
we make life better™

MODEL NO. : AAM36G-000+ECM15

SERIAL NO. : D25-0000002

VOLTS : 208 / 240

PH / HZ : 1 / 60

MOTOR HP : 0.33

MOTOR FLA : 2.600

TEST DUCT STATIC PRESS.: 0.5

REFRIGERANT : R-410A

MAXIMUM ALLOWABLE PRESS.: 500 PSIG / 3.45 MPa

FACTORY CHARGED NITROGEN : 150 PSIG / 1.034MPa

HEATER KIT MODEL NO.	ELECTRIC HEAT RATED (KW)	ELECTRIC HEAT ACTUAL (KW)		TOTAL UNIT AMPS		MINIMUM CIRCUIT AMPACITY		MAX FUSE OR BREAKER (HACR) AMPACITY		MIN. HEATING BLOWER SPEED
		208V	240V	208V	240V	208V	240V	208V	240V	
NO ELEC. HEAT	0 <input type="checkbox"/>	0	0	2.6	2.6	3.3	3.3	15	15	N/A
+ECM00P, +ETM00P	0 <input type="checkbox"/>	0	0	2.6	2.6	3.3	3.3	15	15	N/A
+ECM03P, +ETM03P	3 <input type="checkbox"/>	2.3	3	13.4	15.1	16.8	18.9	20	20	HI
+ECM05P, +ETM05P	5 <input type="checkbox"/>	3.6	4.8	19.9	22.6	24.9	28.3	25	30	HI
+ECM06P, +ETM06P	6 <input type="checkbox"/>	4.5	6	24.2	27.6	30.3	34	35	35	HI
+ECM08P, +ETM08P	8 <input type="checkbox"/>	6	8	31.4	35.9	39.3	44.9	40	45	HI
+ECM10P, +ETM10P	10 <input type="checkbox"/>	7.2	9.6	37.2	42.6	46.5	53.3	50	60	HI
+ECM15P, +ETM15P	15 <input checked="" type="checkbox"/>	10.8	14.4	37.2/17.3	42.6/20	46.5/21.6	53.3/25	50/25	60/25	HI

NOTE: RE-CHECK APPROPRIATE BOX  FOR HEATER KIT CHANGES IN THE FIELD.  
SUITABLE FOR 0 INCH CLEARANCE BETWEEN UNIT AND COMBUSTIBLE SURFACES AND 0 INCH CLEARANCE BETWEEN OUTLET PLENUM AND FIRST 3 FEET OF OUTLET DUCT AND COMBUSTIBLE SURFACES WHEN HEATERS ARE INSTALLED. MAXIMUM OUTLET AIR TEMPERATURE NOT TO EXCEED 197°F

11) Find the wiring diagram label that is included in the heat kit and stick it near the nameplate. Wiring Diagram shown below is a sample only.

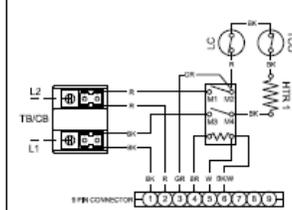
WD101026  
REV:1  
DATE:11/01/23

**APPLICATION:**  
HEATER ELEMENT QTY + 1  
HEATING CAPACITY + 3KW, 5KW

**COMPONENT CODE:**  
HTR - HEATER ELEMENT  
SEQ - SEQUENCER  
LC - LIMIT CONTROL  
TCO - THERMAL CUT OFF  
TB - TERMINAL BLOCK  
CB - CIRCUIT BREAKER

**COLOR CODE:**  
W - WHITE  
R - RED  
BK - BLACK  
BR - BROWN  
GR - GRAY  
BKW - BLACK/WHITE

**WIRING CODE:**  
HIGH VOLTAGE (FACTORY) \_\_\_\_\_  
HIGH VOLTAGE (FIELD) - - - - -



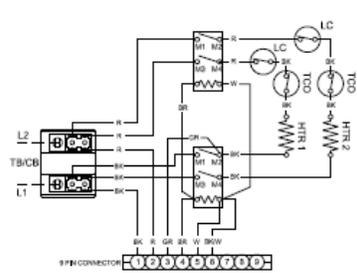
WD101026  
REV:1  
DATE:11/01/23

**APPLICATION:**  
HEATER ELEMENT QTY + 2  
HEATING CAPACITY + 6KW, 8KW, 10KW

**COMPONENT CODE:**  
HTR - HEATER ELEMENT  
SEQ - SEQUENCER  
LC - LIMIT CONTROL  
TCO - THERMAL CUT OFF  
TB - TERMINAL BLOCK  
CB - CIRCUIT BREAKER

**COLOR CODE:**  
W - WHITE  
R - RED  
BK - BLACK  
BR - BROWN  
GR - GRAY  
BKW - BLACK/WHITE

**WIRING CODE:**  
HIGH VOLTAGE (FACTORY) \_\_\_\_\_  
HIGH VOLTAGE (FIELD) - - - - -



## **HOW TO REPLACE A DEFECTIVE THERMAL CUT OFF (TCO) OF A HEATER KIT:**



Fig. 1 – TCO Image

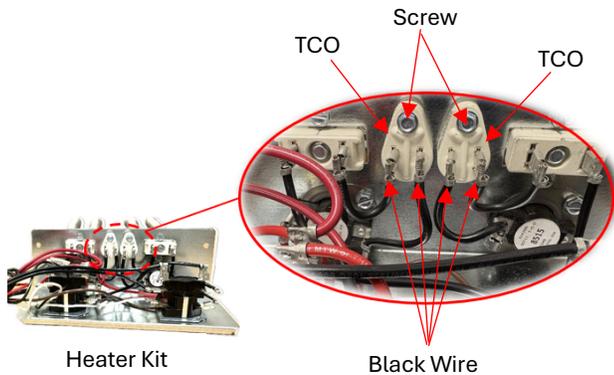


Fig. 2 – Heater Kit w/ TCO

1. Disconnect power, unscrew and open upper access panels to access the heater kit from the unit.
2. Locate the TCO(s) and disconnect the 2 black wires per TCO. Using a multimeter, measure continuity/resistance of the fuse element by placing the test probes across the two terminals to verify if the fuse has failed. The quantity of TCO's depends on the heater kit model. The heater kit model shown in Figure 2 has two TCOs.
3. Unscrew the defective TCO from the base plate and using the same screw(s) mount the new one back in the same spot.
4. Re-connect all the wirings in the same terminals that you disconnect it from.
5. Mount the access panel back in the unit.



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