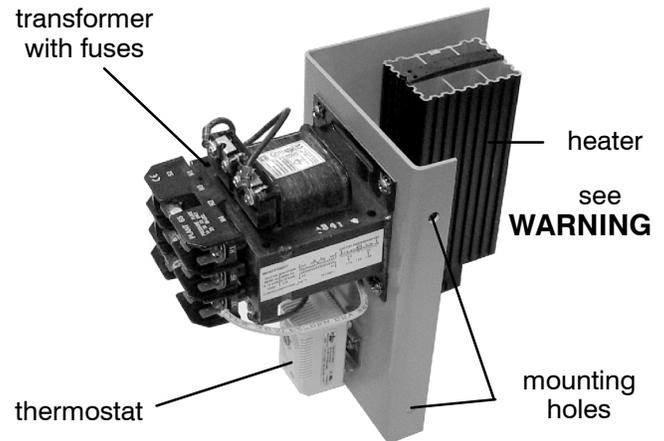


# Accessory 44 Heater Installation Instructions

# for ASCO® (ATS) Automatic Transfer Switches

The Accessory 44 Heater is designed to keep humidity and/or temperature within the ATS enclosure at acceptable levels. This accessory consists of a mounting bracket with heater, thermostat, and terminal block. A transformer with fuses is included when the power for the assembly is derived from the ATS. The 120 V ac customer powered assembly does not include a transformer. This accessory is available factory installed or in kit form. If already installed, turn the thermostat's dial to required setting.



## **⚠ DANGER**

**Deenergize all power to the Transfer Switch before opening the enclosure. Hazardous voltage capable of causing shock, burns, or death is used in this switch.**

## Mounting

1. After deenergizing both Normal and Emergency power sources and the Load, open the enclosure door. Carefully use a voltmeter to verify that all power is deenergized at the Transfer Switch power terminals
2. A *Mounting Hole Data* drawing is included on the next page. It specifies the typical locations and sizes of the heater assembly mounting holes for each ATS ampere rating size and design prefix letter. Drill two holes into the enclosure as indicated. J–design TS and E–design BP are door mounted.

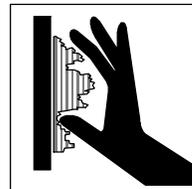
## **⚠ CAUTION**

**Protect the transfer switch from metal chips when drilling the holes. Clean up all debris inside the enclosure after drilling.**

3. Use the kit hardware supplied to mount the bracket to the inside of the enclosure. The thermostat should face the front of the enclosure after mounting the assembly. J–design TS and E–design BP are door mounted.

## **⚠ DANGER**

**Deenergize the conductors before making any connections. Open the Normal and Emergency source circuit breakers and be sure that the load is also deenergized.**



## **⚠ WARNING**

**To avoid burns, do not touch the heater surface which becomes hot during operation.**

## Wiring

1. A *Mounting Data* drawing is included on the next page. Select the appropriate view according to the Transfer Switch ampere rating and design prefix letter. If 120 V ac customer–furnished power will be used, go to step 2. If power will be from the Transfer Switch terminals, go to step 3.
2. **120 V ac customer–furnished power.** Run the 120 V ac line into the enclosure and connect the wires to TB terminals TB–1 and TB–2 on the heater assembly.
3. **Transfer Switch derived power.** Use #14 stranded wire to make a two–wire harness (not provided). Select the appropriate illustration on the *Mounting Data* drawing according to Transfer Switch ampere rating size and design prefix letter. Follow it to connect the Transfer Switch to the heater assembly. Connect one wire from transfer switch Load terminal LA to the heater assembly's fuse block terminal HI; connect the other wire from Load terminal LC to terminal HF on the fuse block. Double check all wiring before continuing.

## **⚠ CAUTION**

**Keep all wiring away from the heater surface.**

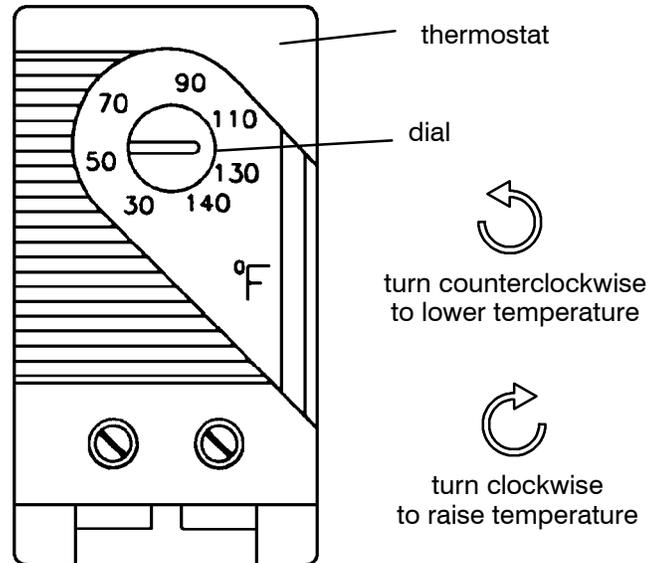
4. Turn the thermostat's dial to desired setting. Then close the enclosure door.
5. After the door is closed, reenergize the ATS (close Normal and Emergency source circuit breakers and reenergize the load). If a separate 120 V ac line was used for the accessory, energize that line.

**⚠ DANGER**

**Deenergize all power to the Transfer Switch before opening the enclosure. Hazardous voltage capable of causing shock, burns, or death is used in this switch.**

### Operation

1. After deenergizing both Normal and Emergency power sources and the Load, open the enclosure door. Carefully use a voltmeter to verify that all power is deenergized at the Transfer Switch power terminals
2. Turn the thermostat's dial to desired setting. Then close the enclosure door.
3. After the door is closed, reenergize the ATS (close Normal and Emergency source circuit breakers and reenergize the load). If a separate 120 V ac line was used for the accessory, energize that line.



**⚠ WARNING**

**To avoid burns, do not touch the heater surface which becomes hot during operation.**

TS ENCLOSURES  
WELDED CONSTRUCTION

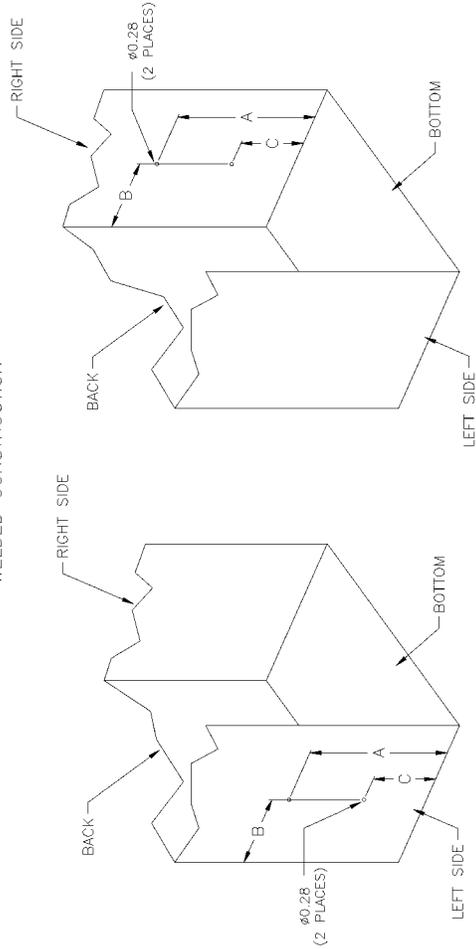


FIGURE "A"

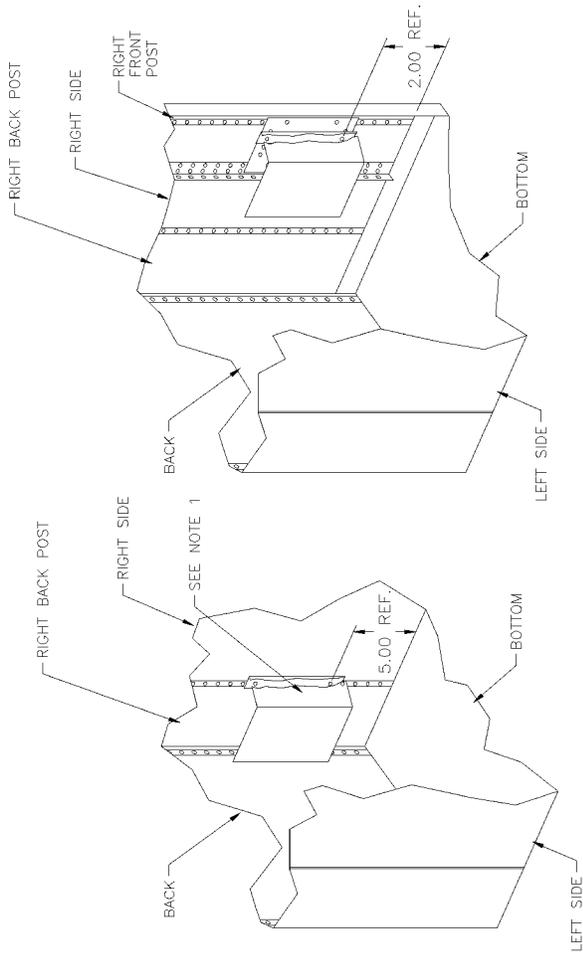
FIGURE "B"

TABLE 1. HEATER MOUNTING LOCATIONS (REFERENCE ONLY)

FRAME SIZE	AMPS	DIMENSION			FIGURE
		A	B	C	
D	30-230	8.00	5.50	2.00	A
E	260-400	11.00	6.50	5.00	A
F	600-800	11.00	8.75	5.00	A
H	600-1000	11.00	5.00	5.00	A
	1200	11.00	11.00	5.00	B
G	1000-2000	11.00	11.00	5.00	B

NOTES:

1. MOUNTING LOCATIONS FOR HEATER ASSEMBLIES SHIPPED AS KITS (WITHOUT TS) TO BE DETERMINED BY THE CUSTOMER. TABLE 1 TO BE USED AS A REFERENCE.



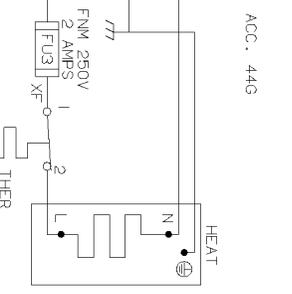
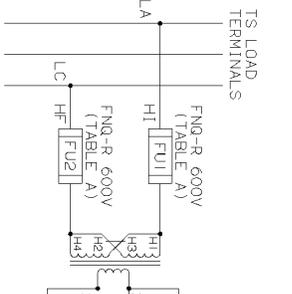
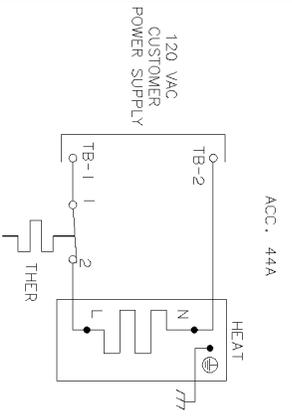
TS OR BP CUBICLE CONSTRUCTION

"J" BP CUBICLE CONSTRUCTION

NOTES:

1. FACE THERMOSTAT CONTROL TO THE REAR FOR BACK CONNECTED UNITS AND TO THE FRONT FOR FRONT CONNECTED UNITS.

PROJECT NAME:	217034	IPB	REV	02/07/08
ISSUE:				
DATE:				
PROJECT NO.:				
SCALE:	1:1	SIZE:	DS	
PROJECT:	MOUNTING HOLE LOCATIONS FOR			
INSTALLING ACC.:	44A/44G			
DATE:				
BY:				
CHECKED:				
APPROVED:				
ASCO	ASCO Power Technologies, L.P.			
ASCO	Customer Service Dept. 217034			
ASCO	538507			
ASCO	REV. 217034			
ASCO	1 OF 1			

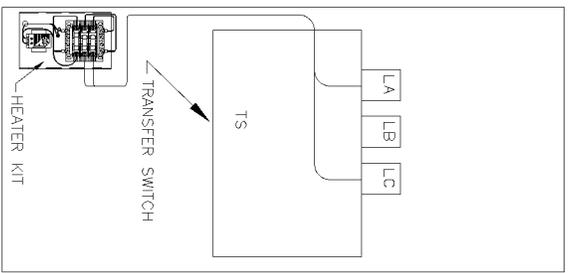


VOLTS	FUSE (PRIMARY)
208-240V	1 1/2 AMP
380V	8/10 AMP
460-480V	6/10 AMP
550-600V	6/10 AMP

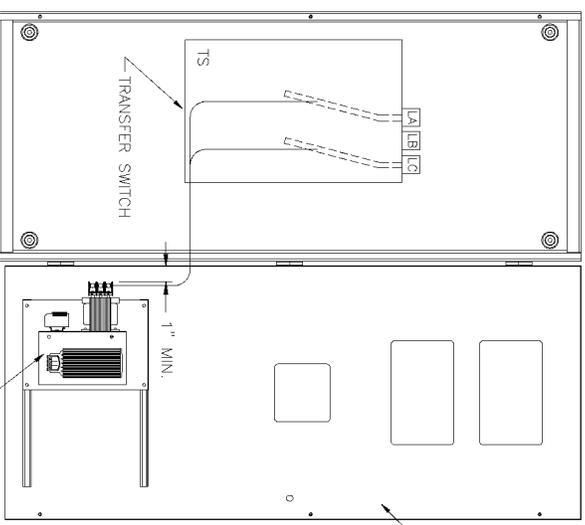
DIAGRAM (CUSTOMER SUPPLY 120V)

DIAGRAM (208-240V & 440-480V)

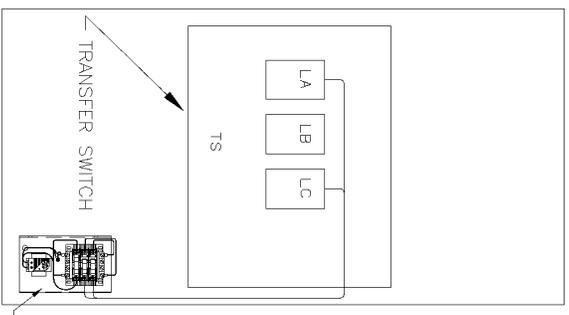
DIAGRAM (380V & 550-600V)



"D" TS 30-230 AMP  
 "E" TS 260-400 AMP  
 "F" TS 600-800 AMP  
 "H" TS 600-1000 AMP



"J" TS 150-600 AMP  
 "E" BP 150-400 AMP



"G" TS 1000-2000 AMP  
 "G" TS 2600-3000 AMP  
 "H" TS 1200 AMP  
 "H" BP 600-1200 AMP  
 "J" BP 150-600 AMP

- NOTE:
- DRAWINGS ARE NOT TO SCALE
  - USE EXISTING HOLES ON ENCLOSURE TO MOUNT HEATER KIT FOR 1600-3000 AMPS TS ENCLOSURE.

PROJECT NAME	OUTLINE
DISTRIBUTION	
INSTALLATION	
HEATER KITS	
DATE	DATE
BY	BY
CHECKED	CHECKED
APPROVED	APPROVED
DATE	DATE
SCALE	SCALE
PROJECT NO.	PROJECT NO.
REV. NO.	REV. NO.
REV. DATE	REV. DATE
REV. DESCRIPTION	REV. DESCRIPTION
REV. 1	REV. 1
REV. 2	REV. 2
REV. 3	REV. 3
REV. 4	REV. 4
REV. 5	REV. 5
REV. 6	REV. 6
REV. 7	REV. 7
REV. 8	REV. 8
REV. 9	REV. 9
REV. 10	REV. 10
REV. 11	REV. 11
REV. 12	REV. 12
REV. 13	REV. 13
REV. 14	REV. 14
REV. 15	REV. 15
REV. 16	REV. 16
REV. 17	REV. 17
REV. 18	REV. 18
REV. 19	REV. 19
REV. 20	REV. 20
REV. 21	REV. 21
REV. 22	REV. 22
REV. 23	REV. 23
REV. 24	REV. 24
REV. 25	REV. 25
REV. 26	REV. 26
REV. 27	REV. 27
REV. 28	REV. 28
REV. 29	REV. 29
REV. 30	REV. 30
REV. 31	REV. 31
REV. 32	REV. 32
REV. 33	REV. 33
REV. 34	REV. 34
REV. 35	REV. 35
REV. 36	REV. 36
REV. 37	REV. 37
REV. 38	REV. 38
REV. 39	REV. 39
REV. 40	REV. 40
REV. 41	REV. 41
REV. 42	REV. 42
REV. 43	REV. 43
REV. 44	REV. 44
REV. 45	REV. 45
REV. 46	REV. 46
REV. 47	REV. 47
REV. 48	REV. 48
REV. 49	REV. 49
REV. 50	REV. 50

ASCO  
 ASCO Thermal Equipment, U.S.A.  
 611911  
 21357