

# Chromalox®

## Installation, Operation and RENEWAL PARTS IDENTIFICATION

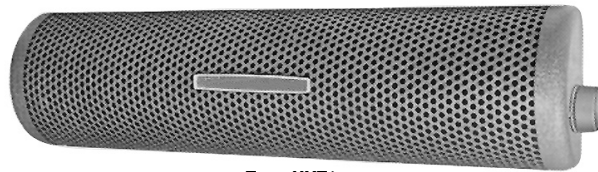
### SERVICE REFERENCE

DIVISION 4	SECTION EH-HVT
SALES REFERENCE (Supersedes PF421-5)	PF421-6
	161-048557-001
DATE APRIL, 2003	

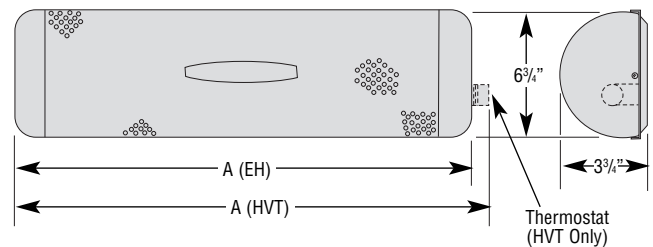
## Type EH and HVT Electric Utility Heater



Type EH



Type HVT\*



Specifications – Table A

Model	VoltS	WattS	Dim. "A" (In.)	BTUH
EH-1221	120	250	14 <sup>5</sup> / <sub>8</sub>	853
EH-1221	240	250	14 <sup>5</sup> / <sub>8</sub>	853
EH-1251	120	500	14 <sup>5</sup> / <sub>8</sub>	1706
EH-1251	240	500	14 <sup>5</sup> / <sub>8</sub>	1706
HVT-1251*	120	500	28 <sup>5</sup> / <sub>8</sub>	1706
HVT-2411*	120	1000	28 <sup>5</sup> / <sub>8</sub>	3412

\*HVT models are equipped with a 55°F to 110°F adjustable thermostat.

**NOTICE:** Carefully remove heater from carton and check for shipping damage. Any damage claims should be entered immediately with the carrier.

### GENERAL

#### ⚠ WARNING

**FIRE HAZARD.** Since heaters are capable of developing high temperatures, extreme care should be taken to:

- Locate on vertical wall with length of heater positioned horizontally. HVT models must be installed with thermostat at right end;
- Avoid mounting into a wall recess since such mounting interferes with free air circulation, increases heater temperatures, and prevents proper thermostat operation on HVT models;
- Mount heaters with a minimum clearance of 24" above floor level or from adjacent wall;

**D.** Keep all combustible materials a minimum of 4" from front and top of heater.

- Remove screw from each end and remove perforated cover.
- After feeding electrical wiring through opening in back of heater (See WIRING section), mount back of heater to wall with four screws (HVT models-5/16" diameter holes on 5" x 25-7/8") (EH models 9/32" diameter holes on 5x12-1/2" centers) through back of heater. Leave one pair of end screws snug, but not tight, to avoid expansion noise due to binding.

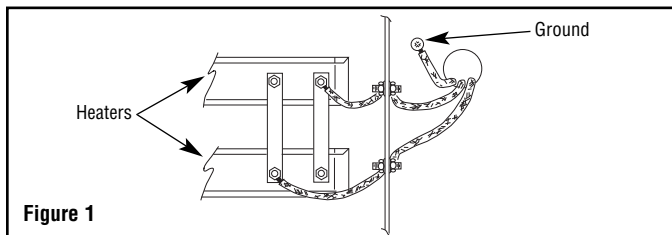
## WIRING

### ⚠ WARNING

**ELECTRIC SHOCK HAZARD. Disconnect all power before installing or servicing heater. Failure to do so could result in personal injury or property damage. Heater must be installed by a qualified person in accordance with the National Electrical Code, NFPA 70.**

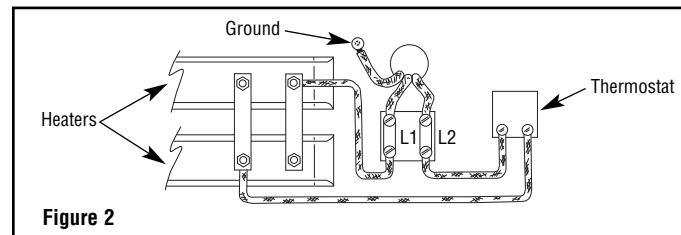
### ⚠ WARNING

**ELECTRIC SHOCK HAZARD. Any installation involving electric heaters must be performed by a qualified person and must be effectively grounded in accordance with the National Electrical Code to eliminate shock hazard.**



**Note:** Electrical wiring is to be in accordance with National Electrical Code.

1. Electrical wiring enters heater case through 7/8" opening in back of heater.
2. Grounding conductor, with green insulation, should be secured under green colored ground screw located in wiring compartment. (See Figures 1 and 2).
3. HVT Model only — The white insulated lead of the incoming power line should be attached to the L1 terminal of the terminal block. (See Figure 2)
4. Replace cover and end screws (removed in step 4, **MOUNTING** section).



## OPERATION

### ⚠ WARNING

**FIRE HAZARD. Keep combustible materials and such fabrics at least 4" away from front of cover or above cover. Failure to comply could result in personal injury or property damage.**

### ⚠ WARNING

**FIRE/EXPLOSION HAZARD. This heater is not intended for use in hazardous atmospheres where flammable vapors, gases, liquids or other combustible atmospheres are present as defined in the National Electrical Code. Failure to comply can result in personal injury or property damage.**

## MAINTENANCE

### ⚠ WARNING

**ELECTRIC SHOCK HAZARD. Disconnect all power before installing or servicing heater. Failure to do so could result in personal injury or property damage. Heater must be installed by a qualified person in accordance with the National Electrical Code, NFPA 70.**

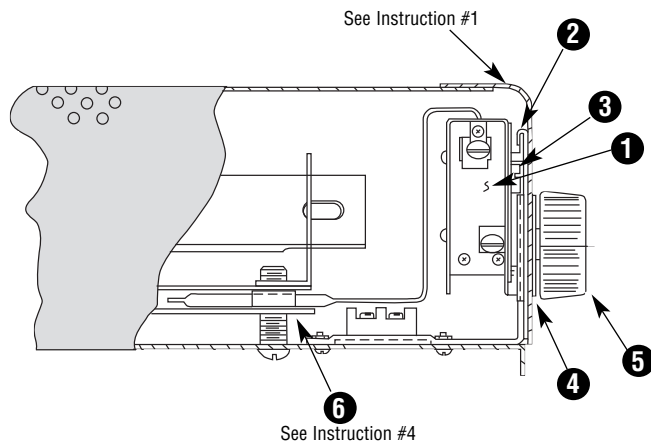
1. Following long periods of idleness, heater should be vacuumed before start-up to remove accumulated combustible particles which will incinerate causing smoking and consequent wall discoloration.
2. If heater is located in areas of heavy traffic, furnish suitable heater guard (wall mounted pipe rail in front of case, for example) to prevent damage to heater.

## RENEWAL PARTS IDENTIFICATION

Model	Watts	Front Cover	Heating Elements		Terminal Block	Thermostat Kit (See Below)
			120V	240V		
EH-1221	250	080-016362-002	285-051049-001	285-051049-002	_____	_____
EH-1251	500	080-016362-002	285-051049-001 (2)	285-051049-002 (2)	_____	_____
HVT-1251	500	080-016362-003	285-051049-006	_____	303-047610-005	168-073659-001
HVT-2411	1000	080-016362-003	285-051049-006 (2)	_____	303-047610-005	168-073659-001

**Note:** Part numbers suffixed by a number in ( ) indicates the quantity of same part number used.

## THERMOSTAT REPLACEMENT PROCEDURE



Thermostat Kit (168-073659-001)			
Item No.	Qty.	Part No.	Description
1	1	300-072275-007	Thermostat
2	1	027-073304-002	Bracket — Mounting
3	2	248-048179-020	Screws
4	1	220-072276-003	Plate-Dial Thermostat
5	1	169-073294-001	Knob
6	1	056-073305-001	Clamp — Capillary Bulb

### Thermostat Replacement Instructions:

1. Remove cover.
2. Slide thermostat mounting bracket over existing plate.
3. Using item 3 (screws) assemble item 1 (thermostat) to item 2 (bracket).
4. Remove bolt and assemble item 6 capillary clamp and capillary bulb and re-install bolt. Note: Do not pinch bulb in clamp, thermostat decalibration will result.
5. Assemble item 4 (plate) and item 5 (knob).
6. Re-install cover.

**Limited Warranty:**  
Please refer to the Chromalox limited warranty applicable to this product at  
<http://www.chromalox.com/customer-service/policies/termsofsale.aspx>.

**Chromalox<sup>®</sup>**  
**PRECISION HEAT AND CONTROL**

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