

# INSTALLATION INSTRUCTIONS

## "J" CLASSIC COMMERCIAL FINNED-TUBE RADIATION JV3/JV4-AR7

Not recommended to be used with steam applications due to element pitch requirements.

- Determine quantities of enclosure and accessories required per wall or run. If installation is wall-to-wall, run backplate to within ½" of adjoining wall(s). If run ends with end cap, extend backplate beyond end of required enclosure 1-1/2" for 4" end and 6" for 8-3/8" end.
- Mount backplate (full or partial) to wall at prescribed height (Refer to Submittal Drawing) making sure that it is level. If valve compartments are being used, make sure that an equivalent amount of backplate is installed.
- When installation calls for partial backplate, install two (2) water brackets, using a standoff/gauge piece to locate the vertical position, per enclosure length up to 6'-0" of length. Use three (3) water brackets, using a standoff/gauge piece to locate the vertical position, per cover 6'-6" up to 8'-0" of length. Valve compartments should have a minimum of one (1) bracket. Insert the notched end of the bracket standoff gauge piece into the top of the wall mounted water bracket and butt the 90° flange at the top of the standoff/gauge piece against the 90° bottom flange of the partial backplate. The standoff/gauge piece can be removed after the water bracket has been secured to the wall and re-used to position the remaining water brackets in the run. Accessories do not require brackets.
- When installation calls for full backplate, insert the notched end of the bracket standoff gauge piece into the top of the wall mounted water bracket. Then slide them up into the 'V' bend of the full backplate. Secure brackets to wall using fasteners (as specified) by others.
- Lay out heating element as required. Place slide cradle onto the bottom of element at each bracket location. The element cradle has two legs that angle out slightly. Position the legs between the fins so there is tension against the legs. This holds the cradles in position. Check submittal drawing for correct position of element fin. **For copper tube elements, flush the loop or series with system water after soldering to neutralize the remaining flux material and prevent corrosive action and resulting pinhole leaks.**
- The enclosure can now be installed. Start enclosure at left end of run working clockwise. The enclosure grille support gussets mount directly into the 'V' bend of backplate. Firmly push next piece of cover into slip joint tabs of piece on left until run is completed. Secure bottom of enclosure into brackets. Tighten the posi-loc clamps to secure the enclosure.
- Install overlapping accessories as indicated on room schedule. All accessories are overlapping. Valve Compartments are installed the same as enclosure. The top back bend is slipped between the wall and the backplate. The accessory bottom returns to the wall and is secured with fasteners by others.

### **MAINTENANCE**

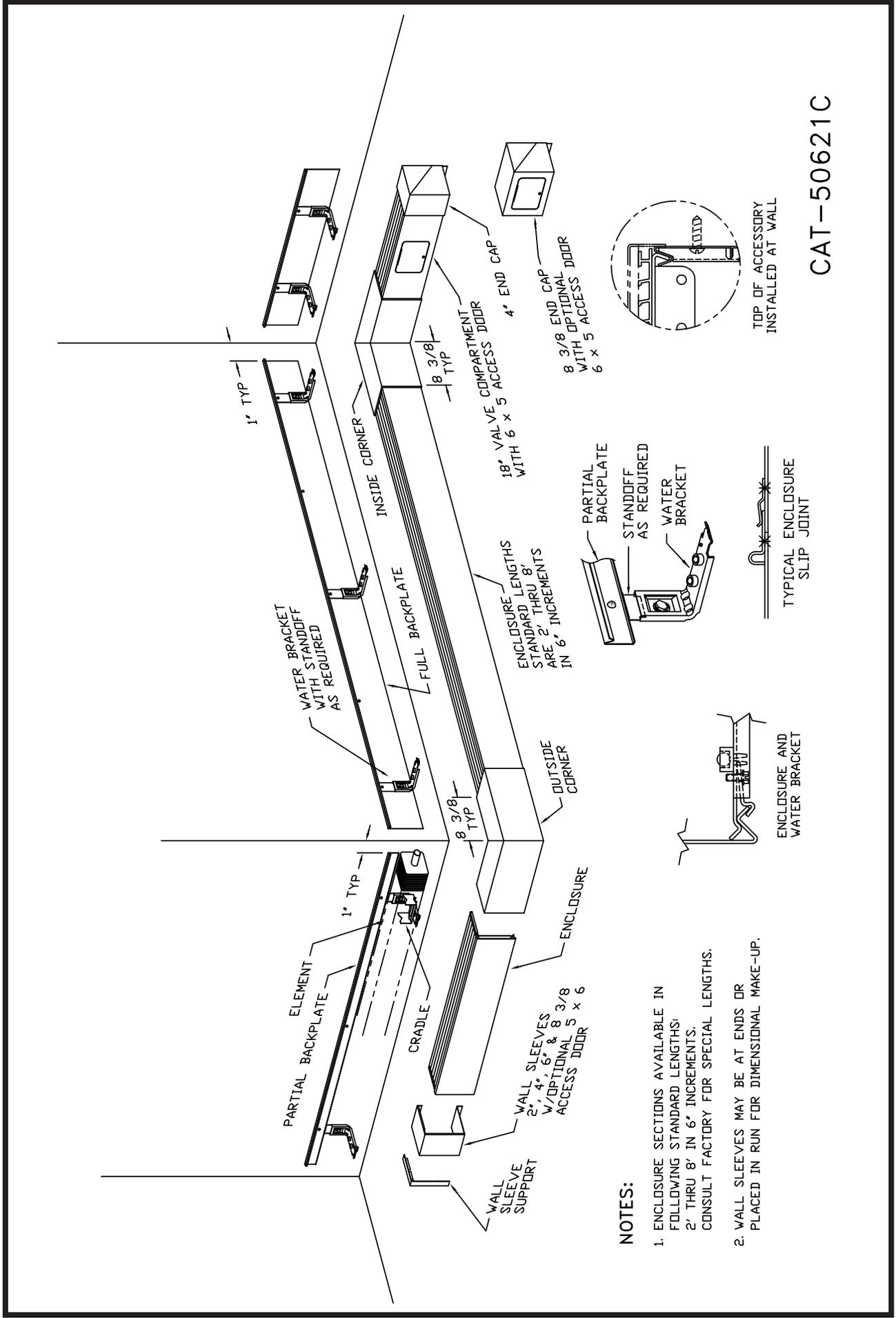
Before each heating season, remove accessories and enclosure panel to inspect finned tube elements for accumulation of dust or other debris that may accumulate and block airflow between fins. Remove dust and debris from coil fins with a vacuum cleaner or compressed air. Inspect for leaks or areas of corrosion. It should not be required, but if necessary, place a drop of lubricant (machine oil) onto each ball bearing (where applicable) located in the water brackets or bracket mounted hangers. Replace cover and accessories.



260 NORTH ELM ST., WESTFIELD, MA 01085  
TEL: (413) 568-9571 FAX: (413) 564-5661  
www.vulcanrad.com



# GENERAL LAYOUT



CAT-50621C

**NOTES:**

1. ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS:  
2' THRU 8' IN 6' INCREMENTS.  
CONSULT FACTORY FOR SPECIAL LENGTHS.
2. WALL SLEEVES MAY BE AT ENDS OR PLACED IN RUN FOR DIMENSIONAL MAKE-UP.

TOP OF ACCESSORY  
INSTALLED AT WALL

TYPICAL ENCLOSURE  
SLIP JOINT

ENCLOSURE AND  
WATER BRACKET