

# INSTALLATION INSTRUCTIONS

## "J" CLASSIC COMMERCIAL FINNED-TUBE RADIATION JVB-ARSS DOUBLE SLOPE

- 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 3" end and 6" for 9" end.
- Mount backplate (full or partial) to wall at prescribed height (Refer to Submittal Drawing) making sure that it is straight and level. If valve compartments are being used, make sure that an equivalent amount of backplate is installed.
- Hot Water Systems or Steam Systems (Two Pipe):** Vertical wall brackets are used with bracket mounted hangers to support the element(s). Hot water systems do not require pitch for the element. Attach the bracket mounted hanger to the vertical wall bracket using the 5/16-18 carriage bolt and nut supplied before installation of the vertical brackets to the wall. For two pipe steam systems, the bracket mounted hangers are to be adjusted vertically for downward pitch from the supply end ½ inch per 20 feet run. If a second tier of element is to be installed, attach the bracket mounted hanger to the vertical wall bracket using the 5/16-18 carriage bolt and nut supplied before installation of the vertical brackets to the wall. Install two (2) vertical brackets per length of element, up to 6'-0" of length. Three (3) vertical brackets with bracket mounted hangers per element over 6'-0" up to 12'-6" (8'-0" for ¾" copper/aluminum) of length. (Accessories do not require brackets). Insert top of the bracket into 'V' bend of backplate (Full or Partial) and insert onto horizontal flange of the Partial backplate. Secure brackets to wall using fasteners (as specified) by others. Supply/Return Pipe hangers (if required) can be mounted to the wall adjacent to the vertical bracket (every other one).
- 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. For Two Pipe Steam systems adjust element pitch by raising the bracket mounted hanger and tighten nut to secure hanger into position. Second tier elements mounted on the bracket-mounted hangers can be adjusted up or down. 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 back bend mounts 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 to wall with fasteners supplied by others. Do not tighten these fasteners until accessories are installed.
- Install overlapping accessories as indicated on room schedule. All accessories are overlapping. The top back bend is slipped between the wall and the backplate. The accessory bottom returns to the wall and is secured with fasteners supplied by others. Valve Compartments are installed the same as enclosure.

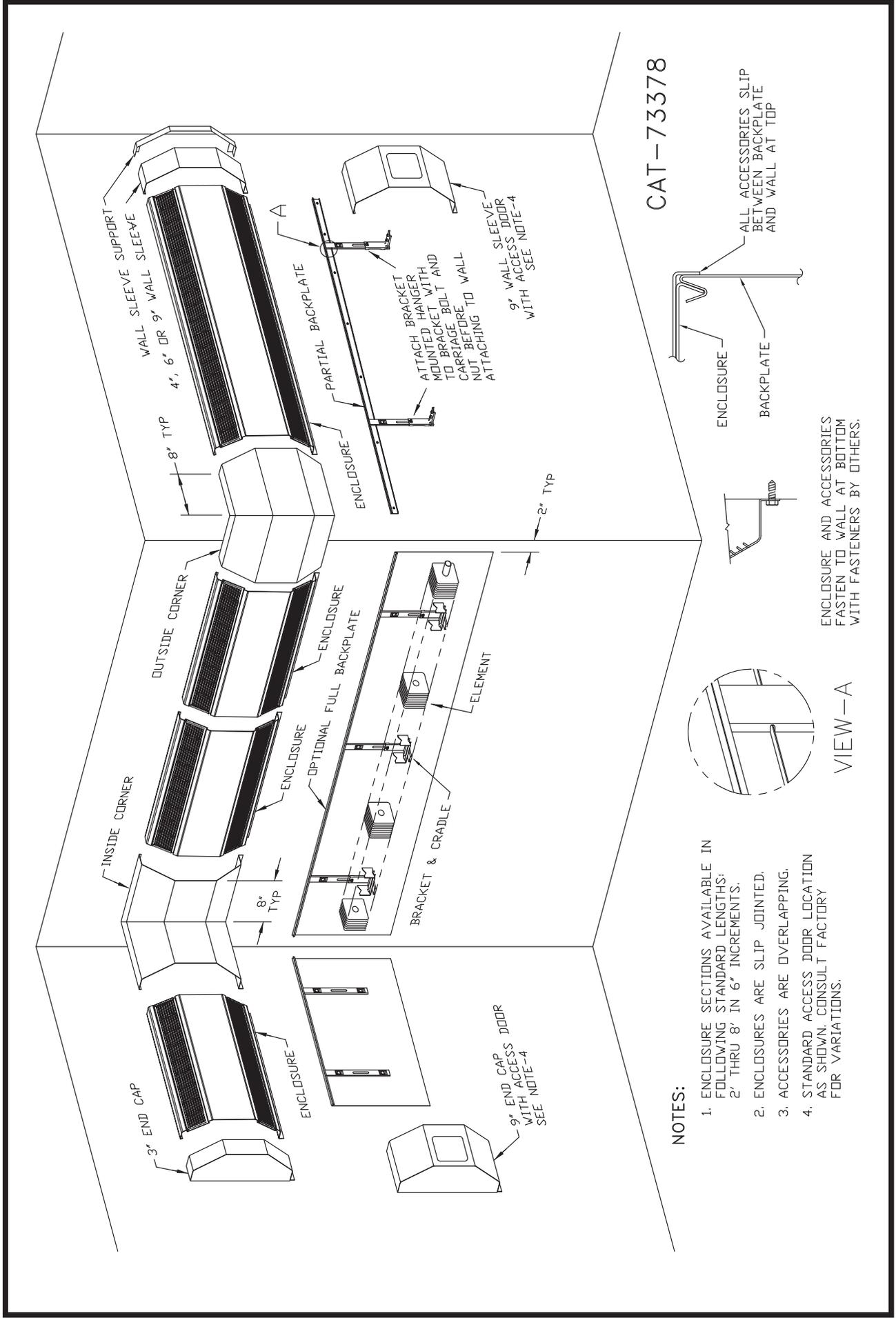
### **MAINTENANCE**

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.



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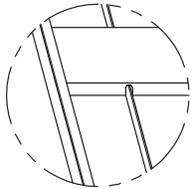
# GENERAL LAYOUT



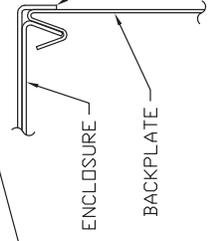
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**NOTES:**

1. ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 2' THRU 8' IN 6" INCREMENTS.
2. ENCLOSURES ARE SLIP JOINED.
3. ACCESSORIES ARE OVERLAPPING.
4. STANDARD ACCESS DOOR LOCATION AS SHOWN. CONSULT FACTORY FOR VARIATIONS.



VIEW-A



ENCLOSURE AND ACCESSORIES FASTEN TO WALL AT BOTTOM WITH FASTENERS BY OTHERS.

ENCLOSURE AND ACCESSORIES SLIP BETWEEN BACKPLATE AND WALL AT TOP