

INSTALLATION INSTRUCTIONS

DURA-VANE II COMMERCIAL FINNED TUBE RADIATION JDV3/JDV4 10LI

1. 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.
2. 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.
3. Install extruded aluminum floor angle to the floor at the location shown on submittal drawing. The floor angle will run the full length of the run including enclosure and accessories.
4. **Hot Water Systems or Steam Systems (Two Pipe):** Wall mounted hangers are required to support the element only. Hot water systems do not require pitch for the element. Install two (2) wall mounted hangers per element length up to 6'-0" of length. Use three (3) wall mounted hangers per element length 6'-6" up to 12'-6" (8'-0" for ¾" copper/aluminum) of length. (Accessories do not require brackets). Secure hangers to wall using fasteners (as specified) by others. For two pipe steam systems, the wall mounted hangers must be located so the supply end starts at the highest point and pitches down at a rate of ½ inch per 20 foot run.
5. 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 cradle 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.**
6. The enclosure can now be installed. Start enclosure at left end of run working clockwise. Tap alignment pin into left front end of grille. The rear of the enclosure grille engages directly into the 'V' bend of the backplate. Firmly push next piece of cover into slip joint tabs and alignment pin of piece on left until run is completed. Secure bottom of enclosure into brackets. Tighten the posi-loc clamps to secure the enclosure.
7. 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 will be secured to the enclosure with fasteners supplied 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



A MESTEK COMPANY



Technical drawing of a wall-mounted enclosure system. The main diagram shows a side view of the enclosure with various components labeled: FULL BACKPLATE, END CAP 4" & 8 3/8" WITH ACCESS DOOR, VALVE COMPARTMENT 12" & 18", INSIDE CORNER, 8 3/8" TYP, ENCLOSURE 1, SEE NOTE 3, SEE NOTE 1, EXTRUDED ALUMINUM FLOOR ANGLE TO BE CONTINUOUS, 2" TYP, ATTACH WALL MOUNTED HANGER TO WALL STUDS LOCATIONS, BRACKET & CRADLE, ELEMENT, ENCLOSURE, WALL SLEEVE SEE NOTE 2, WALL SLEEVE 4", 6" & 8 3/8" WITH ACCESS DOOR, WALL SLEEVE SUPPORT, OUTSIDE CORNER, 8 3/8" TYP, ENCLOSURE, and FLOOR. Two detail drawings are included: one showing the 'TYPICAL ENCLOSURE SLIP JOINT' with an 'ACCESSORY' and 'PARTIAL BACKPLATE' installed at the wall, and another showing the 'ENCLOSURE' and 'FLOOR ANGLE' fasteners at the floor.

NOTES:

- ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 1' THRU 8' IN 6" INCREMENTS. CONSULT FACTORY FOR SPECIAL LENGTHS.
- WALL SLEEVES MAY BE AT ENDS OR PLACED IN RUN FOR DIMENSIONAL MAKE-UP.
- TAP ALIGNMENT PIN INTO LEFT END OF GRILLE, FIT NEXT ENCLOSURE PIECE TO PIN AND SLIP JOINT.

CAT-72783B

CAT-72783B