INSTALLATION INSTRUCTIONS

DURA-VANE II
COMMERCIAL FINNED-TUBE RADIATION
JDVPA1, A2/JDVPB1, B2

Pedestal mounted enclosures with standard rigid pedestal brackets are not recommended for use with steam systems.

1. Per the mechanical drawings, layout the pedestal brackets based on the enclosure lengths of the run. For enclosures 2'-0" to 5'-0" lengths, two (2) brackets will be required. These brackets should start and end 6" to 12" in from each end of the enclosure. For enclosures 5'-6" to 8'-0" lengths, three (3) brackets will be required. The third bracket will be centered between the two outer brackets.

2A. **Standard Rigid Pedestal Bracket:** When the standard bracket locations along the run have been determined, secure them to the floor with the specified fasteners (by others). The rear vertical bracket leg should be a minimum of 2" from the wall. Depending on the flatness of the finished floor, determine which (if any) of the brackets need to be shimmed to allow for a level and straight enclosure installation.

2B. **Optional Adjustable Pedestal Bracket with Cast Aluminum Base:** When the optional adjustable pedestal bracket, with cast aluminum base, locations along the run have been determined, secure the aluminum base to the floor with the specified fasteners (by others). Insert the pipe of the upper pedestal bracket assembly into the aluminum base and tighten the setscrews after the vertical elevation has been determined. The rear vertical bracket leg should be a minimum of 2" away from the wall. Depending on the flatness of the finished floor, determine which (if any) of the aluminum bases need to be shimmed to provide a level and straight enclosure installation.

3. Locate finned tube element where identified on mechanical drawings. Place element slide cradle supports onto element where brackets are located. The legs of the element cradles are tapered slightly outward so that a friction or compression fit will occur and hold them in place when pressing the cradles into place between the element fins. Place element and element slide cradles onto the ball bearings in the bracket and make sweat connections. For steel element, apply specified pipe dope, or sealing tape for threaded connections with the required threaded fittings. Check submittal drawings to confirm dimension out from wall to center of element and up from finished floor. Once the elements are connected into the heating system, a standard pressure leak test should be conducted as specified by the Mechanical Engineer. **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.**

4. When the enclosure run is laid out wall to wall with the element supply tube running through the wall, it is typical to start and finish the run of enclosure with a Wall Sleeve. This overlapping accessory provides for make-up in the run where the wall-to-wall dimension does not coincide with the standard enclosure lengths. The slip-jointed enclosures interlock with each other along the run.

5. When enclosure is installed short of wall with supply and return lines coming out of the floor, end caps will be used to terminate the enclosure run at each end. All accessories are overlapping and are to be slid over and onto the enclosure. When installing inside or outside corners (each are specific and separate accessories), they must be slid onto the enclosure prior to installing the enclosure onto the pedestal brackets.

6. If access is needed to air vents or shut off valves, it is recommended that a two (2) foot piece of enclosure is installed in the run where the device is located. This piece of enclosure will act as a valve compartment or access panel.

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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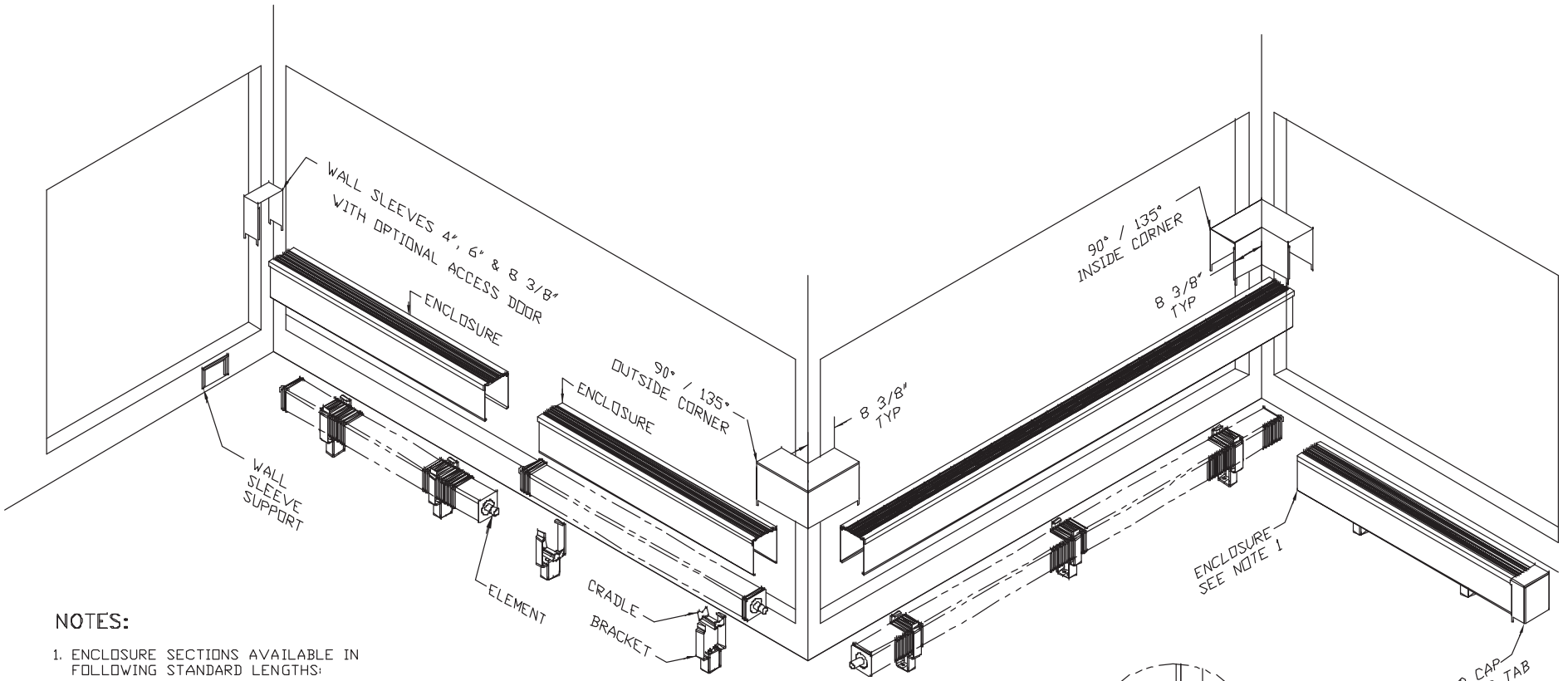
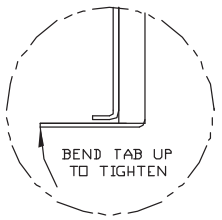
GENERAL LAYOUT



NOTES:

1. ENCLOSURE SECTIONS AVAILABLE IN FOLLOWING STANDARD LENGTHS: 2' THRU 8' IN 6" INCREMENTS. CONSULT FACTORY FOR SPECIAL LENGTHS.
2. LAYOUT JOB SELECTING ENCLOSURE LENGTHS WITH SLIP JOINT AT EACH END OF ENCLOSURE SPACE ENCLOSURES TO SUIT. AT EACH END OF RUN USE WALL SLEEVE OR 3" END TO SUIT JOB.
3. LAY OUT PEDESTAL BRACKET LOCATIONS SO THE BRACKETS ARE 6" TO 12" FROM THE END OF ENCLOSURE. FOR ENCLOSURES OVER 5 FT LONG, LOCATE AN ADDITIONAL BRACKET AT THE CENTER OF THAT ENCLOSURE.
4. SCHEDULE ACCESSORIES TO OVERLAP ENCLOSURES 1"-3" EXCEPT ENDS 1"-2". WITH ACCESS DOOR OVERLAP MAX. 1".



BOTTOM OF ACCESSORY
INSTALLED AT ENCLOSURE BOTTOM

CAT-72754A