

SECTION 15761

FINNED TUBE RADIATION HEATERS

**PART 1 –GENERAL**

1.1 SECTION INCLUDES

- A. Finned-Tube Radiation.

1.2 SUBMITTALS

- A. Submit product data under provisions of Section 01330 – Submittal Procedures.
- B. Submit schedules of equipment and enclosures typically indicating length and number of pieces of element and enclosure, end caps, cap strips, access doors, and comparison of specified heat required to actual heat output provided.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site.
- B. Store and protect products.
- C. Protect units from physical damage by storing in protected areas and leaving factory covers in place.

1.4 SEQUENCING AND SCHEDULING

- A. Install finned tube radiators after walls and ceiling are finished and painted. Avoid damage.

**PART 2 –PRODUCTS**

2.1 MANUFACTURERS - FINNED TUBE RADIATION

- A. Runtal
- B. Sterling
- C. KHD
- D. Slant Fin
- E. or equal.

2.2 FINNED TUBE RADIATION

- A. Heating Elements: 1-1/4 inch ID seamless copper tubing, 0.042 inches minimum wall thickness, mechanically expanded into evenly spaced aluminum fins, suitable for soldered fittings.

- B. Element Hangers: Cradle type providing unrestricted longitudinal movement, on enclosure brackets.
- C. Enclosures: 18 gauge steel up to 18 inches in height, 16 gauge steel over 18 inches in height. Provide easily jointed components for wall to wall installation. Support rigidly, on wall or floor mounted brackets.
- D. Finish: Factory applied standard baked enamel finish on visible surfaces of enclosure or cabinet.
- E. Access Doors: For otherwise inaccessible valves, provide factory-made permanently hinged access doors, integral with cabinet.
- F. Capacity: Based on 65 degrees F entering air temperature, 120 degrees F average water temperature.
- G. Provide all accessories for a complete installation including end caps, end valve covers, support brackets for elements, return piping and covers, wall gasketing, and full back plate where visible.

### **PART 3 –EXECUTION**

#### **3.1 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Locate baseboard radiation on outside walls and run cover continuously wall-to-wall unless otherwise indicated.
- C. Coordinate pipe entries into walls with stud locations, and install in a neat workmanlike manner.
- D. Provide brass transition union at connections of copper to black steel piping.
- E. Protect units with protective covers during balance of construction.
- F. Provide hydronic units with shut-off valve on supply and balancing valve and shut off valve on return piping.

#### **3.2 CLEANING**

- A. After construction is completed, including painting, clean exposed surfaces of units. Vacuum clean coils and inside of cabinets.

- B. Touch-up marred or scratched surfaces of factory-finished cabinets, using finish materials furnished by manufacturer.

END OF SECTION