

SECTION 23 82 35 – HYDRONIC FINNED TUBE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes Hydronic baseboard heating units.

1.3 SUBMITTALS

- A. Product Data: Include rated capacities, operating characteristics, furnished specialties, and accessories for each type of product indicated.
- B. Color Charts for Selection.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements provide convectors manufactured by Sigma.
- B. Finned Tube meeting the full requirements of the specifications including aesthetic properties, and manufactured by the following will be considered:
 - 1. Slant/Fin.
 - 2. Sterling.
 - 3. Rittling.

2.2 HYDRONIC FINNED TUBE

- A. Performance Ratings: Rate baseboard radiators according to Hydronics Institute's "I=B=R Testing and Rating Standard for Baseboard Radiation."
- B. Heating Elements: Copper and / or steel tubing mechanically expanded into flanged collars of evenly spaced aluminum and/or steel fins.
- C. Enclosures: Provide enclosures to match the style indicated by model number on the drawings.
- D. Cover Finish: Refer to drawing schedules for finishes required for each baseboard / finned tube. Provide units with finishes, as noted on the drawings per the following:
 - 1. If the drawings indicate a "Primer" finish, provide a factory applied baked enamel primer.

2. If the drawings indicate a "Standard" color, provide a factory applied baked enamel color, selected by the Architect from the manufacturer's standard color chart.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive convection heating units for compliance with requirements for installation tolerances and other conditions affecting performance. Examine roughing-in for hydronic-piping connections to verify actual locations before convection heating unit installation. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 BASEBOARD INSTALLATION

- A. Install all units level and plumb.
- B. Where indicated install enclosure continuously around corners, using outside and inside corner fittings or install continuously from wall to wall. Join sections with splice plates and filler pieces to provide continuous enclosure. Install access doors for access to valves.
- C. Terminate enclosures with manufacturer's end caps except where enclosures are indicated to extend to adjoining walls.
- D. Install valves within reach of access door provided in enclosure.
- E. Install piping within pedestals for freestanding units.
- F. Provide all required hangers and brackets.

3.3 CONNECTIONS

- A. Piping installation requirements are specified in other Division 23 Section. Drawings indicate general arrangement of piping, fittings, and specialties. Provide all specialties indicated.
- B. Unless otherwise indicated, install union, control valve, strainer and ball valve on supply-water connection and union, calibrated balancing valve and ball valve on return-water connection of unit heater.
- C. Install piping adjacent to units to allow service and maintenance.

3.4 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 2. Test and adjust controls. Replace damaged and malfunctioning controls and equipment.
- B. Remove and replace units that do not pass tests and inspections and retest as specified above.

END OF SECTION 23 82 35