

## SECTION 15700 - HVAC SYSTEM

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

- A. The work covered by this Section of the specifications includes the furnishing of labor, materials, equipment, transportation, permits, inspections and incidentals and the performing of operations required to install the heating and ventilating systems indicated.

#### 1.2 RELATED DOCUMENTS

- A. The drawings and the specifications including SECTION 15000 "SUPPLEMENTAL MECHANICAL GENERAL REQUIREMENTS" are hereby made a part of the work of this section.

#### 1.3 SUBMITTALS

- A. Substitutions: Your attention is directed to Section 15000-"Substitutions", relative to competition and the (ONLY) notation. Familiarity with this section should be achieved before reading the PRODUCTS section of this specification.
- B. The items for which the submittals paragraph in Section 15000, Supplemental Mechanical General Requirements, apply are as follows:
  - 1. Electric space heaters.

### PART 2 - PRODUCTS

#### 2.1 ELECTRIC BASEBOARD (EBB)

- A. Construction:
  - 1. Electric Baseboard shall be manufactured by Berko or equal. Units shall be surface-mounted per the manufacturer's instructions. Heating elements shall be of 80/20Ni-Ch resistance wire with steel plate fins and

shall operate on 277V/1Ph/60Hz power. Enclosure shall be finish painted in a factory-applied baked enamel with color selection by the Architect.

2. Furnish units with remote thermostat and disconnect switch.

B. Performance: Performance and capacity shall be as scheduled.

## 2.2 AUTOMATIC TEMPERATURE CONTROL (SEQUENCE OF OPERATIONS)

A. Electric BaseBoard (EBB-1): On a call for heating by the electric room thermostat, the unit shall energize to satisfy the heating setpoint (70°F).

## PART 3 - EXECUTION

### 3.1 SURFACE CONDITIONS

A. Inspection:

1. Prior to work of this Section, carefully inspect the installed work of other trades and verify that such work is complete to the point where this installation may properly commence.
2. Verify that the heating system may be installed in accordance with pertinent codes and regulations and the reviewed Submittals.

### 3.2 CLOSING IN WORK

- A. Cover up or enclose work after it has been properly and completely tested and reviewed.
- B. No additional cost to the Owner will be allowed for uncovering or recovering any work that is covered or enclosed prior to required test and review.

### 3.3 TEST AND ADJUST

- A. Piping Systems: Test to a pressure of 10% higher than the maximum operating pressure of the connected equipment and hold for a period of two

hours. Repair any leaks and retest the piping system; repeat process until systems are leak-free. Test piping before it is insulated.

- B. After the installation is complete and ready for operation, test the system under normal operating conditions in the presence of the Architect and demonstrate that the system functions as designed.
- C. Correct defects which develop in operational testing, conduct additional testing until defect free operation is achieved.

#### 3.4 CLEANUP AND CORROSION PREVENTION

- A. Equipment shall be thoroughly cleaned. Dirt, dust, and debris shall be removed and the premises left in a clean and neat condition.

#### 3.5 INSTRUCTIONS

- A. On completion of the project, instruct the Owner's representative in the care and operation of the system. The total period of instruction shall not exceed one (1) hour. The time of instruction shall be arranged with the Owner. In addition to the prime Mechanical Contractor, the control system Contractor, Balancing Contractor, and Owner's representative shall be present and participate in the Owner's instruction.

\* END OF SECTION \*