

SECTION 16864

ELECTRIC HEATING UNITS

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Electric heaters.
- B. Accessories.

1.2 SUBMITTALS

- A. Product data: Provide unit size, finish, and performance data.
- B. Submit manufacturer's installation instructions.
- C. Operation Data: Include instructions for safe operating procedures.
- D. Maintenance Data: Include instructions for replacement parts and troubleshooting diagnostics.
- E. Include recommended cleaning methods, cleaning materials, and waxes for interior parts and exterior finishes.

2. 1. PART 2 PRODUCTS

2.1 Manufacturer:

- A. Renznor.
- B. Substitutions under provisions of Section 01600 – Material and Equipment.

2.2 ELECTRIC HEATERS

- A. Description: Electric heater for ceiling mounting.
- B. Input Voltage: 240 volts, 60 Hz, single phase.
- C. Output Rating: Detention Area E Outlet Control Structure: 3kW
1. Detention Areas E Inlet Control Structure, A, B, and F Structures: 5kW
- D. Input Fuses: Provide integral fuses for units rated more than 48 amperes full load.
- E. Provide line voltage disconnect switch for each input circuit.
- F. Cabinet Finish: Manufacturer's standard finish.

2.3 ACCESSORIES

- A. Built-in thermostat.
- B. Ceiling mounting bracket.

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Contractor to verify that field conditions are acceptable and are ready to receive Work.
- B. Verify that required utilities are available, in proper location, and ready for use.
- C. Beginning of installation means Contractor accepts existing conditions.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Locate each unit in position indicated.
- C. Install unit with sufficient clearance from adjacent construction, piping, ductwork, and other obstructions to allow access for service and maintenance and to meet code.
- D. Support unit heaters from structure.
- E. Install disconnect in accessible location and in accordance with NEC.

3.3 FIELD QUALITY CONTROL

- A. Verify operation of each electric heating unit by measuring input voltage and current simultaneously for period of ten minutes of continuous operation.

3.4 DEMONSTRATION

- A. Demonstrate location of circuit breakers and switches serving electric heating branch circuits, and setting procedures for thermostats and other heating controls.

END OF SECTION