

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 26 05 00 – Common Work Results for Electrical.

**1.2 REFERENCE STANDARDS**

- .1 CSA Group (CSA):
  - .1 CSA C22.2 No.46-13(R2018), Electric Air-Heaters.
- .2 Underwriters' Laboratories (UL) Inc.:
  - .1 UL 1042-2009, Standard for Electric Baseboard Heating Equipment.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Division 01 – General Requirements.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for convectors and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Manufacturer's Instructions: provide to indicate special handling criteria, installation sequence, cleaning procedures and Division 01 – General Requirements.

**1.4 CLOSEOUT SUBMITTALS**

- .1 Submit in accordance with Division 01 – General Requirements.
- .2 Operation and Maintenance Data: submit operation and maintenance data for convectors for incorporation into manual.

**1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section with manufacturer's written instructions and Division 01 – General Requirements.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect convectors from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse by manufacturer and return of packaging materials, crates, pallets, padding, as specified in Waste Reduction Workplan, Construction Waste Management Plan in accordance with Division 01 – General Requirements.

**Part 2 Products**

**2.1 BASEBOARD CONVECTORS**

- .1 Heaters: to UL 1042 CSA C22.2 No.46, low wattage density as indicated with connection box both ends.
  - .1 Element through-type fitted with aluminum convector vanes and resistor wire enclosed in mineral insulation in aluminum sheath.
- .2 Element locked to cabinet and supported with non-metallic supports to allow for expansion.
- .3 Cabinet: steel 1 mm thick finished in baked enamel 2 coats, colour (white) with integral air deflector for diffusion.
- .4 Approved wiring channel for interconnection of heaters and components.
- .5 Knock-outs for 16 mm diameter conduit connection.
- .6 Additional accessories as indicated:
  - .1 Relay section.
  - .2 Duplex outlet section.
  - .3 Air conditioning switch section.
  - .4 Inside and outside corners.
  - .5 Splice plates.

**2.2 FAN FORCED HEATER**

- .1 Heaters: to UL 1042 CSA C22.2 No. 46 wattage as indicated.
- .2 Wall or ceiling-mounted as indicated.
- .3 Nichrome element and 20-gauge steel cabinet with 18-gauge steel grille.

**2.3 CONTROLS**

- .1 Relays and transformers to switch loads in excess of thermostat rating. Relays by Division 26.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for convectors installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

**3.2 INSTALLATION**

- .1 Attach baseboard heaters to wall with toggle bolts or wood-screws.
- .2 Make power and control connections.

**3.3 FIELD QUALITY CONTROL**

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.
- .2 Ensure that heaters and controls operate correctly.

**3.4 CLEANING**

- .1 Progress Cleaning: clean in accordance with Division 01 – General Requirements.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Division 01 – General Requirements.
- .3 Waste Management: separate waste materials for recycling in accordance with Division 01 – General Requirements.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**3.5 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by residential convectors installation.

**END OF SECTION**