PART 1 - GENERAL

1.1 RELATED SECTIONS

.1 Section 26 29 03 - Control Devices

1.2 REFERENCES

.1 Canadian Standards Association (CSA)
  .1 CSA C22.2 No. 46-13, Electri Air-Heaters.

1.3 SHOP DRAWINGS

.1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit shop drawing sheets for unit heaters. Include:
  .1 Product characteristics.
  .2 Performance criteria.
  .3 Mounting methods.
  .4 Physical size.
  .5 kW rating, voltage, phase.
  .6 Cabinet material thickness.
  .7 Limitations.
  .8 Colour and finish.

1.4 CLOSEOUT SUBMITTALS

.1 Provide operation and maintenance data for unit heaters for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

PART 2 - PRODUCTS

2.1 UNIT HEATERS

.1 Unit heater: to CSA C22.2 No. 46, horizontal discharge complete with adjustable louvers finished to match cabinet.

.2 Fan type unit heaters with built-in high-heat limit protection.

.3 Fan motor: totally enclosed, permanently lubricated ball bearing type with resilient mount. Built-in fan motor thermal overload protection.

.4 Elements: mineral insulated, metal sheath with continuous helical steel fins.

.5 Cabinet: steel, 18 gauge, fitted with brackets for wall mounting. Polyester epoxy powder coat paint finish almond colour.

.6 Power Supply: 600 V, 60 Hz, 3ph.

.7 Acceptable manufacturers:
.1 Ouellet OAS series.
.2 Approved Equal.

2.2 CONTROLS

.1 Wall mounted thermostats: low voltage type, to Section 26 29 03 - Control Devices.

.2 Built in contactor, 24 V relay with control transformer.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Mount on wall as indicated.

.2 Install thermostat in location indicated.

.3 Make power and control connections.

3.2 FIELD QUALITY CONTROL

.1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.

.2 Test cut-out protection when air movement is obstructed.

.3 Test fan delay switch to assure dissipation of heat after element shut down.

.4 Test unit cut-off when fan motor overload protection has operated.

.5 Ensure that heaters and controls operate correctly.

END