

**Part 1 General****1.1 RELATED SECTIONS**

- .1 Section 01 00 10 – General Instructions.
- .2 Section 21 05 01 – Common Work Results for Mechanical.

**1.2 REFERENCES**

- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
  - .1 Material Safety Data Sheets (MSDS).

**1.3 SUBMITTALS**

- .1 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Section 01 00 10 – General Instructions. Include product characteristics, performance criteria, and limitations.

**1.4 QUALITY ASSURANCE**

- .1 Health and Safety Requirements: do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

**1.5 DELIVERY, STORAGE, AND HANDLING**

- .1 Packing, shipping, handling and unloading:
  - .1 Deliver, store and handle in accordance with Section 01 00 10 – General Instructions.
  - .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Waste Management and Disposal:
  - .1 Construction/Demolition Waste Management and Disposal: separate waste materials for reuse and recycling in accordance with Section 01 00 10 – General Instructions.

**Part 2 Products****2.1 THERMOSTAT (HEAVY-DUTY, LINE VOLTAGE)**

- .1 Heavy-duty line voltage thermostat for cooling with:
  - .1 Full load rating: 16 A at 120 V.
  - .2 Temperature setting range: 5 degrees C to 30 degrees C.
  - .3 Thermometer range: 5 degrees C to 30 degrees C.
  - .4 Markings in 10 degree increments.

- .5 Differential temperature fixed at 1.1 degrees C.

## **2.2        MOTORIZED ELECTRICAL DAMPER ACTUATOR (HEAVY DUTY, LINE VOLTAGE)**

- .1 On/Off. Spring return, 120 VAC, electrical Actuator
- .2 Minimum Torque 4 Nm.
- .3 Operational Conditions:
  - .1 Temperature :-30 degrees C to 50 degrees C.
  - .2 Humidity: 5 to 95 % RH non-condensing.

Include limit switch and relay.

## **Part 3        Execution**

### **3.1        MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

### **3.2        INSTALLATION**

- .1 Install control devices.
- .2 Install remote sensing device and capillary tube in metallic conduit. Conduit enclosing capillary tube must not touch heater or heating cable.

### **3.3        SEQUENCE OF OPERATION**

- .1 Line voltage thermostat to supply on/off signal to the motorized electrical damper to open position or close inlet damper and operate the exhaust fan on or off.
- .2 Thermostat to operate damper actuator, once damper is in the open position the internal limit switch shall start the fan.

**END OF SECTION**