

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