SUBMITTAL

DESCRIPTION

The **Electronic Bypass Damper** includes a factory mounted actuator and electronic static pressure controller used to control static pressure in zoned systems. The Electronic Static Pressure Control is adjustable, controlling a modulating bypass damper to maintain static pressure as zone dampers modulate. The bypass system reduces air noise from the supply outlets caused by excessive air velocity.

When the system is satisfied, the bypass damper will remain 25% open, if intermittent fan is used. On systems utilizing continuous fan operation, bypass will modulate based on system static. Bypass controller is adjustable to maintain static pressure range from .15" - .95" W.C. The Integrated Static Pressure Control (IPC) includes a quick start option or may be field adjusted to specified static pressure.

STCDBP dampers feature parallel blade construction for height dimensions to 14” and opposed blade construction for height dimensions 16” through 48”. STCDBP dampers 8” in height use a single damper blade.

The damper assembly is enclosed in a 16” long, 20-gauge galvanized steel sleeve, with standard slip and drive connections. Damper blades are bolted to a hexagonal damper shaft, which rotate within a stainless steel Oilite bushing. Damper blades close against steel blade stops.

TECHNICAL DATA

**Electronic Integrated Bypass Damper**

**Electrical:**
- Supply Voltage: 24vac
- Power consumption: 2 VA maximum (1.5 watt)

**Environmental:**
- Operating temperature: 20 to 125° F (-7 to 52° C)
- Operating humidity: 10-95% non-condensing
- Storage temperature: -20 to 130° F (-29 to 54° C)

**General:**
- Shell: 20 gauge cold rolled galvanized steel
- Shaft: 1/2” dia. plated steel, hexagonal
- Blades: 16 gauge galvanized
- Bushings: Stainless steel Oilite
- Actuator: Power open / Power close
- Stroke: 90°

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### TYPICAL CAPACITIES*

<table>
<thead>
<tr>
<th>SENSOR LOCATION</th>
<th>W</th>
<th>H</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return Air</td>
<td>AIR HANDLING UNIT</td>
<td>AIRFLOW</td>
<td></td>
</tr>
<tr>
<td>Supply Air</td>
<td>BYPASS AIRFLOW</td>
<td>Static Air Pick Up Tube</td>
<td></td>
</tr>
</tbody>
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* Capacities are for reference only at 1500 FPM. Duct friction rate should be established by use of ACCA Manual D, Manual Q, or equivalent.