MODEL S2H
Class II • 250°F or 350°F • Galvanized Steel • Single Thickness Blade • Smoke Damper

STANDARD MATERIALS AND CONSTRUCTION

FRAME: 5 1/4" x 3/4" x 16-GA galvanized steel hat channel; Flat 16-GA galvanized head and sill for maximum free area on dampers ≤ 13' high

BLADES: 16-GA galvanized steel single thickness; Parallel action

AXLES: Plated solid steel stub

BEARINGS: Oil impregnated bronze

LINKAGE: Plated steel angle and crank plates with stainless steel pivots, in-jamb type or on-blade type

STOPS: 18-GA galvanized steel angles at head and sill

BLADE SEALS: Silicone

JAMB SEALS: Stainless steel

SLEEVE: Minimum 20-GA galvanized steel by 18' long (sizes greater than 84" wide or 84" high require minimum 18-GA)

CAULKING: Hardcast Iron-grip 601 or UL-listed equivalent

ACTUATOR: Electric or pneumatic; Factory-installed for Power-Open/Spring-Close (fail close) operation; External left hand mounted as viewed from jackshaft side of damper

FINISH: Mill

OPTIONS

Exact Size (no undercut)

Sleeve - Transition

Actuators - 120V, 24V, 230V or Pneumatic

Right Hand and/or Internal Actuator Mounting Locations (Restrictions Apply)

Dual Position Indication (DPI) Switches

Model SM-501 Flow-Rated Smoke Detector.

Model 2151 No-Flow Smoke Detector (1/2" Minimum Damper Height)

Remote Test Box

Copper Tubing (for Pneumatic Actuators)

Transformers

Tab-Lock Retaining Angles - 1 or 2 Sets

Bearings - Stainless Steel

Axle - Stainless Steel

Security Bars

Short-Width (<8") and/or Short-Height (<8") Transitions

NOTES

approximately 1/4" undersize.

2. Damper ≥ 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10.5" on the actuator side); detectors will be mounted on the side of the damper opposite actuator.

3. Damper < 12" in height with factory mounted SM-501 smoke detectors require a minimum 20 deep sleeve (11.5" on the actuator side); detectors will be mounted on the bottom or top of damper.

4. Smoke Detectors can be ordered for field mounting with standard 18" deep sleeve.

DAMPER SIZES

<table>
<thead>
<tr>
<th>Orientation</th>
<th>2000 fps, 4 in. wg</th>
<th>3000 fps, 4 in. wg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Horizontal &amp; Vertical</td>
<td>Horizontal &amp; Vertical</td>
</tr>
<tr>
<td>Panels</td>
<td>Max Panel 250°</td>
<td>Max Panel 350°</td>
</tr>
<tr>
<td>Rectangular</td>
<td>4&quot; x 4&quot; (8&quot; x 8&quot; frame)</td>
<td>36&quot; W x 48&quot; H</td>
</tr>
<tr>
<td>Round</td>
<td>4&quot; dia. (8&quot; x 8&quot; frame)</td>
<td>34&quot; dia</td>
</tr>
<tr>
<td>Oval</td>
<td>4&quot; x 4&quot; (8&quot; x 8&quot; frame)</td>
<td>34&quot; W x 46&quot; H</td>
</tr>
</tbody>
</table>

* Dampers smaller than minimum frame size require a transition. Reference SD-TRFS.
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Operations Rating:
Maximum Differential Pressure: 4 in.wg
Maximum Face Velocity: 2000 fpm (3000 fpm for selected size/actuator combinations)

Leakage Rating:
UL Class II
10 cfm per sq.ft. maximum @ 1 in.wg
20 cfm per sq.ft. maximum @ 4 in.wg

Sound Ratings:
The Noise Criterion data below was tested in accordance with ASTM E477-99 in the center octave band.

<table>
<thead>
<tr>
<th>Damper Size</th>
<th>Velocity (fpm)</th>
<th>Noise Criterion (NC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>12&quot;W x 12&quot;H</td>
<td>31</td>
<td>53</td>
</tr>
<tr>
<td>24&quot;W x 24&quot;H</td>
<td>33</td>
<td>54</td>
</tr>
</tbody>
</table>

Pressure Drop Ratings:
The pressure drop data shown below is based on laboratory conditions. The test setup does not take into account elbows or other duct fittings that are part of every actual duct system. The configuration of the actual duct system immediately upstream and downstream of the damper often contributes more pressure loss than the damper itself.

Air Balance certifies that the model S2H damper shown here is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance Ratings only.

In the interest of product development, Air Balance reserves the right to make changes without notice.
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