Model KH2

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

STANDARD CONSTRUCTION

FRAME: 5½" x ¾" x 16 GA. galvanized steel hat channel. Flat 16 GA. galvanized steel head and sill for maximum free area on dampers less than or equal to 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 ironrip 601 or UL-listed equivalent

ACTUATOR: Electric or pneumatic. External left hand mounted as viewed from jackshaft side of damper.

FINISH: Mill.

OPTIONS

Exact size (no undercut)

Sleeves and transitions

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 (12" minimum damper height)

Momentary test switch

Remote test box

Copper tubing (for pneumatic actuators)

Transformers

Tab-lock retaining angles - 1 or 2 sets

Stainless steel bearings

Stainless steel axles

Security bars

Short-width (less than 8") and/or short-height (less than 6") transitions

NOTES

1. Nominal deductions will be made to the opening size given.

2. Dampers greater than or equal to 12" in height with factory mounted SM-501 smoke detectors require a minimum 19" deep sleeve (10½" on the actuator side). Detectors will be mounted on the side of the damper opposite actuator.

3. Dampers less than 12" in height with factory mounted SM-501 smoke detectors require a minimum 20 deep sleeve (11½" 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.

5. Dampers for horizontal installation can only be mounted in a fire barrier constructed of masonry/concrete materials.

DAMPER SIZES

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Horizontal &amp; Vertical</th>
<th>2000 fpm, 4 in. w.g.</th>
<th>3000 fpm, 4 in. w.g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panels</td>
<td>Min. Panel Size</td>
<td>Max Panel 250°</td>
<td>Max Panel 350°</td>
</tr>
<tr>
<td>Rectangular</td>
<td>4&quot;W x 4&quot;H (8&quot;W x 6&quot;H frame)</td>
<td>36&quot;W x 48&quot;H</td>
<td>36&quot;W x 48&quot;H</td>
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<tr>
<td></td>
<td></td>
<td>288&quot;W x 35&quot;H</td>
<td>256&quot;W x 31&quot;H</td>
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<tr>
<td></td>
<td></td>
<td>128&quot;W x 62&quot;H</td>
<td>128&quot;W x 62&quot;H</td>
</tr>
<tr>
<td>Round</td>
<td>4&quot; dia. (8&quot;W x 6&quot;H frame)</td>
<td>34&quot; dia.</td>
<td>34&quot; dia.</td>
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<tr>
<td>Oval</td>
<td>4&quot;W x 4&quot;H (8&quot;W x 6&quot;H frame)</td>
<td>36&quot;W x 46&quot;H</td>
<td>36&quot;W x 46&quot;H</td>
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</table>

Chart Sizing Notes:

* Dampers smaller than minimum frame size require a transitions. Reference SD-TRFS.

** For sizes smaller than 16"w x 8"h, airfoil blades will be supplied.

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

www.louvers-dampers.com

450 Riverside Drive • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286

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OPERATIONAL RATINGS
Maximum Differential Pressure: 4 in.wg
Maximum Face Velocity: 2000 fpm (3000 fpm for selected size/actuator combinations)

LEAKAGE RATINGS
UL Class I
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>Noise Criterion (NC)</th>
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<tbody>
<tr>
<td></td>
<td>Velocity (fpm)</td>
</tr>
<tr>
<td></td>
<td>1000</td>
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<tr>
<td>12&quot;W x 12&quot;H</td>
<td>31</td>
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<tr>
<td>24&quot;W x 24&quot;H</td>
<td>33</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.

 Tested in accordance with AMCA Standard 500D, Figure 5.3
Intake air converted to standard air density.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Qty</th>
<th>Damper Size</th>
<th>Horizontal</th>
<th>Vertical</th>
<th>250°F</th>
<th>350°F</th>
<th>Velocity</th>
<th>Pressure</th>
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<tbody>
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<td>Arch. / Eng.:</td>
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<td>Contractor:</td>
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<td>Project:</td>
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<td>Date:</td>
<td>DWN:</td>
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</table>

Louvers & Dampers certifies that the model KH2 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.

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