MODEL CR2
Combination Fire/Smoke Damper • 1½ Hour Rated • Class II • 250°F or 350°F • Single Thickness Blades • Galvanized Steel

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

Options
- Integral Dual Position Indication (IDPI) switches
- Sensotherm re-openable heat response device (ESOT) for electric actuator
- Sensotherm re-openable heat response device (PSOT) for pneumatic actuator
- Model SM-501 Flow-rated smoke detector ship loose
- Model SM-501 Flow-rated smoke damper mounted and wired (6" minimum damper height with a 20" sleeve - extra 2" on jackshaft side)
- Tab-Lock retaining angles
- Stainless steel bearings
- Copper tubing (for pneumatic actuators)
- Optional 19" or 20" sleeve depth - Additional sleeve length is added to non-jackshaft side unless ordered with mounted smoke detector and/or less than 6'H with B-Pan Transition
- Round or oval transitions
- Short-width (less than 6") and/or short-height (less than 6") transitions

Notes
1. "A" width and "B" height are opening dimensions. Damper frames are provided approximately ¼" undersized.
2. Dampers are available in 1" increments only.
3. Dampers for horizontal installation can only be mounted in a fire barrier constructed of masonry/concrete materials.
4. The blades must stay in the fire wall. The adjustable retaining angle may only be adjusted the distance shown on the label or installation instructions.

Damper Sizes

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Horizontal &amp; Vertical</th>
<th>Damper Size</th>
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</thead>
<tbody>
<tr>
<td>Rectangular</td>
<td>Minimum Panel: 4&quot;W x 4&quot;H (6&quot;W x 6&quot;H frame)</td>
<td>Maximum Panel: 18&quot;W x 18&quot;H</td>
</tr>
<tr>
<td>Round</td>
<td>4&quot; dia. (6&quot;W x 6&quot;H frame)</td>
<td>16&quot; dia.</td>
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<tr>
<td>Oval</td>
<td>4&quot;W x 4&quot;H (6&quot;W x 6&quot;H frame)</td>
<td>16&quot;W x 16&quot;H</td>
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Additional sleeve depth will be added to this side.

"Dampers smaller than minimum frame size require a transition. Reference SD-TRFS. Dampers less than 6"H will have a 20" sleeve with the additional sleeve length on the jackshaft side when a B-Pan type transition is ordered.

In the interest of product development, Cesco Products reserves the right to make changes without notice.

CES-21-01-03
- **Operations Ratings**
  Maximum Differential Pressure: 4 in. w.g.
  Maximum Velocity: 2000 fpm

- **Leakage Ratings**
  UL Class II
  20 cfm per sq. ft. maximum @ 4 in. w.g.

- **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>12&quot;W x 12&quot;H (305mm x 305mm)</td>
<td>22dB</td>
</tr>
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</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.

Cesco Products certifies that the model CR2 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.