MODEL AC525/AC526
5" Deep • 6" Airfoil Blade • Aluminum Damper

STANDARD MATERIALS AND CONSTRUCTION

FRAME: 5" x .081" extruded aluminum, hat shaped
BLADES: 6" x .081" extruded aluminum, single unit airfoil design, with
the pin-lock an integral section within the blade core
AXLES: ½" dia. extruded aluminum, pin-lock design interlocking into
blade section
BEARINGS: Celcon
LINKAGE: Aluminum crank-arm permanently locked to have the blade
shaft by 2 stainless steel fasteners; Crank-arm contains a
½" dia. cadmium plated and chromate treated machined
steel trunnion riding in a cecon bearing; A plated steel ½-20
set screw with locking patch, ties the pivot to the 5/16" dia.
aluminum linkage rod; The linkage of each damper is
individually adjusted
SEALS: Extruded silicone rubber seal
FINISH: Mill
ACTUATOR: 6" extended shaft; dampers more than one panel wide
or high and operated with one actuator must be
jackshafted; Factory supplied actuators are shipped loose
to be mounted external as standard

OPTIONS
Hand Quadrants
120V, 24V, or Pneumatic Actuators
Jackshafting
Auxiliary Switch
Explosion Proof Housing

NOTES
1. "A" width and "B" height are opening dimensions. Dampers are provided
approximately ¼" undersize.
2. Dampers with multiple panels in both width and height may require structural
support. It is recommended that large openings be designed with structural
members so that dampers will span either width or height with a single panel.
ABI does not supply structural support with standard dampers.
3. Not recommended for blades installed vertically.
4. Approximate damper weight is 5.5 lbs./sq.ft.

DAMPER SIZE

<table>
<thead>
<tr>
<th>Panels</th>
<th>Minimum Panel</th>
<th>Maximum Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC525</td>
<td>12&quot;W x 12&quot;H</td>
<td>60&quot;W x 72&quot;H</td>
</tr>
<tr>
<td>AC526</td>
<td>12&quot;W x 14¾&quot;H</td>
<td>60&quot;W x 72&quot;H</td>
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Pressure Drop:
Pressure Drop Ratings are based on AMCA Standard 500 using test set-up Fig. 5.3 for damper installed with duct upstream and downstream. Static pressures are corrected to .075 lb./cu.ft. air density.

Leakage
Air Leakage requirements meet international energy conservation code (IECC) by leaking less than 3 cfm/sq.ft. at 1 in.wg and is AMCA licensed as a Class 1A Damper.

Leakage Ratings are based on AMCA Standard 500 using test set-up Fig. 5.5 at an operation temperature range between 50°F & 104°F. Data is based on a seating torque of 40 lb/in for dampers less than 4 sq.ft in size. Dampers above 4 sq.ft., 5 lb/in/sq.ft is applied to hold the damper in the closed position.

Air Balance certifies that the model AC525-526 damper shown herein 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 Rating Seal applies to Air Performance/Air Leakage only.

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

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Linear Air Flow Characteristics

ABI has tested a variety of airfoil blade widths 4", 5", and 6" in various arrangements from all parallel, all opposed, and combinations of parallel and opposed blades in a common frame for a single damper installed in a duct.

Test units were installed in ductwork with duct upstream and downstream per AMCA test set-up Fig. 5.3. Using most common approach velocities and fan static.

The results of the tests show that fan static pressure does have an effect on the linear air flow characteristics of a damper. Graphs below will identify the simulated system conditions used for the single damper in duct system application.

Curves shown in the graphs below show that model AC526 all opposed "as standardly built" is a very effective control damper for use in a variety of velocities and pressures.
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