AIR TIGHT DAMPER

MODEL – HDAL 150

April 2019. Catalogue Atd Rev.2

HUMITECHKOREA CO., LTD.
Air Tight Damper  MODEL—HDAL 150

Application

Air Tight Damper of Humitech Korea Co., Ltd. is a product with airfoil typed blade which is successfully passed through air performance.

Dimension

Standard Construction

- Frame - A6063T5 channel shaped extruded aluminum
- Blade - A6063T5 double skin airfoil shaped extruded aluminum
- Link - A6063T5 extruded aluminum
- Shaft - SM15C Six Angles Bar
- Blade Seal - EPDM Rubber
- Jamb Seal - Stainless Steel
- Bearing - Plastic
Humitech Korea Co., Ltd. certifies that the HDAL150 shown hereon 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.

Test Information
- Tested for air performance in accordance with ANSI/AMCA500- D, Figure 5.3
- Flow Direction: Intake(12"X12",12"X48")
  Exhaust(24"X24",36"X36",48"X12")
- Tested Damper Size: 12"X12", 24"X24", 36"X36", 12"X48", 48"X12" (5Set)

Air Performance
Humitech Korea certifies that the HDAL150 shown hereon 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 Leakage and Air Performance ratings.

**Test Information**

- Air leakage is based on operation between 32°F and 120°F
- Tested for air leakage in accordance with ANSI/AMCA Standard 500-D, Figure 5.4, Alternate-6.3
- Flow Direction: Exhaust (unit tested against the direction of air flow)
- Closure method: Torque arm & hanging weights
- Tested Damper Size: 12"X12", 24"X24", 36"X36", 12"X48", 48"X12", 48"X36" (6Set)
- "Data are based on a torque of "11.1" In-lb/ft² applied to close and seat the damper during the test"

### Torque

<table>
<thead>
<tr>
<th>Damper Size (Inches)</th>
<th>Torque (In-lb/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12X12</td>
<td>39</td>
</tr>
<tr>
<td>24X24</td>
<td>19.3</td>
</tr>
<tr>
<td>36X36</td>
<td>12.8</td>
</tr>
<tr>
<td>12X48</td>
<td>36</td>
</tr>
<tr>
<td>48X12</td>
<td>12.5</td>
</tr>
<tr>
<td>48X36</td>
<td>11.1</td>
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</table>

### Leakage Class

<table>
<thead>
<tr>
<th>Damper Size (Inches)</th>
<th>Pressure</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1 in. wg</td>
</tr>
<tr>
<td>12X12</td>
<td>2</td>
</tr>
<tr>
<td>24X24</td>
<td>1A</td>
</tr>
<tr>
<td>36X36</td>
<td>1A</td>
</tr>
<tr>
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<td>1A</td>
</tr>
<tr>
<td>48X12</td>
<td>2</td>
</tr>
<tr>
<td>48X36</td>
<td>1A</td>
</tr>
</tbody>
</table>

### Air Performance

![Air Performance Graph](image)
Air Tight Damper

MODEL-HDAL 150

Figure 5.3 - Test Damper Setup with Inlet and Outlet Ducts

Figure 5.4 - Test Damper Setup with Outlet Chamber