



AAON Low Leakage Damper



AAON Incorporated certifies that the AAON Low Leakage 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 Ratings Seal applies to air performance and air leakage ratings only.

AMCA Certification

The AAON Low Leakage Damper is available factory installed in AAON air handling unit equipment. The Air Movement and Control Association (AMCA) certification ensures performance of the damper assembly.

AMCA qualifies damper leakage performance according to the amount of air flow through a given face area (cfm/ft²) for a range of pressure drop (in. wg) across the damper. AMCA publishes four different classification levels, Class 1A, Class 1, Class 2, and Class 3, with the lower class numbers specifying greater performance. To be certified, the damper assembly must pass the testing requirements at an AMCA test facility or AMCA sanctioned test facility in accordance to AMCA Publication 511. Table 1 below shows the maximum allowable leakage per classification.

Table 1 - AMCA Classification Criteria

| Classification | Maximum Allowable Leakage, cfm/ft ² | | |
|----------------|--|------------|------------|
| | @ 1 in. wg | @ 4 in. wg | @ 5 in. wg |
| 1A | 3 | N/A | N/A |
| 1 | 4 | 8 | 9 |
| 2 | 10 | 20 | 22 |
| 3 | 40 | 80 | 89 |

AAON Low Leakage Damper

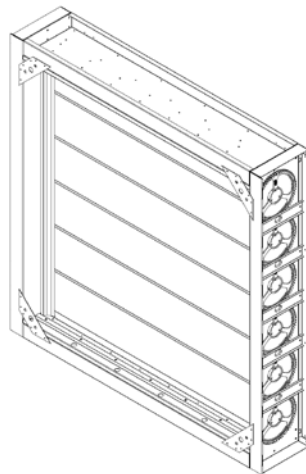


Figure 1 - AAON Low Leakage Damper Drawing

Table 2 - AAON Low Leakage Damper Classifications

| AMCA Leakage Class | | | | |
|--------------------|----------|----------|----------|----------|
| 1 in. wg | 2 in. wg | 3 in. wg | 4 in. wg | 5 in. wg |
| 2 | 2 | 2 | 2 | 2 |

The AAON Low Leakage Damper tested to AMCA 500-D, Figure 5.4 and carries Class 2 certification up to 5 in. wg of Static Pressure at Standard air density.

AAON Low Leakage Damper Performance Specifications

The AAON Low Leakage Damper tested to AMCA 500-D, Figure 5.4 at Standard air density.

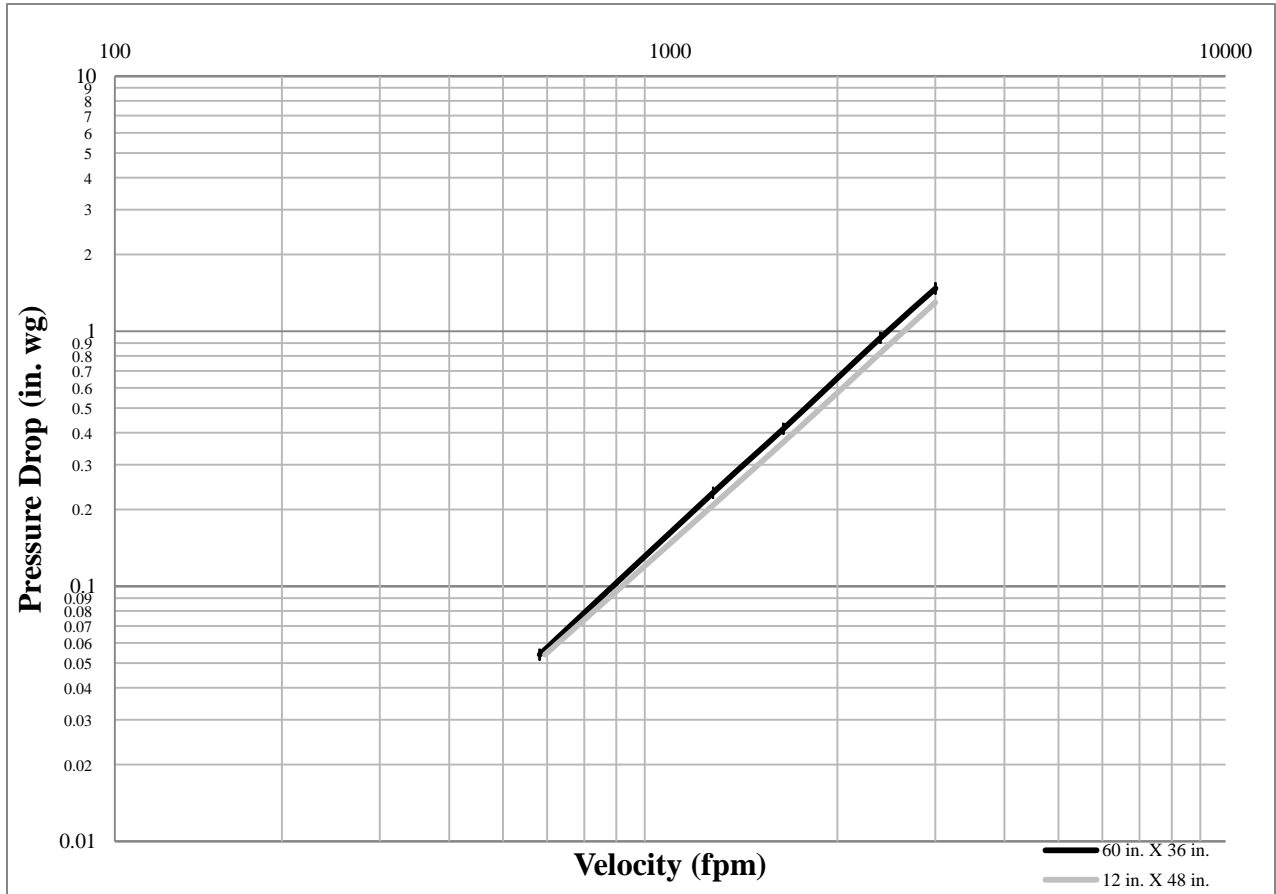


Figure 2 - AAON Damper Performance Curves

Table 3 - 60 in. x 36 in. Damper Performance Results

| 60 in. X 36 in. | | |
|------------------------|----------------|--------------------|
| <i>Test No.</i> | <i>V (fpm)</i> | <i>ΔP (in. wg)</i> |
| 1 | 3005 | 1.47 |
| 2 | 2391 | 0.94 |
| 3 | 1600 | 0.41 |
| 4 | 1195 | 0.23 |
| 5 | 582 | 0.05 |

Table 4 - 12 in. x 48 in. Damper Performance Results

| 12 in. X 48 in. | | |
|------------------------|----------------|--------------------|
| <i>Test No.</i> | <i>V (fpm)</i> | <i>ΔP (in. wg)</i> |
| 1 | 3003 | 1.30 |
| 2 | 2402 | 0.83 |
| 3 | 1801 | 0.47 |
| 4 | 1200 | 0.21 |
| 5 | 595 | 0.05 |



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It is the intent of AAON to provide accurate up-to-date specification data. However, in the interest of ongoing product improvement, AAON, Inc. reserves the right to change specifications and/or design of any product without notice, obligation, or liability.

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AAON products are covered by one or more of the following U.S. Patents: 5,738,167; 5,826,641; 5,839,505; 6,431,979; 6,437,469; 6,715,312; 6,729,096; 6,802,543