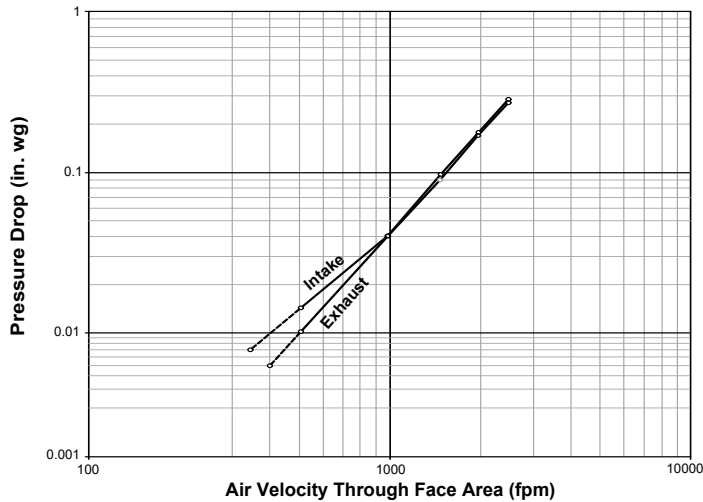


PRESSURE DROP - INTAKE AND EXHAUST:

Air Performance testing has been performed in accordance with Test Method as per latest version of ANSI/AMCA Standard 500-D, Figure 5.3 (Duct Upstream and Downstream).

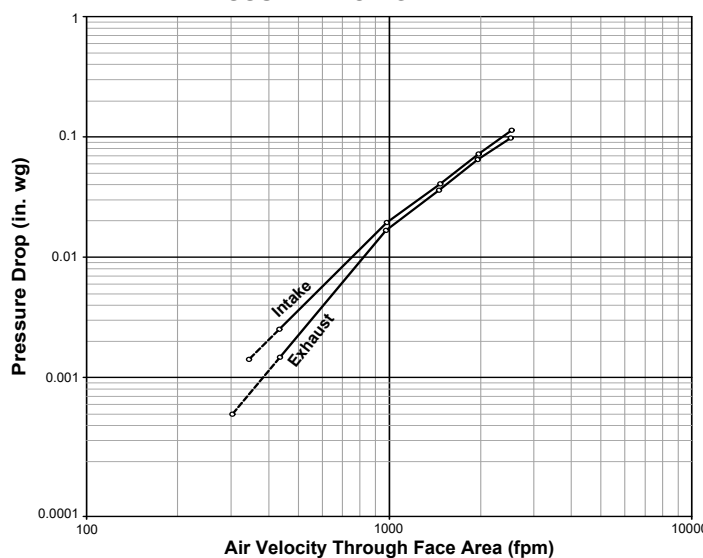
PRESSURE DROP GRAPH - 12" x 12"



PRESSURE DROP OF DAMPER

| 12" x 12" - (305 x 305) | | | |
|-------------------------|---------------|----------|---------------|
| Intake | | Exhaust | |
| Velocity | Pressure Drop | Velocity | Pressure Drop |
| (fpm) | (in. w.g.) | (fpm) | (in. w.g.) |
| 2474 | 0.283 | 2470 | 0.271 |
| 1969 | 0.176 | 1962 | 0.169 |
| 1476 | 0.097 | 1468 | 0.089 |
| 985 | 0.04 | 986 | 0.04 |
| 507 | 0.014 | 505 | 0.01 |

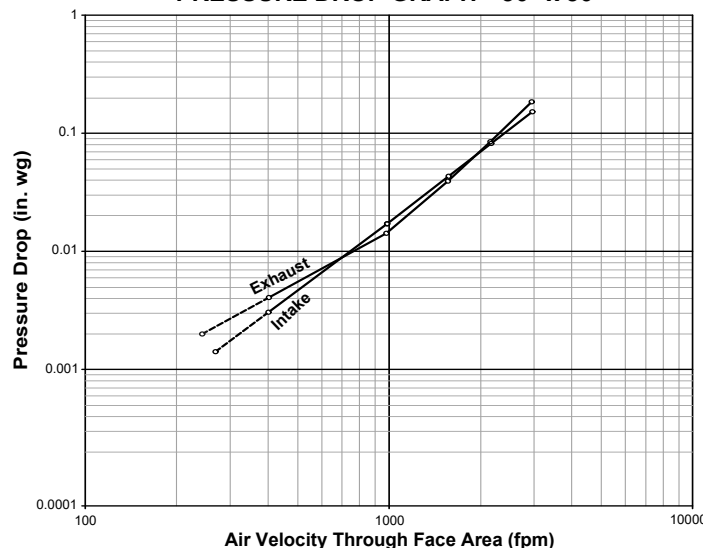
PRESSURE DROP GRAPH - 24" x 24"



PRESSURE DROP OF DAMPER

| 24" x 24" - (610 x 610) | | | |
|-------------------------|---------------|----------|---------------|
| Intake | | Exhaust | |
| Velocity | Pressure Drop | Velocity | Pressure Drop |
| (fpm) | (in. w.g.) | (fpm) | (in. w.g.) |
| 2534 | 0.114 | 2530 | 0.098 |
| 1967 | 0.072 | 1965 | 0.065 |
| 1473 | 0.041 | 1471 | 0.036 |
| 979 | 0.02 | 977 | 0.017 |
| 432 | 0.003 | 436 | 0.001 |

PRESSURE DROP GRAPH - 36" x 36"



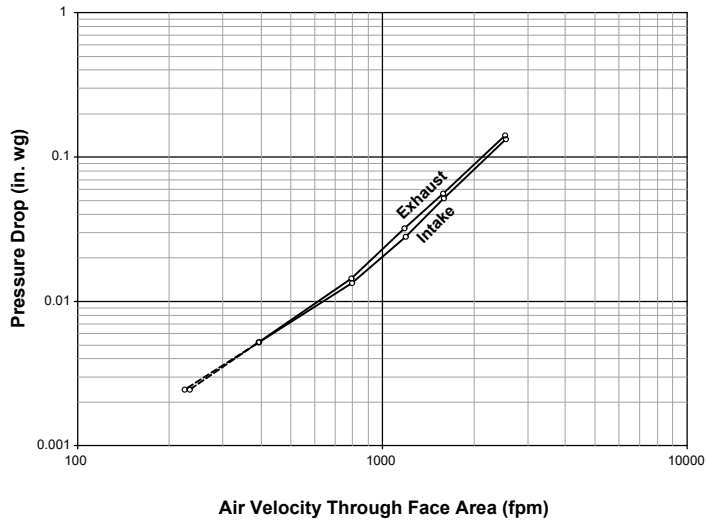
PRESSURE DROP OF DAMPER

| 36" x 36" - (610 x 610) | | | |
|-------------------------|---------------|----------|---------------|
| Intake | | Exhaust | |
| Velocity | Pressure Drop | Velocity | Pressure Drop |
| (fpm) | (in. w.g.) | (fpm) | (in. w.g.) |
| 2949 | 0.153 | 2949 | 0.185 |
| 2162 | 0.082 | 2162 | 0.085 |
| 1570 | 0.044 | 1570 | 0.04 |
| 982 | 0.017 | 982 | 0.014 |
| 400 | 0.003 | 404 | 0.004 |

PRESSURE DROP - INTAKE AND EXHAUST:

Air Performance testing has been performed in accordance with Test Method as per latest version of ANSI/AMCA Standard 500-D, Figure 5.3 (Duct Upstream and Downstream).

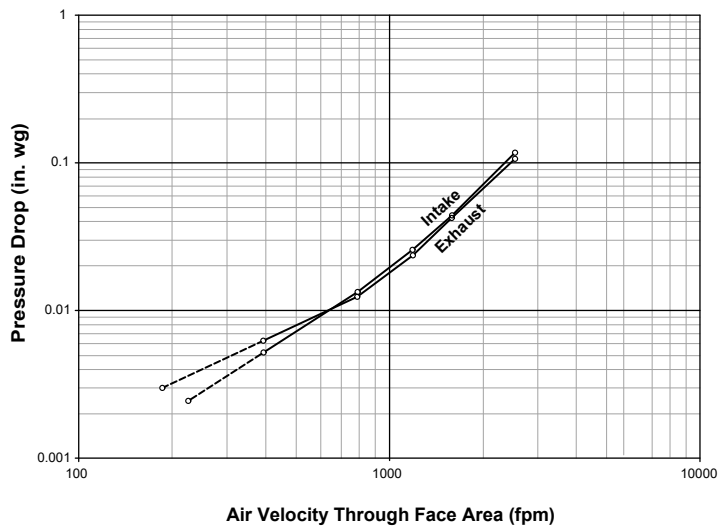
PRESSURE DROP GRAPH - 12" x 48"



PRESSURE DROP OF DAMPER

| 12" x 48" - (305 x 1219) | | | |
|--------------------------|---------------|----------|---------------|
| Intake | | Exhaust | |
| Velocity | Pressure Drop | Velocity | Pressure Drop |
| (fpm) | (in. w.g.) | (fpm) | (in. w.g.) |
| 2534 | 0.133 | 2533 | 0.142 |
| 1589 | 0.052 | 1588 | 0.056 |
| 1188 | 0.028 | 1187 | 0.032 |
| 792 | 0.013 | 791 | 0.014 |
| 394 | 0.005 | 394 | 0.005 |

PRESSURE DROP GRAPH - 48" x 12"



PRESSURE DROP OF DAMPER

| 48" x 12" - (1219 x 305) | | | |
|--------------------------|---------------|----------|---------------|
| Intake | | Exhaust | |
| Velocity | Pressure Drop | Velocity | Pressure Drop |
| (fpm) | (in. w.g.) | (fpm) | (in. w.g.) |
| 2532 | 0.107 | 2531 | 0.118 |
| 1587 | 0.043 | 1587 | 0.045 |
| 1189 | 0.024 | 1187 | 0.026 |
| 789 | 0.012 | 789 | 0.013 |
| 394 | 0.006 | 394 | 0.005 |

CVSA
DAMPER SERIES



SUGGESTED SPECIFICATION:

Central Ventilation Systems certifies that the Hat Shape VCD Models CDH Series as shown herein are 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 Programs.

The AMCA Certified Ratings Seal applies to air performance and air leakage ratings only.

| Cat ID: | Rev. No.: | Date: | Page: |
|------------|-----------|-----------|-------|
| CDH Series | 00 | June 2023 | 7/9 |

AIR LEAKAGE

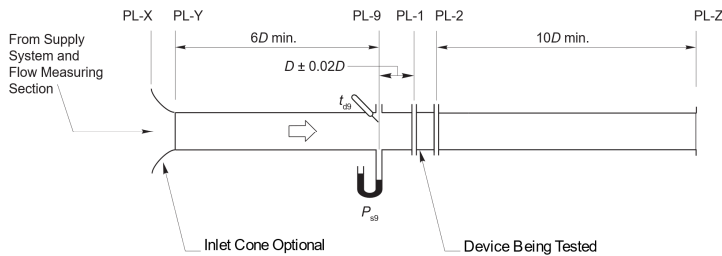
Tested for air leakage at standard air density in accordance with latest version of ANSI/AMCA Standard 500-D, Figure 5.4.

Data are based on a torque of 44in-lbs./ft² applied to close and seal the damper during the test. Air leakage is based on operation between 0°C-49°C (32°F-120°F).

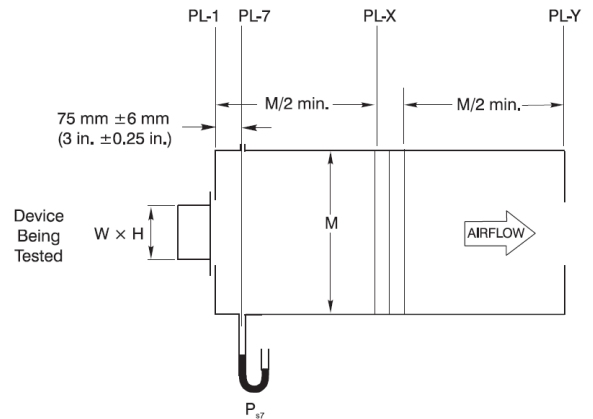
| Maximum Allowable Leakage, cfm/ft ² | | | | | |
|--|------------|------------|------------|------------|------------|
| Class | 1 in. w.g. | 2 in. w.g. | 3 in. w.g. | 4 in. w.g. | 6 in. w.g. |
| 1A | 3 | N/A | N/A | N/A | N/A |
| 1 | 4 | 6 | 7 | 8 | 10 |
| 2 | 10 | 14 | 17 | 20 | 25 |

| AMCA Leakage Class | | | | | |
|---------------------------------------|------------|------------|------------|------------|------------|
| Damper Size | 1 in. w.g. | 2 in. w.g. | 3 in. w.g. | 4 in. w.g. | 6 in. w.g. |
| 36 inch. x 36 inch. (914 mm x 914 mm) | Class 1A | Class 1 | Class 1 | Class 1 | Class 1 |

Test Figure 5.3 - Test Damper Setup with Inlet and Outlet Ducts



Test Figure 5.4 - Test Damper Setup with Outlet Chamber



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SUGGESTED SPECIFICATION:

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The AMCA Certified Ratings Seal applies to air performance and air leakage ratings only.

| | | | |
|-----------------------|-----------------|--------------------|--------------|
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