



### الــمــاك للـمــنتـجات الـهـند سبيـة AL MULLA ENGINEERING PRODUCTS



Volume Control Damper (VCD) Back Draft Damper (BDD)



Al Mulla Air Movement Solutions

Air Duct and Air Movement Products (AD&AMP) manufacturing facilities of Al Mulla Group are located in Kuwait.

Al Mulla Industries (AMI) covers the Kuwait market requirements through a reliable transport network.

Promoted by Al Mulla Engineering Products and Al Mulla International General Trading of Equipment & Machinery Co. W.L.L. on behalf of Al Mulla Industries, with manufacturing facilities in Kuwait

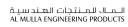


### Why Do Customers Choose Us

The greatest strengths of Al Mulla Industries are its skilled and experienced workforce, in addition to the use of latest design software, codes, and QHSE (Quality, Health, Safety, and Environment) standards that conform to ISO 9001, 14001 and 18001. In addition to Airduct and Air Movement Products, Al Mulla Industries is also a leading manufacturer and fabricator of quality steel products that cater to a wide variety of industries and clients in Kuwait such as Oil & Gas, Logistics, Chemical Industry, Construction, Cleaning and the Military.

The Company's manufacturing units are located in Kuwait. The plant in Kuwait has a total work-area of over 13,000 sq m. The Company has a team of highly skilled and trained work force, and is equipped with modern machinery as per latest standards in order to meet environmental requirements.





# Dampers

Al Mulla Industries manufactures a wide range of Dampers that cater to a variety of specialized HVAC applications. Robust design and sturdy construction ensure that our customers enjoy a product line that is safe, reliable, durable, and hassle-free.

- Volume Control Damper Manual
- Volume Control Damper Motorized
- Back Draft Damper



### **Volume Control Dampers**

AM-VCD-3V-P / AM-VCD-3V-O (Manual) AM-VCDM-3V-P / AM-VCDM-3V-O (Motorized)

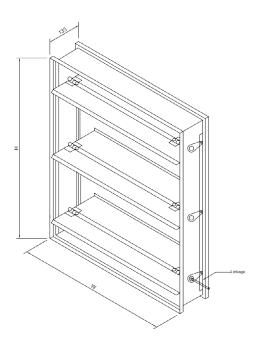
This series of Volume Control Dampers are designed and tested to provide reliable and cost effective solution where tight sealing is not of primary importance. These dampers are available in parallel or opposed blade construction, with optional blade seals that ensure minimum leakage through the blades.

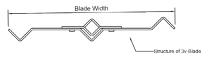
#### **Technical Details:**

Component	Specification	
Model No.	AM-VCD-3V-P / AM-VCD-3V-0 (Manual) AM-VCDM-3V-P / AM-VCDM-3V-0 (Motorized)	
Sizes: (W x H) Minimum Size	6" x 6" (152 mm x 152 mm)	
Maximum Size	<ul> <li>Single Section: 36" x 48" (914 mm x 1219 mm)</li> <li>Max. Single Section: 48" x72" (1219 mm x 1829 mm)</li> <li>Max. Multiple Section: Unlimited</li> </ul>	
Frame	Roll formed Galvanized Steel Hat Section, 20/16 GA	
Blades	16Ga - 3V Type - Roll Formed Galvanized Steel. Min. Width 5.25", Max Width 7.25"	
Bearings	Nylon / Bronze Oilite, press-fit into frame	
Axies	Square, plated steel	
Linkage	12 GA galvanized steel Linkage Bars, concealed in the frame	
Finish	Mill galvanised	
Sleeve Thickness	Various length and gauges	
Mounting Type	Slip in / Flange Type / Pocket Joints	
Actuators	Honeywell / Belimo/ Siemens/ Rotork	
Optional Features	<ol> <li>Available in Low Leakage I</li> <li>Factory Mounted Actuators</li> <li>Factory fabricated retaining angles</li> </ol>	











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# Volume Control Dampers

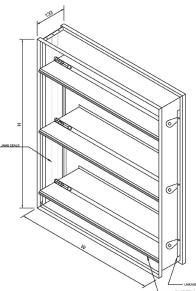
AM-VCD-3V-P-L / AM-VCD-3V-O-L (Manual) AM-VCDM-3V-P-L / AM-VCDM-3V-O-L (Motorized)

This series of low leakage Volume Control Dampers are designed and tested to provide reliable and cost effective solution where tight sealing is of primary importance. These dampers are available in parallel or opposed blade construction, with blade seals that ensure minimum leakage through the blades.

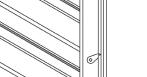
#### **Technical Details:**

Component	Specification
Model No.	AM-VCD-3V-P-L / AM-VCD-3V-O-L (Manual) AM-VCDM-3V-P-L / AM-VCDM-3V-O-L (Motorized)
Sizes: (W x H) Minimum Size	Minimum Size (WT x HT): 6" x 6" (152 mm x 152 mm)
Maximum Size	<ul> <li>Single Section: 36" x 48" (914 mm x 1219 mm)</li> <li>Max. Single Section: 48" x 72" (1219 mm x 1829 mm)</li> <li>Max. Multiple Section: Unlimited</li> </ul>
Frame	Roll formed Galvanized Steel Hat Section, 20/16 GA
Blades	16Ga - 3V Type - Roll Formed Galvanized Steel. Min. Width 5.25", Max Width 7.25"
Bearings	Nylon / Bronze Oilite, press-fit into frame
Seals	Pressure sensitive blade seals and flexible metal jamb seals
Axies	Square, plated steel
Linkage	12 GA galvanized steel Linkage Bars, concealed in the frame
Finish	Mill galvanised
Sleeve Thickness	Various length and gauges
Mounting Type	Slip in / Flange Type / Pocket Joints
Actuators	Honeywell / Belimo/ Siemens/ Rotork
Optional Features	<ol> <li>Factory Mounted Actuators</li> <li>Factory fabricated retaining angles</li> </ol>





Blade Width



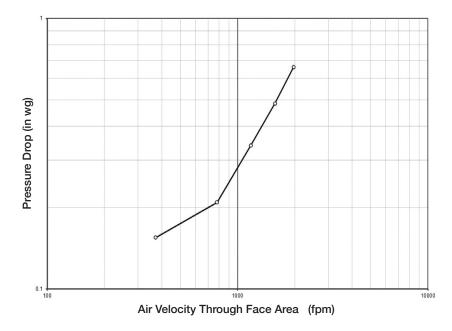






3v-Blade

Model Name : Volume Control Damper Model Number : AM-VCD-3V-O-L Size : 12 x 12 Inch Square Blade Position : Opposed Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>p</sub> (in wg.)	V (fpm)
1	0.16	371
2	0.21	779
3	0.34	1172
4	0.49	1573
5	0.66	1965



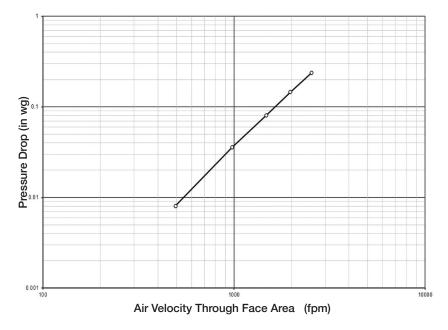
Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-3V-O-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.





Model Name : Volume Control Damper Model Number : AM-VCD-3V-P Size : 24 x 24 Inch Square Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	Δ <b>P</b> s (in wg.)	<b>V</b> (fpm)
1	0.008	494
2	0.04	979
3	0.08	1478
4	0.15	1973
5	0.24	2542

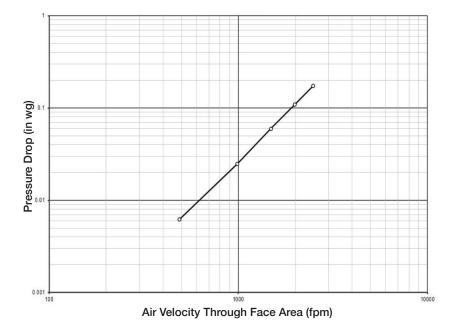


Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-3V-P. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.



Model Name : Volume Control Damper Model Number : AM-VCD-3V-O-L Size : 36 x 36 Inch Square Blade Position : Opposed Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>p</sub> (in wg.)	V (fpm)
1	0.006	488
2	0.03	988
3	0.06	1486
4	0.11	1988
5	0.18	2488

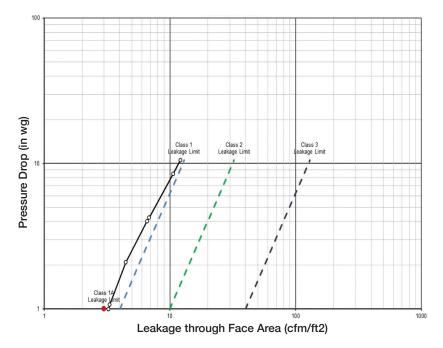


Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-3V-O-L.The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.



Model Name : Volume Control Damper Model Number : AM-VCD-3V-P-L Size : 12 x 48 Inch (WxH) Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>ο</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)	Leakage Class
1	1.07	3.3	1
2	2.09	4.5	1
3	4.25	6.8	1
4	8.52	10.6	1
5	10.53	12.1	1



Al Mulla Industries certifies that the Low leakage volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-3V-P-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

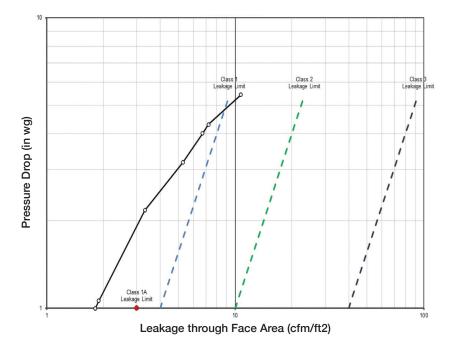
The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.

**Test Information:** Air Leakage is based on operation between 32 Degree F and 120 Degree F Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate. Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.3.

Torque: Data is based on torque of 94.9 in-lb/square feet applied to close and seal the damper during test.



Model Name : Volume Control Damper Model Number : AM-VCD-3V-P-L Size : 48 x 36 Inch (WxH) Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>b</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)	Leakage Class
1	1.06	1.9	1 A
2	2.17	3.3	1
3	3.18	5.3	1
4	4.29	7.2	1
5	5.43	10.7	2



Al Mulla Industries certifies that the Low leakage volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-3V-P-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.

**Test Information:** Air Leakage is based on operation between 32 Degree F and 120 Degree F Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate. Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.3.

Torque: Data is based on torque of 132 in-lb/square feet applied to close and seal the damper during test.



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## Volume Control Dampers

#### AM-VCD-AF-P / AM-VCD-AF-O (Manual) AM-VCDM-AF-P / AM-VCDM-AF-O (Motorized)

Al Mulla VCD series control dampers are designed & tested to provide a reliable cost effective control damper where tight sealing is not of primary importance.

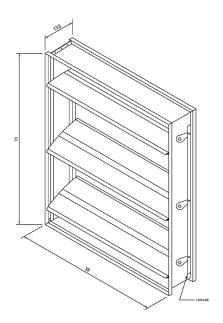
These dampers are available in parallel or opposed blade construction with blade seals to ensure minimum leakage through the blades.

#### Technical Details:

Component	Specification	
Model No.	AM-VCD-AF-P / AM-VCD-AF-O (Manual) AM-VCDM-AF-P / AM-VCDM-AF-O (Motorized)	
Sizes: (W x H) Minimum Size	8"w x 8"h (203mm x 203mm)	
Maximum Size	<ul> <li>Single Section: 48"w x 72"h (1219mm x 1829mm)</li> <li>Max. Multiple Section: Unlimited</li> </ul>	
Frame	Roll formed Galvanized Steel Hat Section, 20/16 GA	
Blades	Airfoil Shaped, double skin galvanized steel of roll formed construction, mechanically joined to form construction equivalent to 16Ga steel	
Bearings	Nylon / Bronze Oilite, press-fit into frame.	
Axies	Square, plated steel.	
Linkage	Concealed in frame. Linkage bars are 12ga galvanized steel.	
Extended Shaft	Removable, 6"long , ½"Dia	
Finish	Mill galvanised	
Sleeve Thickness	Various Length & Gauges	
Mounting Type	Slip in / Flange Type / Pocket Joints	
Optional Features	<ol> <li>Bronze Oilite</li> <li>Factory Mounted Actuators</li> <li>Factory fabricated retaining Angles</li> </ol>	









### **Volume Control Dampers**

AM-VCD-AF-P-L / AM-VCD-AF-O-L (Manual) AM-VCDM-AF-P-L / AM-VCDM-AF-O-L (Motorized)



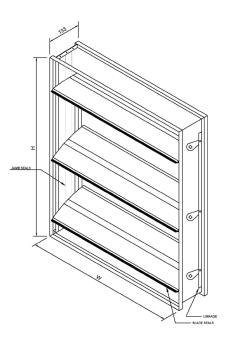
Al Mulla VCD series control dampers are designed & tested to provide a reliable cost effective control damper where tight sealing is of primary importance.

These dampers are available in parallel or opposed blade construction with blade seals to ensure minimum leakage through the blades.

#### **Technical Details:**

Component	Specification	
Model No.	AM-VCD-AF-P-L / AM-VCD-AF-O-L (Manual) AM-VCDM-AF-P-L / AM-VCDM-AF-O-L (Motorized)	
Sizes: (W x H) Minimum Size	8"w x 8"h (203mm x 203mm)	
Maximum Size	<ul> <li>Single Section: 48"w x 72"h (1219mm x 1829mm)</li> <li>Multiple Section: Unlimited</li> </ul>	
Frame	Roll formed Galvanized Steel Hat Section, 20/16 GA	
Blades	Airfoil Shaped, double skin galvanized steel of roll formed construction, mechanically joined to form construction equivalent to 16Ga steel	
Bearings	Nylon / Bronze Oilite, press-fit into frame.	
Seals	Pressure sensitive blade seals and flexible metal jamb seals	
Axies	Square, plated steel.	
Linkage	Concealed in frame. Linkage bars are 12ga galvanized steel.	
Extended Shaft	Removable, 6"long , ½"Dia	
Finish	Mill galvanised	
Sleeve Thickness	Various length and gauges	
Mounting Type	Slip in / Flange Type / Pocket Joints	
Optional Features	<ol> <li>Bronze Oilite</li> <li>Factory Mounted Actuators</li> <li>Factory fabricated retaining Angles</li> </ol>	

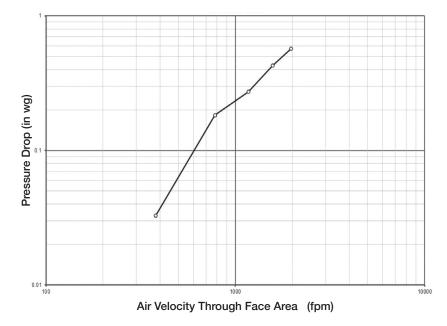




Catalogue ID : DAMPER, March, 2024



Model Name : Volume Control Damper Model Number : AM-VCD-AF-P-L Size : 12 x 12 Inch Square Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>ο</sub> (in wg.)	V (fpm)
1	0.57	1968
2	0.43	1572
3	0.27	1172
4	0.18	780
5	0.03	380



Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-AF-P-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

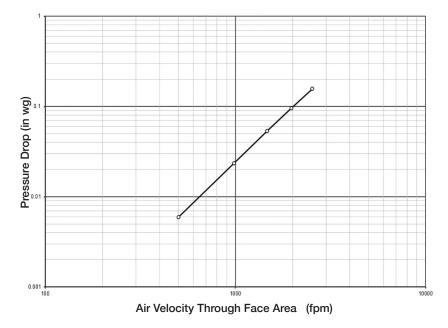
The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings

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Model Name : Volume Control Damper Model Number : AM-VCD-AF-O Size : 24 x 24 Inch Square Blade Position : Opposed Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔP <sub>b</sub> (in wg.)	V (fpm)
1	0.16	2535
2	0.10	1970
3	0.05	1469
4	0.02	983
5	0.006	501

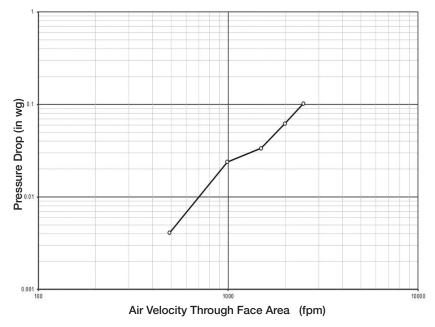


Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-AF-0. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.



Model Name : Volume Control Damper Model Number : AM-VCD-AF-P Size : 36 x 36 Inch Square Blade Position : Parallel Flow Direction : Exhaust



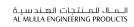
#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>ο</sub> (in wg.)	<b>V</b> (fpm)
1	0.004	491
2	0.02	989
3	0.03	1492
4	0.06	1989
5	0.10	2490



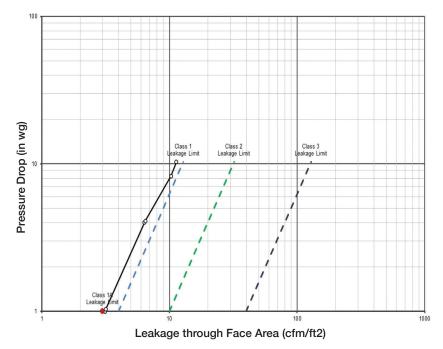
Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-AF-P. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.





Model Name : Volume Control Damper Model Number : AM-VCD-AF-P-L Size : 12 x 48 Inch (WxH) Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>ο</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)	Leakage Class
1	1.03	3.2	1
2	4.10	6.5	1
3	8.26	10.3	1
4	10.32	11.3	1



Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-AF-P. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.

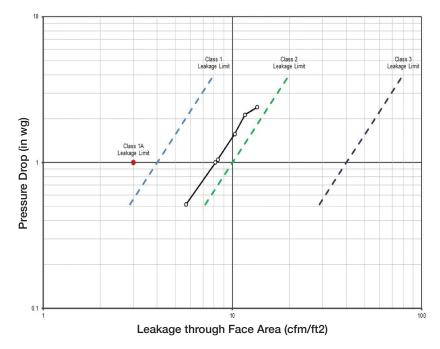
**Test Information:** Air Leakage is based on operation between 32 Degree F and 120 Degree F Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate. Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.3.

**Torque:** Data is based on torque of 67.5 in-lb/square feet applied to close and seal the damper during test.





Model Name : Volume Control Damper Model Number : AM-VCD-AF-P-L Size : 48 x 36 Inch (WxH) Blade Position : Parallel Flow Direction : Exhaust



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>ο</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)	Leakage Class
1	0.52	5.7	2
2	1.05	8.4	2
3	1.57	10.3	2
4	2.12	11.6	2
5	2.40	13.5	2



Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCD-AF-P-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.

**Test Information:** Air Leakage is based on operation between 32 Degree F and 120 Degree F Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate. Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.3.

Torque: Data is based on torque of 64 in-lb/square feet applied to close and seal the damper during test.



### **Volume Control Dampers**

AM-VCRD / AM-VCRD-L (Manual) AM-VCRDM / AM-VCRDM-L (Motorized)

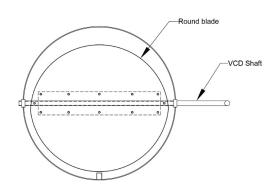
Al Mulla VCDRD series of Control Dampers are designed and tested to provide reliable as well as cost effective damper solutions.

#### **Technical Details:**

Component	Specification	
Model No.	AM-VCRD / AM-VCRD-L (Manual) AM-VCRDM / AM-VCRDM-L (Motorized)	
Sizes: (W x H) Minimum Size	Minimum: 8" Diameter (204 mm)	
Maximum Size	Maximum: 24" Diameter (610 mm)	
Frame	Roll formed Galvanized	
Blades	Galvanized steel with welded channel reinforcement	
Bearings	Nylon/ Bronze Oilite, press-fit into frame	
Axies	Square, plated steel	
Finish	Mill galvanized	
Mounting Type	Slip in/ Flange Type/ Pocket Joints	









Model Name : Volume Control Damper Model Number : AM-VCRD-L Size : 8 Inch Dia. / 12 Inch Dia. Blade Position : Parallel Flow Direction : Exhaust for 8" and intake for 12"

	Air flow Leakage at standard air i/p (SCFM)				
Static Pressure (in wg) Damper Diameter	1	1.75	2.5	3.25	4
8 in	0.77	1.09	1.32	1.51	1.85
12 in	2.74	3.46	4.11	12.66	5.01
Leakage Class	1A	1	1	1	1

Torque: Data is based on torque of 31.5 in-lb/square feet applied to close and seal the damper during test for 8" damper Data is based on torque of 13.5 in-lb/square feet applied to close and seal the damper during test for 12" damper

Pressure Class	1.00" W.G.	4.00"W.G	8.00"W.G.
1A	3	N/A	N/A
1	4	8	11
2	10	20	28
3	40	80	112

#### Maximum allowable leakage

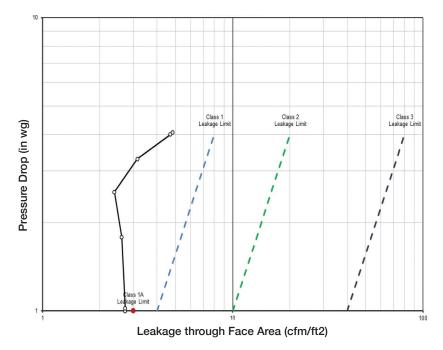


Al Mulla Industries certifies that the round volume control damper shown herein is licensed to bear the AMCA seal for model AM-VCRD-L.The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.



Model Name : Volume Control Damper Model Number : AM-VCRD-L Size : 24 Inch Dia. Blade Position : Close Flow Direction : Intake



#### **Device Test Results at Standard Air:**

Det. No.	ΔΡ <sub>Β</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)	Leakage Class
1	1.02	2.7	1A
2	1.78	2.6	1
3	2.54	2.4	1
4	3.30	3.2	1
5	4.06	4.8	1



Al Mulla Industries certifies that the volume control damper shown herein is licensed to bear the AMCA seal for model # AM-VCRD-L. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Leakage and Air Performance Ratings.

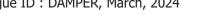
**Test Information:** Air Leakage is based on operation between 32 Degree F and 120 Degree F Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate. Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.3.

Torque: Data is based on torque of 99 in-lb/square feet applied to close and seal the damper during test.





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### **Extruded Aluminum Back Draft Dampers**

#### Model: AM-BDD-EX

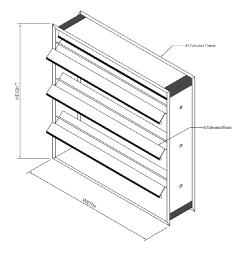
AM-BDD-EX is a commercial Back Draft Damper that is designed to allows air flow only in one direction and prevents back flow. The frame and blades are manufactured with extruded aluminum, making them rugged and suitable for velocities up to 2500 FPM.

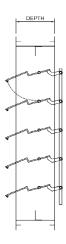
#### **Technical Details:**

Component	Specification	
Model No.	AM-BDD-EX	
Sizes: (W x H) Minimum Size	Minimum Size: 6" x 6" (152 mm x 152 mm)	
Maximum Size	Maximum Size: 36" x 40" (914 mm x 1219 mm)	
Frame	Extruded Aluminum	
Blades	Extruded Aluminum	
Bearings	Aluminum	
Axies	Aluminum	
Blade Seals	Vinyl Blade Seals	
Linkage	Heavy gauge Aluminum brackets with Aluminum linkage bar	
Finish	Mill Aluminum	
Optional Features	<ol> <li>Counterweight</li> <li>Flange Frame, front or rear</li> <li>Horizontal Mount (Up blast only)</li> </ol>	



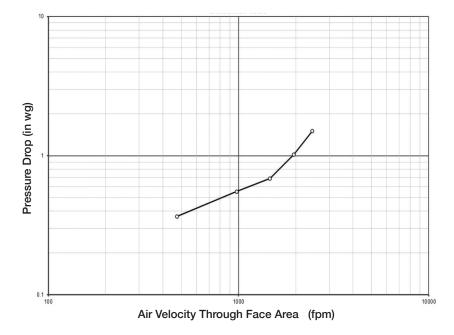






Blade Opening

Model Name : Back Draft Damper Model Number : AM-BDD Size : 24 x 24 Inch Square Blade Position : N/A Flow Direction : Intake



#### **Device Test Results at Standard Air:**

Det. No.	Δ <b>Ρ</b> <sub>b</sub> (in wg.)	<b>V</b> (fpm)
1	1.51	2441
2	1.02	1955
3	0.69	1463
4	0.55	977
5	0.37	475



Al Mulla Industries certifies that the back draft damper shown herein is licensed to bear the AMCA seal for model # AM-BDD. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Performance Ratings and Air Leakage rating.

**Test Information:** Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.5.

Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate.





Model Name : Back Draft Damper Model Number : AM-BDD Size : 24 x 24 Inch Square Blade Position : Close Flow Direction : Intake



#### **Device Test Results at Standard Air:**

Det. No.	ΔP <sub>p</sub> (in wg.)	<b>Q<sub>p</sub>/A</b> (cfm/ft²)
1	5.08	148.2
2	4.06	125.4
3	2.02	78.2
4	1.01	53.4



Al Mulla Industries certifies that the back draft damper shown herein is licensed to bear the AMCA seal for model # AM-BDD. The rating shown are based on test and procedures performed in accordance with AMCA publication 511 and comply with the requirements of AMCA certified Rating Program.

The AMCA certified ratings Seal applies to Air Performance Ratings and Air Leakage rating.

**Test Information:** Tested for air performance in accordance with ANSI/AMCA Standard 500-D-18(Pressure Drop), Fig. 5.5.

Tested for air leakage in accordance with ANSI/AMCA Standard 500-D-18(leakage), Fig. 5.4 Alternate.







Manufacturing Facilities:

Al Mulla Industries Co.