

Model: AEROVAC – VCD – AV-11-GALF/AV-11-ALALF
Model: AEROVAC – MVCD-GALF-200 /MVCD-ALALF-200

AEROVAC – AV-11-GALF/AV-11-ALALF Volume Control Dampers are the most cost-effective choice for use in low to medium pressure and velocity commercial HVAC systems. They are high-quality, low-cost dampers that meet or exceed most stringent specification requirements & applications.

Design features include durable steel construction, a sturdy Galvanized steel hat channel frame providing superior structural strength, Extruded aluminum air foil blade with less pressure drop characteristics, superior rigidity and deflection resistance, with Galvanized steel blade axles and long life corrosion resistant Nylon / Brass bearings, no-maintenance concealed linkage enclosed in the side frame out of the air stream for reduced pressure drop, air turbulence and noise. A variety of electric actuators are available for factory or field mounting along with a comprehensive selection of options to meet specific installation requirements and applications.

STANDARD CONSTRUCTION:

- Frame:** 20-16 Ga. Galvanized Steel hat channel.
- Blade:** 6"(150) & 4"(100) wide, 18 ga. (1.2) Aluminium Extruded aerofoil double skin blade design. Equivalent Thickness of 2.4mm. Parallel or opposed action.
- Linkage:** Concealed type totally enclosed within the frame & out of the air stream (Plated steel).
- Bearings:** 12mm Nylon Bush.
- Axles:** 12mm Galvanized Steel.
- Blade seals:** Foam gasket.
- Operation:** Manual Quadrant / Electric actuator [Model: MVCD-GALF-200 / MVCD-ALALF-200]

Minimum	Maximum	
Single Section	Single Section	Multiple Section
100 x 100mm	1200 x 1200mm	Unlimited

Temperature Range: -40°F to 200°F (-40°C to 93°C)

OPTIONAL CONSTRUCTION

- Frame: Aluminium /Stainless Steel constructions available.
- Bearings: Brass, Bronze, Stainless Steel available.
- Compression type Stainless steel jamb seal will be provided at the side of the damper for low leakage requirement.
- Blade seals: Silicone rubber gasket available.
- Concealed linkage cover on both sides.
- S & C, Plain and Flange connection frames available.



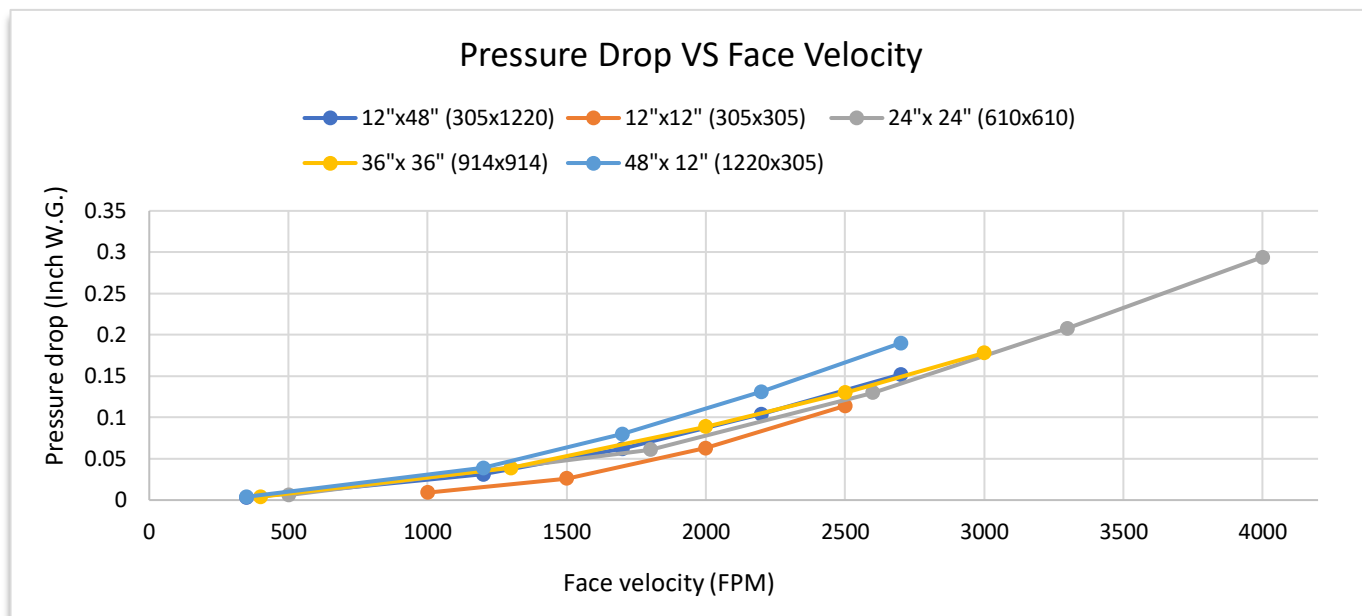
- Heavier gauge frame construction for heavy duty application.
- Front, rear or double flange frame (with or without bolt holes)
- Linkage mechanism / Gear drive mechanism



Prime A/C Industries LL.C Certifies that the model AV-11-GALF/AV-11-ALALF shown herewith is licensed to bear the AMCA seal. The rating 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 Rating seal applies to Air performance and Leakage ratings only.

AIR PERFORMANCE DATA:

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).



12"x48" (305x1220)			
Velocity		Pressure drop	
fpm	m/s	inch W.G	Pa.
350	1.8	0.003	1
1200	6.1	0.031	7
1700	8.6	0.062	15
2200	11.2	0.104	26
2700	13.7	0.152	38

12"x12" (305x305)			
Velocity		Pressure drop	
fpm	m/s	inch W.G	Pa.
500	2.5	0.009	2
1000	5.1	0.026	6
1500	7.6	0.063	15
2000	10.2	0.114	28
2500	12.7	0.174	44

24"x 24" (610x610)			
Velocity		Pressure drop	
fpm	m/s	inch W.G	Pa.
500	2.5	0.006	1
1800	9.1	0.061	15
2600	13.2	0.13	32
3300	16.8	0.208	52
4000	20.3	0.294	74

36"x 36" (914x914)			
Velocity		Pressure drop	
fpm	m/s	inch W.G	Pa.
400	2.0	0.004	1
1300	6.6	0.039	9
2000	10.2	0.089	22
2500	12.7	0.13	32
3000	15.2	0.178	45

48"x 12" (1220x305)			
Velocity		Pressure drop	
fpm	m/s	inch W.G	Pa.
350	1.8	0.004	1
1200	6.1	0.039	9
1700	8.6	0.08	20
2200	11.2	0.131	32
2700	13.7	0.19	48



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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 110/330 in.-lbs. applied to close and seal the damper during the test.

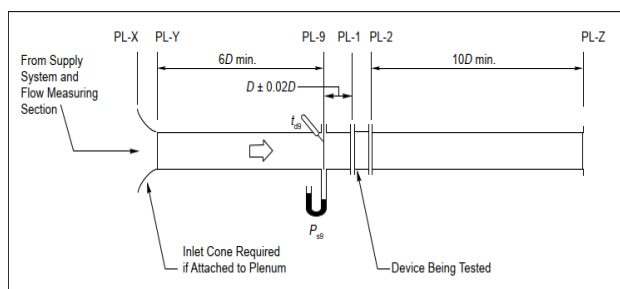
Air leakage is based on operation between 0°C-49°C (32°F-120°F).

Recorded Data:

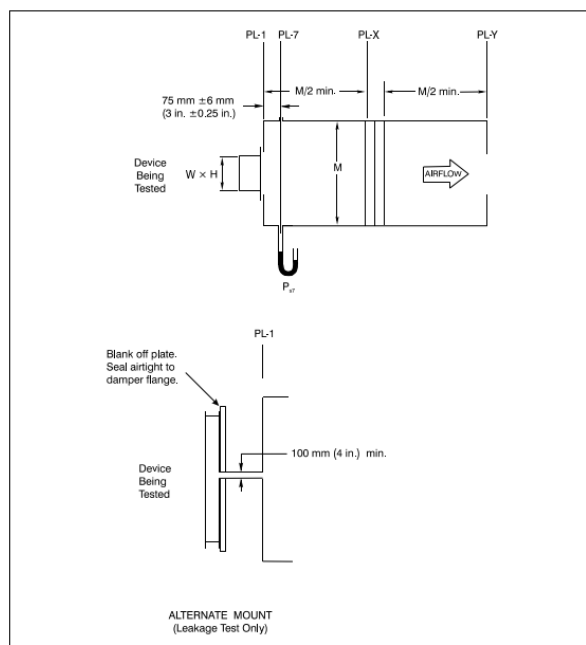
AMCA Leakage Class					
Damper Size	1 in. W.G.	2 in. W.G.	3 in. W.G.	4 in. W.G.	5 in. W.G.
12 x 48	Class 1A	Class 1	Class 1	Class 1	Class 1
48 x 36	Class 1A	Class 1	Class 1	Class 2	-

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

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



Test Figure 5.4 - Test Damper Setup with Outlet Chamber





■ MANUFACTURER AND SUPPLIER

HEAD OFFICE

P.O. BOX: 76345, DUBAI INVESTMENT PARK-II
TEL: +971 4 807 0029, DUBAI, UAE

UMM AL QUWAIN: NEW INDUSTRIAL AREA

TEL: +971 4 807 0010
E-mail : primeac@emirates.net.ae

BRANCH OFFICE

P.D. BOX: 114847, ABU DHABI
TEL: +971 2 555 4748
E-mail: primeac@emirates.net.ae
info@primeaircon.com



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