Extruded Silicone Rubber Seal at

Stainless Steel

Closed Blade Detail

(Note overlap of blades.)

Assist Blade

Linkage as

required.

1/2" Dia. Pin-lock

Axle Shaft with Double-Sealed

Extruded stop at

top and bottom.

Bearings

Spring Steel

Jamb Seal

Blade Edge

STANDARD MATERIALS AND CONSTRUCTION

FRAME: 12 GA (.081" nominal) extruded aluminum. Hat channel

with reinforcing bosses and groove inserts for silicone

seals. Frame is 5" deep.

BLADE: 12-GA (.081" nominal) extruded aluminum. Single unit

airfoil design, with the pin-lock an integral section within

the blade core. 6" wide.

SHAFTS: ½" dia. extruded aluminum, pin-lock design interlocking into

blade section.

BEARINGS: "Double-Sealed" type with celcon inner bearing on axle

riding in polycarbonate outer bearing inserted in frame so that outer bearing cannot rotate; Axle bearings to be designed for no metal-to-metal or metal-to-bearing riding surfaces; Interconnecting linkage to have celcon bearings

to eliminate friction in linkage.

SEALS: Extruded silicone rubber seal. Stainless steel spring jamb

seals.

LINKAGE: In jamb. Aluminum crank-arm permanently locked to

blade shaft by two stainless steel fasteners. Crank-arm contains a $\frac{1}{2}$ " dia., machined steel trunnion riding in a celcon bearing. a plated steel $\frac{1}{4}$ - 20 set screw with locking patch ties the pivot to the $\frac{5}{16}$ " dia. aluminum linkage rod.

Linkage of each damper is individually adjusted.

FINISH: Mill.

OPTIONS

Hand Quadrants
120V, 24V, or Pneumatic Actuators
Jackshafting
Auxiliary Switch
Explosion Proof Housing

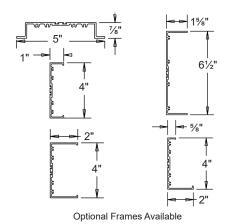
Clear anodize blades and frames (204-R1)

NOTES

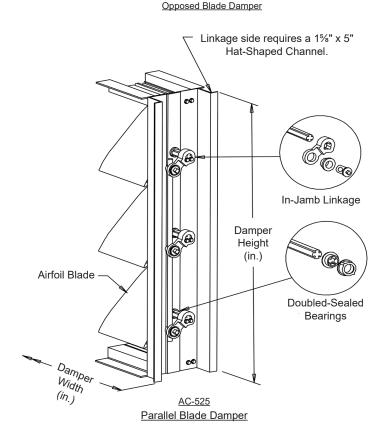
- 1. 1/4" nominal deduction will be made to the opening size given.
- 2. Approximate shipping weight is 5.5 lbs./sq.ft.

DAMPER SIZES

Model	Min Panel Max Single Pane	
Parallel	12"W x 12"H	60"W x 72"H
Opposed	12"W x 14%"H	60"W x 72"H







AC-526

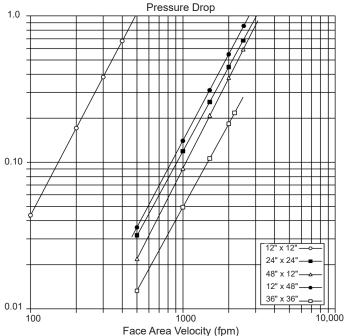
For handwritten orders, please use the schedule block located on Page 2.

In the interest of product development, Air Balance reserves the right to make changes without notice. 450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286

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PERFORMANCE DATA

Pressure drop ratings are based on AMCA Standard 500-D using test set-up Fig. 5.3 for damper installed with duct upstream and downstream. Static pressures are corrected to .075 lb/cu.ft. air density.



Leakage

Air Leakage requirements meet International Energy Conservation Code (IECC) by leaking less than 3 cfm/sq.ft. at 1 in. w.g. of static pressure and is AMCA licensed as a class "1A" damper.

Damper Size	1 in. w.g. Class	4 in. w.g. Class
12"W x 12"H	1A	1
24"W x 24"H	1A	1
36"W x 36"H	1A	1
12"W x 48"H	1A	1
48"W x 12"H	1A	1
60"W x 36"H	1A	1

Air Leakage ratings are based on AMCA Standard 500 using test set-up Fig. 5.5 at an operation temperature range between 50°F and 104°F. Data are based on a seating torque of 40 lb/in for dampers less than 4 sq.ft in size. Dampers above 4 sq.ft, 5 lb/in/sq.ft. is applied to hold the damper in the closed position.

Face Area elocity (fpm)	Pressure Drop (in. w.g.)	Face Area Velocity (fpm)	Pressure Drop (in. w.g.)
100	0.04	500	0.02

ı	voiceity (ipiii)	Brop (iii: Wigi)	voicony (ipini)	Brop (iii: w.g.)
100 0.04		500	0.03	
ĺ	200	0.16	1000	0.12
l	300	0.38	1500	0.25
	400	0.69	2000	0.45
١	500	1.00	2500	0.68

12"W x 48"H

12"W x 12"H

48"	W	Х	12	Ή	ı

24"W x 24"H

Face Area Velocity (fpm)	Pressure Drop (in. w.g.)	Face Area Velocity (fpm)	Pressure Drop (in. w.g.)
500	0.04	500	.02
1000	0.14	1000	.09
1500	0.31	1500	.20
2000	0.56	2000	.38
2500	0.85	2500	.58

36"W x 36"H

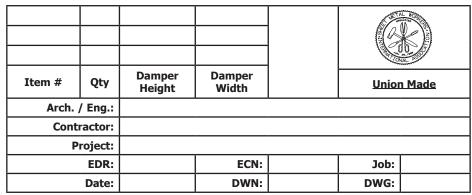
Face Area Velocity (fpm)	Pressure Drop (in. w.g.)
500	0.01
1000	0.05
1500	0.10
2000	0.18
2500	0.21

Damper Air Leakge Classification

	Leakage cfm/ft²	
	Required Rating	
Class/Pressure	1 in. w.g.	4 in. w.g.
1A	3	NA
1	4	8
2	10	20
3	40	80



Air Balance certifies that the Model AC525-AC526 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 Program and Air Performance and Air Leakage Ratings only.





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AIR LEAKAGE PERFORMANCE

Test units were installed in ductwork with duct upstream and downstream in accordance with AMCA test set-up Fig. 5.3. Using most common approach velocities and fan static pressures to conduct linear air flow test.

The results of the tests show that fan static pressure does have an effect on the linear air flow characteristics of a damper. These graphs will identify the simulated system conditions used for the single damper in duct system application.

Curves shown in these graphs demonstrate that the Model AC-526 opposed blade damper "as standardly built" is a very effective control damper for use in a variety of velocities and pressures.

