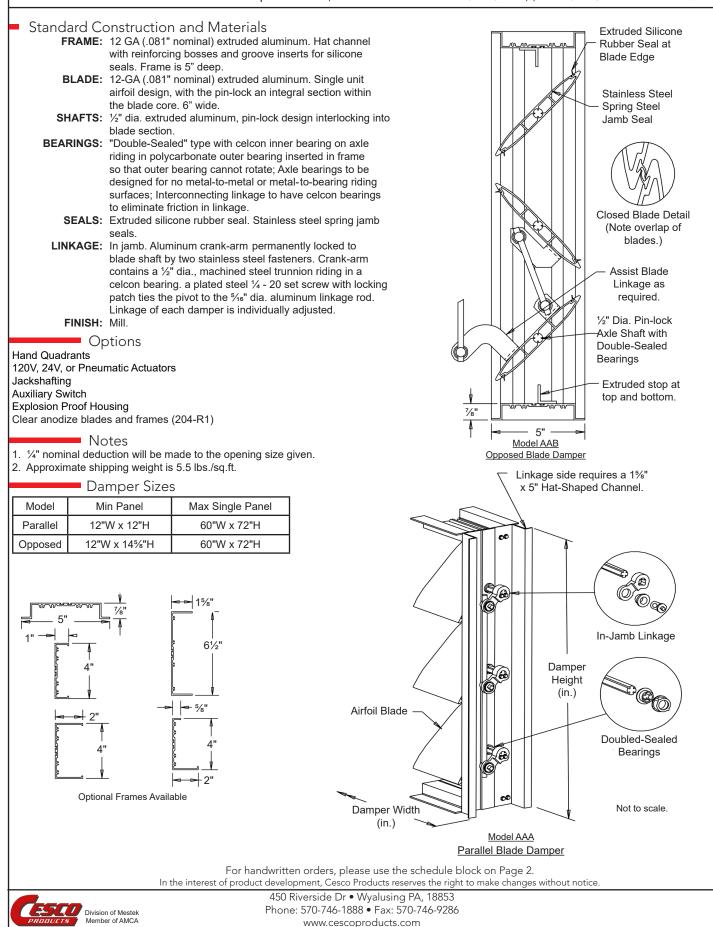
September 2018

## MODEL AAA / AAB







September 2018

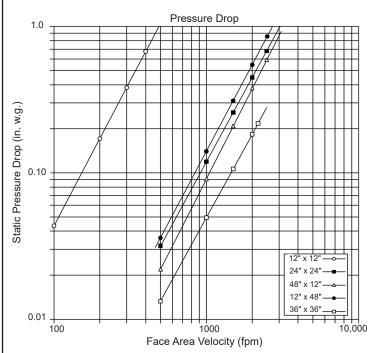
# MODEL AAA / AAB

## Extruded Aluminum Damper • 5" Deep • Airfoil Blade • Parallel (AAA) or Opposed (AAB)

Page 2

### 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.



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. C	
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.

12"W :	к 12"Н	24"W x 24"H		
Face Area Velocity (fpm)	Pressure Drop (in. w.g.)	Face Area Velocity (fpm)	Pressure Drop (in. w.g.)	
100	0.04	500	0.03	
200	0.16	1000	0.12	
300	0.38	1500	0.25	
400	0.69	2000	0.45 0.68	
500	1.00	2500		
101114/	4.0.11.1	48"W x 12"H		
12"W >	( 48″H	48″W 3	к 12"Н	
Face Area Velocity (fpm)	A 48″H Pressure Drop (in. w.g.)	48″W x Face Area Velocity (fpm)	< 12"H Pressure Drop (in. w.g.)	
Face Area	Pressure	Face Area	Pressure	
Face Area Velocity (fpm)	Pressure Drop (in. w.g.)	Face Area Velocity (fpm)	Pressure Drop (in. w.g.)	
Face Area Velocity (fpm) 500	Pressure Drop (in. w.g.) 0.04	Face Area Velocity (fpm) 500	Pressure Drop (in. w.g.) .02	
Face Area Velocity (fpm) 500 1000	Pressure Drop (in. w.g.) 0.04 0.14	Face Area Velocity (fpm) 500 1000	Pressure Drop (in. w.g.) .02 .09	

36"W x 36"H

_	0011 X 0011			
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/ft <sup>2</sup>		
Required Rating		
1 in. w.g.	4 in. w.g.	
3	NA	
4	8	
10	20	
40	80	
	Require 1 in. w.g. 3 4 10	



Cesco Products certifies that the Model AAA - AAB 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.

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	<u>ltem #</u>	<u>Oty</u>	<u>"A"</u> Dimension	<u>"B"</u> Dimension		<u>Unior</u>	n <u>Made</u>
	Arch. / Eng.:						
	<u>Contractor:</u> <u>Project:</u>						
	EDR:			<u>ECN:</u>		<u>Job:</u>	
		<u>Date:</u>		<u>DWN:</u>		<u>DWG:</u>	
	450 Riverside Dr ● Wyalusing PA, 18853						



## MODEL AAA / AAB

### Extruded Aluminum Damper • 5" Deep • Airfoil Blade • Parallel (AAA) or Opposed (AAB)

#### Page 3

### Air Leakge 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 AAB opposed blade damper "as standardly built" is a very effective control damper for use in a variety of velocities and pressures.

