MODEL ACD-56

AIRFOIL PARALLEL OR OPPOSED BLADE DAMPER LOW LEAKAGE: TESTED TO AMCA 500

Standard Construction:

		011.			
	Frame:	Extruded aluminum hat section, 5"w x 1"h (127 mm x 25 mm) heavy gauge 6063-T5.			Features
	Blades:	Extruded aluminum 6" (152 mm) wide			
	Didde3.	airfoil profile, heavy gauge 6063-T5			The ACD-56 series
		extrusion.			Control dampers have been designed and tested
	Rearings:	Nylon, press fit into frame.			to provide the ultimate in
		Square plated steel.			performance features for
		Galvanized steel linkage bar,			sophisticated HVAC
	Lilikaye.	concealed in frame.			systems. Streamlined
	Extended Shaft:	Removable, 6" long x 1/2" dia.			("airfoil") blades provide reduced turbulence and
	Extended Shan.	(152 mm x 12.7 mm) plated steel			noise. Inflatable blade
		coupled to square axle.			edge and jamb seals
	Plada Saalay	Inflatable, pressure sensitive.			allow extremely tight
		Flexible metal, pressure sensitive.			seating without unduly
	Finish:				increasing torque requirements.
		1/2" (12.7 mm) diameter standard on			requirements.
	Jackshalt.	multi sections up to 96"h x 72"w (2438 mm	o v 1920 mm)		
	Minimum Damper Size:	•	,		
	Maximum Damper Size:				
	Maximum Damper Size.	Multi Section: Unlimited.		6"	. [
		Mail Section. Onimited.	<mark>∢</mark> 5"► (127 mm)	(152 m	im)
	Options:		╔╴┲		r l
	Operators:	Motor mounting - Factory furnished			
	Operators.	or by others.			
		Manual quadrant or Chain operator			₽
	Einich	Painted Finishes			
	гшэн.	Clear Anodize - 204-R1 & 215-R1		⊌ 6"	
		Integral Color Anodize		(152 mm)	5" → (127 mm)
	Face & Bypass:		5-3/4"		(127 mm)
	race a bypass.	and bypass	(146 mm)		
	lackshaft.	3/4" (19 mm) Jackshaft reinforcement			
3		Bronze oilite bearings.			
	Bearings.	Bronze onne bearings.		- 3-7/8" <i>-</i> (98 mm)	
5	Notes:	 Dampers fabricated 1/4" 		(90 1111)	
2		(6.4 mm) under opening size	j je j		
5		unless otherwise noted			
L		• All dimensions in () indicate millimeters	╘┨╴┝╴┨╵	Ць	_₽ IIII
		 Specify parallel or opposed blade action. 	Opposed	-	┕
			Opposed Blade	Paral Blad	Low Profile
				Diau	(Damper 16" High or Less)

Suggested Specification

(406 mm)

Low leakage Control dampers shall be Model: ACD-56 by NCA Manufacturing. Damper blades shall be of aluminum streamline ("airfoil") construction for minimum pressure drop. Both blade edge and jamb seals shall be of the pressure sensitive type for low leakage. Dampers shall be rated for leakage and pressure drop to AMCA Standard 500. Leakage through a 48" x 48" (1219 mm x 1219 mm) shall not exceed 2 cfm/sq/ ft. at 4.0" static pressure.

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice. © 1999 NCA Manufacturing

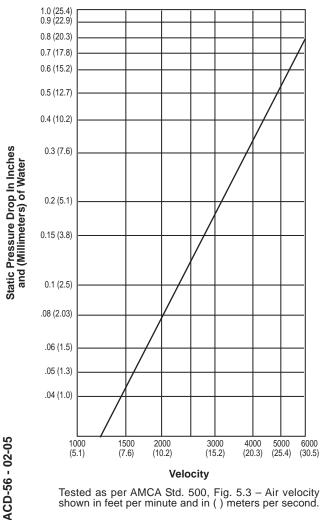
	1036 South Jupiter Road 📕 Garland, Texas 75042	TEL 072 276 5002	EAV 070 076 6747
Engineer:	Date:		
Architect:	P.O. Number:		
Location:	Address:		
Project:	Contractor:		



MODEL ACD-56 AIRFOIL PARALLEL OR OPPOSED BLADE DAMPER LOW LEAKAGE: TESTED TO AMCA 500

Performance Data Graphs





Tested as per AMCA Std. 500, Fig. 5.3 - Air velocity shown in feet per minute and in () meters per second.

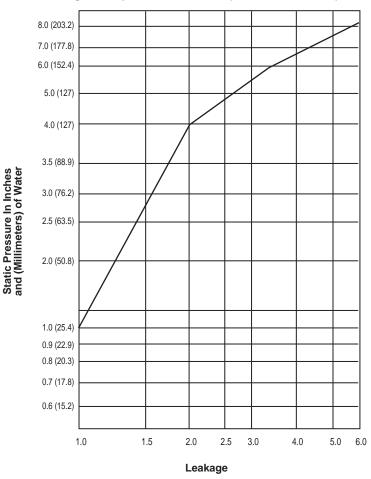
Typical Model **ACD-56 Installation**

The ACD-56 series is not recommended for vertical blades installation. Always connect motors to power blade and on linkage side.

The NCA frame is designed for easy installation into duct. Simply put sheet metal screws through the duct into the 1/2" (12.7 mm) wide mounting flanges approximately 18" (457 mm) on center.

NCA dampers are designed to be self supporting only in largest single section size. Larger size may require external bracing. Recommended bracing minimum of 8' (2438 mm). The amount and size will depend on unit size and system pressure.

Air Leakage – Damper Closed 48" x 48" (1219 mm x 1219 mm)



Tested as per AMCA Std. 500, Fig. 5.5 - leakage in CFM per sq. ft.

The ACD-56 is suitable for applications with total pressures up to 4.0" w.g. It may be used in applications exceeding 4.0" w.g. by reducing the damper width. For correct damper sizing consult the factory when exceeding standard design limit of 4.0" w.g.