

Backdraft Damper • 10" Deep • Extruded Aluminum "Tear Drop" Blades • Steel Channel Frame • 190°F Max Temperature

STANDARD CONSTRUCTION

FRAME: 2" x 10" x 2", 12 GA. galvanized steel formed channel. BLADES: .080" thick (nominal) extruded aluminum, 6063-T52/T6 alloy, teardrop shape. Groove inserts at blade edges for extruded silicone rubber seals. Blades are approximately 6" on centers. AXLES: 3/4" dia. plated steel positively locked to blade, placed offcenter in blade. SEALS: Extruded silicone rubber off-set leg at blade edges. None at jambs. LINKAGE: 1/8" thick plated steel bracket with 1/2" dia. plated steel pivot riding in a celcon sleeve bearing. Linkage rod is 5/16" dia. locked to pivot with a 1/4 - 20 UNC plated steel set screw. BEARINGS: Ball bearings pressed into frame. FINISH: Mill. TEMP. LIMITS: -30°F to 190°F.

COUNTERWEIGHTS: Adjustable for a full range of opening pressures.

OPTIONS

Finishes - Enamels, epoxies, etc. Flange Frame

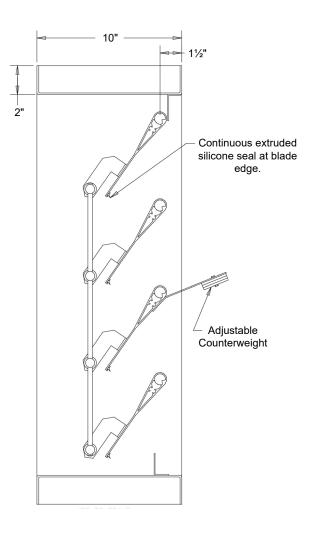
NOTES

1. Nominal deductions will be made to the opening size given.

2. For counterweights, please specify airflow direction (horizontal, vertical up, or vertical down) and whether to the counterweight should assist or resist the damper opening.

3. Approximate shipping weight is 10.0 lbs./sq.ft.

DAMPE	
Min Panel	Max Single Panel
8"W x 8"H I.D.	60"W x 96"H I.D.



Cont P	Qty	Width	Height	Width	Height	Mullion	llion Counter F		Air Flow		
		Openi	ng Size	Damp	er Size	wiumon	Counter Balance		(Dired	ction)	<u>Union Made</u>
Arch. / Eng.:						EDR:		ECN:		Job:	
Cont	ractor:										
Project:						Date:		DWN:		DWG:	
n the interest of product development Louvers & Dampers reserves the right to make changes without notice											

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Model PRI9

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PRESSURE DROP DATA

Velocity vs. Pressure Drop

With Ductwork

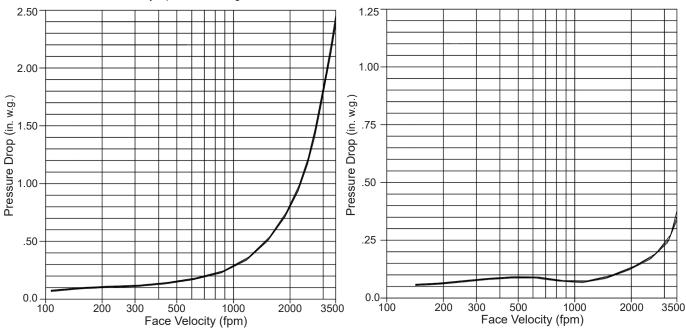
<u>Without Ductwork</u> Damper installed per AMCA Standard 500, Figure 5.4. (Face mounted to a plenum)

Pressure is correct to .075 lb./cu.ft. air density.

Operational Pressures Start to Open .02 in. w.g. Fully Open 1.50 in. w.g. Damper installed per AMCA Standard 500, Figure 5.3. (Ductwork installed upstream and downstream of damper.)

Pressure is correct to .075 lb./cu.ft. air density.

Operational Pressures Start to Open .03 in. w.g. Fully Open .25 in. w.g.



Typical performance for Model PRI9 backdraft damper size tested 42"W x 42"H furnished with counterweight to assist opening.

PRESSURE DROP DATA

Air leakage quantities shown in the chart are results of tests per AMCA Standard 500 and are shown at 1 in. w.g. differential pressure and corrected to .075 lb/cu.ft. air density.

		Width (in.)									
		12"	18"	24"	30"	36"	42"	48"	54"	60"	
	12"	8	12	16	20	24	28	32	36	40	
	24"	16	24	32	40	48	56	64	72	80	
<u> </u>	36"	24	36	48	60	72	84	96	108	120	
it (in.)	48"	32	48	64	80	96	112	128	144	160	
Height	60"	40	60	80	100	120	140	160	180	200	
I	72"	48	72	96	120	144	168	192	216	240	
	84"	56	84	112	140	168	196	224	252	280	
	96"	64	96	128	160	192	224	256	288	320	

Total CFM Air Leakage at 1 in.w.g. Differential Through Closed Damper

Use the multiplier correction chart below for determining leakage values greater than 1 in. w.g. to a maximum 8 in. w.g.

grouter than 1 m. w.g. to a maximum o m. w.g.							
Static Pressure	2	3	4	5*	6	7	8
Multiplier Correction Factor	1.5	1.9	2.3	2.5	2.9	3.0	3.1

* Maximum panel size limit is 60" x 96". For static pressure limits greater than 5 in. w.g. to 8 in. w.g. differential,

maximum panel size limit is 48" x 96".

Air leakage ratings are based on AMCA Standard 500 using test set up Figure 5.4 with damper in the closed position without the aid of a counterweight or other mechanical means to provide closing torque, for a size 42"W x 42"H damper with blade and jamb seals.

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