Backdraft Damper ▲ 4" Deep ▲ "Tear Drop" Blades ▲ Galvanized Steel ▲ 180°F Max Temperature

				····						1	-
BLADE BLADE SPACIN LINKAG AXLE BEARING SEAL	E: 10 G S: 16 G G: 3%" E: 1%" th pivo 5/16" plate dout S: 3/4" d S: Bror S: Poly H: Mill. able to c el frame ades an ade sea Assist o d insect	GA. galvanize GA. galvanize minimum to nick plated st t riding in a c dia. aluminur ed steel set s ole linkage fo lia. steel; Ful nze Oilite. urethane on completely co (Airflow mus d jambs to p I (0.010" thic r Resist mus screens	ad steel. ad steel. 7%" maximu teel bracket elcon sleeve m locked to crew. Single or panels > 2 I length of bl blade edges blade edges blade edges ontain blade st be specifie k) t be specifie a to the oper	um with ½" dia. e bearing. Lin pivot with a ½ e linkage for † 20"W. lade. s, none at jan s and linkage ed) eakage.	hkage rod is 4"-20 UNC panels < 20" mbs. en. 5.) $11/2"11/2"Constraints of the second seco$		Height			a)	
					<u> </u>				1		
		Width	Height	Width	Height						
Item #	Qty	tv –					Counte	er Balance	(Direction)		
		Opening Size		Damper Size				1			Union Made
Arch. /	Eng.:			0		EDR:		ECN:		Job:	
Contra	otor										



Contractor: Project:

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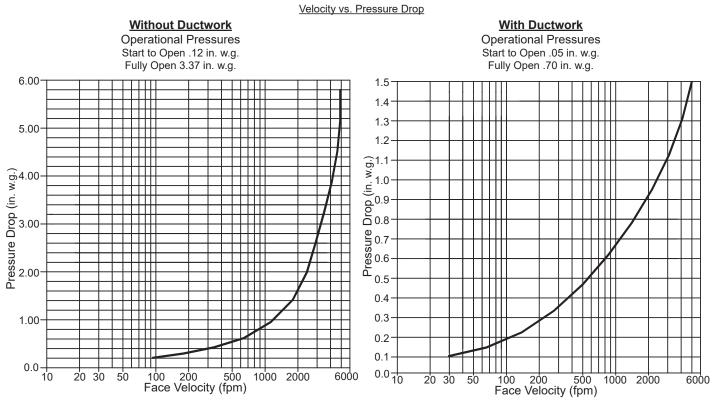
DWN:

Date:

DWG:

PRESSURE DROP DATA

Performance is based on AMCA Standard 500, Figure 5.4 (without ductwork) or Figure 5.3 (in-duct mount), operating temperatures below 180°F and a standard air density of 0.75 lb/ft³. Actual pressure drop performance will vary based on damper size and exact installation configuration. The curves shown below are furnished with counterweights to assist opening.



Typical performance for Model BID4 backdraft damper size tested 42"W x 42"H furnished with counterweight to assist opening.

AIR LEAKAGE 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 0.75 lb/cu.ft. air density. For determining leakage values greater that 1 in. w.g. to a maximum 10 in. w.g. use the multiplier correction chart.

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

		Width (in.)									
		12"	18"	24"	30"	36"	42"	48"			
Height (in.)	12"	8	12	16	20	24	28	32			
	24"	16	24	32	40	48	56	64			
	36"	24	36	48	60	72	84	96			
	48"	32	48	64	80	96	112	128			
	60"	40	60	80	100	120	140	160			
	72"	48	72	96	120	144	168	192			

For determining leakage values greater than 1 in. w.g. to a maximum 10 in. w.g. use the multiplier correction chart below.

Static Pressure	2	3	4	5	6	7	8	9	10
Multiplier Correction Factor	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3

Air leakage ratings are based on AMCA Standard 500 using test set up Fig. 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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