



Air Damper Products

SUBMITTAL DATA

MODEL BDDF

2-1/4" Aluminum Backdraft Damper (2400 FPM)

Application and Design

The BDDF is a vertical or horizontal mounted backdraft damper that is designed to allow airflow and prevent reverse airflow.

Ratings

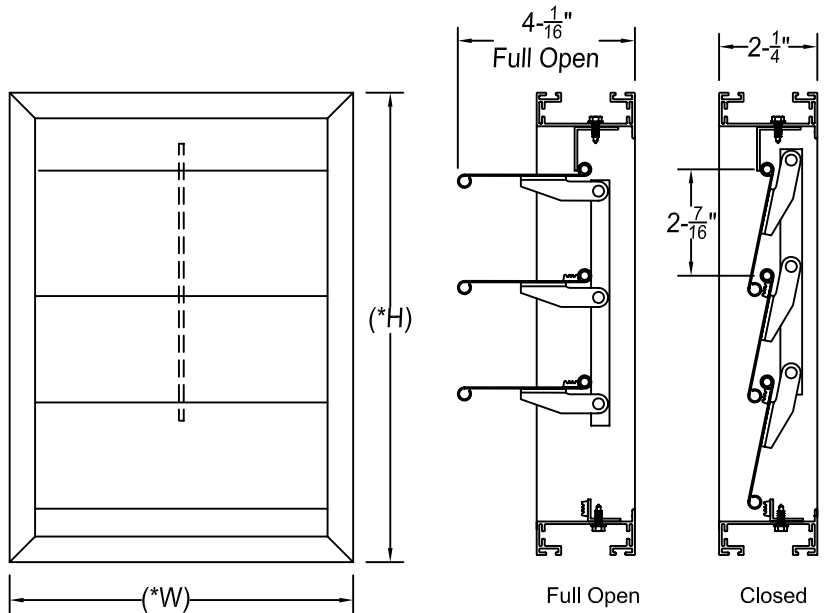
- Pressure:** 2.5" w.g.
- Velocity:** 2400 FPM
- Temperature:** 180° F

Standard Construction

- Frame:** .060" Thick Extruded Aluminum
- Blades:** .032" Thick Formed Aluminum
- Blade Seal:** EPDM Rubber
- Linkage:** 1/2" x 1/8" Aluminum Bar (in airstream)
- Axles:** Zinc Plated Steel
- Bushings:** Nylon

Size Limitations

- Minimum size:** 6"w x 6"h
- Maximum single section size:** 48"w x 48"h



* W & H dimensions are approximately 1/4" undersized.

Multiple Sections

- Exposed mullions
- Aluminum sub-frame

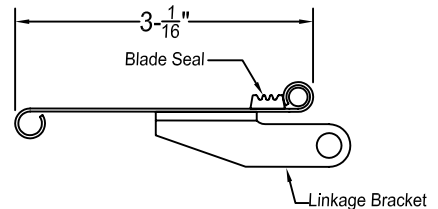
Finishes

- Polyester Powder Coat (Consult ADP)

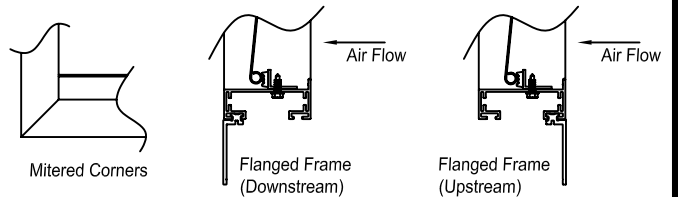
Options and Accessories

- Flanged Frame
 - Upstream
 - Downstream
 - 1" 1-1/2" (Default) 2" 3"
- Counterbalance Weights or Springs
 - Assist to Open (Default) Assist to Close
- Set Limit Open Position Bracket
- Motor Driven

Blade Detail



Frame Detail

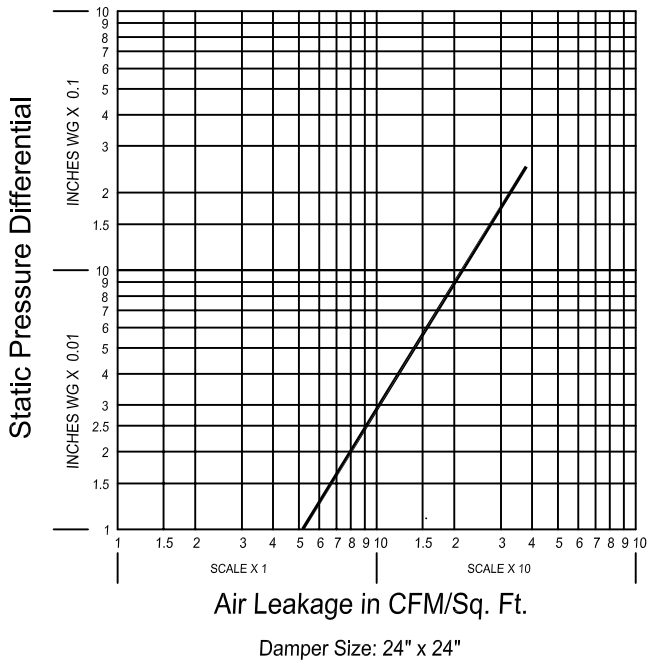


Quantity	Tag	SIZE		Optional Counter-Weights or Springs	Airflow Arrangement	Other Options
		"W" Width	"H" Height			

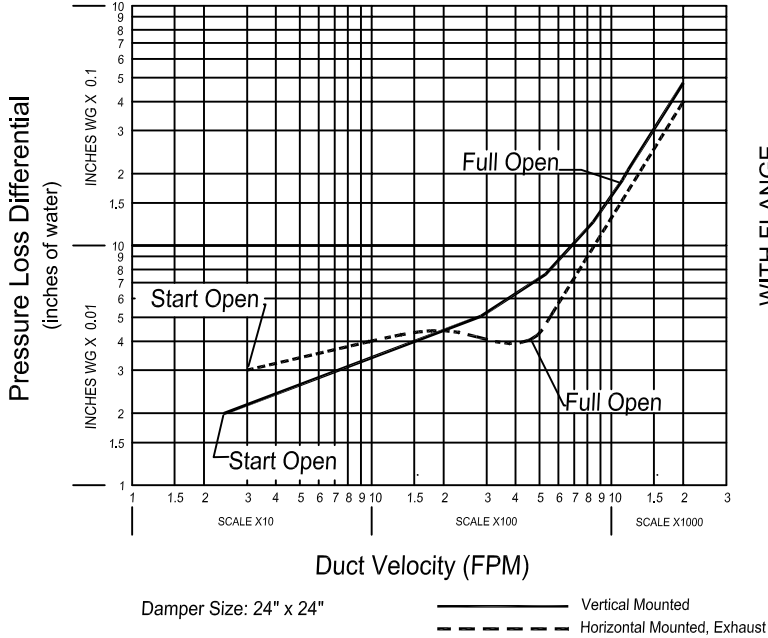
Job Name:	<input type="checkbox"/> MODEL BDDF (2400 FPM)		
Location:			
Architect:			
Engineer:	DRAWN BY: SRB	DATE: 4-28-10	REV. DATE: 3-15-13
Contractor:	REV. NO.	APPROVED BY:	DWG. NO.: G-1a

PERFORMANCE DATA

Leakage



Pressure Drop

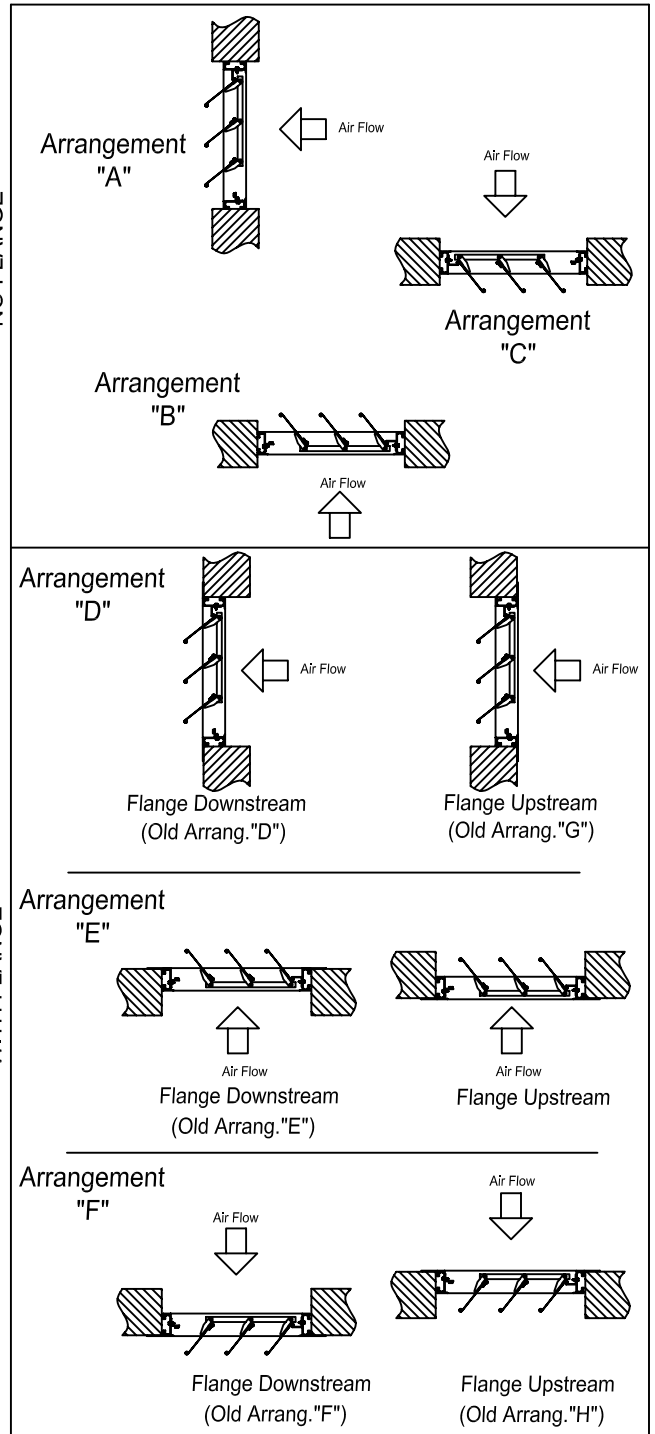


Air Velocity in feet per minute through Face Area
 Tested per AMCA Std. 500-D, ductwork upstream and downstream.

⊛ Set at least resistant to open

BDDF AIR FLOW ARRANGEMENTS

Counterweights or springs used in airstream
 (assist to open)



OPTIONAL COUNTERBALANCE WEIGHT KITS (BDDF CBW KIT)

		Qty. of counterbalance weights based upon size																				
		Width (inches)																				
Height (inches)		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
	8	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	10	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	12	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	14	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	16	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	18	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	20	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	22	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	5	5	5	6	6	6
	24	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	6	6	6
	26	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	6	6	6
	28	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	6	6	6
	30	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6
	32	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6
	34	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6
	36	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6
	38	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
	40	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
42	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	
44	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
46	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
48	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	

Attach weights as shown with (2) machine screws and nylon lock nuts per weight bracket

