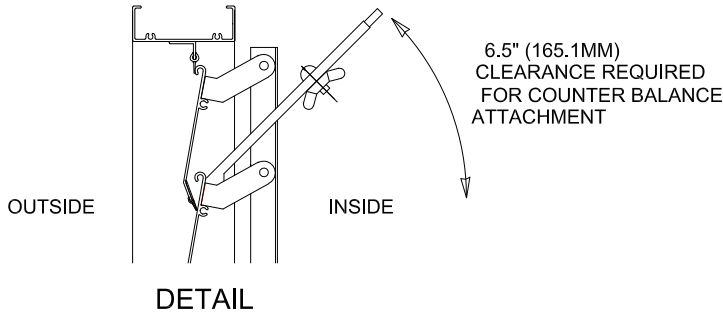




BACKDRAFT DAMPER BDX-3C3-LB



STANDARD SPECIFICATIONS

- CONST. - EXTRUDED ALUMINUM, WELDED FRAME
- FRAME - 3" X 1" (76.2MM X 25.4MM) EXTRUDED ALUMINUM
- BLADES - 3.5" X .06" (88.9MM X 1.5MM) TAPERED EXTRUDED ALUMINUM, 3.06" (77.7MM) BLADE SPACING
- SEALS - DUAL DUROMETER VINYL BLADE SEAL, -40° F. TO +200° F.
- SHAFTS - .19" X 1.25" (4.8MM X 31.8MM) PLATED STEEL
- BEARINGS - .19" (4.8MM) NYLON BUSHINGS
- LINKAGE - INSIDE AIRSTREAM, ON ENTERING SIDE
- C.B. WTS. - AS REQUIRED
- FINISH - MILL ALUMINUM
- SIZE - MINIMUM 12" W X 12" H (304.8MM X 304.8MM)
- MAXIMUM 32" W X 60" H (812.8MM X 1524MM)

OPTIONS

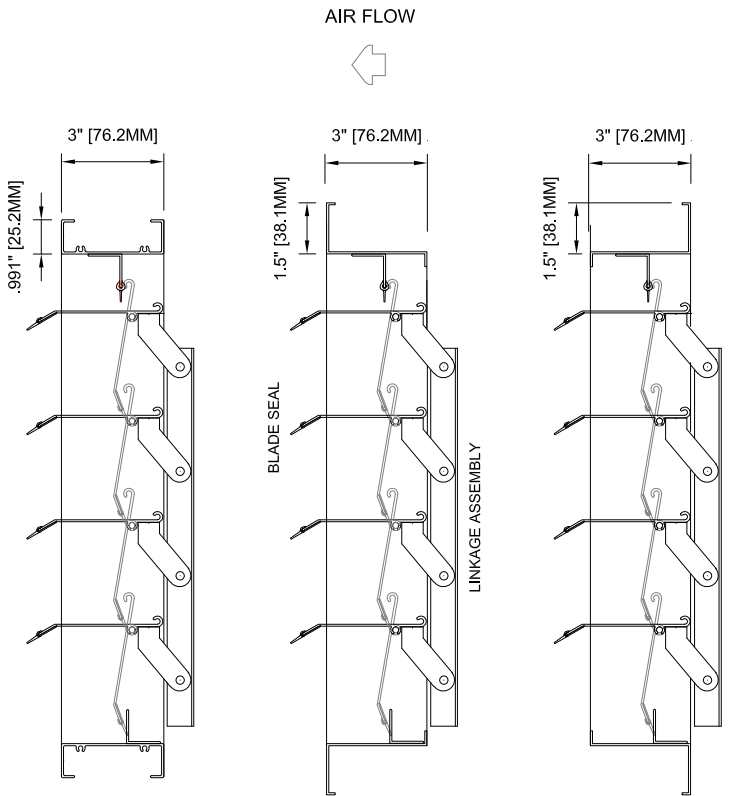
- FRAME - FLANGE, REVERSE FLANGE 3" X 1.5" 76.2MM X 38.1MM
- SCREEN - AS REQUIRED, WHEN SCREEN IS USED BLADES OPEN TO 45°
- FINISH - MILL ALUMINUM OR ANODIZED

TECHNICAL NOTES

- CAUTION**
- DO NOT USE FOR INTAKE UNLESS WITH OUTSIDE WEATHER COWL
 - RECOMMENDED ON LARGER DAMPERS BECAUSE OF LINKAGE WEIGHT
- BDX-3C3-LB**
- MAX. RECOMMENDED VEL. - 3000 FPM
 - MAXIMUM TEMPERATURE - 200° F.
 - MAXIMUM WIDTH - 5.5" (139.7MM) WHEN BLADE IS IN FULL OPEN POSITION PLUS CLEARANCE FOR COUNTER BALANCE WEIGHTS SEE ABOVE
- SHIPPING WEIGHT**
- APPROX. 5 LB/SQ. FT.

DAMPERS 3F3 AND 3R3 ARE MANUFACTURED .5" (12.7MM) SMALLER THAN OPENING SIZE UNLESS EXACT DIMENSIONS ARE STATED. DAMPERS 3C3 ARE MANUFACTURED .25" (6.4MM) SMALLER THAN OPENING SIZE UNLESS EXACT DIMENSIONS ARE STATED.

* FOR MORE INFORMATION, CONTACT OUR FACTORY *



BDX-3C3-LB
SECTION

STANDARD
CHANNEL FRAME

BDX-3F3-LB
SECTION

OPTIONAL
FLANGED FRAME

BDX-3RF-LB
SECTION

OPTIONAL
REVERSE FLANGE FRAME

PLEASE SPECIFY WHEN ORDERING:
-CHANNEL, FLANGE OR REVERSE FLANGE FRAME TYPE
-DAMPER BEING MOUNTED HORIZONTALLY

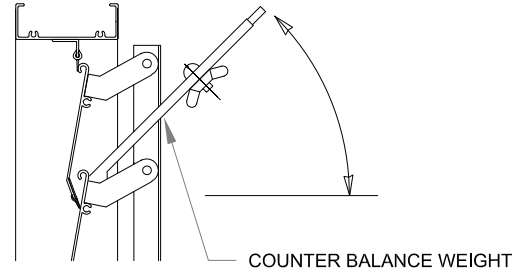
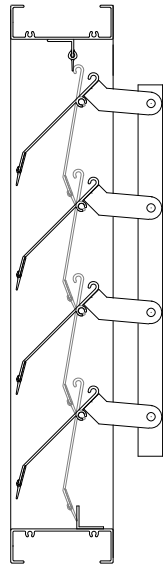
NOTES

APPROVAL

DATE:
PROJECT:
ENGINEER:
CUSTOMER:
DISTRIBUTOR:



BACKDRAFT DAMPER BDX-3C3-LB

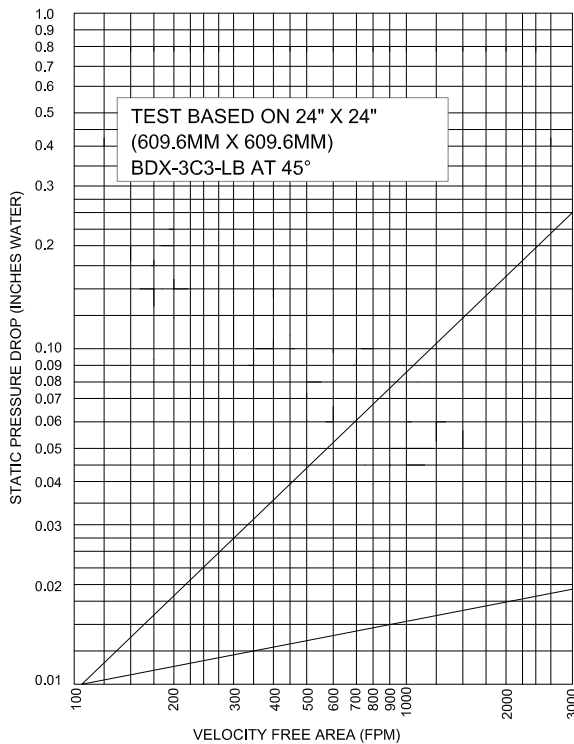


DETAIL

FREE AREA TABLE (SQ. FT.) AT
BLADES AT 45 DEGREE ANGLE
(FOR BLADES OPENING TO 90° MULTIPLY BY 1.3)

HEIGHT (INCHES)	WIDTH (INCHES)						
	8	12	16	20	24	28	32
8	0.16	0.26	0.37	0.47	0.58	0.68	0.79
12	0.29	0.48	0.67	0.86	1.06	1.25	1.44
16	0.42	0.78	0.98	1.25	1.54	1.81	2.89
20	0.55	0.92	1.28	1.65	2.01	2.38	2.75
24	0.68	1.13	1.59	2.04	2.49	2.95	3.40
28	0.81	1.35	1.89	2.43	2.97	3.51	4.05
32	0.94	1.57	2.28	2.82	3.45	4.00	4.71
36	1.07	1.79	2.58	3.22	3.93	4.65	5.36
40	1.28	2.01	2.81	3.61	4.41	5.21	6.02
44	1.33	2.22	3.11	4.00	4.89	5.78	6.67
48	1.45	2.44	3.42	4.39	5.37	6.35	7.32
52	1.68	2.66	3.72	4.79	5.85	6.91	7.98
56	1.73	2.88	4.03	5.18	6.33	7.48	8.63
60	1.86	3.89	4.33	5.57	6.81	8.85	9.28

PRESSURE DROP FOR DUCT
MOUNTED DAMPERS



AIR PERFORMANCE GRAPH

WITHOUT COUNTER BALANCE WEIGHTS

WITH (1) COUNTER BALANCE WEIGHT
ADJUSTED FULL OUT

FOR WALL MOUNTED DAMPERS INCREASE
PRESSURE DROP BY A FACTOR OF 1.5

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