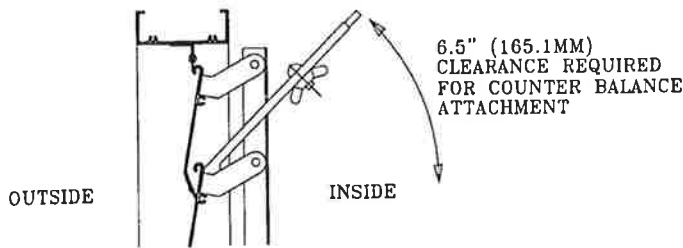


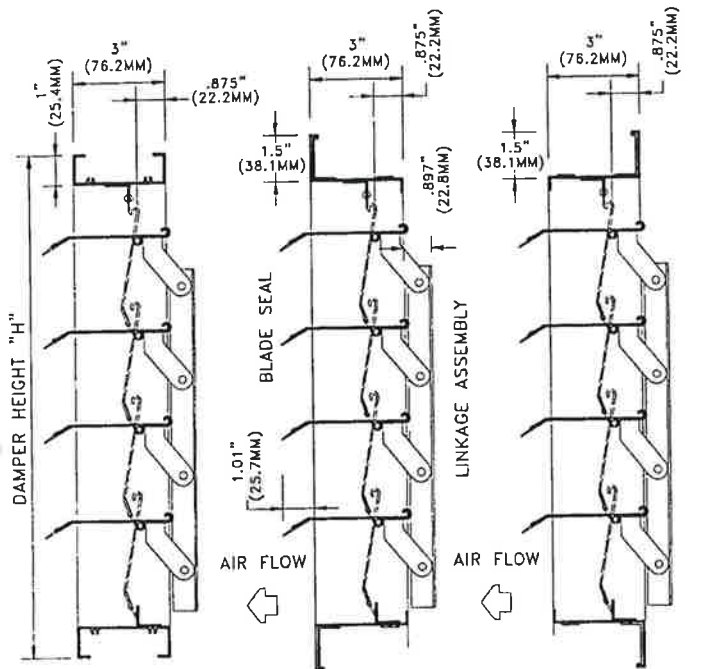
03-248



## BACKDRAFT DAMPER BDX-3C3-LB



### DETAIL



**BDX-3C3-LB**  
SECTION  
STANDARD  
CHANNEL FRAME

**BDX-3F3-LB**  
SECTION  
OPTIONAL  
FLANGED FRAME

**BDX-3RF-LB**  
SECTION  
OPTIONAL  
REVERSE FLANGE  
FRAME

### 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, BDX-3C3-LB, SCREEN IS ON FACE. WHEN SCREEN IS USED BLADES ONLY OPEN TO APPROX. 45°.
- FINISH** - ANODIZED, PRIME COAT, BAKED ENAMEL

### TECHNICAL NOTES

- CAUTION** - DO NOT USE FOR INTAKE UNLESS WITH OUTSIDE WEATHER COWL
- BDX-3C3-LB** - RECOMMENDED ON LARGER DAMPERS BECAUSE OF LINKAGE WEIGHT
- 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.

NOTE: PLEASE SPECIFY WHETHER YOU WANT - CHANNEL FLANGE, OR REVERSE FLANGE AND WALL MOUNT OR CEILING MOUNT.

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

\* FOR MORE INFORMATION, CONTACT OUR FACTORY \*

## NOTES

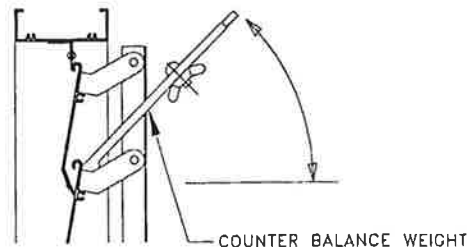
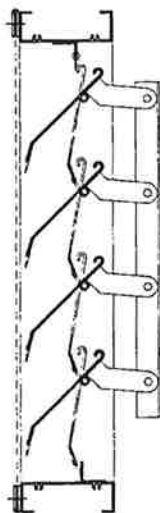
## APPROVAL

DATE:  
PROJECT:  
ENGINEER:  
CUSTOMER:  
DISTRIBUTOR:

BDX-3C3-LB

# westvent®

## BACKDRAFT DAMPER BDX-3C3-LB



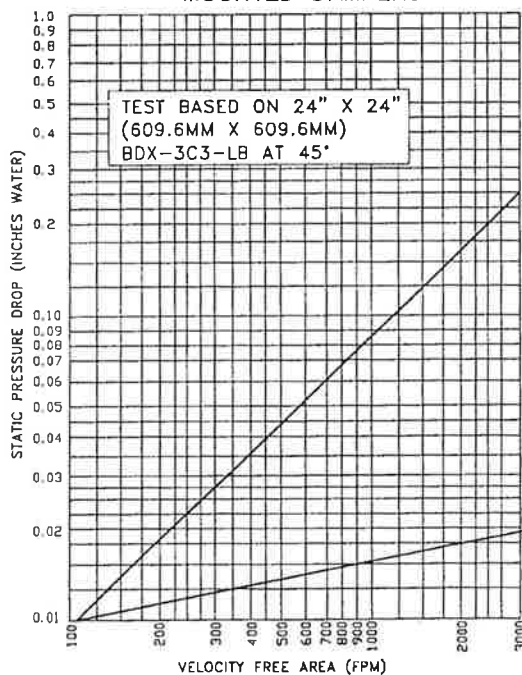
DETAIL

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

	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

HEIGHT (INCHES)

PRESSURE DROP FOR DUCT  
MOUNTED DAMPERS



WITHOUT COUNTER BALANCE WEIGHTS

WITH (1) COUNTER BALANCE WEIGHT  
ADJUSTED FULL OUT

AIR PERFORMANCE GRAPH

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

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BDX-3C3-2

# PACKAGE WEIGHT WORKSHEET

UNIT #:	03-248	CUSTOMER:	Cavel Energy
LSD:		UNIT DESC.:	
DATE:	3-Jun-04	ENGINEER:	VK

Item	Details	Type	Weight
Skid Steel and Concrete			48629.00
Crane and Rails			2907.00
Brackets			1000.00
Engine	WK L7042		20500.00
Muffler	JDDS 14		1700.00
Compressor	JGK 4 c/w cyl		19377.00
Cooler	Air-x-hemphill		25900.00 Ship loose
<b>VESSELS</b>			
1st Stage Suction Scrubber			2500.00
2nd Stage Suction Scrubber			2000.00
3rd Stage Suction Scrubber			1900.00
1st Stage Suction Bottle			1400.00
2nd Stage Suction Bottle			550.00
3rd Stage Suction Bottle			950.00
1st Stage Discharge Bottle			1200.00
2nd Stage Discharge Bottle			750.00
3rd Stage Discharge Bottle			1150.00
Fuel Gas Filter			500.00
Panel			850.00
Instrumentation			950.00
Electrical Wire			350.00
Building			12000.00
Process Pipe			13130.00
Air Pipe			400.00
Water Piping			2500.00
Other Utility Pipe			1000.00
Day Tanks			500.00
Fluids	#/BBL	Barrels	
Oil	311	2.14	666.47
Water	349	2.38	830.97
Total w/o Concrete			166090.44
Safety Factor			1.1
Total Package Weight			182699.49