Medium Duty Backdraft Damper - Model SHM

Design Features – Medium duty backdraft damper designed for use in higher velocity applications.

PLEASE SPECIFY HORIZONTAL OR VERTICAL FLOW

STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME
3” (76) deep, .064” thk. extruded aluminum in style #2

BLADES
.064” tapers to .105” extruded aluminum, 4.25” wide @ 4” O.C.
(Blade profile tapers to leading edge)

BLADE AXLES & BEARINGS
AXLE – 3/16” dia. aluminum pin
BEARING – Brass sleeve

LINKAGE
Mounted at the center point of the width dimension on face of blades
BLADE BRACKET – .050” thick aluminum
LINKAGE BAR – .064” extruded aluminum

SEALS
Polyurethane foam blade edge

MAXIMUM TEMPERATURE
200° F

MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others

MAXIMUM FACTORY ASSEMBLY SIZE
36”W x 72”H

MINIMUM SIZE
6”W x 4”H

UNDERSIZED
1/4” under ordered size unless specified Exact or Actual

FINISH
Mill

OPERATOR
None

OPTIONAL CONSTRUCTION

FLANGE FRAME – Standard flange, Reverse flange
COUNTER WEIGHT – Galvanized steel, .063” aluminum bracket,
(Must specify retard or assist on the order)

OPERATOR – Manual, Electric or Pneumatic

FINISH – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy
or enamel, Anodized, Kynar, or Powder coat.

SPECIAL PURPOSE CONSTRUCTION

Security bars
Horizontal mount up flow or down flow configurations
Filter racks
Sleeved for ductwork connection

Note: for fan discharge applications, the minimum distance between the damper and the fan must be equal to 2/3 of the fan diameter.

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Model - SHM

All tests performed at an independent laboratory and made in accordance with AMCA standard for air performance.

AIR PERFORMANCE

Pressure Loss in INCHES (WC)

FACE AREA VELOCITY (fpm)
24 x 24 sample tested per AMCA Std. 500, Figure 5.5

FREE AREA CALCULATIONS (SQ. FT.)

HEIGHT
12
16
20
24
28
32
36

12 16 20 24 28 32 36

Note:
Performance data shown are approximate numbers under intermittent conditions and are to be used only as reference under standard generic installation. Consult Safe Air for additional technical information.

LEAKAGE

Pressure Differential

1" wg. 30
.50" wg. 25

PERFORMANCE

Width

Max. Velocity

Max. Pressure

Blade start to open

Blade fully open

Blade start to open

Blade fully open

36" 1000 fpm 2" wg.
.05" wg. .30" wg .01" wg .10" wg.

24" 1200 fpm 3" wg.

12" 1500 fpm 4" wg.