

PROPELLER FAN ACCESSORY – BACKDRAFT DAMPER

Horizontal — LXHAA (Roof Exhaust - Automatic)

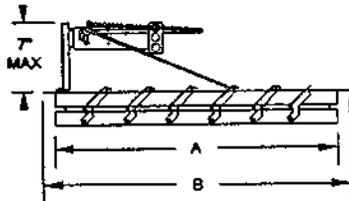
Horizontal — LXHAM (Roof Exhaust - Motorized)

IP [English] Dimensions
SI [Metric] on Reverse Side

CARNES COMPANY 448 S. Main St., P. O. Box 930040, Verona, WI 53593-0040 Phone: (608)845-6411 Fax: (608)845-6504 www.carnes.com



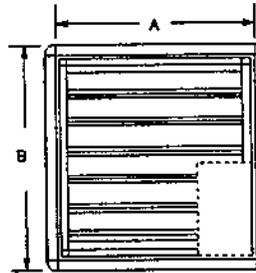
Spring Assist kit supplied with HEAVY DUTY dampers



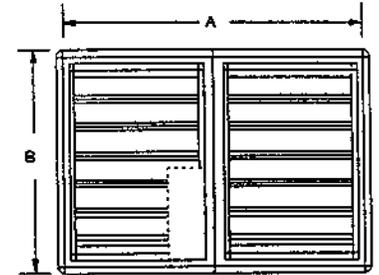
GRAVITY



MOTORIZED

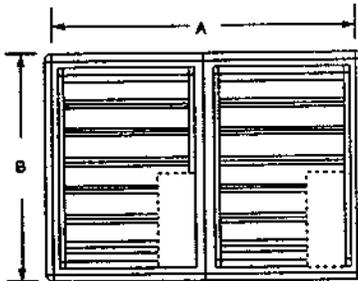


DETAIL #1

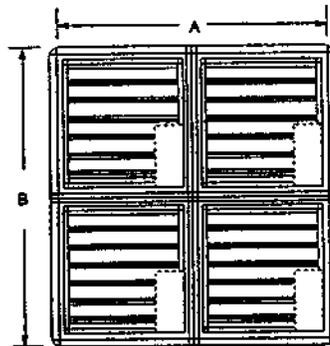


DETAIL #2

PLAN VIEW



DETAIL #3



DETAIL #4

STANDARD SPECIFICATIONS

Maximum Face Velocity: 3000 fpm.

Temperature Limits: -40°F to 200°F (-40°C to 94°C).

Minimum Size: 8" x 8".

Size: Single section: 42" W x 64" H.

Multiple section assembly - Unlimited size.

Frame: 20 gauge galvanized steel.

Blades: .025 thick aluminum.

HD 28 gauge galvanized steel.

Seals: Extruded Vinyl mechanically locked into blades.

Axles: Stainless Steel.

Linkage: Stainless steel pins, galvanized steel tie bar.

Finish: Mill.

NOTES:

- (1) Do not mount fan less than 12 inches from the shutter.
- (2) Motors available in 24V, 120V, 240V & 440V.
- (3) Dampers shipped in individual cartons.
- (4) Motors & spring kits ship separately.
- (5) Center-pivoted dampers must be used on reversible fans.
- (6) Multiple section assemblies may require bracing to support the weight of the assembly and to hold against system pressure. *BRACING SUPPLIED BY OTHERS.*
- (7) Multiple section dampers are factory joined (except 72" and large).

CAUTION: Motor kits are not suitable for use in explosive or flammable areas or airflows.

STANDARD DIMENSIONS (LISTED IN INCHES)

| Fan Size | A Sq. Size | B Sq. OD Flange | DAMPER MOTOR | | Panels (Detail) |
|----------|------------|-----------------|--------------|-----|-----------------|
| | | | Type | Qty | |
| 24 | 26 | 28-1/2 | MP2781-S | 1 | 1 |
| 30 | 32 | 34-1/2 | MP2781-S | 1 | 1 |
| 36 | 38 | 40-1/2 | MA220-S | 1 | 1 |
| 42 | 44 | 46-1/2 | MA220-S | 1 | 2 |
| 48 | 50 | 52-1/2 | MA220-S | 1 | 2 |
| 54 | 56 | 58-1/2 | MA220-S | 2 | 3 |
| 60 | 62 | 65-1/2 | MA220-S | 2 | 3 |
| 72 | 76 | 78-1/2 | MA220-S | 4 | 4 |

Heavy Duty Dampers required on all units with 7-1/2 HP motors and above.

PROPELLER FAN ACCESSORY – BACKDRAFT DAMPER

Horizontal — LXHAA (Roof Exhaust - Automatic)

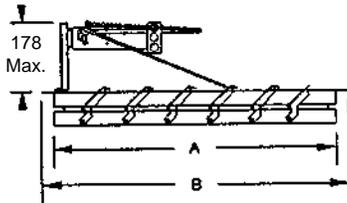
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SI (Metric) Dimensions
IP [English] on Reverse Side

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Spring Assist kit supplied with
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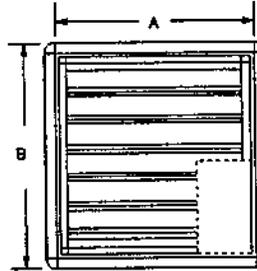


GRAVITY

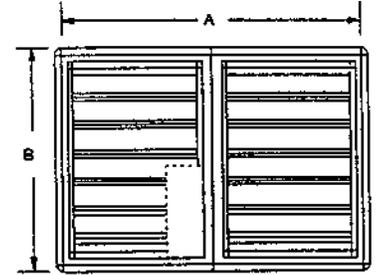


AIR FLOW UP

MOTORIZED

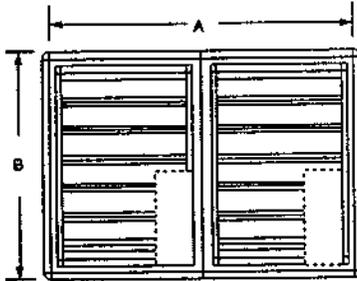


DETAIL #1

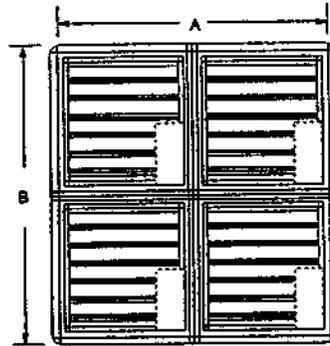


DETAIL #2

PLAN VIEW



DETAIL #3



DETAIL #4

STANDARD SPECIFICATIONS

Maximum Face Velocity: 3000 fpm.

Temperature Limits: -40°F to 200°F (-40°C to 94°C).

Minimum Size: 203mm x 203mm.

Size: Single section: 1067mm W x 1626mm H.

Multiple section assembly - Unlimited size.

Frame: 20 gauge galvanized steel.

Blades: .025 thick aluminum.

HD 28 gauge galvanized steel.

Seals: Extruded Vinyl mechanically locked into blades.

Axles: Stainless Steel.

Linkage: Stainless steel pins, galvanized steel tie bar.

Finish: Mill.

NOTES:

- (1) Do not mount fan less than 305mm from the shutter.
- (2) Motors available in 24V, 120V, 240V & 440V.
- (3) Dampers shipped in individual cartons.
- (4) Motors & spring kits ship separately.
- (5) Center-pivoted dampers must be used on reversible fans.
- (6) Multiple section assemblies may require bracing to support the weight of the assembly and to hold against system pressure. *BRACING SUPPLIED BY OTHERS.*
- (7) Multiple section dampers are factory joined (except 1829mm and larger).

METRIC DIMENSIONS (LISTED IN MILLIMETERS)

| Fan Size | A Sq. Size | B Sq. OD Flange | DAMPER MOTOR | | Panels (Detail) |
|----------|------------|-----------------|--------------|-----|-----------------|
| | | | Type | Qty | |
| 24 | 660 | 724 | MP2781-S | 1 | 1 |
| 30 | 813 | 876 | MP2781-S | 1 | 1 |
| 36 | 965 | 1029 | MA220-S | 1 | 1 |
| 42 | 1118 | 1181 | MA220-S | 1 | 2 |
| 48 | 1270 | 1334 | MA220-S | 1 | 2 |
| 54 | 1422 | 1486 | MA220-S | 2 | 3 |
| 60 | 1575 | 1664 | MA220-S | 2 | 3 |
| 72 | 1930 | 1994 | MA220-S | 4 | 4 |

Heavy Duty Dampers required on all units with 7-1/2 HP motors and above.

CAUTION: Motor kits are not suitable for use in explosive or flammable areas or airflows.