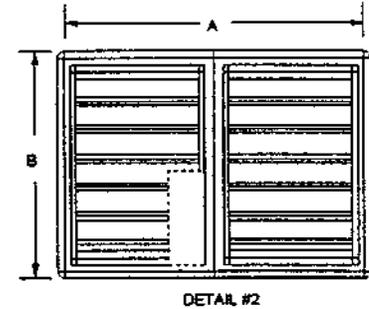
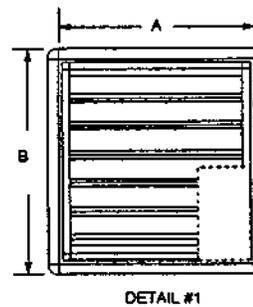
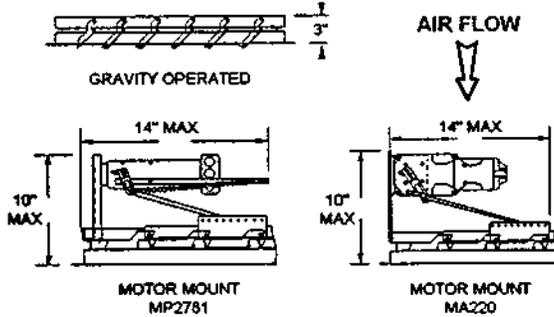
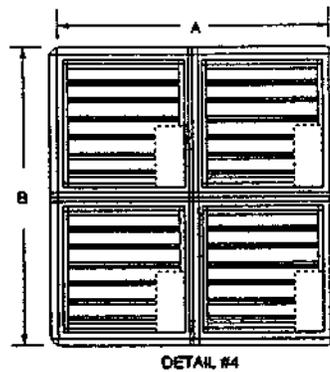
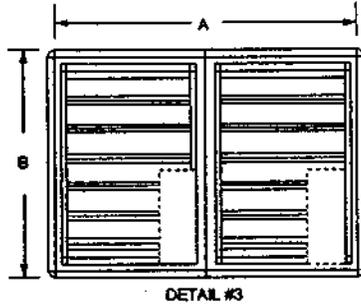


**IP [English] Dimensions**  
**SI (Metric) on Reverse Side**

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



**NOTE**  
 Counter balance weight kits are required on all supply dampers (gravity or motor operated)



### PLAN VIEW (TOP)

### 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 sections 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) Motor and counterbalance kits ship separately.
- (5) Center-pivoted dampers must be used on reversible fans.
- (6) Units for horizontal mounting with air flow down require counter balance kits (for gravity operation).
- (7) Multiple section assemblies may require bracing to support the weight of the assembly and to hold against system pressure.  
*BRACING SUPPLIED BY OTHERS*
- (8) Multiple section dampers are factory joined (except 72" and larger).

### STANDARD DIMENSIONS (LISTED IN INCHES)

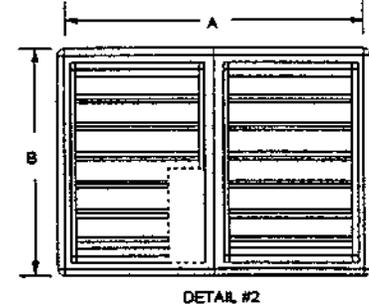
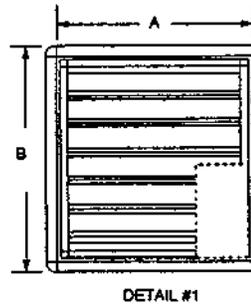
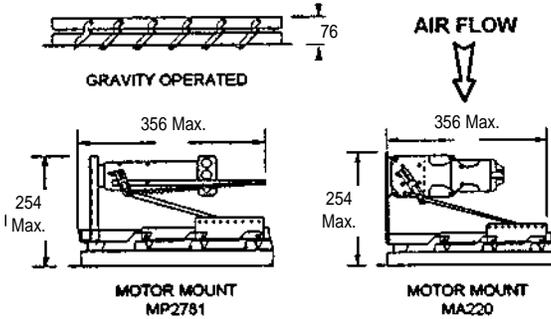
| Fan Size | A Sq. Size | B Sq. OD Flange | Motor Type |     | Panels (Detail) |
|----------|------------|-----------------|------------|-----|-----------------|
|          |            |                 | Type       | Qty |                 |
| 24       | 26         | 28-1/2          | MP2781     | 1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

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

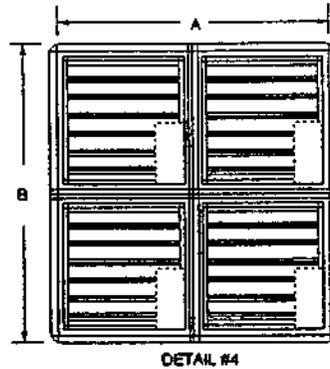
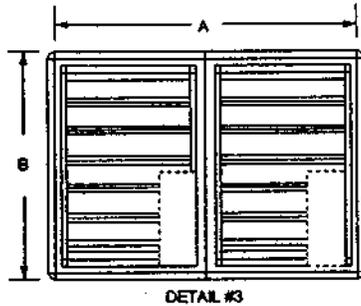
**CAUTION:** Motor kits are not suitable for use in explosive or flammable areas or airflows.

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

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**NOTE**  
 Counter balance weight kits are required on all supply dampers (gravity or motor operated)



### PLAN VIEW (TOP)

#### 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 sections 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) Motor and counterbalance kits ship separately.
- (5) Center-pivoted dampers must be used on reversible fans.
- (6) Units for horizontal mounting with air flow down require counter balance kits (for gravity operation).
- (7) Multiple section assemblies may require bracing to support the weight of the assembly and to hold against system pressure.  
*BRACING SUPPLIED BY OTHERS*
- (8) Multiple section dampers are factory joined (except 1829mm and larger).

#### METRIC DIMENSIONS (LISTED IN MILLIMETERS)

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