

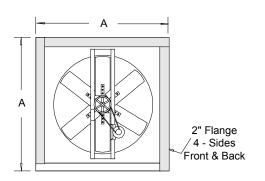
# WALL HOUSING

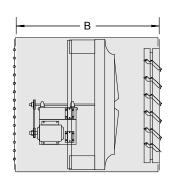
# SIDEWALL PROPELLER FANS - BELT OR DIRECT DRIVE MODELS LCE/LCS, L2E/L2S, L3E/L3S, DDE/DDS, DFE/DDS EXHAUST & SUPPLY

Wall Housings are used to facilitate mounting fans with their accessories in a wall. The housing may be positioned inside or outside the building per the customer's preference or application. Typically, the wall housing for exhaust applications incorporates a damper on the exterior of the building and a guard on the interior of the building. On supply applications, a rainhood and motorized damper are highly recommended to help prevent moisture entering into the building. For installation with wall housing extending outside the building, field caulking and/or flashing of seams and unused prepunched mounting holds is required.









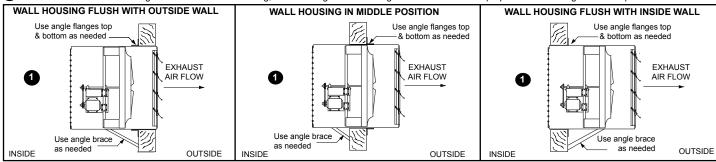
SIDE VIEW Shown with Motorside Wire Guard and Gravity Exhaust Damper

| Fan Size     | A<br>(S.Q.)<br>O.D. | Wall<br>Housing | Minimum<br>Wall<br>Opening | Damper   |       | ONS<br>ICK) |       |      |  |
|--------------|---------------------|-----------------|----------------------------|----------|-------|-------------|-------|------|--|
|              | O.D.                | B Length        | Square                     | D (O.D.) |       |             |       |      |  |
| 10/12        | 17                  | 26              | 17 1/2                     | 14 1/2   | 20 ga | .063        | 20 ga | .063 |  |
| 14/16        | 21                  | 26              | 21 1/2                     | 18 1/2   | 20 ga | .063        | 20 ga | .063 |  |
| DFE/DFS18/20 | 25                  | 26              | 25 1/2                     | 22 1/2   | 20 ga | .063        | 20 ga | .063 |  |
| LC20         | 25                  | 44              | 25 1/2                     | 22 1/2   | 20 ga | .063        | 20 ga | .063 |  |
| 24           | 31                  | 44              | 31 1/2                     | 28 1/2   | 18 ga | .080        | 18 ga | .080 |  |
| 30           | 37                  | 44              | 37 1/2                     | 34 1/2   | 18 ga | .080        | 18 ga | .080 |  |
| 36           | 43                  | 44              | 43 1/2                     | 40 1/2   | 16 ga | .080        | 16 ga | .080 |  |
| 42           | 49                  | 44              | 49 1/2                     | 46 1/2   | 16 ga | .080        | 16 ga | .080 |  |
| 48           | 55                  | 44              | 55 1/2                     | 52 1/2   | 16 ga | .080        | 16 ga | .080 |  |
| 54           | 61                  | 44              | 61 1/2                     | 58 1/2   | 14 ga | .080        | 14 ga | .080 |  |
| 60           | 67                  | 44              | 67 1/2                     | 64 1/2   | 14 ga | .080        | 14 ga | .080 |  |
| 72           | 81                  | 44              | 81 1/2                     | 78 1/2   | 14 ga | .080        | 14 ga | .080 |  |

#### NOTES:

- (1) Dimension "A" includes fastener heads (approx. 5/8" extra).
- (2) Wall housing ship assembled with fan unless ordered knocked down for field assembly.
- (3) Standard material is G90 galvanized. Aluminum optional.
- (4) Angle mounting flanges ship loose and are optional.
- (5) CAUTION: Housing position when mounted may require additional support (by others).
- (6) Data applies to exhaust and supply fan models unless shown otherwise.

CAUTION: When wall housing extends outside the building, field caulking and/or flashing of seams and unused prepunched mounting holes is required.



All drawings shown with Belt Drive Fan, Direct Drive dimensions do not differ unless otherwise noted.





# ASSEMBLED WALL HOUSING PACK

# SIDEWALL PROPELLER FANS - BELT OR DIRECT DRIVE MODELS LCE/LCS, L2E/L2S, L3E/L3S, DDE/DDS, DFE/DDS - EXHAUST & SUPPLY

This heavy-gauge, all galvanized G-90 steel housing provides a simple solution to installing a fan and all required accessories in a rough wall opening. It can be used in exhaust or supply applications. Depending on space and maintenance requirements, the wall housing maybe installed inward or outwards of the building. All housings ship with the fan, shutter and guard assembled to lessen jobsite installation costs. *Rainhoods (not included in packs) are required for all supply applications, and motorized shutters are strongly recommended.* 

#### **Exhaust Wall Housing Pack Supply Wall Housing Pack** FLAT GUARD 2 WALL HOUSING ① DAMPER 3 RAINHOOD 4 WALL HOUSING FLAT GUARD ② RAINHOOD 5 SUPPLY EXHAUST AIR AIR FLOW FLOW Ď **EXHAUST** 10"

|             |                     |                 |                            |                    |           |    | Fyl               | naust                   | Supply                          |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
|-------------|---------------------|-----------------|----------------------------|--------------------|-----------|----|-------------------|-------------------------|---------------------------------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|
| Fan<br>Size | A<br>(S.Q.)<br>O.D. | Wall<br>Housing | Minimum<br>Wall<br>Opening | Flat<br>Guard<br>② | Damp<br>③ | er | Opt<br>Rair<br>45 | tional<br>nhood<br>Deg. | Required<br>Rainhood<br>90 Deg. |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
|             |                     | B Length        | Square                     | C (SQ.)            | D (O.D.)  | Е  |                   | F                       | F                               |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 10/12       | 17                  | 26              | 17 1/2                     | 16                 | 14 1/2    | 12 |                   | 16 1/4                  | -                               |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 14/16       | 21                  | 26              | 21 1/2                     | 20                 | 18 1/2    | 16 | Exh/<br>Sup       | 20 1/4                  | -                               |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 18          | 25                  | 26              | 25 1/2                     | 24                 | 22 1/2    | 20 | Ш 0)              | 24 1/4                  | -                               |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 20          | 25                  | 26              | 25 1/2                     | 24                 | 22 1/2    | 20 | 24                | 1/4                     | 27 3/4                          |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 24          | 31                  | 44              | 31 1/2                     | 30                 | 28 1/2    | 26 | 28 1/2            |                         | 38 1/2                          |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 30          | 37                  | 44              | 37 1/2                     | 36                 | 34 1/2    | 32 | 34 1/2            |                         | 44 1/2                          |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 36          | 43                  | 44              | 43 1/2                     | 42                 | 40 1/2    | 38 | 40                | 1/2                     | 49                              |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 42          | 49                  | 44              | 49 1/2                     | 48                 | 46 1/2    | 44 | 46 1/2            |                         | 46 1/2                          |  | 46 1/2 |  | 46 1/2 |  | 46 1/2 |  | 46 1/2 |  | 46 1/2 |  | 46 1/2 |  | 46 1/2 |  | 56 1/2 |
| 48          | 55                  | 44              | 55 1/2                     | 54                 | 52 1/2    | 50 | 49 1/2            |                         | 49 1/2                          |  | 49 1/2 |  | 49 1/2 |  | 49 1/2 |  | 49 1/2 |  | 49 1/2 |  | 49 1/2 |  | 62 1/2 |  |        |
| 54          | 61                  | 44              | 61 1/2                     | 60                 | 58 1/2    | 56 | 58                | 3 1/2                   | 73                              |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
| 60          | 67                  | 44              | 67 1/2                     | 66                 | 64 1/2    | 62 | 64                | 1/2                     | 73                              |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |
|             | - 4                 |                 | 0.4.440                    |                    |           |    |                   |                         |                                 |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |

81 1/2

#### NOTES:

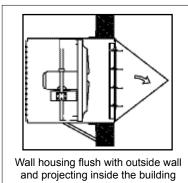
- (1) Dimensions include fastener heads (approx 5/8" extra).
- (2) Housing ship assembled with fan unless ordered K.D.
- (3) Standard material is G90 galvanized. Aluminum optional
- (4) Angle mounting flanges ship loose and are an option.
- (5) CAUTION: Housing position when mounted may require additional support.
- (6) Data applies to exhaust and supply fan models unless shown otherwise.

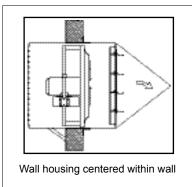
**CAUTION:** When wall housing extends outside the building, field caulking and/or flashing of seams and unused prepunched mounting holes is required.

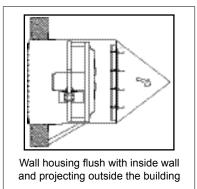
78 1/2 | 76 |

#### **TYPICAL MOUNTING ARRANGEMENTS**

The most common mounting arrangement (below left) leaves a clean building exterior and allows access to the fan, motor and drives from inside the building. Additional bracing angle, rod or cable (field provided) should be used in addition to the mounting angles to support the fan and wall housing assembly.







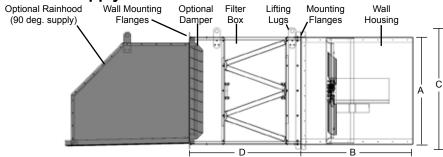




# FILTERED WALL HOUSING SIDEWALL PROPELLER FANS - BELT & DIRECT DRIVE EXHAUST & SUPPLY

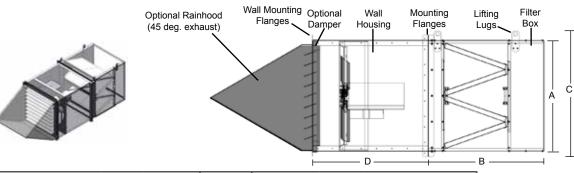
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## **Filtered Supply**

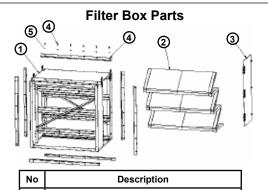




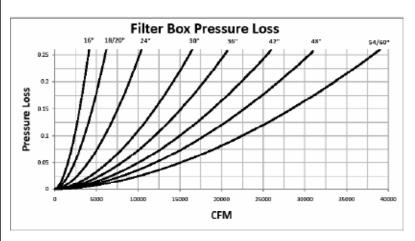
### **Filtered Exhaust**



|       |          |              | Wall Hou | ısing  |         | Minimum | Filter Box |        |                 |                             |  |  |
|-------|----------|--------------|----------|--------|---------|---------|------------|--------|-----------------|-----------------------------|--|--|
| Fan   | A (S.Q.) |              | B Leng   | gth    |         | Wall    |            |        |                 |                             |  |  |
| Size  | Ò.D.     | LC & L2      | GED & DF | E Only | DDE/DDS | Opening | С          | D      | # of<br>Filters | Filter<br>Actual Dimensions |  |  |
|       |          | Exh/Sup      | Exhaust  | Supply | Exh/Sup | Square  |            |        | riiteis         | Actual Dilliensions         |  |  |
| 14/16 | 21       | N/A          | 26       | 26     | N/A     | 21 1/2  | 21         | 39     | 2               | 19 5/8 x 19 5/8 x 1 7/8     |  |  |
| 18/20 | 25       | 44 (20 only) | 26       | 26     | N/A     | 25 1/2  | 25         | 44 1/8 | 3               | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 24    | 31       | 44           | 44       | 44     | 44      | 31 1/2  | 31         | 41 1/8 | 4               | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 30    | 37       | 44           | 44       | 44     | 44      | 37 1/2  | 37         | 44 1/8 | 8               | 15 5/8 x 24 5/8 x 1 7/8     |  |  |
| 36    | 43       | 44           | N/A      | N/A    | 44      | 43 1/2  | 43         | 44 1/8 | 8               | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 42    | 49       | 44           | N/A      | N/A    | 44      | 49 1/2  | 49         | 44 1/8 | 10              | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 48    | 55       | 44           | N/A      | N/A    | 44      | 55 1/2  | 55         | 40 1/2 | 12              | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 54    | 61       | 44           | N/A      | N/A    | 44      | 61 1/2  | 61         | 44 1/8 | 15              | 19 5/8 x 24 5/8 x 1 7/8     |  |  |
| 60    | 67       | 44           | N/A      | N/A    | 44      | 67 1/2  | 67         | 44 1/8 | 15              | 19 5/8 x 24 5/8 x 1 7/8     |  |  |



| No | Description                          |
|----|--------------------------------------|
| 1  | Filter box hinged doors              |
| 2  | Filter pack                          |
| 3  | Door Hinged Assy                     |
| 4  | Mounting Collar                      |
| 4  | 5/16" -18 x 3/4" Hex HD cap screw ZP |
| 5  | 5/16" Flange Nut ZP                  |

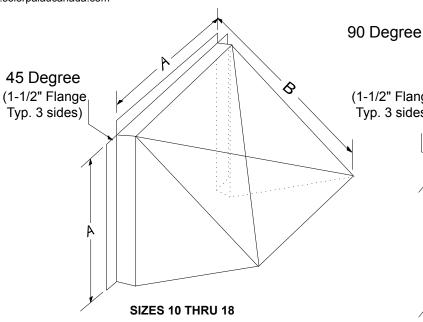






# SIDEWALL PROPELLER FAN - ACCESSORY SUPPLY RAINHOOD (or WEATHERHOOD)

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Rainhoods are recommended for all supply installations and wherever additional weather protection is desired.

| MODEL<br>SIZE | Α      | В      | С      | GAUGE (2) | DE-<br>GREE | AVG.<br>WT. |
|---------------|--------|--------|--------|-----------|-------------|-------------|
| 10/12         | 14     | 16-1/4 | -      | 18        | 45          | 15          |
| 14/16         | 18     | 20-1/4 | -      | 18        | 45          | 20          |
| 18            | 22     | 24-1/2 | -      | 18        | 45          | 25          |
| 20            | 22     | 22     | 27-3/4 | 18        | 90          | 25          |
| 24            | 27-1/4 | 26-1/2 | 38-1/2 | 18        | 90          | 30          |
| 30            | 32-1/2 | 33-1/2 | 44-1/2 | 18        | 90          | 40          |
| 36            | 38-1/2 | 39-1/4 | 49     | 18        | 90          | 50          |
| 42            | 44-1/2 | 45-1/4 | 56-1/2 | 18        | 90          | 60          |
| 48            | 50-1/2 | 51-1/2 | 62-1/2 | 18        | 90          | 70          |
| 54            | 56-3/4 | 57     | 73     | 18        | 90          | 120         |
| 60            | 62-3/4 | 63     | 73     | 18        | 90          | 175         |
| 72            | 76-3/4 | 76-3/4 | 73     | 18        | 90          | 200         |

LIFTING
Typ. 3 sides)

B

C

SIZES 20 THRU 72

Rainhoods **DO NOT** guarantee that water, snow, or other airborne particles will not become entrained in the airstream and enter the building through the fan.

- Hoods ship in pieces (a) for field assembly unless specified otherwise. Mounting holes may require field drilling.
  - a. 3 pcs Fan Sizes 10" to 18" 7 pcs - Fan Sizes 20" to 48" 13 pcs - Fan Sizes 54" to 72"
- 2. Standard construction is G90 galvanized steel.
- 3. Hoods are sized to fit standard wall housings.
- 4. Rainhoods do not guarantee water will not enter through opening.
- 5. Optional birdscreen is recommended to prevent critters or debris from entering the fan.

| ACCESSORY ITEMS    | 1 | 2 | 3 | 4 | 5 | ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 |
|--------------------|---|---|---|---|---|-----------------|---|---|---|---|---|
|                    |   |   |   |   |   |                 |   |   |   |   |   |
|                    |   |   |   |   |   |                 |   |   |   |   |   |
|                    |   |   |   |   |   |                 |   |   |   |   |   |
|                    |   |   |   |   |   |                 |   |   |   |   |   |
| Project:           |   |   |   |   |   | Submitted       |   |   |   |   |   |
| Project: Customer: |   |   |   |   |   | Approved:       |   |   |   |   |   |
| Location:          |   |   |   |   |   |                 |   |   |   |   |   |

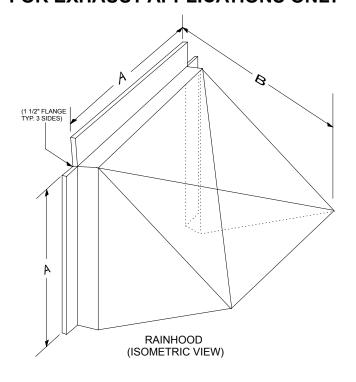


# SIDEWALL PROPELLER FAN - ACCESSORY 45 DEGREE RAINHOOD (or WEATHERHOOD) FOR EXHAUST APPLICATIONS ONLY

Rainhoods are recommended for all supply installations and wherever additional weather protection is desired. Refer to supply style rainhood for supply installations.

Rainhoods do not guarantee that water, snow, or other airborne particles will not become entrained in the airstream and enter the building through the fan.

- Hoods ship in several pieces for field assembly unless specified factory assembled. Mounting holes may required field drilling.
- 2. Standard construction is G90 galvanized steel.
- 3. Hoods are sized to fit standard wall housings.
- 4. Rainhoods do not guarantee water will not enter through opening.
- 5. Sizes 48" and larger have support angles fastened to front edge.
- Optional birdscreen is recommended to prevent critters or debris from entering the fan.

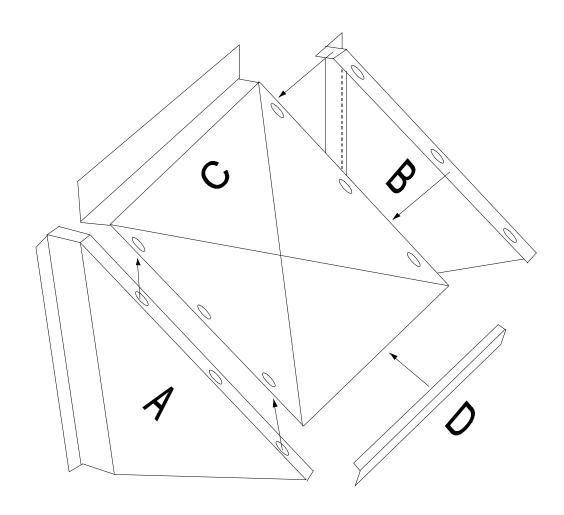


| MODEL<br>SIZE | Α  | В      | GAUGE (2) | AVG.<br>WT. |
|---------------|----|--------|-----------|-------------|
| 10/12         | 14 | 16-1/4 | 18        | 15          |
| 14/16         | 18 | 20-1/4 | 18        | 20          |
| 18            | 22 | 24-1/4 | 18        | 25          |
| 20            | 22 | 24-1/4 | 18        | 25          |
| 24            | 28 | 28-1/2 | 18        | 30          |
| 30            | 34 | 34-1/2 | 18        | 40          |
| 36            | 40 | 40-1/2 | 18        | 50          |
| 42            | 46 | 46-1/2 | 18        | 60          |
| 48            | 52 | 49-1/2 | 16        | 70          |
| 54            | 58 | 58-1/2 | 16        | 120         |
| 60            | 64 | 64-1/2 | 16        | 175         |
| 72            | 78 | 64-1/2 | 16        | 200         |

| ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 | ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 |
|-----------------|---|---|---|---|---|-----------------|---|---|---|---|---|
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
| Project:        |   |   |   |   |   | Submitted: _    |   |   |   |   |   |
| Customer:       |   |   |   |   |   | Approved: _     |   |   |   |   |   |
| LUCATION.       |   |   |   |   |   |                 |   |   |   |   | _ |

## SIDEWALL PROPELLER FAN ACCESSORY

RAINHOOD - K.D. (Knocked Down) FOR FIELD ASSEMBLY



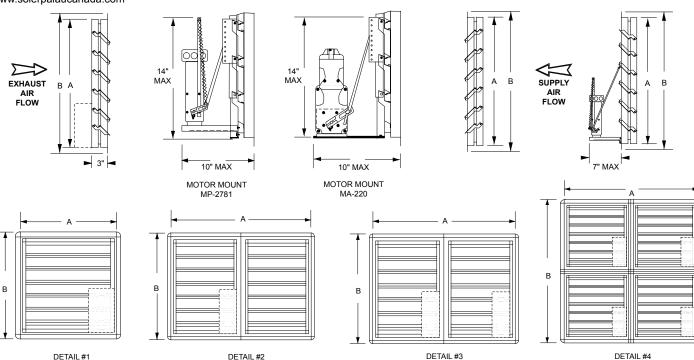
# ASSEMBLY INSTRUCTION FOR KNOCKED DOWN RAINHOODS

- 1. Align side "A" with top (C).
- 2. Fasten securely with 1/4" sheet metal screws provided.
- 3. Attach side "B" following the same steps.
- 4. On sizes 48" and larger, attached support angle (D) to front edge as shown, with sheet metal screws provided.
- 5. Attach (optional) wire birdguard (when purchased) to factory flanges/rain channels or to field provided 1 1/2" X 1 1/2" galvanized formed angle (approx. 18 ga.).
- 6. Securely fasten to factory wall box flanges (drill as required) and thoroughly flash and caulk wall opening and seams.





## **BACKDRAFT DAMPER** FOR SIDEWALL PROPELLER (EXHAUST/SUPPLY)



|             | A      | В      |                    |         | Mot | or Type   |     |
|-------------|--------|--------|--------------------|---------|-----|-----------|-----|
| Fan<br>Size | Square | Sq. OD | Panels<br>(Detail) | Exhau   | ıst | Suppl     | y   |
| 0.20        | Size   | Flange | (2000)             | Type    | Qty | Туре      | Qty |
| 10-12       | 12     | 14 1/2 | 1                  | MP-2781 | 1   | MP-2781-S | 1   |
| 14-16       | 16     | 18 1/2 | 1                  | MP-2781 | 1   | MP-2781-S | 1   |
| 18-20       | 20     | 22 1/2 | 1                  | MP-2781 | 1   | MP-2781-S | 1   |
| 24          | 26     | 28 1/2 | 1                  | MP-2781 | 1   | MP-2781-S | 1   |
| 30          | 32     | 34 1/2 | 1                  | MP-2781 | 1   | MA-220-S  | 1   |
| 36          | 38     | 40 1/2 | 1                  | MA-220  | 1   | MA-220-S  | 1   |
| 42          | 44     | 46 1/2 | 2                  | MA-220  | 1   | MA-220-S  | 2   |
| 48          | 50     | 52 1/2 | 2                  | MA-220  | 1   | MA-220-S  | 2   |
| 54          | 56     | 58 1/2 | 3                  | MA-220  | 2   | MA-220-S  | 2   |
| 60          | 62     | 64 1/2 | 3                  | MA-220  | 2   | MA-220-S  | 2   |
| 72          | 77     | 79 1/2 | 4                  | MA-220  | 4   | MA-220-S  | 4   |

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

### STANDARD SPECIFICATIONS:

Maximum Face Velocity: 3000 fpm. Temperature limits: -40°F to 200°F (-40°C to 94°C) Minimum Size: 8 x 8

Single section: 42 x 64 Max W/H Size: 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 and mounting hardware 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.

| ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 | ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 |
|-----------------|---|---|---|---|---|-----------------|---|---|---|---|---|
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
| Project:        |   |   |   |   |   | Submitted: _    |   |   |   |   |   |
| Customer:       |   |   |   |   |   | Approved: _     |   |   |   |   |   |
| Location:       |   |   |   |   |   |                 |   |   |   |   |   |



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

Multiple section dampers are factory assembled

For all supply applications, a rainhood and mo-

(except 72" and larger).

tor kit is recommended.

# (%)

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**BRACE BAR** 

Size 30 &

Larger

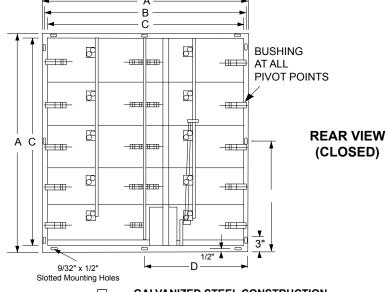
TIE ROD

LINK

**MOTOR** 

**BLADE CLIP** 

# CENTER PIVOT MOTORIZED DAMPER EXHAUST OR SUPPLY VERTICAL OR HORIZONTAL AIR FLOW



# GALVANIZED AND ALUMINUM DAMPERS

- All dampers can be used for intake or exhaust applications.
- All dampers are factory motorized, 120/240 dual voltage single phase motor, power open-spring close.
- Ample 9/32" x 1/2" slotted mounting holes in 1 1/2" flange.
- Sizes larger than 48" wide are double panel factory joined.
- Max velocity 3000 FPM.
- Max differential pressure 2" W.G.

# GALVANIZED STEEL CONSTRUCTION FRAME IS 14 GAUGE

- •16 Gauge galvanized steel center pivoted blades, open to a full 90° to allow full air flow.
- •1/8 inch thick galvanized tie rod and attaching blade clip.
- •Galvanized dampers have 1/2 inch diameter plated steel pivot shaft with brass grommet bushing.

# ALUMINUM CONSTRUCTION FRAME IS 1/8 INCH THICK EXTRUDED

- •Extruded aluminum blades with nylon bushings are .080 thick center pivoted to allow full 90° opening.
- •1/8" thick aluminum tie rod and attaching blade clip.

| FAN  | OPENING  |           | В      | С      | D                 | # OF   | G               |               |                  | МОТ         | TOR (2)                |
|------|----------|-----------|--------|--------|-------------------|--------|-----------------|---------------|------------------|-------------|------------------------|
| SIZE | REQUIRED | A<br>O.D. | (1)    | "Size" | (Center of Holes) | PANELS | CLOSED<br>(E-1) | OPEN<br>(E-2) | POWER<br>SUPPLY  | MAX<br>AMPS | STALL TORQUE (in. lbs) |
| 24   | 27       | 29        | 24-1/2 | 26     | -                 | 1 x 1  | 7-1/4           | 8-1/2         |                  | 0.3/0.6     | 25                     |
| 30   | 33       | 35        | 30-1/2 | 32     | -                 | 1 x 1  | 10-1/4          | 13-3/4        |                  | 0.3/0.6     | 25                     |
| 36   | 39       | 41        | 36-1/2 | 38     | 19-1/2            | 1 x 1  | 10-1/4          | 13-3/4        | 120-240V<br>60Hz | 0.3/0.6     | 25                     |
| 42   | 45       | 47        | 42-1/2 | 44     | 22-1/2            | 1 x 1  | 10-1/4          | 13-3/4        | 00112            | 0.3/0.6     | 25                     |
| 48   | 51       | 53        | 48-1/2 | 50     | 25-1/2            | 2 x 1  | 10-1/4          | 13-3/4        |                  | 0.3/0.6     | 25                     |
| 54   | 57       | 59        | 54-1/2 | 56     | 28-1/2            | 2 x 1  | 10-1/4          | 12-3/4        |                  | 0.5         | 60                     |
| 60   | 63       | 65        | 60-1/2 | 62     | 31-1/2            | 2 x 1  | 10-1/4          | 12-3/4        | 240V<br>60Hz     | 0.5         | 60                     |
| 72   | 77       | 79        | 76-1/2 | 76     | 39-1/2            | 2 x 1  | 10-1/4          | 12-3/4        | 00112            | 0.5         | 60                     |

SIDE

**VIEW** 

1 1/2'

### NOT SUITABLE FOR USE IN HAZARDOUS OR FLAMMABLE AREAS OR AIRSTREAMS.

| ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 | ACCESSORY ITEMS | 1 | 2 | 3 | 4 | 5 |
|-----------------|---|---|---|---|---|-----------------|---|---|---|---|---|
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |
|                 |   |   |   |   |   |                 |   |   |   |   |   |



<sup>(1)</sup> Minimum opening to clear pins.

<sup>(2)</sup> Motor is 60 Hz, single phase continuous duty with 104°F (40°C), maximum ambient temperature

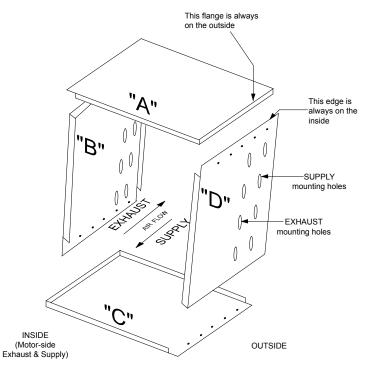


# ASSEMBLY INSTRUCTIONS FOR WALL BOX/HOUSING

### **INSTRUCTIONS**

- 1. Assemble pieces "A", "B" and "C" with flanges on the outside. Use fasteners provided.
- 2. Install fan in proper exhaust or supply location maintaining the required distance between fan and shutter (if shutter is used).
- 3. Attach side "D".
- 4. Install wall box in wall with accessory angles, flat flanges or by other means as needed.

RAINHOODS ARE RECOMMENDED FOR ALL SUPPLY APPLICATIONS AND FOR ADDITIONAL WEATHER PROTECTION FOR EXHAUST APPLICATIONS.



### TYPICAL WALL BOX/HOUSING INSTALLATION

| MODEL<br>SIZE | MINIMUM<br>WALL OPENING |
|---------------|-------------------------|
| 10/12         | 17-1/2                  |
| 14/16         | 21-1/2                  |
| 18/20         | 25-1/2                  |
| 24            | 31-1/2                  |
| 30            | 37-1/2                  |
| 36            | 43-1/2                  |
| 42            | 49-1/2                  |
| 48            | 55-1/2                  |
| 54            | 61-1/2                  |
| 60            | 67-1/2                  |
| 72            | 81-1/2                  |

#### **Other Accessories**

- Rainhoods
- · Motorized Dampers
- Automatic Dampers
- · Epoxy and Other
- Various Paint Finishes
- Mounting Angles
- · Electrical Switches
- · Safety Guards

#### All dimensions are shown in inches.

1 CAUTION: When wall housing extends outside the building, field caulking and/or flashing of seams and unused prepunched mounting holes is required.

