## STANDARD CONSTRUCTION

FRAME: 10 GA. galvanized steel.
BLADES: 16 GA. galvanized steel.
BLADE SPACING: $33 / 8^{\prime \prime}$ minimum to $71 / 8^{\prime \prime}$ maximum
LINKAGE: $1 / 8^{\prime \prime}$ thick plated steel bracket with $1 / 2^{\prime \prime}$ dia. plated steel pivot riding in a celcon sleeve bearing. Linkage rod is $5 / 16$ " dia. aluminum locked to pivot with a $1 / 4 "-20$ UNC plated steel set screw. Single linkage for panels < 20"W. double linkage for panels > 20"W.
AXLES: $3 / 4$ " dia. steel; Full length of blade.
BEARINGS: Bronze Oilite.
SEALS: Polyurethane on blade edges, none at jambs.
FINISH: Mill.

## OPTIONS

Frames are available to completely contain blades and linkage Flange or Channel frame (Airflow must be specified) Jamb seals on blades and jambs to provide low leakage.
Stainless steel blade seal ( 0.010 " thick)
Counterweights (Assist or Resist must be specified)
Variety of bird and insect screens

## NOTES

1. $1 / 4^{\prime \prime}$ nominal deduction will be made to the opening size given.
DAMPER SIZES

| Min Panel | Max Single Panel |
| :---: | :---: |
| $12 " \mathrm{~W} \times 12 " \mathrm{H}$ | $48 " \mathrm{~W} \times 72$ "H |



|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item \# | Qty | Width | Height | Width | Height | Mullion | Counter Balance | Air Flow (Direction) |  |
|  |  | Opening Size |  | Damper Size |  |  |  |  | Union Made |
| Arch. / Eng.: |  |  |  |  |  | EDR: | ECN: | Job: |  |
| Contractor: |  |  |  |  |  |  |  |  |  |
| Project: |  |  |  |  |  | Date: | DWN: | DWG: |  |

In the interest of product development, Louvers \& Dampers reserves the right to make changes without notice.

## PRESSURE DROP DATA

Performance is based on AMCA Standard 500, Figure 5.4 (without ductwork) or Figure 5.3 (in-duct mount), operating temperatures below $180^{\circ} \mathrm{F}$ and a standard air density of $0.75 \mathrm{lb} / \mathrm{ft}^{3}$. Actual pressure drop performance will vary based on damper size and exact installation configuration. The curves shown below are furnished with counterweights to assist opening.

Velocity vs. Pressure Drop


Typical performance for Model PRI4 backdraft damper size tested 42 " $\mathrm{W} \times 42^{\prime \prime} \mathrm{H}$ furnished with counterweight to assist opening.

## AIR LEAKAGE DATA

Air leakage quantities shown in the chart are results of tests per AMCA Standard 500 and are shown at 1 in . w.g. differential pressure and corrected to $0.75 \mathrm{lb} / \mathrm{cu} . \mathrm{ft}$. air density. For determining leakage values greater that $1 \mathrm{in} . \mathrm{w} . \mathrm{g}$. to a maximum 10 in . w.g. use the multiplier correction chart.

Total CFM Air Leakage at 1 in.w.g. Differential Through Closed Damper
Width (in.)

|  |  | 12" | 18" | 24" | 30" | 36" | 42" | 48" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 12" | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
|  | 24" | 16 | 24 | 32 | 40 | 48 | 56 | 64 |
|  | 36" | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
|  | 48" | 32 | 48 | 64 | 80 | 96 | 112 | 128 |
|  | 60" | 40 | 60 | 80 | 100 | 120 | 140 | 160 |
|  | 72" | 48 | 72 | 96 | 120 | 144 | 168 | 192 |

For determining leakage values greater than 1 in . w.g. to a maximum
10 in. w.g. use the multiplier correction chart below.

| Static Pressure | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiplier <br> Correction Factor | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 2.8 | 3.0 | 3.3 |

Air leakage ratings are based on AMCA Standard 500 using test set up Fig. 5.4 with damper in the closed position without the aid of a counterweight or other mechanical means to provide closing torque, for a size $42 \mathrm{~W} \times 42 \mathrm{H}$ damper with blade and jamb seals.
www.louvers-dampers.com $\quad$ Louvers

