

## Application

Model MBD-15 is a manual balancing damper designed to regulate the flow of air in a HVAC system. They are not intended to be used in applications as a positive shut off or for automatic control. The design incorporates heavy gauge galvanized steel construction for durability and longevity. MBD-15 meets SMACNA's recommended construction requirements for manual balancing dampers.

## Ratings

### Pressure

Up to 4 in. wg (1kPa) - pressure differential

### Velocity

Up to 2000 fpm (10.2 m/s)

### Temperature

Up to 180°F (82°C)

## Construction

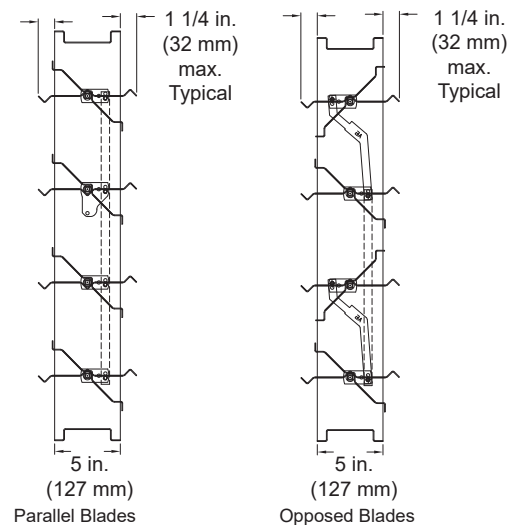
|                  | Standard                                                                                                      | Optional                               |
|------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Frame Material   | Galvanized Steel                                                                                              | -                                      |
| Frame Thickness  | 16 ga. (1.5mm)                                                                                                | -                                      |
| Frame Type       | 5 in. x 1 in.<br>(127mm x 25mm)<br>hat channel                                                                | -                                      |
| Blade Material   | Galvanized Steel                                                                                              | -                                      |
| Blade Thickness  | 16 ga. (1.5mm)                                                                                                | -                                      |
| Blade Type       | 3V                                                                                                            | -                                      |
| Blade Operation  | Opposed                                                                                                       | Parallel                               |
| Axle Bearings    | Synthetic (acetal) Sleeve                                                                                     | -                                      |
| Linkage Material | Plated Steel                                                                                                  | -                                      |
| Operator         | ½ in. (13mm) locking<br>manual quadrant with<br>1 ½ in. (38mm) standoff<br>bracket for external<br>insulation | -                                      |
| Extension Pin    | ½ in. (13mm) Diagonal<br>glass reinforced polymer<br>extends 3 ½ in. (89mm)<br>beyond frame                   | ½ in. (38mm)<br>steel extension<br>pin |

## Options

- 2 in. (51mm) stand off bracket



\*W & H dimension furnished approximately ¼ in. (6mm) undersize.



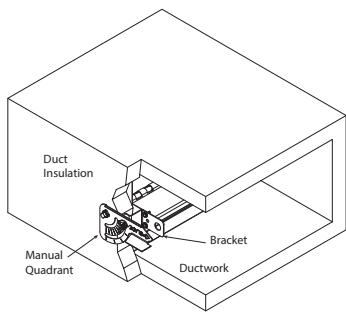
## Size Limitations

| W x H  | Minimum Size* | Maximum Size   |                  |
|--------|---------------|----------------|------------------|
|        |               | Single Section | Multiple Section |
| Inches | 6 x 6         | 48 x 60        | 96 x 96          |
| mm     | 152 x 152     | 1219 x 1524    | 2438 x 2438      |

\* Note: If the height is less than 9 in. (228mm) or less, the damper will have one blade.

## Stand-off Bracket

1½ in. (38mm) standoff bracket is standard. It is used to extend the manual quadrant away from the ductwork to accommodate external insulation.



## Performance Data

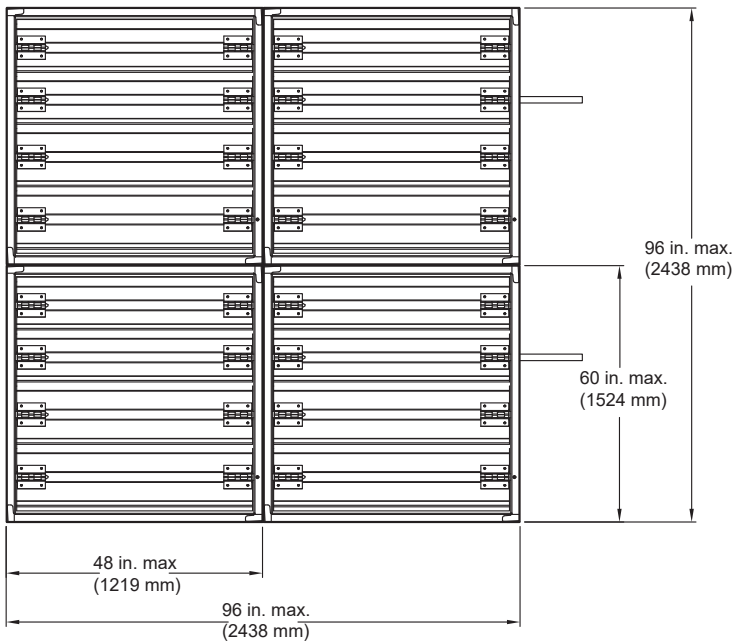
Maximum recommended system pressure and velocity ratings are conservative to prevent misapplication. Dampers are structurally capable of withstanding higher limits, however it is recommended that Greenheck be contacted for an engineering evaluation before exceeding these limits.

Temperature: Applications above 180°F (82°C) may require special considerations.

| Damper Width<br>in. (mm) | Maximum System Pressure<br>in. wg (kPa) | Maximum System Velocity<br>fpm (m/s) |
|--------------------------|-----------------------------------------|--------------------------------------|
| 48 (1219)                | 2 (.5)                                  | 2000 (10.2)                          |
| 36 (914)                 | 2.5 (.63)                               |                                      |
| 24 (610)                 | 3 (.75)                                 |                                      |
| 12 (305)                 | 4 (1)                                   |                                      |

## Maximum Size

Dampers over 48 in. (1219mm) wide and/or 60 in. (1524mm) high are shipped as 2 equal sections (requiring field assembly). For dampers larger than 96 in. W x 96 in. H (2438mm x 2438mm), use Greenheck model VCD-20 series.



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