

### Application

The BD-90 is a horizontal mount backdraft damper designed to allow vertical airflow up and prevent reverse airflow. The dampers are opened by air pressure differential and closed by gravity. The primary application is with roof mounted exhaust fans.

### Damper Ratings

#### Pressure

Up to 2.0 in. wg (0.5 kPa) - differential pressure

#### Velocity

Up to 1500 fpm (7 m/s)

#### Temperature

Up to 180°F (82°C)

### Construction

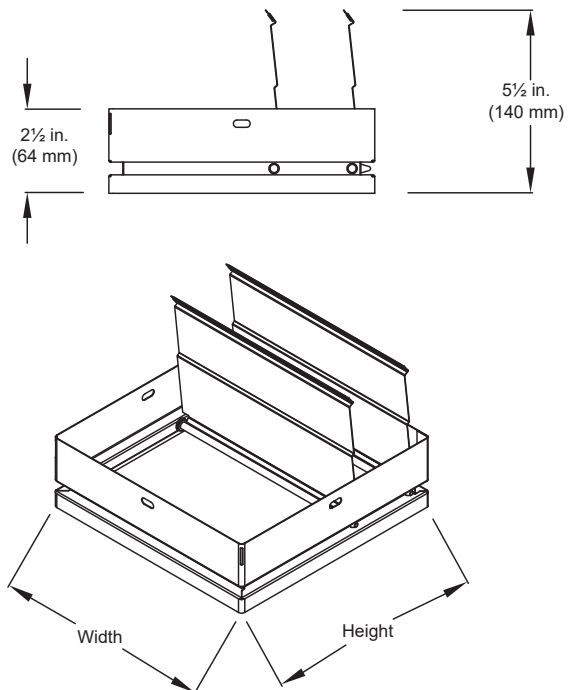
|                    | Standard             |
|--------------------|----------------------|
| Frame Material     | Galvanized Steel     |
| Frame Thickness    | 24 ga. (0.7mm)       |
| Frame Type         | No Flange            |
| Blade Material     | Roll formed aluminum |
| Blade Thickness    | 0.016 in. (0.41mm)   |
| Blade Seals        | Vinyl                |
| Axle/Axle Bearings | Synthetic            |

### Size Limitations

| W x H       | Size                 |
|-------------|----------------------|
| in.<br>(mm) | 8 x 8<br>(203 x 203) |



\* W & H dimensions furnished approximately 1/8 in. (3mm) undersize.



## Performance Data



Greenheck Fan Corporation certifies that the models BD-90 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance Ratings.

## Test Information

- Air leakage is based on operation between 32°F and 120°F (0°C and 48°C)
- Tests for air leakage were conducted in accordance with ANSI/AMCA Standard 500-D Figure 5.5, in the backdraft direction
- Air performance testing conducted in accordance with ANSI/AMCA Standard 500-D, Figure 5.7B

## Air Leakage

Model BD-90 series dampers leak a maximum of:

- 36 cfm/ft<sup>2</sup> or less at 1.0 inches w.g.

\*Note: This model complies with the International Energy Conservation Code (IECC) and ASHRAE 90.1 leakage requirements for non-motorized dampers.

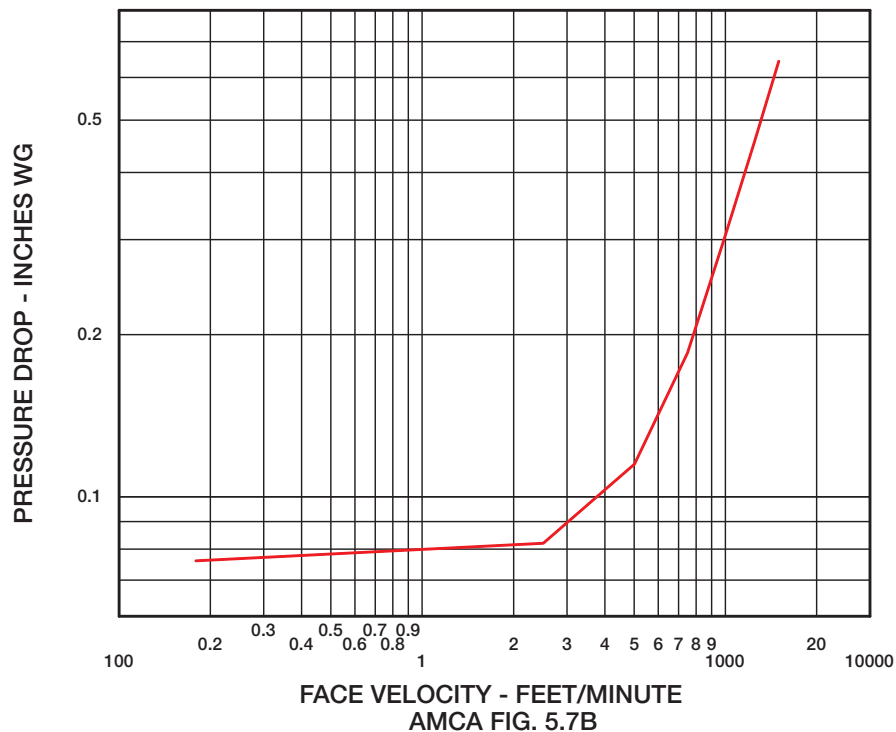
## Air Performance

Performance data results from testing a 8 in. x 8 in. (203mm x 203mm) damper in accordance with AMCA Standard 500-D using Figure 5.7B. All data has been corrected to represent standard air at 0.075 lb/ft<sup>3</sup> (1.201 kg/m<sup>3</sup>).

### Pressure Drop

8 in. x 8 in. Damper  
(203mm x 203mm)

#### VELOCITY VS. PRESSURE DROP



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