

Application

The BR-30 series is an eccentrically pivoted backdraft damper for low velocity systems. BR-30 series is a vertical mounted damper and designed to allow horizontal airflow and prevent reverse airflow. The blade is formed aluminum which increases sensitivity and reduces blade mounted counterbalance weights. On-blade counterweights are provided to fine tune start-to-open and full open blade operation. Ball bearings minimize friction.

Recommended Applications

- Gravity hood intake and exhaust
- Stairwell pressurization
- Room pressurization
- Ductwork outlets

Poor Applications

- Propeller fan outlets (high velocity)
- Centrifugal fan outlets (high velocity)
- Building pressurization (sensitive to wind)
- Pressure relief exceeding 0.3 in. wg (0.075 kPa)

Ratings

Back Pressure

2.0 in. wg (0.5 kPa)

Start-to-Open Pressure

0.05 in. wg (.01 kPa)

Velocity

2,000 fpm (10.2 m/s)

Temperature

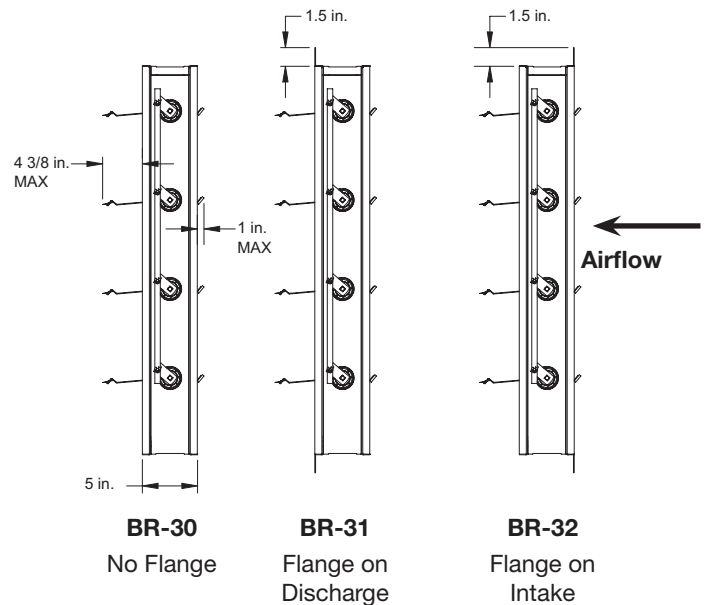
180°F (82°C)

Construction

| | Standard | Optional |
|-------------------------|---------------------------------------|--|
| Frame Material | Galvanized Steel | 304SS, Aluminum |
| Frame Thickness | 16 ga. (1.5mm) | - |
| Frame Type | No Flange (BR-30) | - |
| | Flange on Discharge (BR-31) | - |
| | Flange on Intake (BR-32) | - |
| Blade Material | Aluminum | - |
| Blade Seal | TPE | None |
| Blade Thickness | 0.063 in. (1.6mm) | - |
| Axle | Plated Steel | 316SS |
| Axle Bearings | Galvanized Ball | Acetal w/SS Ball |
| Linkage Material | Galvanized Steel | - |
| Jamb Seal | None | EPDM |
| Counterbalance | Blade mounted with adjustable weights | - |
| Paint Finishes | None | Baked Enamel, Hi Pro Polyester, Industrial Epoxy |



*W & H dimensions furnished approximately 1/4 in. (6mm) undersize.



Size Limitations

| W x H | Minimum Size | Maximum Size | |
|---------------|--------------|----------------|-------------------|
| | | Single Section | Multiple Sections |
| Inches | 8 x 6 | 48 x 74 | 96 x 148 |
| mm | 203 x 152 | 1220 x 1880 | 2438 x 3759 |

Feature

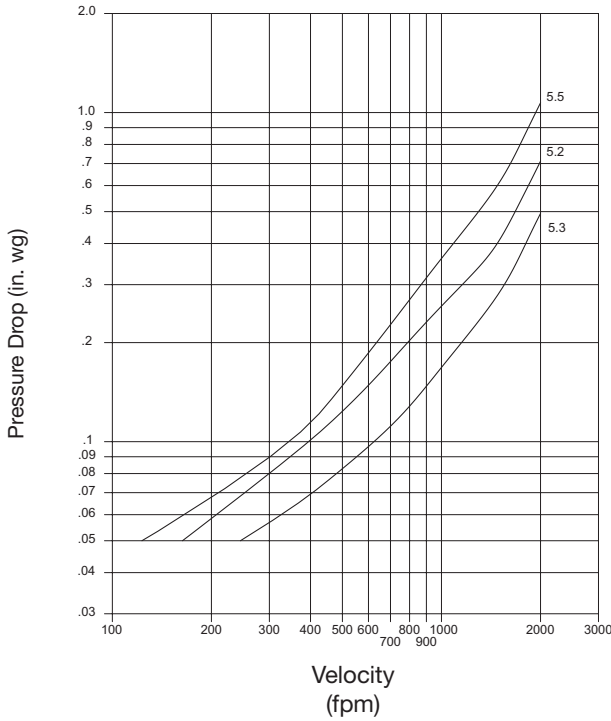
- Selectable start open from .05 to .30 in. wg (0.012 kPa - 0.075 kPa).

Performance Data

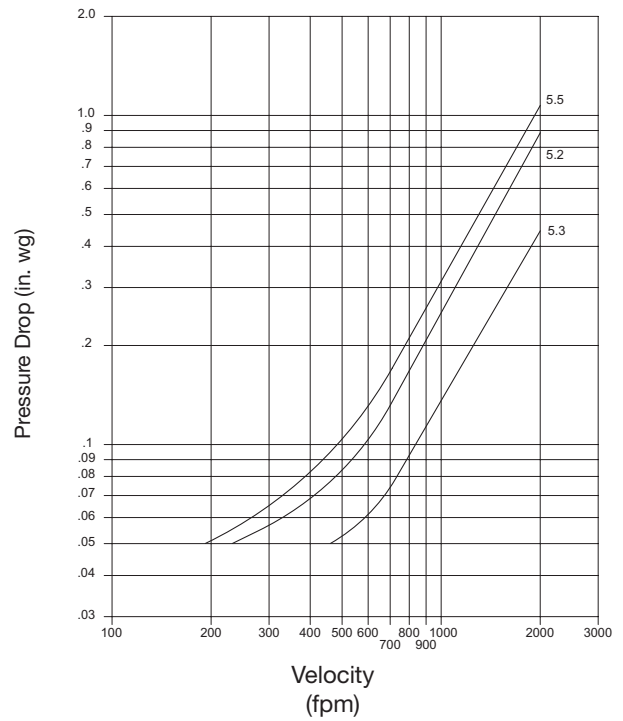
Performance data results from testing a 12 in. x 12 in. and 36 in. x 36 in. (305mm x 305mm and 914mm x 914mm) in accordance with AMCA Standard 500-D using Figure 5.3 (fully ducted), 5.2 (ducted exhausting into an open area), and 5.5 (plenum mounted). All data has been corrected to represent standard air density at 0.075 lb/ft³ (1.201 kg/m³).

Pressure drop data shown is based on minimum start open pressure. Higher start open pressure will result in different pressure drop.

Damper Size
12 in. x 12 in.
(305mm x 305mm)



Damper Size
36 in. x 36 in.
(914mm x 914mm)



Document Links

[Installation Instructions](#)



[Backdraft Catalog](#)



[Damper Product Selection Guide](#)



[Specifications](#)



[Damper Warranty](#)

