

Application

Model ABD-RB combines a Greenheck Automatic Balancing Damper (model ABD) with the convenience of a factory supplied register box. The ABD-RB can be configured for supply or exhaust applications and can be mounted in both walls and ceilings.

In addition, the ABD can be mounted in either the side or the back of the register box. All ABD models maintain a constant cfm independent of the system pressure to prevent over or under ventilation. The ABD-RB is also available with a factory supplied grille.

Ratings

Pressure

0.2 in wg to 2.0 in. wg (0.05 kPa to 0.5kPa)

Volume

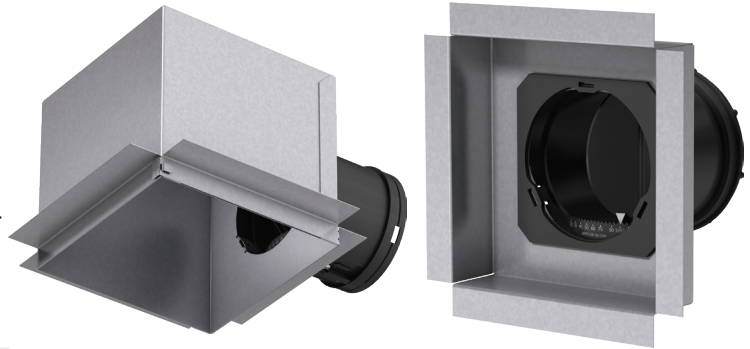
25 cfm to 425 cfm (0.012 m³/s to 0.201 m³/s) size dependent

Temperature

25°F to 150°F (-4°C to 65°C)

UL Classified

UL 2043 for heat and visible smoke release



See complete marking on product.

UL 2043 Classification
R39668

Construction

Standard	
Plenum Box	Steel
Frame Material	Reinforced UL 94 Thermoplastic Resins
Blade Material	Reinforced UL 94 Thermoplastic Resins
Bearings	Hydraulic blade dampener
Outer Seal	Removable rubber gasket
Spring	Stainless steel leaf type
Anti-Microbial Agent	Steri-Balance™ infused into plastic
Adapter	Quick-connect adapter ring included
Steel Collar	Optional

Airflow Range by Size

Diameter (mm)	Individual Set Points	Airflow Range - CFM* (m ³ /s)
4 in (102)	20	25 to 130 (.012 to .061)
5 in (127)	20	25 to 130 (.012 to .061)
6 in (152)	24	50 to 275 (.024 to .130)
8 in. (203) Exhaust	26	125 to 400 (.059 to .189)
8 in. (203) Supply	26	105 to 425 (.050 to .201)

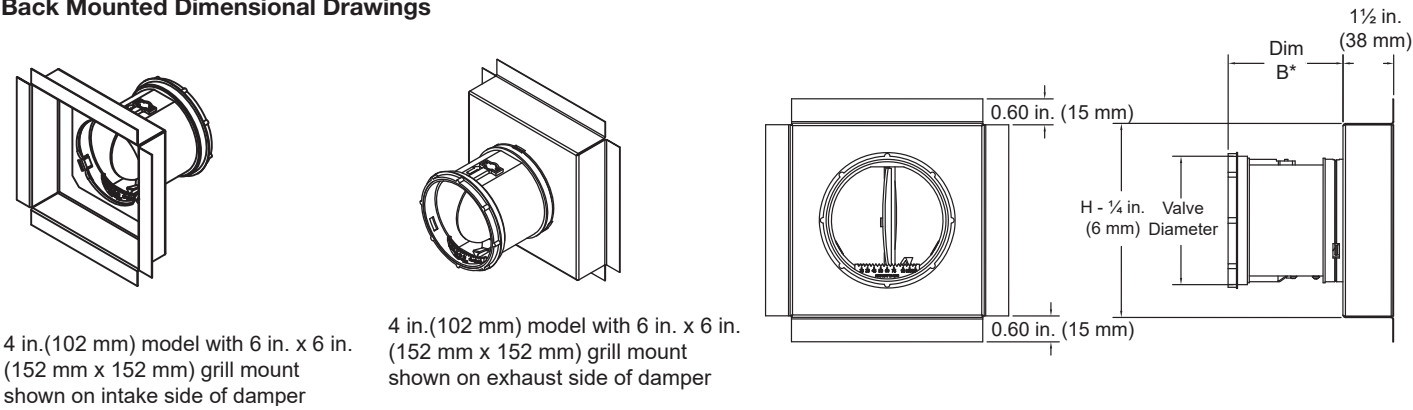
* Note: Airflow range determined through +/- 10% of average airflow over the pressure range.

Notes:

- When steel collar is selected, ABD valve is shipped loose for field installed.
- Valve diameter drives steel collar diameter.

Dimensions

Back Mounted Dimensional Drawings

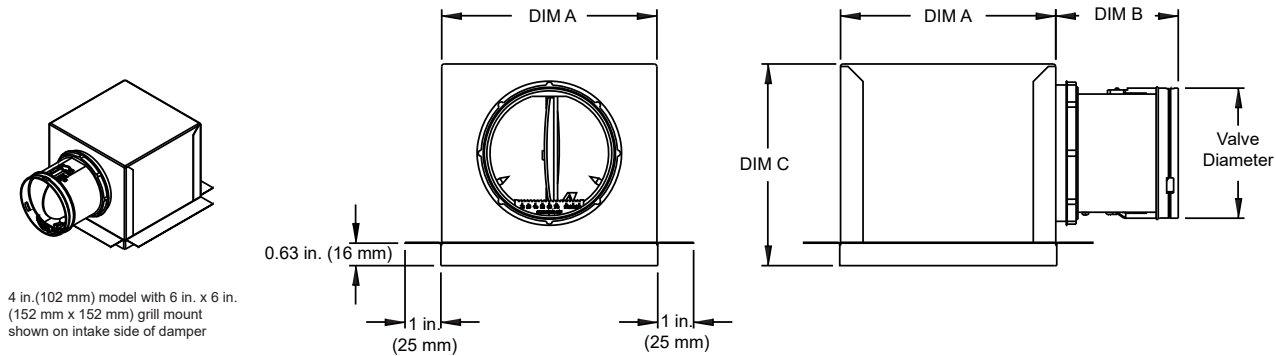


Back Mounted Box by Valve Diameter

Diameter (mm)	Grille Box Sleeve Size in inches (mm)*
4 in (102)	6 x 6 x 1½ (152 x 152 x 38); 6 x 6 x 5⁵⁄₈ (152 x 152 x 143); 8 x 8 x 1½ (203 x 203 x 38);
5 in (127)	6 x 6 x 1½ (152 x 152 x 38); 6 x 6 x 5⁵⁄₈ (152 x 152 x 143); 8 x 8 x 1½ (203 x 203 x 38)
6 in (152)	6 x 6 x 1½ (152 x 152 x 38); 8 x 8 x 1½ (203 x 203 x 38); 10 x 10 x 6⁷⁄₈ (254 x 254 x 175)
8 in. (203)	10 x 10 x 1½ (254 x 254 x 38) 10 x 10 x 8 ⁷⁄₈ (254 x 254 x 225)

*6 x 6 x 1½ inch grille box is undersize a ¼ in. (6mm). Other box sizes are actual size.

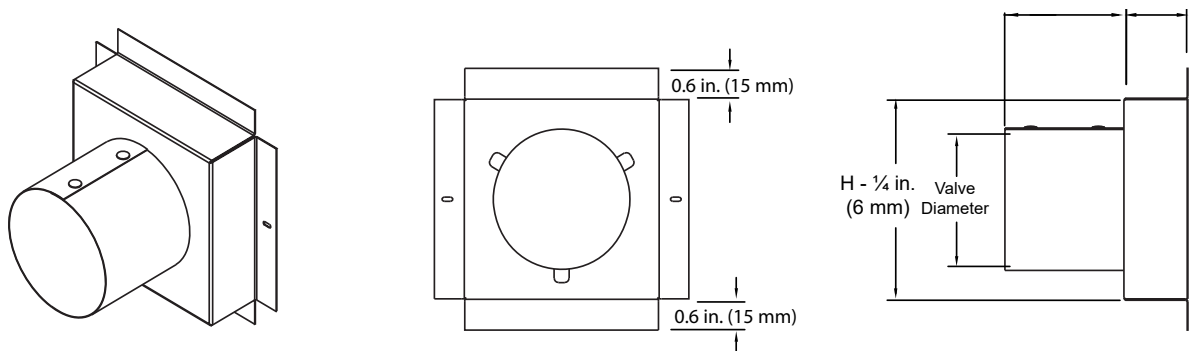
Side Mounted Dimensional Drawings



Side Mounted Box by Valve Diameter

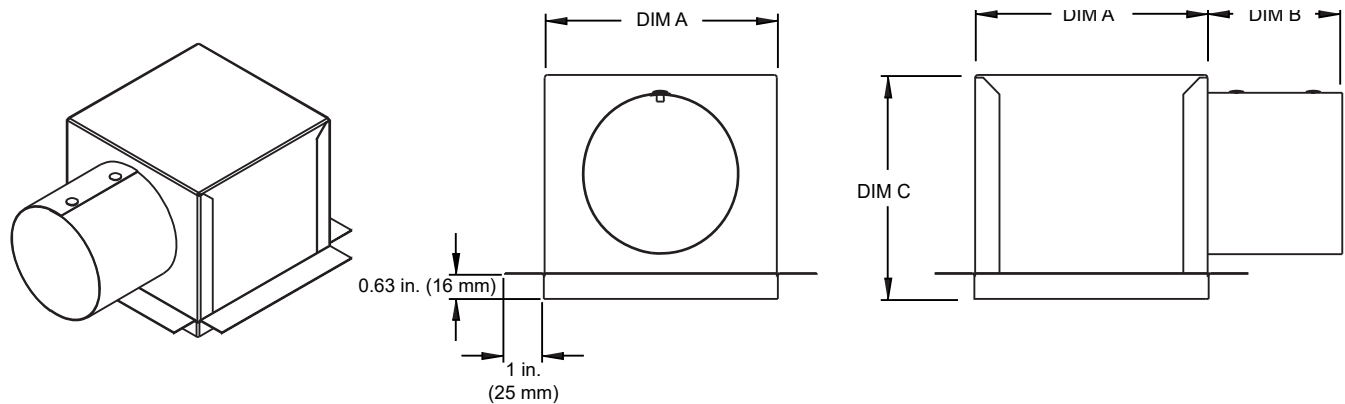
Diameter (mm)	Grille Box Sleeve Size in inches(mm)
4 in (102)	6 x 6 x 5⁵⁄₈ (152 x 152 x 143)
5 in (127)	6 x 6 x 5⁵⁄₈ (152 x 152 x 143)
6 in (152)	10 x 10 x 6⁷⁄₈ (254 x 254 x 175)
8 in. (203)	10 x 10 x 8⁷⁄₈ (254 x 254 x 225)

Factory Supplied Steel Collar



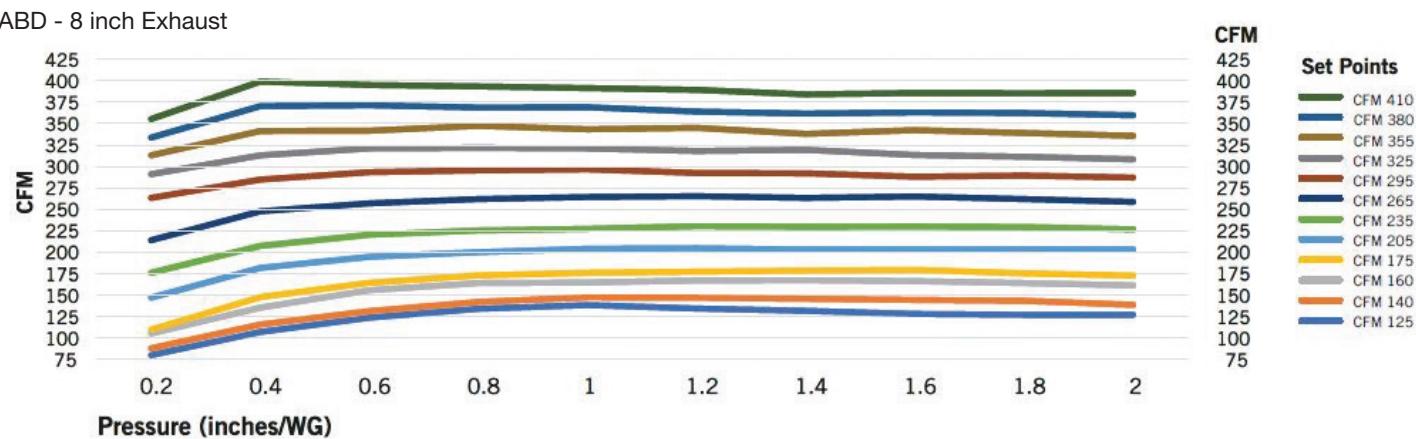
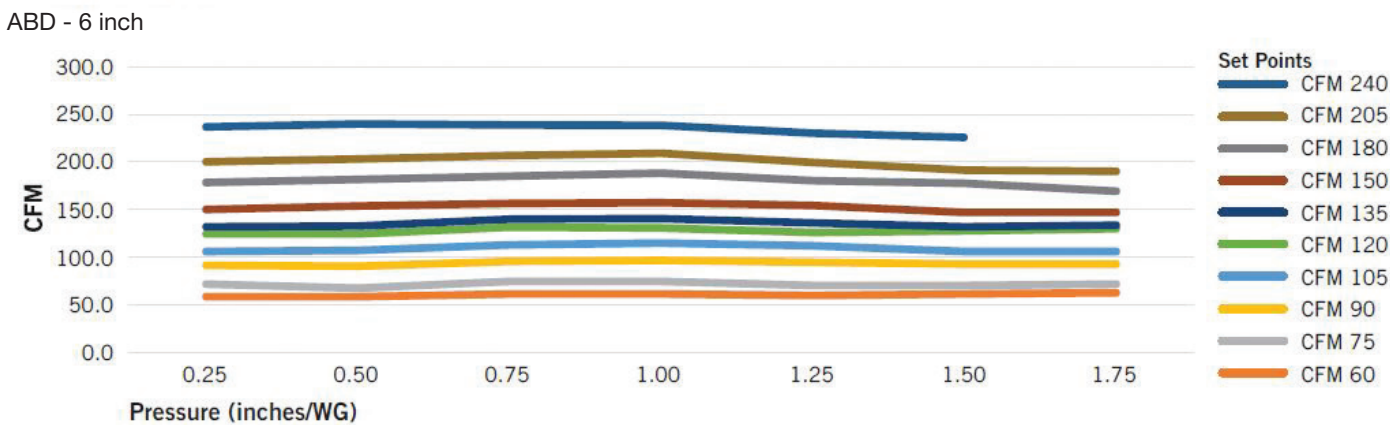
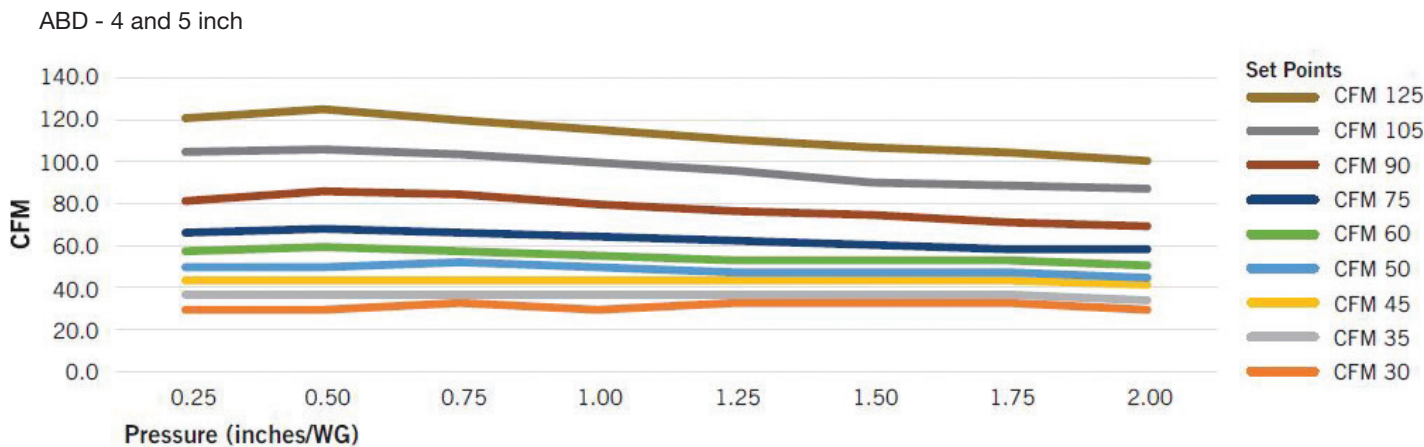
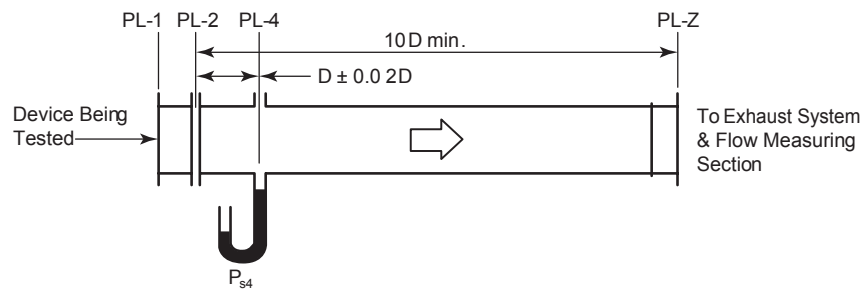
Diameter (mm)	Valve Diameter (mm)	Dim "B" (mm)
4 in (102)	3.66 in (93)	3.48 in (89)
5 in (127)	4.81 in (122)	3.72 in (94)
6 in (152)	5.66 in (144)	5.29 in (134)
8 in. (203)	7.66 in. (195)	6.96 in. (177)

Factory Supplied Steel Collar

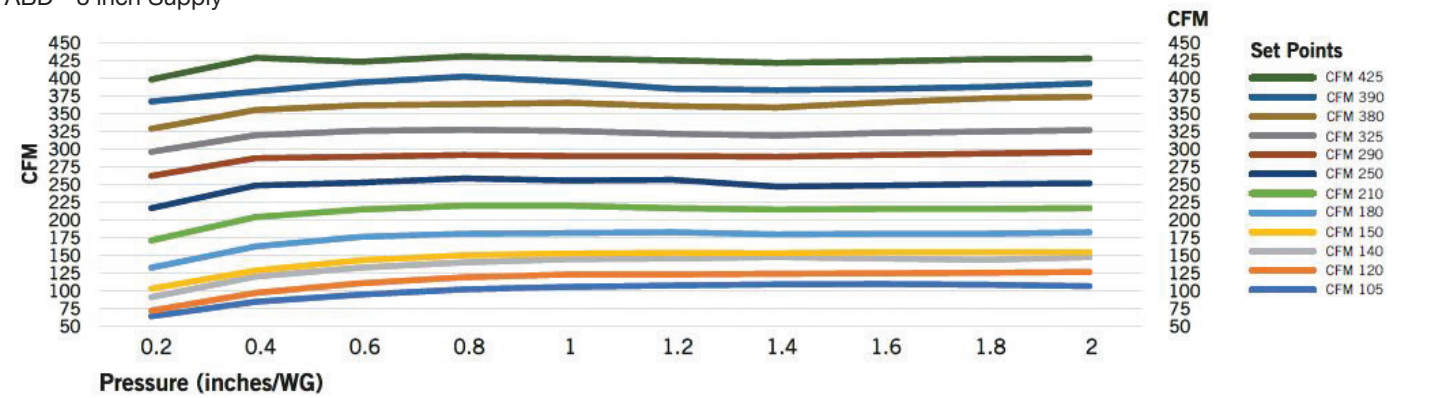


Diameter (mm)	Valve Diameter (mm)	Dim "A" (mm)	Dim "B" (mm)	Dim "C" (mm)
4 in (102)	3.66 in (93)	6 in (152)	3.48 in (89)	5.63 in (143)
5 in (127)	4.81 in (122)	6 in (152)	3.72 in (94)	5.63 in (143)
6 in (152)	5.66 in (144)	10 in (1520)	5.29 in (134)	6.88 in (175)
8 in. (203)	7.66 in. (195)	10 in. (1520)	6.96 in (177)	8.88 in (225)

Performance Data - Tested to AMCA Figure 5.1



ABD - 8 inch Supply



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