# GREENHECK

## **Application**

Model ABD-FD is an automatic balancing damper with a UL 555 rated 1½ or 3 hour static fire damper. The damper is designed to maintain a constant airflow volume in HVAC applications. The damper blade is calibrated to automatically adjust to changing pressures. The assembly will include an UL 2043 rated ABD, flanged sleeve, UL 555 rated curtain fire damper (FD-150 or FD-350), and optional grille. The ABD-FD can be used in both supply and exhaust applications, and must be mounted vertically.

### Ratings

#### Pressure

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

#### Volume

25 cfm to 275 cfm (0.012 m<sup>3</sup>/s to 0.130 m<sup>3</sup>/s) size dependent

#### Temperature

25°F to 150°F (-4°C to 65°C)

#### **UL Classified**

UL 2043 for heat and visible smoke release

UL 555 for fire resistance

### **ABD Construction**

	Standard	
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 <sup>™</sup> infused into plastic	
Adapter	Quick-connect adapter ring included	

## **Fire Damper Construction**

	Standard	Optional		
Frame Material	Galvanized steel*	-		
Frame Depth	3 <sup>11</sup> / <sub>16</sub> in. (94mm)	-		
Blade Material	Galvanized steel*	-		
Closure Spring	Stainless steel	-		
Fusible Link	165°F (74°C) 212°F (100°			
Mounting	Vertical Horizonta (FD-150 on			
* in gauges required by UL listing R13317				

**ABD-FD**Automatic Balancing Damper

with UL 555 Rated Fire Damper







See complete marking on product. UL 2043 Classification R39668 (ABD) UL 555 Classification R13317 (FD-150 or FD-350)

### **Airflow Range by Size**

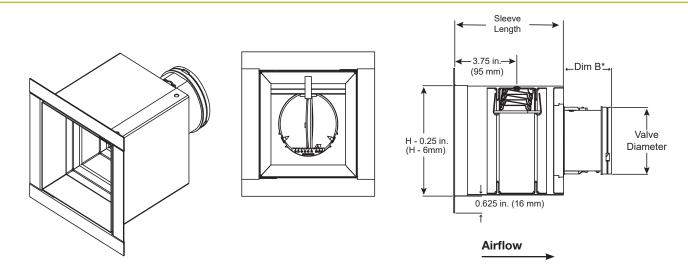
Diameter (mm)	Individual Set Points	Airflow Range - CFM* (m³/s)
4 in (102)	20	25 to 130 (.012 to .061)
6 in (152)	24	50 to 275 (.024 to .130)

 $^{\ast}$  Note: Airflow range determined through +/- 10% of average airflow over the pressure range.

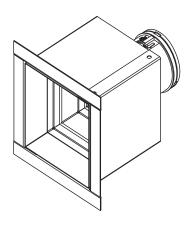
# Grille and Damper Size by Diameter

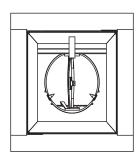
Diameter (mm)	Grille and Damper Size in inches (mm)
4 in (102)	6 x 6, 8 x 8, 10 x 10, and 12 x 12 (152 x 152, 203 x 203, 254 x 254, and 305 x 305)
6 in (152)	8 x 8, 10 x 10, and 12 x 12 (203 x 203, 254 x 254, and 305 x 305)

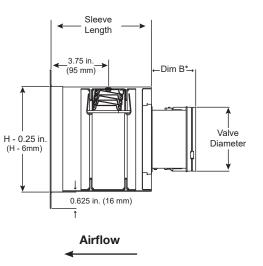
## **Dimensional Drawings - Exhaust Mount**



## **Dimensional Drawings - Supply Mount**

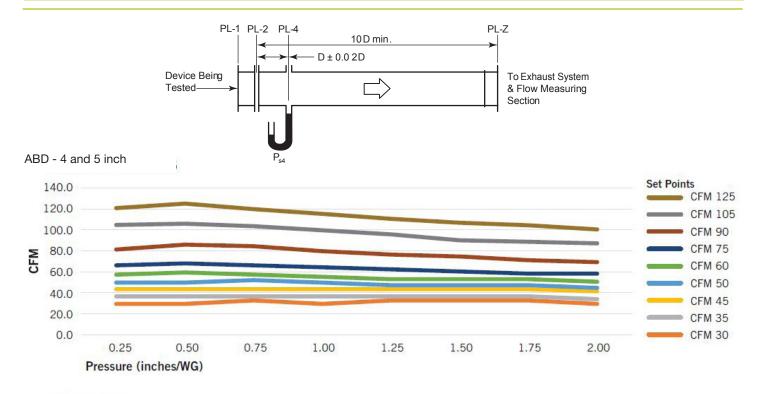


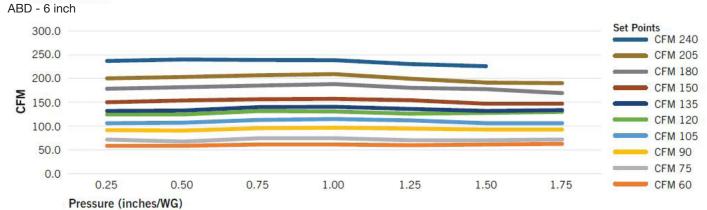




Valve Diameter (mm)	Dim B* (mm)
4 in. (102)	2.875 in. (73)
6 in. (152)	4.655 in. (118)

#### Performance Data - Tested to AMCA Figure 5.1





#### **Document Links**



INSTALLATION



<u>CATALOG</u>





WARRANTY



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