



## **Application**

Model ABD-Z1 is designed to provide on demand control to a ventilation system. The ABD-Z1 has a shut off damper with an electric actuator, automatic balancing damper (ABD), and a plenum box as one assembly.

The ABD is designed to maintain a constant airflow volume in HVAC applications. The damper blade is calibrated to automatically adjust to changing pressures.

Optional grilles are available.

### **Building Types**

- Apartments and Condos
- Education Building and Dormitories
- Hospital and Clinics
- Hotels and Motels
- Nursing Homes and Assisted Living

## **Ratings**

#### **Pressure**

0.2 in. wg to 2.0 in. wg (0.05 to 0.50 kPa)

#### **Volume**

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

#### **Temperature**

25° F to 150° F (-4°C to 65°C)

#### **UL Classified**

Classified by UL to UL 2043 for heat and visible smoke release (UL File R39668)

## **Airflow Range by Size**

ABD Diameter	Individual Set Points	Airflow Range (CFM)*	
4 in (102mm)	20	25 to 130 (.012 to .061m <sup>3</sup> /s)	
6 in (152mm)	24	50 to 275 (.024 to .130 m <sup>3</sup> /s)	

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

## **Plenum Box by Diameter**

Diameter	Grille Box Sleeve Size in Inches (mm)		
4 in (102mm)	8 x 8 x 7 (203 x 203 x 178)		
6 in (152mm)	10 x 10 x 8½ (254 x 254 x 216)		





See complete marking on product.

UL 2043 Classification R39668

### Construction

Construction	Standard				
Plenum Box	Steel				
Round Control Damper Construction					
Frame Material	Galvanized steel				
Frame Thickness	24 ga. (0.7 mm)				
Blade Material	Galvanized steel				
Blade Seal	Silicone				
Axle Bearings	Synthetic				
Axle Material	Plated steel				
Actuator	120V or 24V with auxiliary switches				
ABD Construction					
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				

Installation Instructions



**Damper Warranty** 



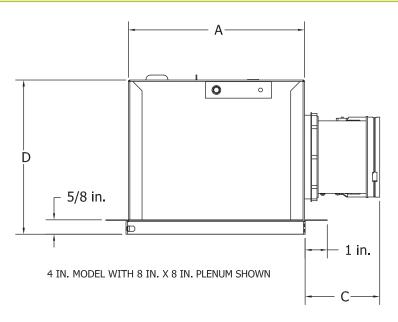
**Damper Interactive Selection Guide** 

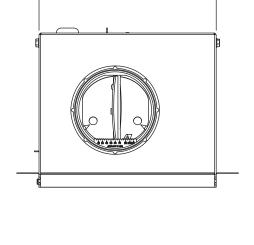


**Specifications** 



# **Dimensional Drawings - Intake Mount**





Size	Α	В	С	D
4 in.	8	8	41/2	7
6 in.	10	10	5½	81/2

Dimensions in inches.

### Performance Data - Tested to AMCA Figure 5.1

