



3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

**ABD-FD**  
**AUTOMATIC BALANCING DAMPER & CURTAIN FIRE DAMPER ASSEMBLY**  
**1 1/2 HOUR UL555 STATIC RATED**

**APPLICATION**

Ruskin Model ABD-FD provides precise and automatic airflow regulation for supply or exhaust ventilation systems in any residential or commercial building. The ABD-FD is supplied with UL555 1 1/2 hour rated fire damper to meet building code requirements. Use in any HVAC application, with a static pressure between 0.2 and 2.0 inches w.c. Facilitates controlled volume of make-up or exhaust air in highrise applications.

**STANDARD CONSTRUCTION**

**FRAME**

UL94 thermoplastic resins with non-caustic antimicrobial agent preventing organic growth.

**SEAL**

Full circumference Ruskiprene™ “T” seal

**SPRING**

Stainless leaf type

**DIMENSIONS**

Available sizes: 4”, 5”, or 6” dia. with customer specified enclosure dimensions

**AIRFLOW RANGE**

4” .....	30 to 125 CFM
5” .....	30 to 125 CFM
6” .....	60 to 240 CFM

Each unit is laboratory calibrated to allow a specific volume of air at a specific static pressure.

**EXHAUST/SUPPLY GRILLE**

6063-T5 aluminum grille with fixed vanes at 3/4” centers

**IBDT STANDARD CONSTRUCTION**

See IBDT product data sheet for construction details.

**DAMPER SIZES**

**MINIMUM SIZE**

Vertical Installation – 6”w x 6”h (102 x 102)

**MAXIMUM SIZE**

Single Section  
Vertical Installation – 12”w x 12”h (1016 x 1219)

**PLENUM BOX STANDARD CONSTRUCTION**

**PLENUM BOX**

24 gauge galvanized steel

**COLLAR**

24 gauge galvanized steel

**NOTES:**

- Accurate to within 10% of their set airflow value from 0.2” to 2.0” w.g.



**UL CLASSIFIED**  
UL555 Listing R5531

**CLASSIFIED** SEE COMPLETE  
**UL** MARKING  
**US** ON PRODUCT

**IBDT Listing**



Ruskin utilizes AAB valve in the production of our complete line of pressure independent solutions.

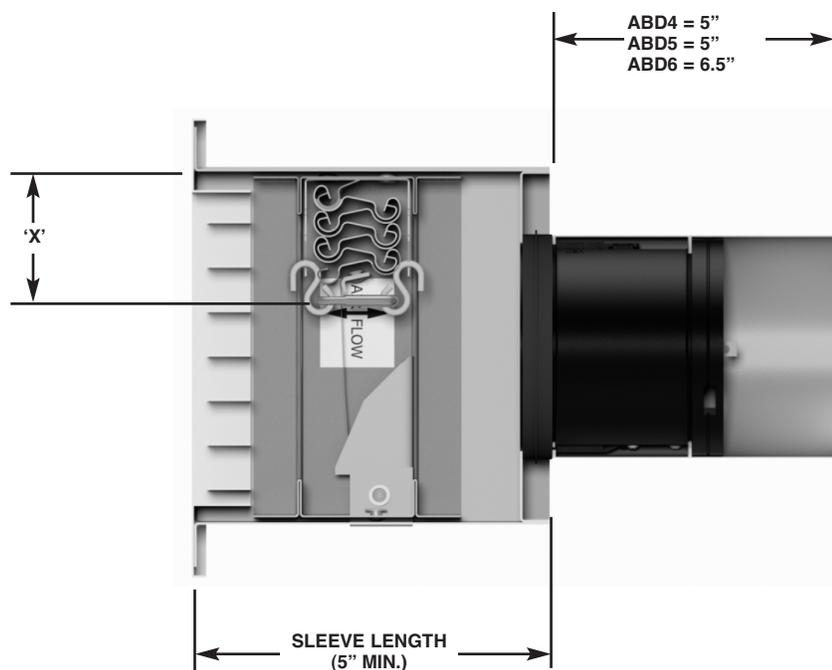


**FEATURES**

- Anti-microbial agent
- Tool-free set-point adjustment
- Oil-filled, hermetically sealed bearings

## DIMENSIONS

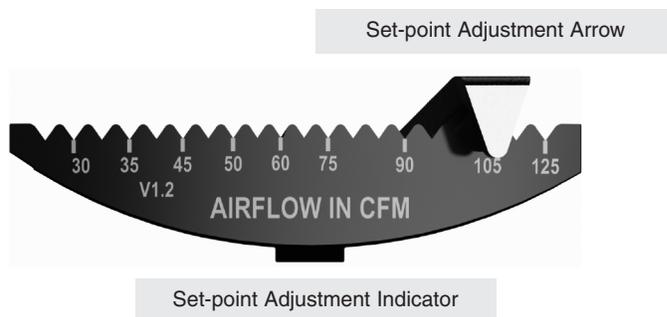
DAMPER HEIGHT ('B')	'X'
6"	1.88"
8"	2.25"
10"	2.75"
12"	3.25"



## OPERATION

Pressure Independent Automatic Balancing Damper (ABD) maintains a constant airflow volume in HVAC applications. The engineered damper blade is calibrated to automatically adjust to varying pressures using physics.

Slide the set-point adjustment arm to the desired airflow.



# GRILLES

## SIDEWALL SUPPLY GRILLE

1 set of individually adjustable blades in vertical or horizontal position

### MINIMUM SIZE

6" width x 6" height

### MAXIMUM SIZE

12" width x 12" height (Consult Ruskin for larger size options)

### EXTRUDED ALUMINUM

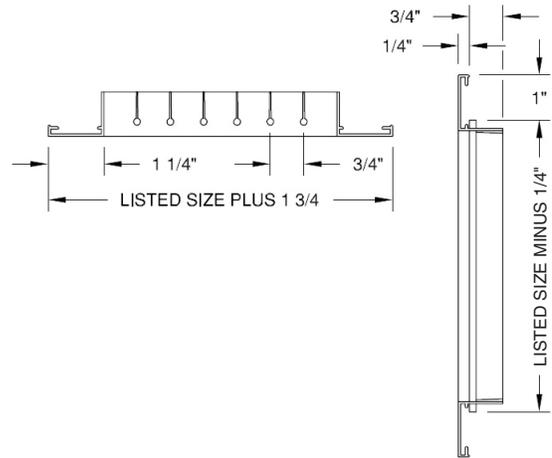
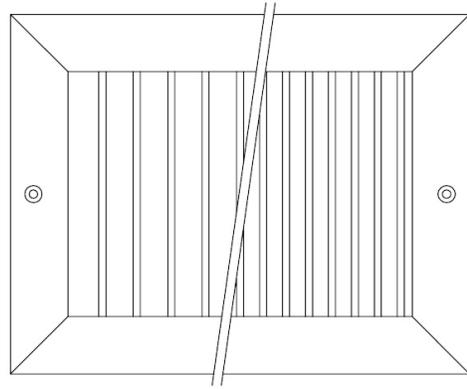
6063-T5

### FINISH

Painted White

### OPTIONAL FINISH

Clear Anodize or Mill



## RETURN/EXHAUST AIR GRILLE

Blades fixed at 40° angle in horizontal position

### MINIMUM SIZE

6" width x 6" height

### MAXIMUM SIZE

12" width x 12" height (Consult Ruskin for larger size options)

### EXTRUDED ALUMINUM

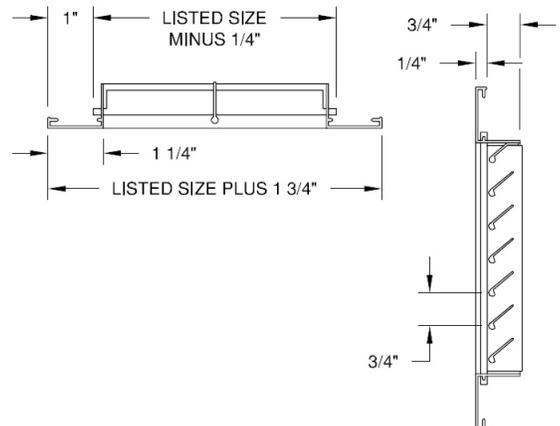
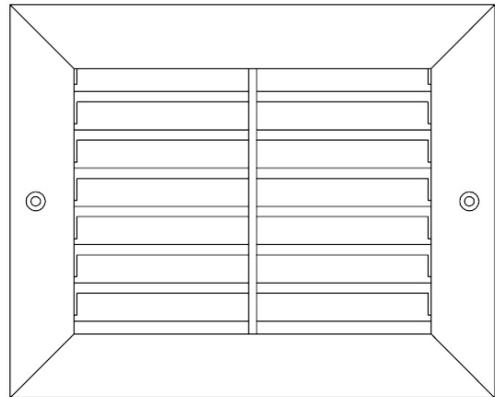
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### FINISH

Painted White

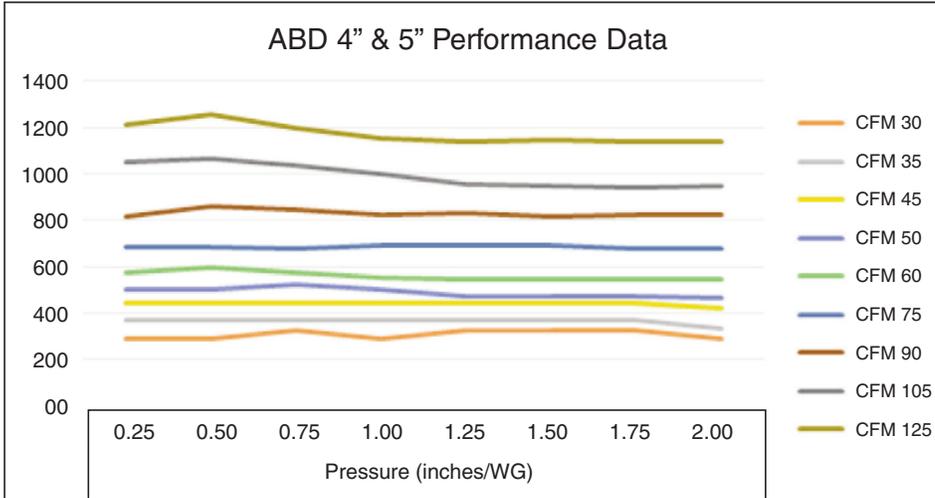
### OPTIONAL FINISH

Clear Anodize or Mill



## PERFORMANCE DATA

Ruskin Model ABD independently tested using AMCA standard 500-D Figure 1. The ABD maintains airflow volume throughout the operating setpoint range within +/- 10% accuracy. Performance based on pressure range of 0.2" - 2.0" w.g.\*



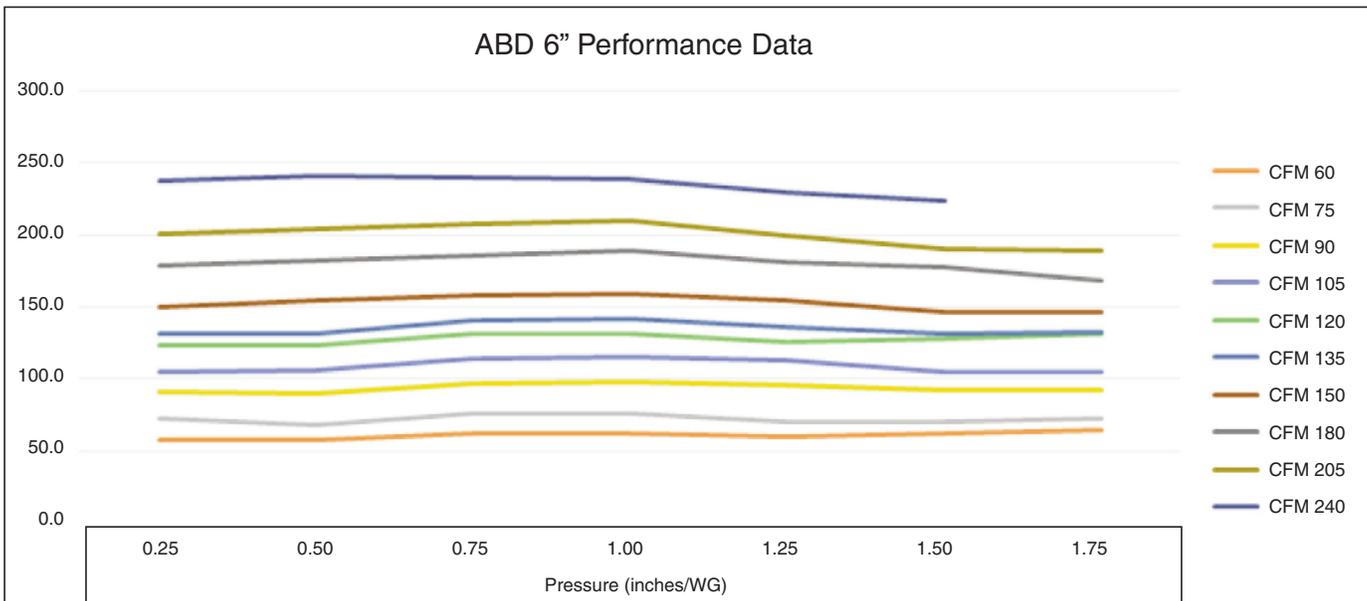
**ABD 4" & 5"**  
setpoint range:  
30cfm - 125cfm



**ABD 6"**  
setpoint range:  
60cfm - 240cfm



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## INSTALLATION AND MAINTENANCE

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See ABD-FD Installation Instructions

## SUGGESTED SPECIFICATION

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Furnish and install at locations shown on plans, static fire dampers tested, constructed and labeled in accordance with the latest edition of UL standard 555. Dampers shall have a fire rating of 1 1/2 hours and shall meet the requirements of the latest edition of NFPA90A. Curtain type fire dampers suitable for vertical wall or partitions and horizontal masonry floor or ceiling with a fire resistance rating of less than 3 hours. Fire Dampers shall be produced in an ISO 9001 certified factory.



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