



ABD



AUTOMATIC BALANCING DAMPERS

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For more than 50 years, *Ruskin*® has been delivering innovative solutions to keep air moving efficiently, quietly and safely in the buildings where people live and work. In these enclosed environments, the difference between indoor and outdoor air density can lead to a phenomenon called the stack effect. Pressure variances created by the stack effect will cause air infiltration, and are typically controlled by mechanical systems in order to keep indoor spaces safe and comfortable.

Advanced, pressure independent Automatic Balancing Dampers from *Ruskin* mitigate the costly and dangerous stack effect in high-rise buildings. Featuring industry-first antimicrobial agents, simplified installation and automatically regulated airflow for supply or exhaust ventilation systems, Automatic Balancing Dampers save energy and provide better air quality.

FEATURES AND BENEFITS

- ▶ Field adjustable, easy installation
- ▶ Quick-Connect Adapter Ring
- ▶ Ruskiprene™ "T" seal
- ▶ Anti-microbial: prevents mold and bacteria
- ▶ Bi-directional design
- ▶ Reduces energy cost
- ▶ Mitigates stack effect

APPLICATIONS

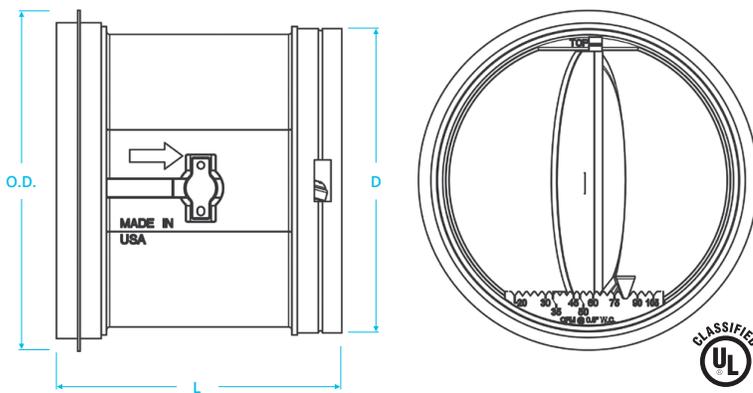
- ▶ Hospitality
- ▶ High-rise make-up air
- ▶ Commercial – Retail
- ▶ Restroom
- ▶ Clean room
- ▶ Healthcare
- ▶ Office building

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RUSKIN® MODEL ABD

Too much ventilation wastes energy, but too little ventilation has a negative impact on indoor air quality. The pressure independent Automatic Balancing Damper self-adjusts damper position based on a set point, providing constant airflow volume in high-rise applications or in buildings with multiple areas sharing the same heating or cooling source.



SET IT & FORGET IT

Both *Ruskin ABD* and *Ruskin ABD-SEA* use physics, not electricity, to achieve pressure independence, and are easy to set up and service.

- ▶ Bi-directional design works across the full pressure range.
- ▶ Arrow on damper side indicates flow direction.
- ▶ Automatic Balancing Dampers can be placed in any vertical or horizontal orientation* into a round duct or snapped onto an existing round opening.

* Set point arrow cannot point sideways.

RUSKIN® MODEL ABD-SEA

The *Ruskin ABD-SEA* (Supply Exhaust Air) is a complete, factory-assembled unit that includes an Automatic Balancing Damper with 22-gauge plenum/enclosure box, and an aluminum supply or return grille for quick mounting in to a wall or ceiling. The ABD-SEA mitigates stack effect in applications such as hotels or multi-family housing buildings helps conserve energy, and is ideal for balancing supply ducts or controlling exhaust/supply ventilation requirements.

Nominal Diameter	O.D.	D	L	Weight	Duct I.D. Diameter	Range
4"	4.1"	3.8"	3.43"	.25 lbs.	4"	20-105 cfm
5"	4.81"	4.68"	3.75"	.43 lbs.	5"	20-105 cfm
6"	5.8"	5.5"	4.97"	.48 lbs.	6"	50-215 cfm

Every ABD includes a Ruskiprene™ "T" seal, mitigating bypass leakage.

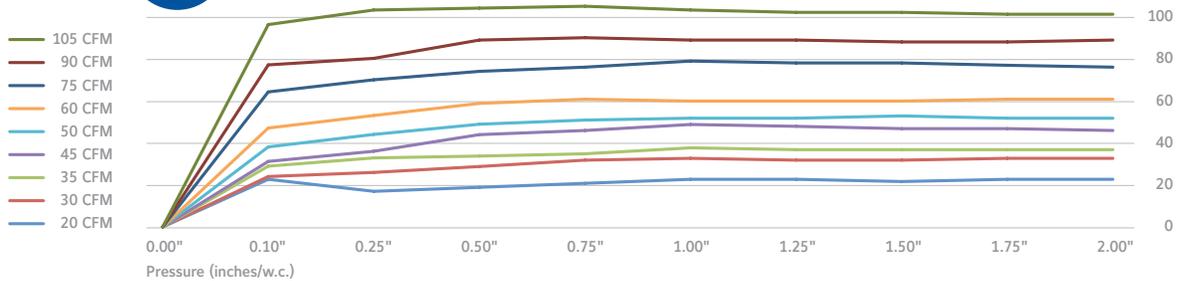
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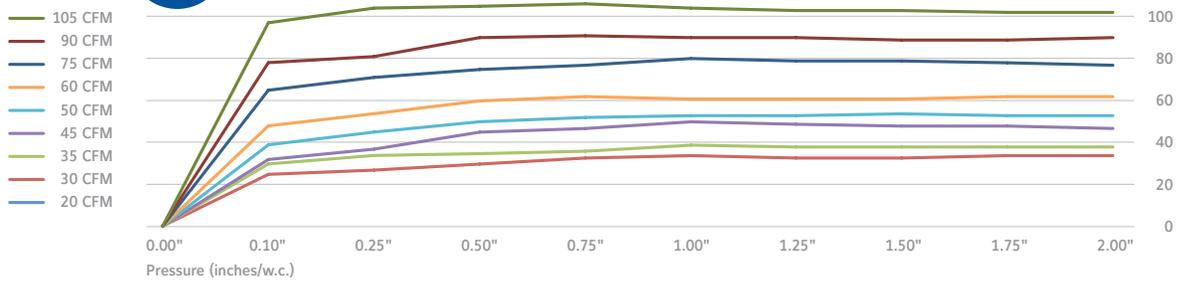
4"

ABD 4" PERFORMANCE DATA



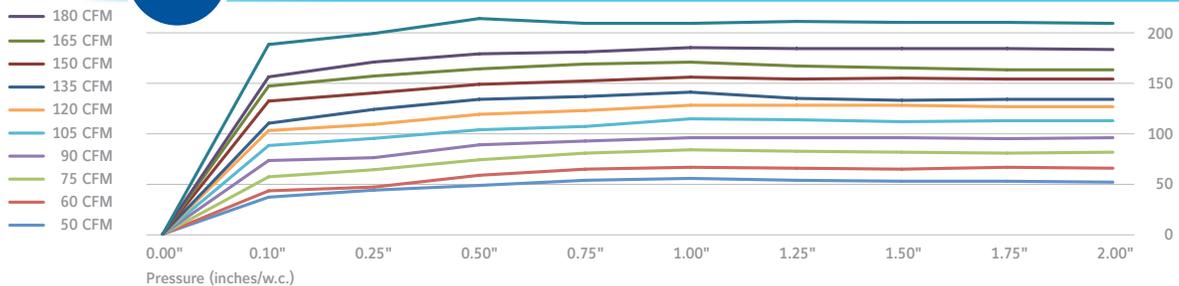
5"

ABD 5" PERFORMANCE DATA



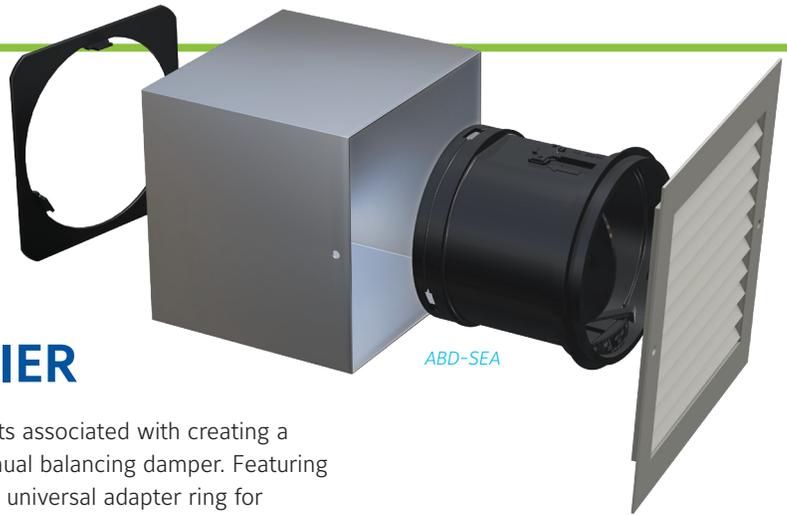
6"

ABD 6" PERFORMANCE DATA



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AUTOMATIC BALANCING DAMPERS



RUSKIN® MAKES AIR MANAGEMENT EASIER

Automatic Balancing Dampers eliminate the labor and costs associated with creating a fire-rated opening that is required to gain access to a manual balancing damper. Featuring a tool-free set point adjustment with up to 20 positions, a universal adapter ring for installation and industry-leading quality, the *Ruskin* ABD is easy to install and maintain.

Compare the differences between the *Ruskin* ABD and the typical, manual balancing dampers often found in high-rise buildings.

	RUSKIN	MANUAL DAMPER
Facilitates application-specific, pressure independent, CFM set point control	YES	NO
Volume is field-adjustable	YES	YES
Requires access door for field adjustment	NO	YES
Field adjustment requires additional test and balance efforts	NO	YES
Automatically compensates for stack effect and reverse stack effect	YES	NO
Automatically compensates for grille, duct and filter loading	YES	NO
Automatically compensates for variance in duct length and other system effects	YES	NO
Automatically compensates for design changes in retrofit applications	YES	NO
Includes anti-microbial agent to mitigate mold and bacterial growth	YES	NO
Version of product includes enclosure with supply or exhaust grille (ABD-SEA)	YES	NO
Product CFM set point (volume) is field-adjustable through grille	YES	NO
Product is UL94 and UL2043 listed	YES	NO
Adapts easily for installation in round or rectangular openings	YES	NO
Includes full circumference perimeter seal for low-leakage installation	YES	NO
Dramatically reduces installation cost	YES	NO
Reduces energy cost through pressure independent, automated functionality	YES	NO

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RUSKIN® IS THE AUTHORITY IN AIR CONTROL

Assembled here in America, the *Ruskin* Automatic Balancing Damper qualifies for ARRA section 1605 and Buy America 49 U.S.C. section 50101 for use in all FAA, FHWA, FRA, AMTRAK and FTA projects. Compare the differences between the *Ruskin* ABD and dampers from our competition.



	<i>RUSKIN</i>	ALDES (ANJOS)
Product qualifies for ARRA section 1605 and Buy America 49 U.S.C. section 50101 for use in all FAA, FHWA, FRA, AMTRAK and FTA projects*	YES	NO
Facilitates pressure independent CFM set point control	YES	YES
Product is suitable for field adjustment	YES	YES
Product is accessible and adjustable through grille access	YES	NO
Rated for highest level (UL94V-0) and UL2043 listings	YES	YES
Infused with an anti-microbial agent to mitigate mold and bacteria growth	YES	NO
Universal adapter ring facilitates installation of ABD to most adapter plates	YES	NO
One model used in exhaust and supply applications	YES	NO
Automatically compensates for system effects	YES	YES
Product suitable for low- and high-pressure applications without modification	YES	NO
Pivot points incorporate dampening technology to mitigate blade flutter	YES	NO
Product provides up to 20 field-adjustable CFM set point position	YES	NO

* Refer to <https://www.transportation.gov/highlights/buyamerica> for additional information concerning the American Recovery and Reinvestment Act (ARRA) of 2009 and related sections under provision of the Buy America Act (BAA).

Ruskin is the name engineers, architects and contractors trust to make buildings safer, more energy efficient and comfortable. We offer the most complete line of air control and architectural products in the industry, and support them with verified quality design, precision manufacturing and the highest level of customer service. With *Ruskin*, every product is backed by cutting-edge technology, rigorous testing, on-time delivery and technical expertise. Through our network of more than 150 representative offices across the country, the *Ruskin* team is ready to assist you with every aspect of your HVAC needs, including product selection, ordering and application support.

Please contact your local *Ruskin* representative, or visit our website at ruskin.com for more information on *Ruskin* Automatic Balancing Dampers.

