

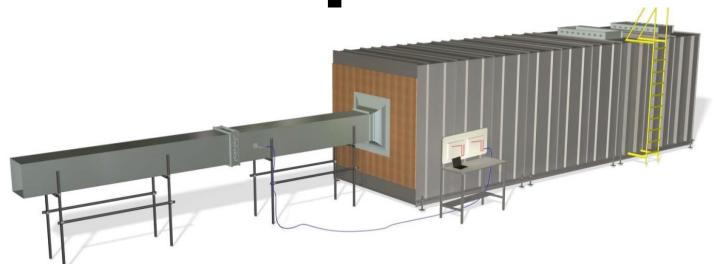


Ruskin® is a worldwide leader in manufacturing air control solutions. Backed by nearly 60 years of expert engineering and innovation, Ruskin® is widely recognized as the most specified brand for high-performance air control solutions, including dampers, louvers, energy recovery ventilators (ERV), air measurement devices and sound control for HVAC systems. Ruskin® products are used in commercial applications such as data centers, high-rise buildings, retail, hotels, healthcare and education facilities. In addition, Ruskin® products can be found throughout the world's industrial applications, such as warehouses and transportation hubs.



Ruskin® is owned by Johnson Controls, Building Technologies & Solutions, which includes air systems, building automation and controls, fire detection, fire suppression, HVAC equipment, industrial refrigeration, retail solutions and security. For more information about Ruskin, visit www. ruskin.com, or find the company on Facebook, Twitter, LinkedIn and YouTube.

Research & Development



Innovation Starts With Ideas & Testing

At Ruskin's AMCA Accredited Lab located in Grandview, MO, leakage and cycle testing is conducted to some of the industry's most stringent requirements such as frame leakage heavy duty industrial projects. By applying plates to both sides of the damper frame and pressurizing to a specified capacity, the damper is closely inspected for leaks using a glycerin and water solution sprayed on the damper exterior frame and weld areas. This validates that anything in the air stream stays in the airstream not to atmosphere.

Control of the interior air path is just as critical as containment. Each damper is subjected to duct mounted flow testing to meet certain seat leakage and pressure drop requirements. This could be as simple as an open close cycle test, or testing pressure drop at certain blade angles at specific velocities.

Testing to ASME and NQA quality requirements are also within Ruskin's capabilities. Should these standards and programs be invoked, Ruskin® Lab Technicians isolate and segregate dampers during testing and storage. If the dampers are constructed of various grades of stainless steel, care is taken so as not to contaminate the dampers with carbon or any other material that would jeopardize the purity of the stainless. This includes such details as the type of tools and clamps *Ruskin®* technicians use to perform testing. Ruskin's test laboratory also includes test methods for high velocity wind driven rain resistant louvers.

Versatility, knowledge and state-of-the-art testing equipment keep *Ruskin®* ahead of the competition in high performance industrial systems.





Comittment to Quality

"The move from one to five years demonstrates our commitment to quality and should reinforce and bolster the confidence our customers already have in the performance of our products."





Air Control & Life Safety

Ruskin® Product lines are the perfect choice for your high performance air systems. These include commercial and industrial control dampers, AMCA rated louvers, air measuring products, sun control devices and energy recovery ventilators.



UL CLASSIFIED DAMPERS

Designed to protect life and property, Ruskin® manufactures a complete line of UL classified dampers. To meet the diversity of fire and smoke protection requirements, Ruskin® dampers are available in a range of classifications and with a variety of standard features and options. Ruskin® smoke dampers are all UL555S Classified and cover Leakage Classes ONE through THREE. Ruskin® fire dampers meet UL555, UL555C, NFPA, and requirements for primary fire dampers in walls, ceilings and floors.

COMBINATION FIRE / SMOKE DAMPERS

Ruskin's combination fire / smoke dampers are designed to operate as an integral part of an engineered smoke control system. *Ruskin®* access doors complete your fire and smoke package. To make installation easier, *Ruskin®* offers a variety of labor-saving devices. These include, factory sleeves, mounting angles and factory-mounted actuators. Regardless of the *Ruskin®* damper you choose, you can be certain that *Ruskin®* products will perform as tested.





INDUSTRIAL DAMPERS

Ruskin® is a leader in designing and manufacturing durable, high performance control dampers for industrial ventilation applications. Constructed from heavy-duty steel with the most advanced equipment in the industry, Ruskin® Industrial Dampers can stand up to the toughest and most demanding environments and can be custom-built to meet the exact needs of virtually any ventilation or process application.



Air Control Dampers

not only receive high performance, but also get excellent value. *Ruskin®* dampers are carefully designed to fit and work perfectly for years after installation with a minimum of maintenance, now SHIPPED with a FIVE YEAR LIMITED WARRANTY.





AIR MEASURING

Managing airflow in today's HVAC systems requires precision and better Indoor Air Quality. Every state in the USA has adopted international codes as a guide to promote occupant health and safety by improving methods of measuring and controlling the minimum outside air.

Ruskin's complete line of air measuring and IAQ products are designed with the latest code requirements in mind. Ruskin® combines its extensive HVAC manufacturing experience with the industry's most sophisticated, AMCA registered, testing facility to provide the most comprehensive line of airflow measuring products. From total measuring and control of the airflow to simple reading and manual adjustment, Ruskin® has a solution to fit every application.



panels have been designed and tested to meet

A variety of silencers are available. They can be custom-designed to fit any need. Thorough research and development combined with indepth engineering analysis has allowed Ruskin®

Sound Control to offer superior acoustical

the highest of industry standards.

products at a competitive cost.

Energy Recovery

RRS ROOFTOP

The balance between energy savings and proper ventilation for healthy indoor environments is vitally important in today's buildings



Packaged Rooftop Unit Accessories



Economizer Efficiency

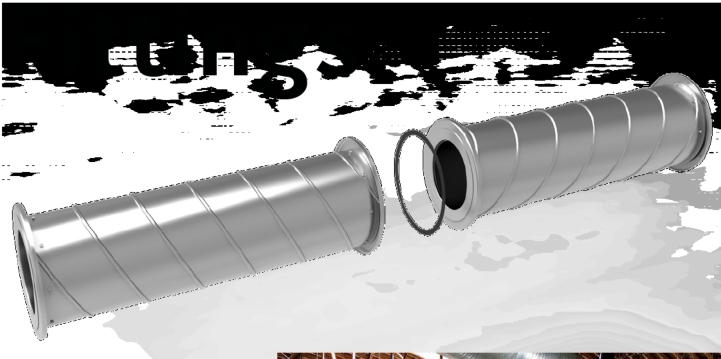
Install an economizer to dramatically improve the efficiency of your HVAC unit. Economizers feature Ruskin's exclusive one-piece galvanized airfoil blade and stainless-steel jamb for low-leakage performance

- Economizers
- Power Exhaust
- · Curb Adaptors · Concentric Diffusers





Spiral Duct &



Leakage

Ductwork leakage is often, and correctly, cited as the single largest source of causing the most additional energy use in the built environment. Based on a survey of predominately rectangular duct systems, the annual cost of this energy waste runs into the billions of dollars. Engineers, code officials and owners are taking notice and questioning the use of ducted HVAC systems. There is a simple ducted solution, factory fabricated spiral duct and fittings. It has long been recognized that spiral pipe systems leak a great deal less than comparable rectangular systems.

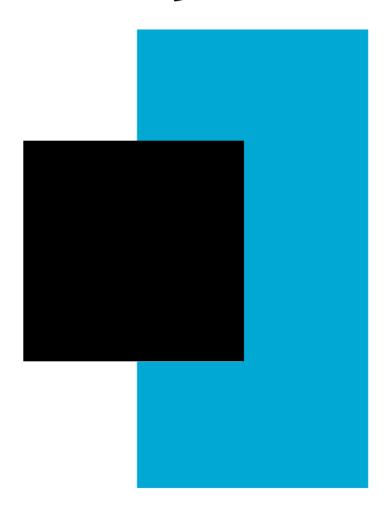




Brand Story

It's important to keep air flowing efficiently, quietly and safely in buildings where people work and live. At Ruskin®, we've become the leaders in the air control industry because we care about empowering our partners and customers to build better buildings and ultimately, to build them with healthy and comfortable air.

That's why we are always out front with the best air control solutions in the industry. From dampers and louvers, to air measuring systems and ERVs, *Ruskin®* is recognized for consistent innovation, engineering excellence and precision manufacturing. The *Ruskin®* knowledgeable and dedicated rep network adds value by listening to customer's needs and providing expert advice and nimble service. It's no wonder that *Ruskin®* has a storied history of leading innovation in the air control industry, maintaining long-term, successful relationships and boldly helping partners and customers find the freedom to succeed.





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