





Established
1958



LEADING OEM S

**“OVER
HALF A
BILLION”**
DAMPERS IN
SERVICE

Estimated
hotel market
share

70%



**WE ENHANCE INDOOR
AIR QUALITY**

Meet the most stringent
building codes



RUSKIN SAVES ENERGY

We are part of the



FAMILY OF PRODUCTS



**OUR ARCHITECTURAL LOUVERS
MAKE DATA CENTERS LOOK**

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.

SUPPLIERS

FILTERS & AHU
MIZERS
ENERGY

Life Safety

Ruskin provides **protection** from **tornadoes** and **hurricanes**

Critical areas dependent on RUSKIN

Tunnels Subways

Ships over
540K
Actuators
a Year

**HIGH STRENGTH ALUMINUM ALLOYS
USED IN RUSKIN PRODUCTS**

Our products have saved

**1.5 BILLION KWH
& \$146 MILLION
IN ENERGY**

- ASHRAE 90.1

Employees
worldwide
2,700

14

Ruskin factories
ship over **\$1M**
product
in a day worldwide

COVERS
LOOK BEAUTIFUL

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.



R&D LAB EXPANSION

Ruskin® has doubled the size of its research and development center in Grandview, Missouri. The expansion will focus on new product innovation, testing standards and cost-saving improvements for louvers, control dampers, life safety dampers, sound control and air measurement technologies.

"Our goal is to accelerate speed to market with improved testing capabilities and resources in a certified AMCA/UL facility," said Brian Poe, Director, engineering and product development for *Ruskin*®. "The additional testing equipment will help *Ruskin*® drive its future with the best product designs and innovations, offering the greatest value to customers around the world.

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.”



**YEAR
LIMITED
WARRANTY**



Designed to provide superior performance and GREAT AESTHETIC appearance, *Ruskin*® louvers are backed by experienced engineers and reflect Ruskin's commitment to high quality product standards.

Louvers & Architectural

Ruskin® offers a variety of louvers and architectural products to meet a wide range of needs. Available with a highly weather-resistant Kynar anodized finishes, *Ruskin*® louvers can withstand the harshest environments.

Ruskin® was the first manufacturer to receive louver product approval for use in Miami-Dade County, Florida. With other Miami-Dade County and wind driven rain models introduced into the market,

Ruskin® continues to pioneer the design of louvers for severe weather applications. Available in many depths, *Ruskin*® louvers accommodate various blade angles with high free area for low pressure drop.

Ruskin's adjustable louvers and louver/damper combinations allow our customers to enjoy the benefit of architectural styling with air control and shut off. *Ruskin*® manufactures a complete line of louver models available for both standard and special needs, such as high-volume airflow, wind driven rain, special architectural shapes, sight proof and security applications.

Ruskin® Sunshades offer energy savings by reducing solar heat gained through glazing. With a wide variety of available blade styles and configurations, they also provide high aesthetic appeal to ANY building exterior.

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.

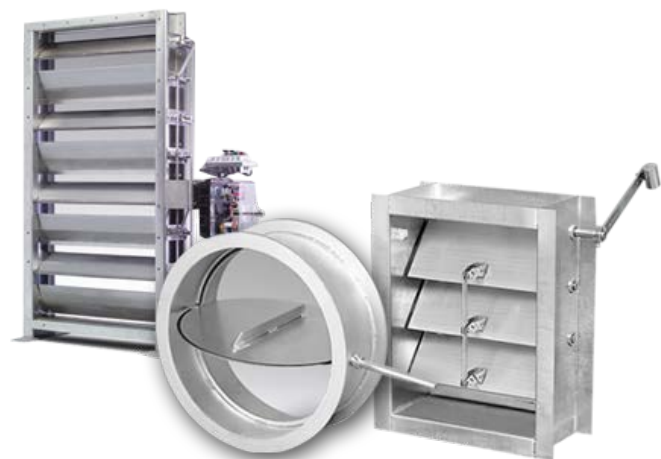




Industrial Solutions

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



CONTROL DAMPERS

From low-pressure operations to heavy-duty industrial applications, *Ruskin*® provides the perfect control damper. Every *Ruskin*® damper is built with performance in mind and tested to AMCA Standards in Ruskin's AMCA Accredited Laboratory. *Ruskin*® works with a variety of materials including, galvanized steel, stainless steel, aluminum and fiberglass to match your exact specifications. With *Ruskin*®, customers 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.





SOUND CONTROL

Ruskin's experience and knowledge means a complete line of acoustical products that perform aerodynamically as well as acoustically. *Ruskin*® Sound Control panels and silencers are available in a wide range of applications. SoundChek panels have been designed and tested to meet the highest of industry standards.

A variety of silencers are available. They can be custom-designed to fit any need. Thorough research and development combined with in-depth engineering analysis has allowed *Ruskin*® Sound Control to offer superior acoustical products at a competitive cost.

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.



Energy Recovery

RRS ROOFTOP
SYSTEMS

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

Solid Core & Wheel Models Available



ENERVENT

ERVs

Ruskin's Energy Recovery Ventilators recapture conditioned air to reduce energy usage in HVAC systems. An ENERGY RECOVERY VENTILATOR allows you to capture 70 PERCENT of the energy from the air leaving the building and put it back into the fresh air entering the building. *Ruskin*[®] Energy Recovery Ventilators ultimately offer higher efficiencies and cost savings.

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

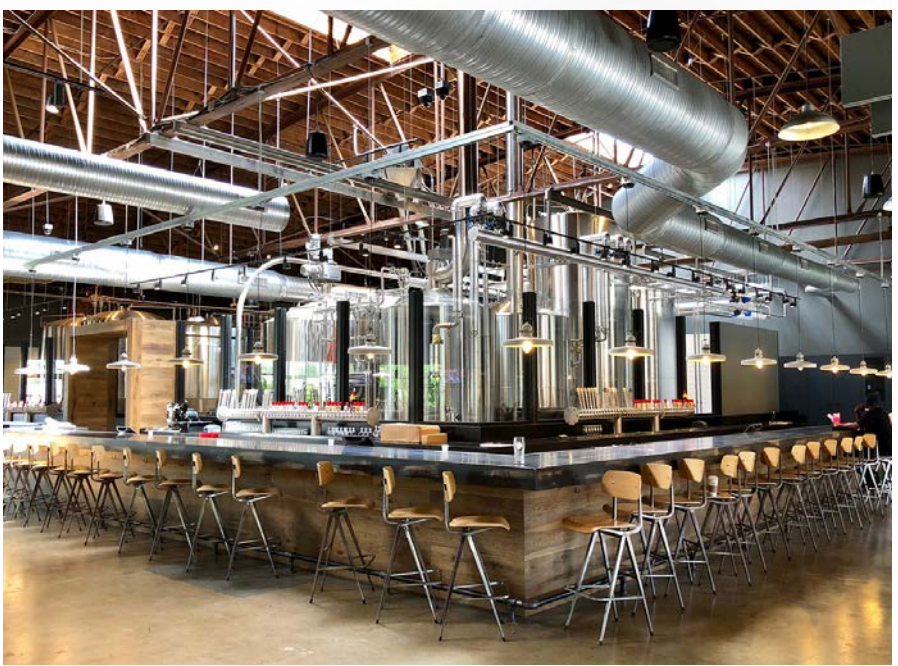


Spiral Duct & Fittings



Reduce 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.



Jay Ramkumar
Executive Director
Ruskin



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