

# Mussun Memo

Mussun Sales, Inc.

January 2021



## Advanced Active Compensated Stairwell Pressurization System



The Advanced Active Compensated Stairwell Pressurization System (Advanced ACSP) uses the L864 and L850 controllers from **LFSystems** to maintain a constant positive pressure in a **multi-point injection system** shaft for high rise building stairwells. In the Advanced ASCP System, the UL-Listed L864 controller works with multiple L850 Injection Point Regulators and multiple modulating Injection Point Dampers (IPD) to maintain positive pressure at the injection point. By injecting air into the shaft at the same point where a door is opened, or pressure drop is detected, we can save lives by preventing smoke from entering the areas of ingress and egress. The ACSP ties directly to the fan's VFD or EC motor interface.



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For simple, one-point static pressure applications, use the Cook Pressure Controller with Air Balance Kit. This can modulate a stairwell fan equipped with an EC Motor or VFD, such as the Cook Simplidrive.





## PARAGON: DEDICATED OUTDOOR AIR SYSTEM



Paragon is designed from its core to conserve energy and save on operating costs. Paragon's rare earth magnet inverter scroll compressor eliminates excessive cycling, premature unit aging, inefficient hard starts, and unnecessary energy consumption. Paragon's modulating technologies allow it to deliver the highest efficiencies at part-load conditions.

- \*Mixed air temperature/humidity sensor
- \*Up to three layers of outdoor air filtration
- \*Low-leakage outdoor air damper
- \*Wide indoor coil design
- \*electronic expansion valve
- \*Fully modulating hot gas reheat coil (optional)
- \*Stainless steel sloped condensate drain pan
- \*Modular heating
- \*Factory start up
- \*Variable speed direct drive supply fan
- \*Variable speed outdoor fans with EC motors
- \*Double wall, galvanized steel construction
- \*Removable hinged access doors
- \*Human machine interface (HMI)
- \*Integrated controls
- \*Danfoss variable speed inverter scroll compressor
- \*Quick 2-3 week lead time**



## AIR MEASURING AND CONTROL - INDOOR AIR QUALITY

Ruskin® model TDP05K is a highly accurate thermal dispersion airflow and temperature measuring probe. Multiple velocity and temperature points on one or more probes installed in the duct or plenum are averaged to arrive at air measurements. The TDP05K is capable of measuring a velocity range from 0 to 5,000 FPM and displaying the flow and temperature at each sensing point. Within each low pressure drop airfoil shaped probe are up to 8 moisture resistant flex sensors. The highest accuracy over the entire range of air flows results from probe sensing elements that are factory tested and calibrated at 20 points.



- \*Self-diagnostics utilizing artificial intelligence.
- \*BACnet and analog output standard.
- \*Lowest power consumption thermal dispersion device available.
- \*Tool-free one touch setup through surface membrane label.
- \*Stainless Steel hardware for INSERTION mount installations.
- \*Standard cabling, no proprietary cables.
- \*Third party verified FCC, UL, BTL, AMCA and ISO 9001.
- \*Airfoil shaped acid-etch clear anodized sensing probes which produce lower pressure drop and less noise.
- \*Highest density thermal dispersion sensing array up to 128 sensing points!

## HISTORY

**Q: Where do Ruskin Dampers come from???**

**A: From the Ruskin Plant at Lexington, Kentucky!**

**But where did they come from in the first place?**

*"My own Ruskin Story", by Glenn Esser, Application Engineer at Ruskin Headquarters, Grandview, MO.*

*In May of 1957 I would have been three years old. I remember one summer night being in our basement with my brothers and sisters and some of our neighbors, taking shelter from what came to be known as the Ruskin Heights (Kansas) Tornado. An F5 tornado that was on the ground for over an hour and a half, cut a 71-mile path that destroyed the residential neighborhood of Ruskin Heights. Fortunately, it missed our family's house. Sadly, 44 people were killed and more than 500 people were injured by the storm that night.*

*From that destruction sprung a rebuilding effort and in 1958 Ruskin Manufacturing was born. One of their first products included storm windows and screens. My sister purchased a home in the Ruskin area and it has Ruskin storm windows today. I can personally attest that they are extremely well made and function perfectly today.*

In the 1960's ducted HVAC systems began to appear and with them came a need for air control. In 1964, Ruskin built their first damper. In 1965, Ruskin opened a new plant in Parsons, Kansas, for damper manufacture. In 1967 Ruskin received the first of many patents – this one for control damper linkage.

In the early 1970's, the Energy Crisis created new problems and new opportunities. Buildings were being constructed and retrofitted so tightly to conserve energy – but the result was sick building syndrome. The solution was more outside air being brought in – and the market for outside air dampers and louvers exploded.

In 1971, Ruskin introduced the world to its patented IBD2 Fire Damper. IBD stood for Interlocking Blade Design. In 1973, Ruskin built their new worldwide headquarters at Grandview, MO. Additional plants now include Lexington, KY, where the bulk of our dampers originate, as well as Geneva, AL for louvers and Juarez City, Mexico some louvers as well. Parsons handles Air Measuring devices, Ceiling Radiation Dampers and Smoke Dampers.

The MGM Las Vegas Hotel Fire in 1980 resulted in 85 deaths – most from smoke inhalation – and with this tragedy brought massive code changes in smoke and fire control systems for buildings. In 1983, Ruskin unveiled the CD60 control damper and FSD60 fire smoke damper which became the gold standards for damper design and performance.

Today, Ruskin operates 21 plants worldwide with over 3,300 employees and is the leader in life safety products, dampers, louvers, air measurement, sound attenuation, and energy recovery.

Ruskin Headquarters, Grandview MO



Lexington KY

(Fire dampers, Smoke Dampers, Fire Smoke Dampers, Control Dampers)



Parsons KS

(Ceiling Radiation Dampers, Smoke Dampers, Airflow Measuring)



Geneva AL

(Louvers)



## **UHIR – Unit Heater**



**UHIR - [240] Unit Heater**

**\*\*\* Stock \*\*\***

Ships same day if ordered before noon CST

### **Available Sizes:**

<b>Watts:</b>	<b>Voltage:</b>
3300	208
3700	480
5000	208
5000	480
7500	480
10000	480

**Includes bracket, integral disconnect and thermostat. Delivers in 2-3 Days.  
Please contact your Mussun Sales Representative for more information.**



Boiler Flue Replacement?

Generator exhaust?

Grease Duct?

We can generate a flue schematic for field checking.

Eliminate guesswork and avoid missing pieces.

Contact your Mussun Representative for assistance with single and dual wall flues from Selkirk / Heatfab.

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