

Mussun Memo

Mussun Sales, Inc

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Data Center Dampers

Ruskin® is proud to announce three new commercial damper models for data centers: the **CD60DC**, the **CD50DC**, and the **TED50DC**. These models are designed for HVAC systems that serve data centers, facilities where high performance and reliability are essential. Data centers require HVAC systems to maintain proper environmental conditions for optimal performance and reliability of information technology equipment (ITE). Air control dampers play a vital role in these systems and must perform at the most optimum levels possible. They also feature a new coupler that joins two damper sections without a jackshaft. This allows an actuator to be mounted on the side of the frame to provide a narrow profile when space is limited. In addition, on larger multi-section sizes, the DC models provide enhanced operational performance with fewer moving parts. These dampers are available in both galvanized steel and extruded aluminum.

CD60DC

High Performance Galvanized Steel Airfoil Blade Damper

AMCA Class 1A Leakage Rating, the **CD60DC** offers the lowest AMCA leakage rating of 3 cfm/ft² at 1" w.g., which meets the requirements of the International Energy Conservation Code (IECC).

This model features one-piece roll-formed airfoil blades for minimal pressure drop and a robust uniframe design.



CD50DC

High Performance Control Damper Extruded Aluminum | Airfoil Blade Damper

AMCA Class 1A Leakage Rating, the **CD50DC** offers the lowest AMCA leakage rating of 3 cfm/ft² at 1" w.g., which meets the requirements of the International Energy Conservation Code (IECC).

This model features extruded aluminum airfoil blades for minimal pressure drop and a reinforced f frame.



TED50DC

Thermally Efficient Extruded Aluminum Insulated Airfoil Blade Damper

AMCA Class 1A Leakage Rating, the **TED50DC** offers superior overall performance including thermal efficiency. It also has the lowest AMCA leakage rating of 3 cfm/ft² at 1" w.g., which meets the requirements of the International Energy Conservation Code (IECC).

Each blade has a break strategically placed between twin-blade edge seals to eliminate thermal transfer to help reduce the potential for condensation.



Contact your Mussun Representative for more information!



GENSET DAMPER

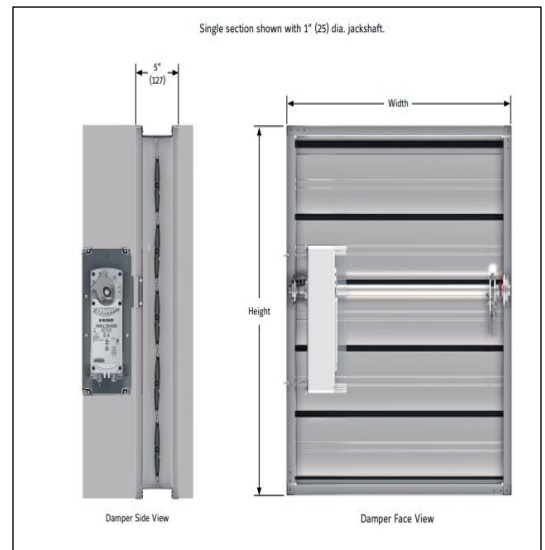
CD60GS (GENSET)

High-performance Galvanized Steel Airfoil Blade Damper AMCA Class IA Leakage Rated (GENSET)

The **CD60GS** is designed to provide maximum combustion air and pressure relief quickly for emergency generator start up to avoid damage of equipment to the surrounding space. The factory mounted fast-acting 8-second spring open actuator, provides optimal performance and reliability. The **CD60GS** also provides AMCA class 1A leakage rating of 3cfm/ft² at 1" w.g. when blades are closed to meet requirements of the International Energy Conservation Code (IECC).

Standard Construction:

- *Frame: Galvanized steel channel
- *Blades: Galvanized steel, one piece airfoil shaped. Parallel blade action.
- *Blade Seals: Santoprene blade edge seals mechanically fastened.
- *Jamb Seals: 300 Series stainless steel cambered compression type.
- *Bearings: Oil impregnated, permanently lubricated, stainless steel sleeve.
- *Axles: 7/16" (11) plated steel hex
- *Linkage: Plated steel, concealed out of airstream.
- *Operator Shaft: 1/2" dia. X 6" long placed steel for single section.
1" dia. Jackshaft for single and multi-section assemblies.
- *Actuator: RUS-GEN Series with NEMA 4X enclosure.
24VAC/VDC or 120VAC (with or without built-in auxiliary switches).
Damper operations are power close / spring-return open.



Performance Ratings:

- *Leakage: AMCA Class IA
- *Velocity: Up to 4000 fpm (20.3 m/s)
- *Pressure: Up to 6 in. w.g. (1.5 kPa)
- *Temperature: -72 degrees F to +275 degrees F (-59 degrees C to +135 degrees C)
- *Torgue: 7 in-lb/ft²
- *Airflow: Rated for airflow in either direction



Contact your Mussun Representative for more information!



Who are Zoo Fans?

Zoo Fans are a **leading supplier** of **innovative fans** and **smart controls**. Energy-efficiency, performance, safety, and comfort.

What are De-stratification Fans?

ZOO Fans **IC-Series fans** are designed primarily for drop ceilings and can also be installed in hard lids. "IC" stands for "In-Ceiling" and the number behind it represents the hanging height (AFF) at which each fan model is designed to generate sufficient airflow to hit the floor at a *minimum* of 100 feet per minute.

Whether the objective is destratification, or simply improved air circulation, vertically or laterally, these fans can get it done. The ZOO Fans IC-Series utilize the world's leading in-line fan motor with a rugged mixed-flow impellor, EnergyStar® rating, and industry-leading 4-year warranty.

From the innovative IC20 Drop-In that installs quickly and easily in a 2' x 2' drop-ceiling (or sheetrock) to the revolutionary ZOO Fans *Silent Series*—quiet enough to pass the rigorous Dolby® Sound tests in movie theaters—this versatile line helps to solve stratification and air circulation problems from 8' to 50'.



ZOO Fans **H-Series fans** are designed for open ceilings and free-hanging locations. The "H" stands for "Height" and represents the hanging height (AFF) at which each fan model is designed to generate sufficient airflow to hit the floor at a minimum of 100 feet per minute.

In fact, due to the patented design and premium-performance fan motors in each ZOO fan, every H-Series ZOO fan outperforms this design target. But don't just take our word for it. ZOO Fans is the **ONLY** manufacturer of small destratification fans that provides fan performance numbers from a leading, third-party, industry-certified laboratory.

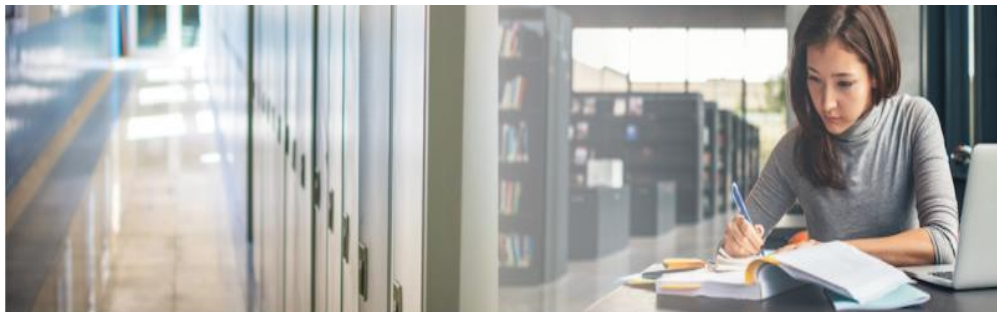
With variable speed control, ZOO fans cover a range of ceilings from 10' to 140' high. Fan coverage isn't based on square footage; it's based on cubic volume. Imagine trying to specify HVAC or lighting based on square feet alone!



Contact your Mussun Representative for more information!



UVC for IAQ For K-12 and Universities



Upper-air UV fixtures are engineered to provide very targeted airborne pathogen reduction into high-risk areas.

*Installation applications include lobbies in administrative buildings, classrooms and lecture halls, hallways, cafeterias, libraries, etc.

*Units are available for high or low ceilings and for any square footage.

*Units can be permanently or temporarily installed for flexible space uses.

*Natural convection-currents create repeated air disinfection within defined spaces. Fan assisted models are available.

Contact your Mussun Representative for more information!

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