

# ***DATA CENTER PRODUCT SOLUTIONS***



**AIR CONTROL DAMPERS**

**BACKDRAFT DAMPERS**

**EQUIPMENT SCREENS**

**FIRE/SMOKE DAMPERS**

**SEVERE-DUTY LOUVERS**

**SPECIALTY LOUVERS**

**THERMALLY INSULATED DAMPERS**

**AIRFLOW MEASURING STATIONS**

**5** year  
warranty

**POTTORFF®**

[www.pottorff.com](http://www.pottorff.com)



# THE PREFERRED SOLUTION FOR DATA CENTER PROJECTS



Overview of the Ashburn Corporate Data Center campus in Ashburn, VA.

Data centers are facilities that provide shared and highly secured access to applications and data.

They play a crucial role in the world's economy with the top 4 drivers of demand being remote work, digitization, digital technologies and video streaming entertainment.

Data centers critically manage airflow in and out of a facility to balance air levels and reduce energy costs. Pottorff offers the preferred products to meet these high demands for ventilation control and reduced energy consumption.



Building ACC6, part of the Ashburn Corporate Technology Center, is 300,000 square feet and located just outside of Washington D.C.



Data centers house computing and networking equipment for firms to allow secure access to large amounts of data.

## MANAGE AIRFLOW AND REDUCE ENERGY COSTS

- ▶ **AIR CONTROL DAMPERS**  
**THERMALLY INSULATED DAMPERS**  
Regulate the airflow throughout the HVAC system with ultra low-leakage components. Thermal dampers minimize the transfer of heat and cold penetration.
- ▶ **BACKDRAFT DAMPERS**  
**FIRE/SMOKE DAMPERS**  
Backdraft dampers assist in the exhaust or intake airflow in an HVAC system. Fire-smoke dampers feature fire barrier protection and smoke control.
- ▶ **LOUVERS**  
In severe conditions, they can withstand extreme loads, wind-driven rain, debris impact and cyclic fatigue associated with hurricanes and tornados.
- ▶ **SPECIALTY LOUVERS**  
**EQUIPMENT SCREENS**  
Provide for project needs involving building aesthetics, storm shelter ventilation and noise reduction.
- ▶ **AIRFLOW MEASURING STATIONS**  
Monitor air levels and maintain a proper IAQ (Indoor Air Quality) in a building.

# AIR CONTROL / THERMALLY INSULATED DAMPERS

Pottorff control dampers offer automatic air control and manual balancing in medium to high-pressure and velocity applications. Thermally insulated control dampers minimize the transfer of thermal energy and reduce condensation. Our dampers can be supplied with a variety of factory installed and commissioned electric actuators to ensure proper operation in the field.

## CD-41/42

These dampers feature economical triple-V blades and a rugged hat channel frame.

- AMCA Certified for Air Performance
- Opposed or Parallel Blades
- 1" Jackshaft Available

## CD-45/46

These dampers feature high-performing airfoil blades and a rugged hat channel frame.

- AMCA Certified for Air Leakage and Air Performance
- Class 1A and Class 1 Leakage Certified
- Opposed or Parallel Blades
- 1" Jackshaft Available

## CD-57/58

These dampers employ fully symmetrical aluminum airfoil blades. They provide extremely low leakage and exceptional air control.

**Features industry-leading air performance.**

- AMCA Certified for Air Leakage and Air Performance
- Class 1A and Class 1 Leakage Certified
- Fully Symmetrical Aluminum Airfoil Blades
- No Blade Stops
- Opposed or Parallel Blades



## TICD-51/52 THERMALLY INSULATED DAMPERS

These dampers employ thermally insulated and broken aluminum airfoil blades to eliminate the transfer of heat or cold penetration and reduce condensation.

- AMCA Certified for Air Leakage and Air Performance
- Class 1A Leakage
- Complies with IECC (International Energy Conservation Code)

## DAMPER OVERVIEW

- ▶ AMCA Certified
- ▶ Class 1A Ultra Low Leakage
- ▶ Insulated Airfoil Blades (TICD)
- ▶ Triple-V or Airfoil Blades
- ▶ Rugged Channel Frame Construction



# BACKDRAFT / COMBINATION FIRE-SMOKE DAMPERS

Backdraft dampers allow air to flow through in one direction while preventing air from entering the opposite side. They assist in either the exhaust or intake airflow of an HVAC system.

Combination fire/smoke dampers are used for point-of-origin control of fire and smoke in static and dynamic smoke management systems.

## BD-250 BACKDRAFT DAMPER

This damper employs gravity operated extruded blades to restrict reverse airflow and to permit the forward flow of air in the intended direction.

- AMCA Certified for Air Performance
- Maximum System Velocity: 2500 fpm
- Adjustable Pressure Controller

## CBD-250 COUNTERBALANCED BACKDRAFT DAMPERS

This damper employs counterbalanced gravity operated extruded blades to automatically prevent the backflow of air while allowing for automatic air intake or exhaust/pressure relief.

- AMCA Certified for Air Performance
- Adjustable Pressure Controller



*Counterbalanced Gravity Operated Blades*



## COMBINATION FIRE / SMOKE DAMPERS

Our economical FSD 141/142 triple-V blade and FSD-151/152 high performing airfoil blade combination fire/smoke dampers feature a maximum dynamic closure velocity of up to 4,000 fpm and a maximum UL555S rated pressure of up to 8 in. wg.

- 1½ to 3 Hour UL 555 Rating
- Class I, II and III UL 555S Ratings
- Meets NFPA Standards
- Out of Partition Option Available
- Side-Panel Option Available
- Vertical Blade Option Available
- AMCA Certified for Air Performance



## BACKDRAFT DAMPERS AND COMBINATION FIRE-SMOKE DAMPERS OVERVIEW

- ▶ AMCA Certified
- ▶ Triple-V and Airfoil Blades (FSD)
- ▶ Counterbalanced Model (BD)
- ▶ Adjustable Pressure Controller (BD)



# LOUVERS

Louvers are designed to allow for the flow of air while blocking debris and rain from entering the building. Pottorff offers economical drainable blade louvers as well as severe-duty and Miami-Dade approved models.

## EFD-635 DRAINABLE LOUVER

This louver is designed to prevent water penetration in non wind-driven rain applications.

- AMCA Certified for Water Penetration and Air Performance
- Industry Leading 60.7% High Free-Area



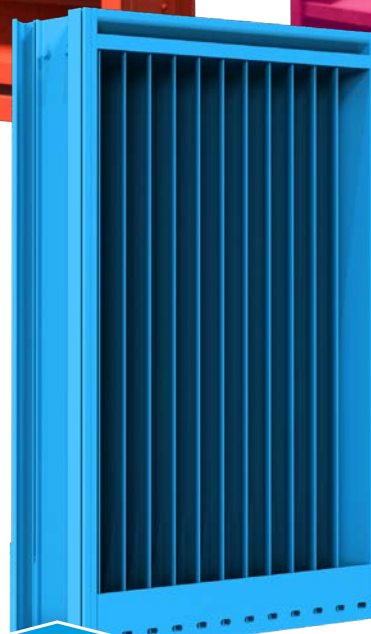
**AMCA  
CERTIFIED  
PROTECTION**

**FLORIDA  
BUILDING CODE  
APPROVED**

## ECV-545-MD (VERTICAL BLADE) SEVERE-DUTY LOUVER

This louver is engineered and tested to withstand extreme loads, debris impact, and cyclic fatigue associated with the severe weather effects of hurricanes while maintaining maximum water infiltration resistance at a minimum louver depth. The ECV-545-MD is ideally suited for use in hurricane-prone and wind-borne debris regions as per the International Building Code.

- AMCA Certified for Water Penetration, Air Performance and Wind-Driven Rain
- AMCA 540 (Impact Resistant) and AMCA 550 (High Velocity Rain Resistant) Listed. *AMCA 550 compliant fully open (no damper required)*
- Florida Building Code Approval
- Economical Non Miami-Dade Model Available



**MIAMI - DADE  
COUNTY  
APPROVED**

## ECD-545-MD (HORIZONTAL BLADE) SEVERE-DUTY LOUVER

The ECD-545-MD is engineered and tested to withstand the extreme weather associated with hurricanes and tornadoes. **Available with standard continuous angles or an optional sleeve which eliminates the need for direct anchorage to the substrate.**

- AMCA Certified for Water Penetration, Air Performance and Wind-Driven Rain
- AMCA 540 (Impact Resistant) and AMCA 550 (High Velocity Rain Resistant) Listed. *AMCA 550 compliant fully closed with the optional CD-51 control damper.*
- Florida Building Code Approval
- Texas Department of Insurance Listed
- Economical Non Miami-Dade Model Available

*Louvers available in a wide array of finishes including custom color matching.*

## LOUVERS OVERVIEW

- ▶ Drainable and Severe-Duty Models
- ▶ AMCA Certified and Listed
- ▶ Florida Building Code Approved
- ▶ Miami-Dade County Approved
- ▶ Texas Department of Insurance Listed





# SPECIALTY LOUVERS / EQUIPMENT SCREENS

Pottorff offers various specialty products for data centers including FEMA grilles for storm shelters and louvers for noise suppression. Our sight screens offer a great sight shield around HVAC equipment.

## XAV-545 ALUMINUM FEMA GRILLE

This grille is designed in accordance with ICC-500 (2020), P-361 and P-320 FEMA guidelines for storm shelters and safe rooms and offers exceptional protection against tornadoes and hurricanes.

- AMCA Certified for Water Penetration and Air Performance
- UL Classified as a Windstorm Rated Assembly
- Design Pressure: 300 psf
- Free Area: 51.2%
- Fewer Fasteners Needed for Installation



## EAJ-1235 NOISE CONTROL LOUVERS

This louver is constructed from 5052-H32 aluminum and features horizontal J-blades. Designed for intake and exhaust applications where maximum noise reduction is required.

- AMCA Certified for Water Penetration, Sound and Air Performance
- AMCA 540 (Impact Resistance) Listed

## HJ-445 (HORIZONTAL) EQUIPMENT SCREEN

*Design Load of 30 PSF*

*with the option of 60 PSF*

- Available in either Mitered or Boxed Corner Configuration

Both the HJ-445 and VV-400 provide an effective sight screen around equipment. They are designed for both interior and exterior installations.

## VV-400 (VERTICAL) EQUIPMENT SCREEN



Vertical sight screen around HVAC equipment.

*Louvers and screens available in a wide array of finishes including custom color matching.*

## SPECIALTY LOUVERS EQUIPMENT SCREENS OVERVIEW

- ▶ AMCA Certified
- ▶ Built to FEMA and ICC-500 Guidelines
- ▶ Noise Control
- ▶ Effective Sight Screen



# AIRFLOW MEASURING STATIONS

It is vital that proper ventilation is maintained throughout data centers. Pottorff's airflow measuring stations precisely monitor airflow and adjust the amount of intake air delivered to meet a determined IAQ (Indoor Air Quality) level.

## PRESSURE DIFFERENTIAL SYSTEMS

**AM-45-PD** (Steel Blade)

**AM-51-PD** (Aluminum Blade)

These systems combine multi-point, self-averaging pressure differential probes with a highly accurate VELTRON 2500-plus transmitter for reliable and consistent air measuring.



**PRECISELY  
REGULATES AIRFLOW  
WITH REAL-TIME  
MEASUREMENTS**

## THERMAL DISPERSION SYSTEMS

**AM-45-TD** (Steel Blade)

**AM-51-TD** (Aluminum Blade)

These stations utilize fully encapsulated thermistors paired with heating circuits and an ELECTRA-flo G5 transmitter for state-of-the-art airflow measuring.



**Each AMS is supplied with a steel or aluminum airfoil blade low-leakage control damper and modulating 24V actuator in an easy-to-install assembly.**

## AIRFLOW MEASURING STATIONS OVERVIEW

- ▶ Fully Encapsulated Precision Thermistors
- ▶ Airfoil Blade Pressure Differential
- ▶ Multi-Point Self-Averaging Pressure Sensing Probes



# WHY POTTORFF?

## QUALITY PERFORMANCE SERVICE

Pottorff is one of the most respected manufacturers of louvers and dampers in the industry. We have achieved that reputation by offering the preferred solution to our clients and by delivering high-quality products on-time and at competitive prices.

- Wide Range of High-Performing Products
- Innovative Solutions for Project Requirements
- Skilled and Thorough Project Managers
- Superior Customer Service and Engineering Staff
- Shortest Lead Times in the Industry
- Quick Ship - 24 Hour, 3-Day, 7-Day Options
- 5-year Warranty



## THE COMPANY WE KEEP

As members of AMCA's Board of Directors, AMCA's Code Action Review Committees and Underwriter's Laboratories, Pottorff participates in the development of building codes, design regulations and test standards.

All products manufactured by Pottorff comply with the Buy American Act. Fabrication of our products is performed in Fort Worth, Texas and Montebello, California.



# POTTORFF®

[www.pottorff.com](http://www.pottorff.com)