

Developing leading edge catalyst technology for Diesel Exhaust Systems



EZCat

A Revolutionary Product in Diesel Exhaust Emissions Control Systems

Controlling emissions such as CO, HC, and PM traditionally requires a combination of control products, where the filter element may need external heat sources to burn off soot. The devices require additional capital, additional maintenance, and additional downtime.

AirFlow Catalyst Systems is reinventing emissions control with technology that eliminates routine maintenance, reduces costs and increases operational efficiencies. Within specific operating conditions, EZCat is the preferred solution for emissions control.

Simple Efficiency

EZCat — A simple yet revolutionary filter device that is best suited for reducing DPM and other diesel emissions in operations where CO minimization is also a priority.

EZCat is named for its low maintenance operation and delivers *Value*:

- **Passively regenerating**, resulting in **less downtime, less maintenance**
- **No expensive control equipment** (external fuel injection, etc)
- **Broad range of operating temperatures** (Figure 1)
- **Self-contained single unit with solid mechanical construction**

EZCat meets the 2.5G/H Filter Efficiency requirements of 97% of engines listed by MSHA.

(Jan. 2011)

Low Temperature

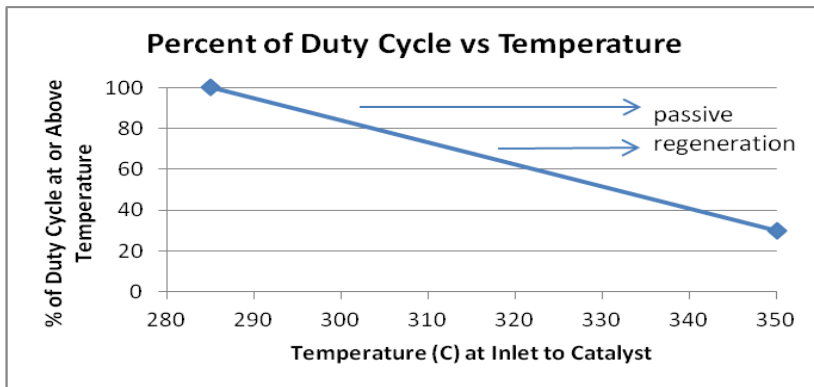


Figure 1

Figure 1 illustrates temperature requirements for passive systems to be effective. Understanding application temperatures is critical to identify the correct system to use on your mining equipment.

*7.69-30 CFR, ISO 8 mode test
 **NO2 measurements are often inconsistent. NO2 levels in untreated exhaust can vary widely based upon engine type and operating conditions.
 † See www.msha.gov/01-995/Coal/DPM-FilterEfflist.pdf

Proven Performance

MSHA Listed *†	
Filter Efficiency (DPM removal)*	93%
CO	95% +
HC	>90%
NO / NO2 ratio	May decrease.**
Balance Point Temperature	325°C <small>Dynamic conditions with 30% operation under load.</small>

Rugged Construction

AirFlow's EZCat is built for operating in rugged environments such as tunnels and underground mines. Physical features that add value and maximize performance efficiency:

- Canned in sturdy stainless steel material
- Constructed to withstand vibration
- Cooling jacketing available upon request



Customer Tested

“We would normally see a blue haze in that area of the mine. The air was clear with your catalytic converter on the generator”

— Mine Maintenance Manager

AirFlow's EZCat Can Be Customized for a variety of applications:

Mining
Generator Sets

Construction
Locomotive

Forestry
Marine

The AirFlow Difference:

Industry-leading services:

- Customized Solutions
- Engineering Expertise
- Coating Expertise
- Technical Support (pre-, during, post-installation)
- Customer Service Focus

Additional industry leading products from AirFlow:

- MinNoCat: Passively regenerating emissions reduction system, continuous operations
- MinNoDOC: Low NO2 Diesel Oxidation Catalyst
- EZDoc™: Diesel Oxidation Catalyst Systems
- Custom Coatings

For more
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