



## A Spotless Reputation... With a Guarantee to Prove It!

We've earned our solid reputation by consistently producing top-quality vacuums and offering the industry's most complete selection of vacuum filtration options, attachments and accessories.

We back all of our products with our industry-leading two-year warranty. Nilfisk CFM empowers you with complete buying confidence.

For a list of our major customers in your industry, please contact our headquarters or your local representative.

Visit [www.nilfiskcfm.com](http://www.nilfiskcfm.com) for more information or call 800-NILFISK for detailed product sheets.

## Industrial Vacuum Cleaners for Hazardous Locations



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### It only takes a spark...

An ignitable material, an ignition source and oxygen – all it takes for a potential explosion at your facility. Most manufacturing plants have all three.

In 2006, fatalities involving explosions and fires increased by 26% in the manufacturing sector according to the Bureau of Labor Statistics Census of Fatal Occupational Injuries. In addition to injuries, explosions cost companies millions of dollars. Between 1992 and 2002, Factory Mutual Global's pharmaceutical and chemical clients experienced dust explosions resulting in \$32 million in losses. Simply put, there's a lot at stake.



### Three Ways To Prevent Disaster

There are a few actions you should take to help prevent explosions, including:

- 1) Minimize fuel concentration levels
- 2) Control ignition sources such as static, flames and heat
- 3) Keep dust levels below 1/32" by cleaning with an industrial vacuum cleaner that meets the requirements for explosion hazard locations and/or materials.

Cleaning with a high-performance, explosion proof/dust-ignition proof vacuum is critical to help prevent an explosion at your facility. The Nilfisk CFM EXP line of electric and pneumatic hazardous location vacuums with advanced filtration technology safely capture combustible materials dispersed in your plant – everything from fuels and solvents to powders and food residue.

Our powerful machines remove even the finest particulate from your equipment, floors, overhead pipes and walls. And they can be equipped to work with your grinding and sanding tools as well to remove combustible dust before it becomes airborne.

### Engineered protection from the ground up

We take no chances when it comes to protecting your facility. Our EXP line of vacuums is engineered from the ground up to prevent explosions with built-in safety measures such as explosion proof/dust-ignition proof motors, anti-static filters and outer shells constructed of non-sparking materials. Beware of manufacturers who dress up their base model with a few anti-static accessories and describe it as a suitable vacuum for explosive material.

Our line of electric vacuums for hazardous locations are certified explosion proof/dust-ignition proof by a nationally recognized testing lab for use in hazardous environments, including Class I, Group D, and Class II, Groups E\*, F, and G locations. Our line of pneumatic vacuums for hazardous locations are ATEX-approved (Ex) for use in Zones 1, 2, 21 and 22 and are also designed to meet the requirements for use in Class I, Group D, and Class II, Groups E\*, F, and G locations.

Plus, Nilfisk CFM now offers a new non-sparking wet separator which is ideal for collecting volatile Group E\* metal dusts such as aluminum or titanium.

\* Special modifications may be necessary to meet Group E requirements. We reserve the right to evaluate on a case by case basis.

### Nilfisk CFM vacuums safely capture these explosive materials

(complete list available at [www.nilfiskcfm.com](http://www.nilfiskcfm.com))

- Acetone
- Almond Shells
- Aluminum
- Aspirin
- Benzene
- Carbon Disulfide
- Cinnamon
- Coffee
- Corn
- Corn Starch
- Cyclohexane
- Cyclopropane
- Ethanol
- Ethyl Butanol
- Flour
- Garlic
- Isopropyl Ether
- Isopropyl Alcohol
- Heptane
- Hexane
- Hexanol
- Pecan Shells
- Propane
- Rice
- Sugar
- Titanium Dust
- Triethylamine
- Wood Dust

### Proven performance advantages

**Explosion proof/Dust-ignition proof design** – All of the internal mechanisms of our vacuums, including the motor, switches, filters and inner chambers are designed to be used in explosion proof/dust-ignition proof applications. Above and beyond most other vacuums, Nilfisk CFM EXP models do not permit arcs, sparks or heat otherwise generated inside the enclosure to cause ignition of the exterior atmosphere. Also, any dust blanketing the vacuum will not ignite due to overheating.

**Non-sparking material construction** – our EXP models are made from stainless steel or aluminum to prevent a dangerous percussion arc that might otherwise cause a spark.

**Advanced filtration technology** – optional HEPA and ULPA filters guarantee capture of up to 99.999% of all ultra-fine particles down to and including 0.12 microns in size. This ensures that no combustible particulate is exhausted back into the air.

**Easy-to-clean design** – constructed modularly, our vacuum components are easy to access for fast cleaning, and our stainless steel vacuums can be quickly decontaminated. Also, most of our hazardous location vacuums feature dropout collection containers and an external filter shaker mechanism.

**Modular construction** – easily expand your Nilfisk CFM vacuums' capabilities to meet your changing needs with our full range of compatible accessories and components.

**User-friendly features** – static-control accessories, including those for overhead cleaning, reduce maintenance steps and hassle for your team.

### Be Prepared with an explosion proof/dust-ignition proof vacuum

Now is the time to upgrade to a high-performance, certified explosion proof/dust-ignition proof vacuum. Remember, all it takes is one spark.

Nilfisk CFM is the only vacuum manufacturer with a direct sales force ready to support all of your cleaning needs. Our cleaning experts can evaluate your situation and recommend the best vacuum solution for your application.



[www.explosionproof-vacuum.com](http://www.explosionproof-vacuum.com)

Want to learn more? Our industry focus site, [www.explosionproof-vacuum.com](http://www.explosionproof-vacuum.com), is completely dedicated to combustible dust and includes information on best cleaning practices, industry resources, industrial vacuum tutorials, FAQs, and more!