

AEROB Explosion Protection

For most companies, **safety** is one of the main requirements for any dust removal unit, along with **trouble-free operation** and **cost-effectiveness**. This is precisely why many of our products have been designed with **explosion protection**.

Many applications require the safe extraction of flammable and explosive dusts, such as flour, powdered milk, sugar, wood swarf, coal dust etc.

For these applications, the **filter unit can be outfitted with explosion protection** that **conforms to the requisite safety regulations** for the prevention of explosions and, where necessary, is **constructed to withstand explosions** in accordance with the European standard:

DIN EN 1127-1 - Potentially explosive atmospheres

Explosion protection Part 1: Basic principles and systems engineering

This European standard guideline is in large parts consistent with the , but is only applied for dust mixtures, not gases. The specification and outfitting of the requisite safety features depend on operational requirements and local conditions of the filter environment. Applicable rules and regulations:

- Explosion protection in dust removal plants
- ATEX 137/ Operational Safety Regulations Explosion Protection Document - Zone Classification
- Machine types and categories according to zone classification for dusts
- ATEX 95 required examination of machines, components and autonomous protection systems
- ATEX 95 applicability of LTG®, AEROB®, and BETH® products
- Explosion protection in the various areas of application e.g. the automotive industry or the timber industry

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