

ATEX – CERTIFIED TROX SAFETY PRODUCTS



Wherever combustible gases, vapours or dusts are present, there is a risk of explosion. The building or system owner is responsible for the safety in areas with potentially explosive atmospheres. It is hence reassuring when the installed mechanical self-powered, electronic or pneumatic components come with certificates that prove their safety and suitability for use in potentially explosive atmospheres – as is the case with many TROX products.

The TROX product portfolio includes fire dampers, volume flow controllers and in particular special fans for use in potentially explosive atmospheres.

Explosion-proof fans.

Selecting the correct fan is most important where difficult chemical or thermal factors play a role. TROX TLT offers a large portfolio of fans, including:

- High-performance centrifugal fans for roof installation, suitable for aggressive gases and vapours
- Versatile centrifugal fans in 50 different sizes
- Compact axial fans for installation in ducts and walls, where space is restricted, suitable for large air volumes yet low pressure increase and high efficiency

The material depends on the purpose of the fan or on the degree of chemical or thermal influences to which the fans are exposed: Available materials include PVC, PP, PPs, PPs-el, PE, PVDF, or GRP or variants with GRP. For impellers, there is a choice of PVC, PP, PPs, PPs-el, PVDF, GRP, or steel with plastic or other coating, or rubberised steel, depending on the construction, size or degree of exposure of the fan. An extensive range of accessories is also available.

Fans to be used in areas with potentially explosive atmospheres may be fitted with three-phase motors with protection level IP55 (with 'increased safety' – EEx eII) and temperature classe T4 (certified by the German PTB). As a consequence, the fans can be used based on the zones listed in 94/9/EU (ATEX 95) or EN 14986.

TVR-Ex VAV terminal unit for variable volume flow rates



Circular CAV controller RN-Ex for constant volume flow rates





Rectangular CAV controller EN-Ex for constant volume flow rates



Rectangular fire damper FK-EU with explosion-proof spring return actuator



TROX TLT explosion-proof fan



