TROX® TECHNIK
The art of handling air

ATEX - FOR WHEN DANGER IS IN THE AIR

THE AIR HANDLING UNIT WITH DUAL ATEX CERTIFICATION

Air handling units installed in areas with potentially explosive atmospheres have to comply with ATEX directive 2014/34/EU. Maximum safety – thanks to TROX air handling units for potentially explosive atmospheres:

- Developed especially for zone 1 and zone 2 areas with potentially explosive atmospheres
- Meet the requirements for groups IIA and IIB of flammable gases and vapours, and temperature classes T1 to T4
- Configurable air handling units
- Integral ATEX-compliant components

We manufacture our X-CUBE Ex units in compliance with ISO IEC 80079-34.

And we don't stop there: We also have conformity to our QM system tested and certified by an independent institute.

TROX is in fact the only manufacturer to offer this dual certification.

WE ASSIST YOU

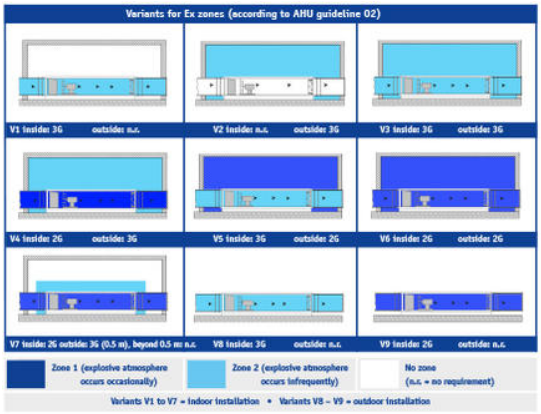
IN DESIGNING YOUR ATEX-COMPLIANT VENTILATION STRATEGY

We gladly help you select the unit that best suits your requirements.

Configuring an air handling unit for your project can be difficult, which is why we have developed a selection table that guides you through the relevant steps so you won't forget any important details.

We then use your data to design a project-specific, ATEX-compliant ventilation strategy with a bespoke X-CUBE configuration.

DESIGN FOR SAFETY



PERFECT UNIT CONFIGURATION

You want an air handling unit that runs safely and efficiently. The key? Configuration! It is particularly important to avoid zonal dispersion, so we do consider the input of specialist consultants, installers and system owners regarding zones and other aspects of explosion protection. These are the critical factors:

- Zones inside and outside of the air handling unit
- Type of explosive gas
- Temperature class

Efficiency, however, requires that some additional factors are considered, too:

- Type of heat recovery
- Installation location
- Air change rate in the installation space (for indoor units)
- Nearby buildings or walls (for outdoor units)
- Unobstructed airflow in two directions along an axis (for outdoor units)
- AHU operating time

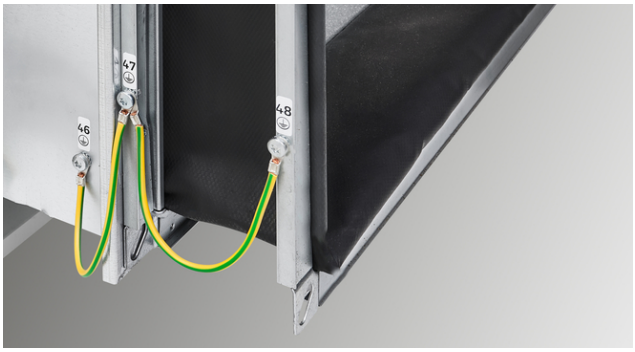
ТЕХНИЧЕСКА ИНФОРМАЦИЯ

Multileaf dampers and actuators / Earthing / Duct connection

- ATEX-compliant construction
- Brass bearings, stainless steel as an option
- Linkage and opposed action blades
- Optional: ATEX actuators including spring return and auxiliary switch
- Leakage class 2 to EN 1751, class 4 as an option

- All parts are earthed:
  - Baseframe
  - Skeleton
  - Panels
  - Metal parts

- Flexible connector made of electrostatic dissipative (anti-static) fabric, with equipotential bonding
- Fulfils the hygiene requirements of VDI 6022
- Prevents the transmission of vibration



ATEX-inspection window / ATEX-attachments / Filters

- Meets the requirements of ISO 80079-36
- Clear size 190 x 190 mm

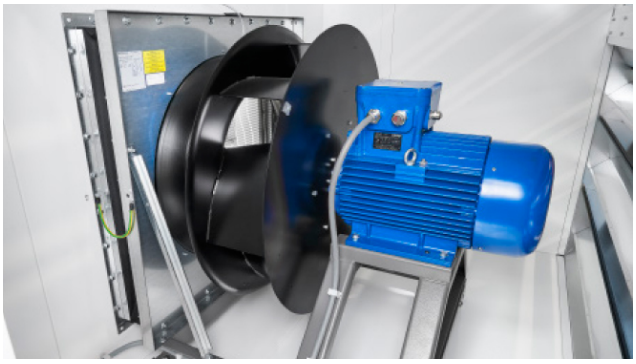
ATEX-compliant attachments:

- Lighting
- Light switches
- Local isolators
- Differential pressure measuring devices
- Frost protection sensors

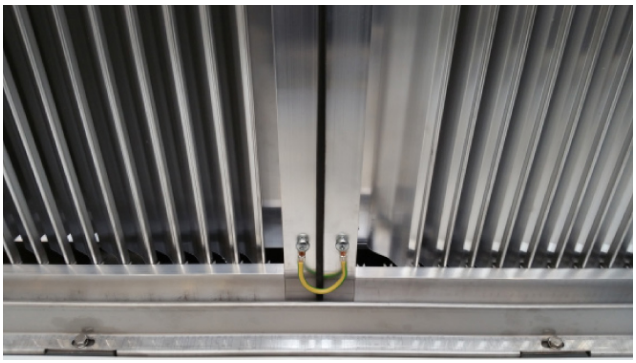
- ATEX-compliant pocket filters and Mini Pleat filters
- Filter classes M5 to H13
- Mini Pleat filters with lightweight, anti-static plastic frames
- Powder-coated filter mounting frame, stainless steel as an option

Fans / Droplet eliminator / Sound attentuator

- High-performance centrifugal fans
- Efficiency class IE2 (EU classification)
- PTC resistor for motor protection
- IEC standard motors, 'flameproof enclosure' type of protection
- Explosion-proof construction according to equipment group II, equipment category 2G, group IIB of explosive materials, temperature class T4



- Entirely metal
- Easy-to-clean aluminium fins
- Included in the earthing system



- Perforated plates cover the mineral wool infill in splitters (option L) and prevent both abrasion and electrostatic discharge.