



ATEX Directive

Do you meet the requirements?







ATEX Directive

Brief Overview



What is ATEX?



- ATEX (Atmosphères Explosifs) is a set of EU directives concerned with all equipment installed in potentially explosive atmospheres (both gas and dust).
- ATEX harmonises various national technical and legal requirements across Europe to ensure a very high level of safety.
- From 1st July 2003 its been a mandatory requirement that all products to be used in potentially explosive environments must comply with the EU's ATEX Manufacturer's Directive (94/9/EC).
- Products installed after July 2003 may have to be replaced should they not comply with ATEX requirements.
- ATEX is designed so that both the end-user and the manufacturer each carefully consider their response to the particular problem.
- Non-compliance can lead to heavy fines and even imprisonment!

ATEX is explosive - Act now before it's too late!



Does ATEX affect you?



- The ATEX directive applies across the whole EU and the European Economic Area (EEA).
- The ATEX User Directive (92/92/EC) is directly concerned with the health and safety of workers.
- Employers are legally required to ensure their employees operate in a safe working environment.
- End-users must ensure their facilities comply with the ATEX Directive, and eliminate risk of explosions.



If there is a risk of an explosion then ATEX applies!



ATEX & End-Users





ATEX puts the onus of responsibility upon you!

- The main responsibilities of the end-user are:
 - Prevent the formation of explosive atmospheres and subsequent ignition
 - Assess the risk of explosion
 - Eliminate or reduce the level of risks
 - Classify the workplace into Zones
 - Prepare an Explosion Protection Document
 - Identify hazardous areas using warning signs
 - Specify suitably safe equipment for use in the zone
- The provision of this essential information allows Fläkt Woods to select your ATEX fans.

ATEX & Hazard Anaylsis



- Hazard analysis should consider: -
 - Types, properties & quantities of hazardous substances present.
 - Circumstances of work processes and their interactions with the hazardous substances.
 - Interactions of various substances in the atmosphere.
 - The likelihood of an explosion due to these circumstances or through ignition sources.
 - The scale of anticipated effects.
- Employers must take measures to ensure the hazard is minimised.

- Results of the hazard analysis enable end-users to provide Flakt Woods with a specification for suitable equipment based upon:
 - Zone Classification
 - Hazard Category
 - Temperature Class
 - Gas or Dust Group
 - Surface Temperatures

Effective Hazard Analysis enables selection of the optimum fan solution!



ATEX & Zone Classification



 Hazardous areas are classified into zones on the basis of frequency and duration of an explosive atmosphere: -

Zone		Zone Criteria	Equipment	Protection
Gases	Dust	(frequency / duration of explosive atmosphere)	Category *	Level
0	20	continually present or present for long periods.	1	Very
		(>10,000hrs/annum)		High
1	21	occasionally likely to occur in normal operation	1, 2	High
		(>10hrs, <10,000hrs/annum)		
2	22	unlikely to occur in normal operation.	1, 2, 3	Normal
		(<10hrs/annum)		

^{*} subject to suitability with gas or dust type present

Correct zone classification enables correct fan selection!







ATEX Directive Fläkt Woods Response



ATEX & Fläkt Woods



- Fläkt Woods recognised the importance of the ATEX directive, taking the below steps to maintain high quality service : -
 - Fläkt Woods undertook an extensive engineering programme to ensure all Fläkt Woods ATEX fans adhere with the ATEX Directive.
 - Fläkt Woods' ATEX equipment for Zones 1, 2, 21 & 22 have been approved to the ATEX Directive. Without this Fläkt Woods could not legally supply into the EU and EEA!
 - Fläkt Woods staff are trained to select products based on the specific information provided by the end-user, ensuring the optimum solution is reached.
 - Fläkt Woods has developed the technical expertise and application experience to support end users in every stage of the selection process.

Fläkt Woods' products are ATEX compliant.

ARE YOU?



Fläkt Woods ATEX Compliant Fans



- Fläkt Woods are in a unique position to satisfy most ATEX requirements: -
 - The widest range of ATEX compliant and registered fans in the industry.
 - Centrifugal & Axial flow fans & full range of ancillaries
 - Vast experience of industries & applications covered by the directive.
 - A product solution to handle most of the specific mixtures of potentially explosive hazards



Whatever your ATEX situation, Fläkt Woods has the optimum solution!



ATEX Compliant Axial Fans





Selecting nonconforming fans will cost you much more than a few dB!

- ATEX axial fans incorporate the following safety features: -
 - Spark minimising features.
 - Higher specification motors.
 - Special conduit systems.
 - Impeller Locking System.



ATEX Compliant Centrifugal Fans



- ATEX centrifugal fans incorporate the following essential features: -:
 - Fully welded casing and impeller design
 - Special anti-spark seals and linings on rotating parts
 - Carbon ring ensures non-sparking
 - Brass inlet cones
 - No inserts inside the casing
 - Single piece flanges to avoid leakage
 - Earthing of all bolted parts with stainless steel
 - Anti-static coatings (without iron / aluminium)



Fläkt Woods designed ATEX fans will provide valuable peace of mind!



ATEX Key Issues



- From 1st July 2003 ATEX been a mandatory directive.
- ATEX directive applies across the whole EU and the EEA.
- End-users must ensure their facilities comply with the ATEX Directive.
- Specifying non-conforming fans for ATEX applications can result in heavy fines and even imprisonment.
- Fläkt Woods are in a unique position to satisfy most ATEX requirements
- Fläkt Woods offers the widest range of ATEX compliant fans in the industry

ATEX puts the onus of responsibility upon you!







Need Further Information?

Please contact your Light Industrial Department on:

0044 (0) 1206 244403







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