



Axial Fans for ATEX Explosive Atmospheres

- ATEX certified fans for Zone 2 (gas) and Zone 22 (dust).
- Fans are in compliance with ATEX Equipment Directive 94/9/EC.
- ATEX certified fans for Equipment Category 3 (see back for zone and category descriptions)

Mechanical Features

ATEX nameplate shows all relevant environmental and performance information and fan operating limits



Non-sparking impeller constructed of cast B413 (LM6) aluminum

Impeller balanced to G2.5

Rub-ring constructed of naval brass fastened with counter-sunk fasteners to reduce spark risk

Special impeller-to-shaft attachment

Increased clearance between impeller and fan housing

ATEX certified motor rated for specific atmosphere



Access door for making field power wiring connections to motor. *(Fans in dust groups require multiple access doors for entry to interior of fan for cleaning.)*

Grounding lug (m10)

3/4" (19mm) drain with plug chained to housing

ATEX Atmosphere Description

The table below defines the zones and indicates what category ATEX Certificate is required for equipment in those zones.

Zone		ATEX Equipment Category	Broad Definitions of Zones (for guidance only)	Level of Protection
Gases & Vapors	Dust			
0	20	1	Explosive atmospheres are present continuously, for long periods or frequently	Very High
1	21	2	Explosive atmospheres are likely to occur under normal operation, occasionally	High
2	22	3	Explosive atmospheres may occur under abnormal operation and persist for a short period only	Normal

Motor Requirements for ATEX Atmospheres

Zone 0, 20	Electric motors cannot be used
Zone 1	Flameproof motors
Zone 21	Dust ignition proof motors
Zone 2	Non-sparking motors
Zone 22	Dust ignition proof motors

The end-user is required to evaluate the environment where equipment is to be located and operated. When evaluating hazardous locations, it is important to consider the hazardous material (gases or dusts) itself, how the material may interact with the surroundings (atmosphere, equipment and personnel), likelihood of explosion due to the surroundings, and the level of any anticipated effects.

The close evaluation of the hazards will allow the end-user to provide Aerovent with a specification for equipment located in the hazardous location. To assist the end-user or their representative, Aerovent offers an ATEX Customer Inquiry Form as a guide to provide all essential information to ensure the correct category and zone are selected for each fan. The form can be provided by your Aerovent representative or downloaded from Aerovent's website at www.aerovent.com/aerovent/atex.asp.



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