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
- Increased clearance between impeller and fan housing
- Special impeller-to-shaft attachment
- Grounding lug (M10)
- 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.)
- 3/4" (19mm) drain with plug chained to housing

Axial Fans for ATEX Explosive Atmospheres
Mechanical Features
ATEX Atmosphere Description

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

<table>
<thead>
<tr>
<th>Zone</th>
<th>ATEX Equipment Category</th>
<th>Broad Definitions of Zones (for guidance only)</th>
<th>Level of Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gases &amp; Vapors</td>
<td>Dust</td>
<td>0</td>
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<td>2</td>
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</tbody>
</table>

**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 http://www.aerovent.com/industries-and-applications/hazardous-locations-(atex).