

ATEX Specifications & Safety Notes

Axair Fans

The following safety instructions refer to the installation, use and maintenance of polypropylene centrifugal fans to be used in classified (Zone 2, Group II, IIB or IIC category 3G) explosive areas.

Our ATEX fans are designed and constructed in accordance with the general requirements of ATEX 2014-34/ EU directive, in accordance to norm EN 1127-1, EN 13463-1. Technical data for each fan is available on request.

Zone Classification 2:

- an area in which explosive atmospheres as a result of a mixture of air or flammable gases, vapours or mist do not normally occur or occur only for a short time during normal operation.

Category 3G:

- suitable for installation in surface plants for gas category for a normal protection level guaranteed by the equipment.

Explosion Group IIB & IIA:

- combustible gases and vapours are divided into groups according to their explosive capacity. Electrical motors fitted onto centrifugal fans are subject to appropriate certification in accordance with the ATEX directive and are suitable for use in classified zones (zone 2) with the presence of gas, groups II, IIB or IIC protection EEx, temperature classes T3, T4, T5 & T6 depending on the application. Motor electrical data is available on request.

Axair Fans do not supply industrial fans models for Zone 1 or Zone 0 applications.

General Requirements:

Before the installation of any components supplied please carefully read the installation and maintenance guidelines. The installation and maintenance of the fans must be done in accordance to the plant and maintenance classified area with the presence of explosive substances and other national standards.

ATEX Specifications & Safety Notes

Axair Fans

The following safety instructions refer to the installation, use and maintenance of polypropylene centrifugal fans to be used in classified (Zone 2, Group II, IIB or IIC category 3G) explosive areas.

Electric motors to be coupled with centrifugal fans must adhere to the following requirements:

- all must have a separate ATEX certification;
- suitable to be used in the classified zone and with the existing substance (gas group);
- temperature class (gas) suitable for the existing substances and environment of the installation area.

For motor safety requirements please refer to the motor maintenance, use and safety instructions. Motors must not be opened when in use.

Centrifugal fans must be earthed through appropriate connections (anti-loosening and anti-rotation device)
All maintenance operations must be performed in accordance with the instructions detailed in the maintenance manual.

Warnings:

The fan inlet if not coupled with a duct, must be installed with a protection grid IP20 to protect the impeller from contact with external bodies and dirt. If the fan is duct mounted, it is necessary to have the appropriate protection devices in accordance with regulations.

Earthing of the conductive areas of the motor/casing is made through the external earthing. Check ATEX regulations for details. The fan should also be checked for wear, damage and build up of dirt. Ensure the fan is running correctly.

If on inspection the fan is not operating as normal, the fan should be stopped. Then try to identify the origin of the problem and contact the installer.