



■ ATEX PRODUCTS

ATEX compliant fans can be supplied in semi-conducting polypropylene, fabricated steel with copper or aluminium non-sparking components, cast aluminium or in stainless steel.

Many applications call for air diluted fumes to be ducted, hence the availability of centrifugal fans in either forward or backward curved impeller blade. For general ventilation of rooms and buildings, we supply axial fans in plate mounted and cased construction.

Polypropylene fans will handle corrosive fumes whilst enduring outdoor conditons and can be supplied with weather protecting pedestals to enhance their motor ingress protection classification.

■ ATEX USER & MANUFACTURER DIRECTIVES

99/92/EC ATEX 137 (formerly 118a), often referred to as “The Users Directive” is concerned with safe working conditions and is implemented in UK law by the Health & Safety Executive in the form of the Dangerous Substances and Explosive Atmospheres regulation, or DSEAR.

“ATEX 137 requires the end user to define what the equipment manufacturer can lawfully supply”

94/9/EC ATEX 95 (formerly 100a), often referred to as “The Manufacturers Directive” is concerned with ATEX product compliance. The enables the equipment manufacturer to supply product that meets or exceed the minimum requirements of the end users DSEAR risk assessment.

“ATEX 95 requires the equipment manufacturer to supply safe and lawfully suitable products”

■ ATEX MOTORS

EEx d is Cat.2 flameproof i.e not sparking but a spark induced intenal flame cannot escape from the motor.

EEx nA is Cat..3 non-incendive i.e anti-sparking in normal operation, but not flame proof.

Manufacturers generally select the type of motor required to meet the regulations, clients sometimes choose to over specify the motor for extra security.

■ ATEX CODING

If an explosive atmosphere of flammable substances is specified, the following zones may exist:

ATEX Category	ATEX Zone (Gas & Vapour)	ATEX Zone (Dust)	Presence	ATEX Description
Category 2	Zone 1	Zone 21*	Present Intermittently	An explosive mixture may be present occasionally in normal operation
Category 3	Zone 2	Zone 22*	Present Abnormally	An explosive mixture is not expected to be present in normal operation or will only be present for a short time

*Available on request - please contact us on 01782 349 430



■ SEMI CONDUCTING POLYPROYLENE FAN

Corrosion resistant plastic, weather protected options available on request
ATEX category 3G, Zone 2, EEx nA
Flow up to 10,000m³/h, pressures up to 2000Pa



■ CENTRIFUGAL FORWARD CURVED STEEL

Zone 1, 112G, Exd
Flow up to 14000m³/h, pressures up to 2000Pa



■ CAST ALUMINIUM FORWARD CURVED CENTRIFUGAL

Flow up to 90,000m³/h, pressures up to 3000Pa
Available in Stainless Steel



■ CENTRIFUGAL BACKWARD CURVED STEEL

Flow up to 90,000m³/h, pressures up to 3000Pa
Available in Stainless Steel



■ BELT DRIVEN

Flow up to 70,000m³/h, pressures up to 5000Pa
Available in Stainless Steel

■ AXIAL FANS

Flow up to 70,000m³/h, pressures up to 5000Pa
Available in Stainless Steel



Important Information Regarding ATEX Fan Selection

The Axair team have undertaken extensive training in ATEX regulations but have a duty of care to ensure we supply a suitable fan based upon a customer's correct ATEX coding specifications. ATEX has to be understood as an ever evolving subject requiring competence and training that is now provided by UK notified bodies and consultancies. We advise that if anyone requires additional training in ATEX that they contact an independent body for assistance. Axair can supply fans suitable for ATEX applications within zone 1 & 2 manufactured from either metal or corrosion resistant polypropylene depending on the specification.



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