

# Stainless Steel Fans

## Medium & High Pressure Centrifugal

---

*A wide range of standard and ATEX certified medium and high pressure centrifugal fans available on request in Stainless Steel constructions.*



# Fan Integration Experts

*With over 30 years of experience in air movement, we're fan integration experts. Trust our experienced team to supply the right stainless steel fan to suit your requirements. Learn more at [www.axair-fans.co.uk](http://www.axair-fans.co.uk).*

“  
**Our lead times are of the most competitive in the industry.**”

As fan integration experts we receive a lot of enquiries from those working in the corrosive air and food processing industry. Preventing rust, increasing product longevity and hygiene are top priorities.

Stainless steel fan constructions, whether standard or ATEX certified are available as bespoke fan constructions to our customers. Special coatings are also available if required. Our lead times are of the most competitive in the industry and our technical knowledge is second to none. Our in-house team of technical experts are available to answer any air movement question you have.

Contact our team on [sales@axair-fans.co.uk](mailto:sales@axair-fans.co.uk) to discuss your project in depth. We'll advise on possible fan integration options and where needed can refer you to an independent consultant to assess ATEX zones and classes.

# Why Stainless Steel?

*Stainless steel is a corrosive resistant metal that offers low maintenance while withstanding high temperatures. It is robust and easy to clean, making it ideal for areas that require intensive cleaning cycles.*

## Fan Construction

The materials used to manufacture an industrial fan, whether stainless steel, cast iron, aluminium, mild steel or polypropylene, will hugely affect the versatility and use of the fan. The materials of construction used in axial or centrifugal fan builds will affect weight, hygiene, maintenance, longevity and appearance. For corrosive environments where hygiene standards, high temperatures or higher duties exist, stainless steel fans are the route to take when selecting a fan.

## Internal or External Parts

Industrial fans can have either the internal parts in stainless steel or the entire construction of the inner and outer casing. Generally customers choose to have the internal components constructed using 304 or 316 when only those inner parts will be exposed to the corrosive carried air or are in the direct airstream. If a fan is located in a corrosive air environment, then having the entire fan manufactured with a corrosion resistant metal such as stainless steel would be advisable.

Stainless steel is available in most of our medium pressure and high-pressure collection of Casals industrial fans. For smaller corrosion resistant duties in the applications of moving corrosive air effectively, we have an extensive range of polypropylene corrosion resistant fans with an impressive ATEX zone 2 offering.

## Corrosion Resistance

Stainless steel has built in corrosion resistance due to the amount of chromium present in its composition. Stainless contains a minimum of 10.5% chromium, this chromium reacts with the surrounding metal very quickly and forms a thin oxide layer on the steel's surface. The chromium oxide clings to the steel and acts as a protective barrier. The oxide is known as a passive film which seals the iron in the alloy away from the air and water in the environment. This gives the stainless steel its rust resistance.

## ATEX & Stainless Steel

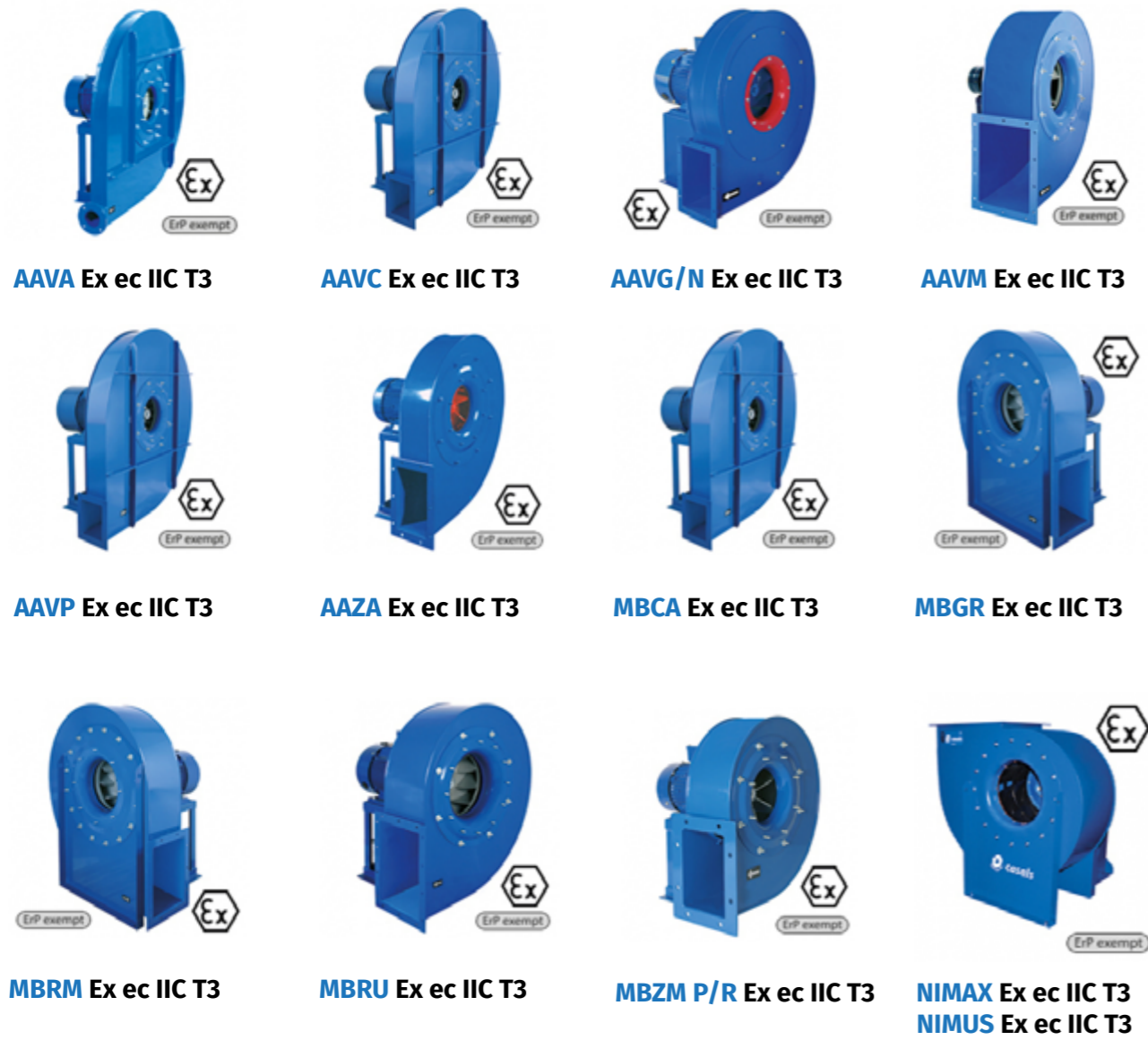
Our stainless-steel corrosion resistant fans are suitable for high operating temperatures, contaminants, or chemicals and even zone 1 ATEX variants for explosive atmospheres. We'll always ensure we provide you with a fan in the most suitable construction materials. Our ATEX fans are suitable for zone 1 and 2 applications in-line with the current ATEX Directive. As dictated in the legislation, fan selections will be made in line with DSEAR inspections, and the reliable information provided by the end user's specification.



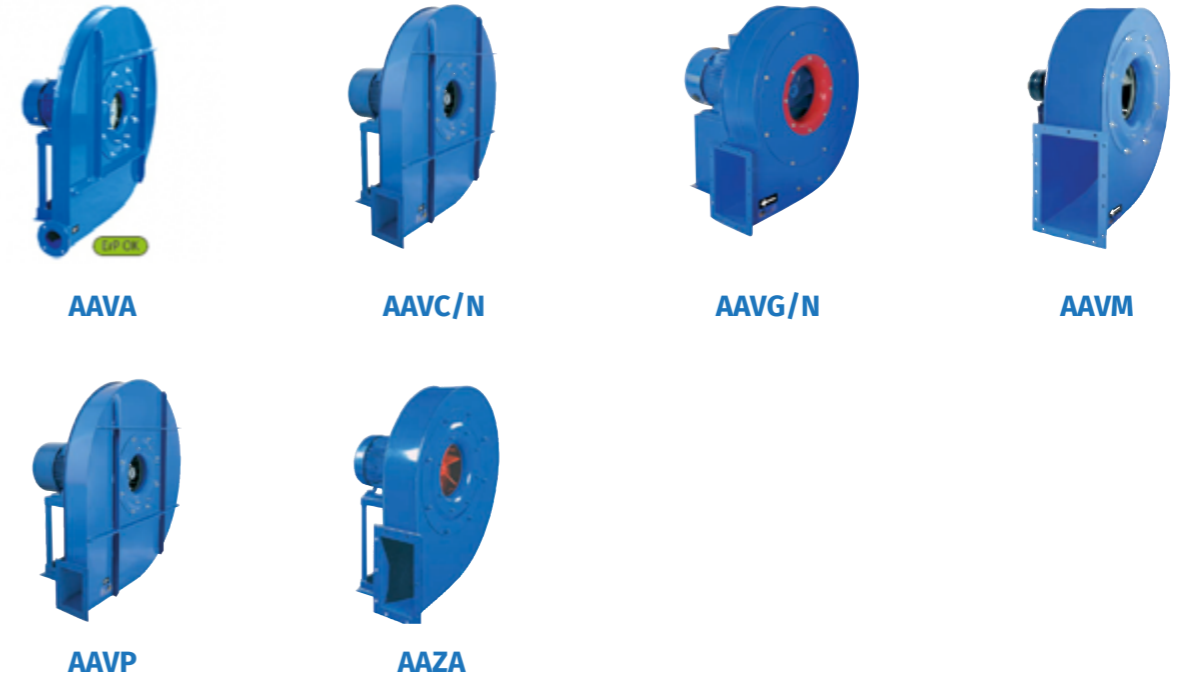
# Centrifugal Fans: Stainless Steel

A wide range of standard and ATEX compliant centrifugal fans available on request in 304 or 316 Stainless Steel constructions with normal or electropolished finishes.

## Medium & High Pressure ATEX Certified Fans



## High Pressure Centrifugal Fans (Non-ATEX)



## Medium Pressure Centrifugal Fans (Non-ATEX)



Please note: ATEX Certified fans for potentially explosive atmospheres are manufactured and tested according to legal regulations in the EU, Internationally and in the UK. Quoted ATEX fans all have conformance documents for review.

Please note: Equipment manufacturers and distributors are not ATEX consultants, cannot play any role in the process of determining the risk of explosion and cannot therefore specify the ATEX 2014/34/EU code for any product supplied.



## Contact Us

---

*Whatever your issue, concern or question, contact our industrial team using the below contact details. Alternatively, visit our website and open a live chat to start discussions.*

**01782 349 430**

**[sales@axair-fans.co.uk](mailto:sales@axair-fans.co.uk)**