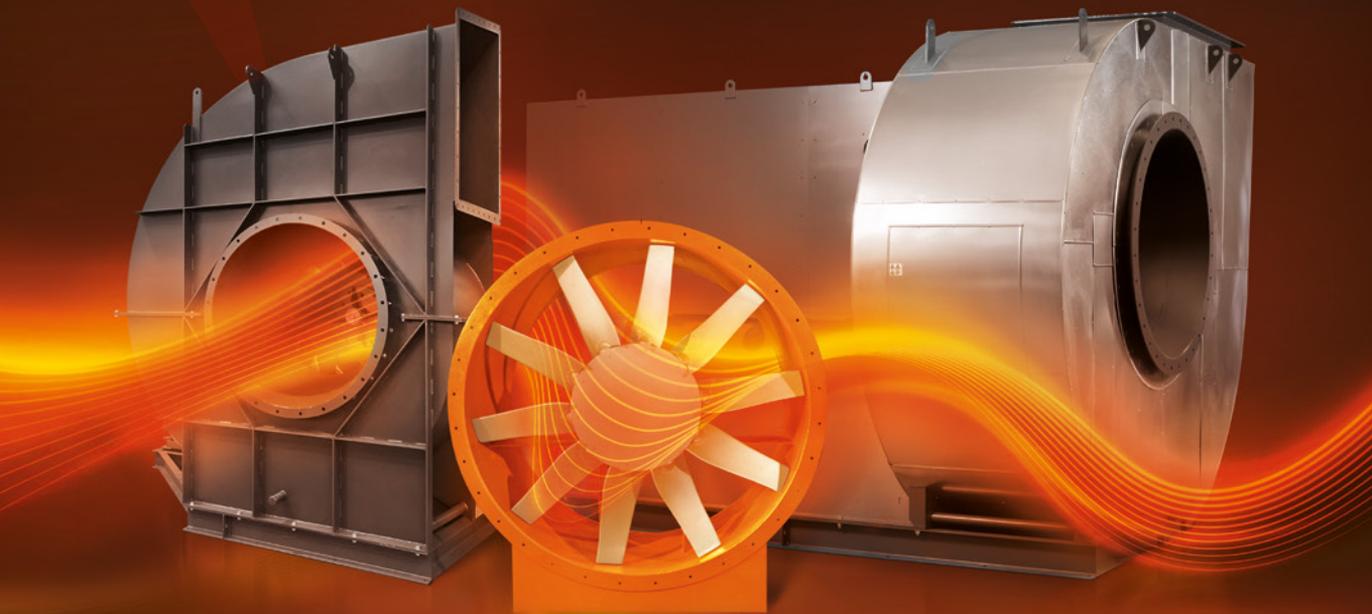


# Arivent

Industrial fans

Centrifugal and axial fans



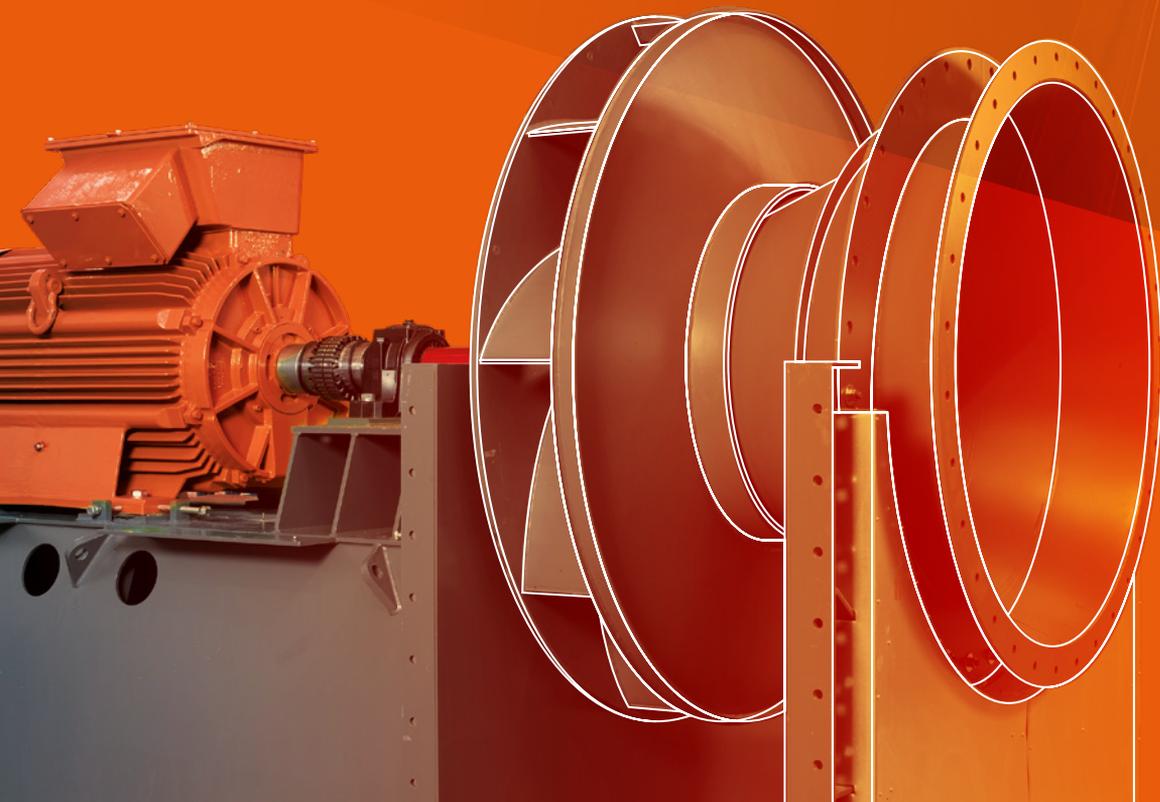
# The Arivent expertise

Leader in the field of civil and industrial ventilation for over 45 years.

**Established in 1976, the firm has been able to develop its research and production skills in the field of fans, meeting its customers' needs in both technical and security aspects.**

During many years of collaboration with plants designers and manufacturers Arivent got a deep knowledge in every application

field of fans fulfilling most market requirements. Moreover, the company has a staff of CAD experts able to design tailor-made solutions. Reliability, quality and expertise characterise Arivent's products making them a reference point in the industrial field both here in Italy and worldwide.



# Choose Arivent



## HARDY CONSTRUCTION

Arivent production has always stood out for the robustness of the product and its reliability.

The machines are sized without skimping on the thickness of the material sheets and the quality of the components used.

The transmission components are designed using largely precautionary safety margins.

All this makes Arivent fans extremely reliable over time.



## HIGH EFFICIENCY

Most of the Arivent series install impellers with reverse curved blade profile, this peculiarity combined with the reduced clearance between nozzle and impeller inlet, allows for high-performance machines, up to 84% in larger sizes.

For fans with airfoil blade impeller, it is possible to achieve efficiencies of 86%.

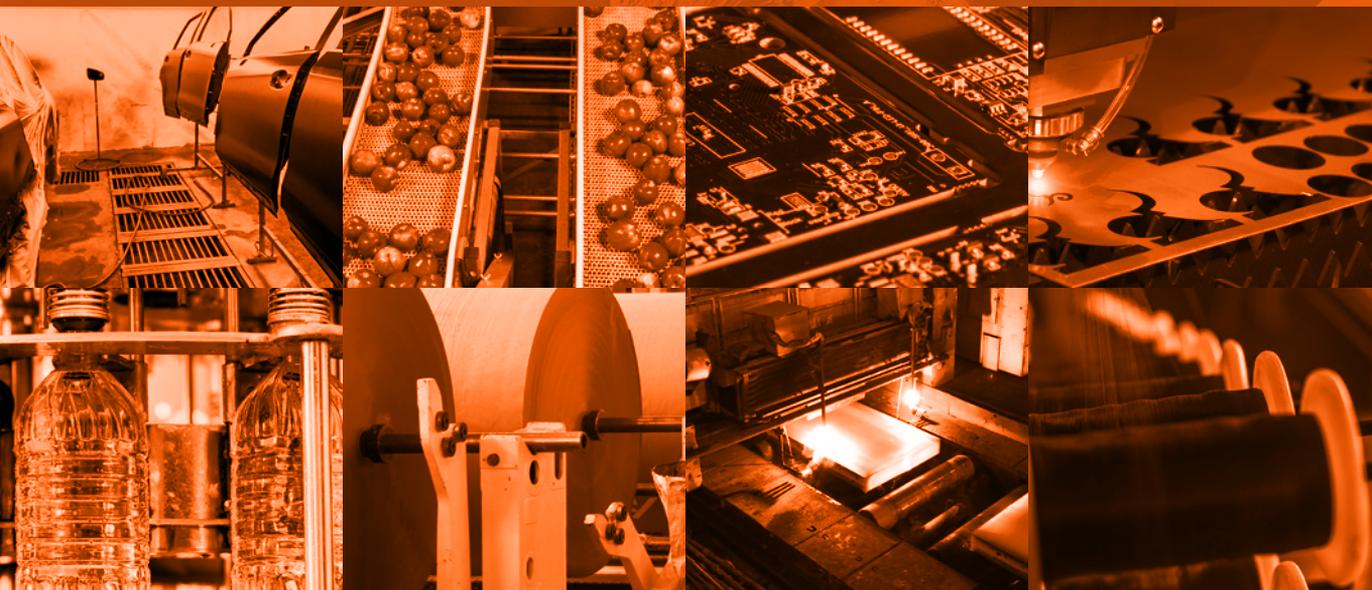


## LOW NOISE LEVEL

A sturdy construction, high yields, curved blade profiles, turned jugs, allow for fans with limited noise. The accuracy of assembly and low vibrations reduce mechanical noise to a minimum. In the design phase, if necessary, acoustic coatings and silencers are then sized to fall within the sound pressure limits established by law.

## The applications sectors

- Food & Beverage
- Painting
- Water Treatment
- Industrial Automation
- Textile
- Chemical Pharmaceutical
- Pulp Paper & Print
- Plastic
- Electronic
- Oil & Gas
- Metalworking & Mining



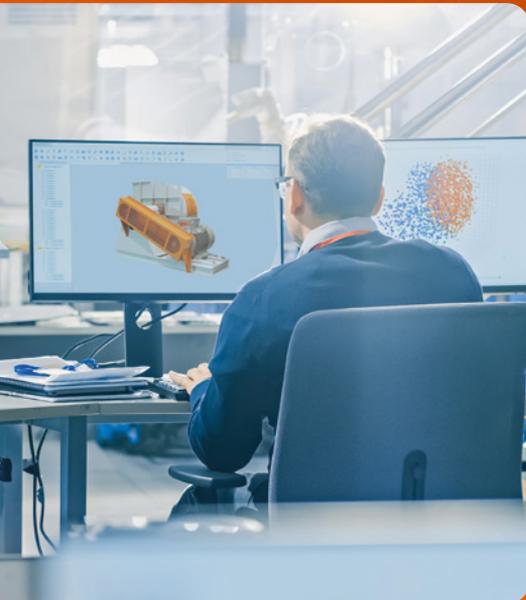
# Arivent production

A comprehensive range of centrifugal fans (S, G, R, P and MCA series) and axial fans (AC and AT series), completed by a range of dedicated accessories and full after sales support.

In the many years of collaboration with designers and plant builders, Arivent has acquired a deep understanding of the issues related to the most varied application fields

of fans and today, with its offer, covers most of the demands of the international market.

Arivent fans are manufactured using state-of-the-art technical and technological standards that allow you to obtain a high-quality and long-lasting product.



## Design services

The Arivent technical department checks every single fan ordered and determines the design and construction aspects to meet and obtain the best performance and reliability for each specific need. The technicians interface with the customer using 2D and 3D support to define all the aspects necessary for the correct insertion in the plant layout. The sizing and verification of both the rotating parts and of the static parts, are carried out with specific calculation and verification programs. The technical department also deals with the testing of machines, running and performance tests, quality control and technical documentation.

## Performance test

The performance test is performed at the customer's request to verify that the axial or centrifugal fans comply with the contractual performance. The measurements are carried out on the solid experience of Arivent and in compliance with the AMCA 210 standard. Through the performance test it is possible to verify the following values of the fan:

- Flow rate
- Static pressure
- Absorbed power
- Fan efficiency
- Rotation speed
- Density of the air

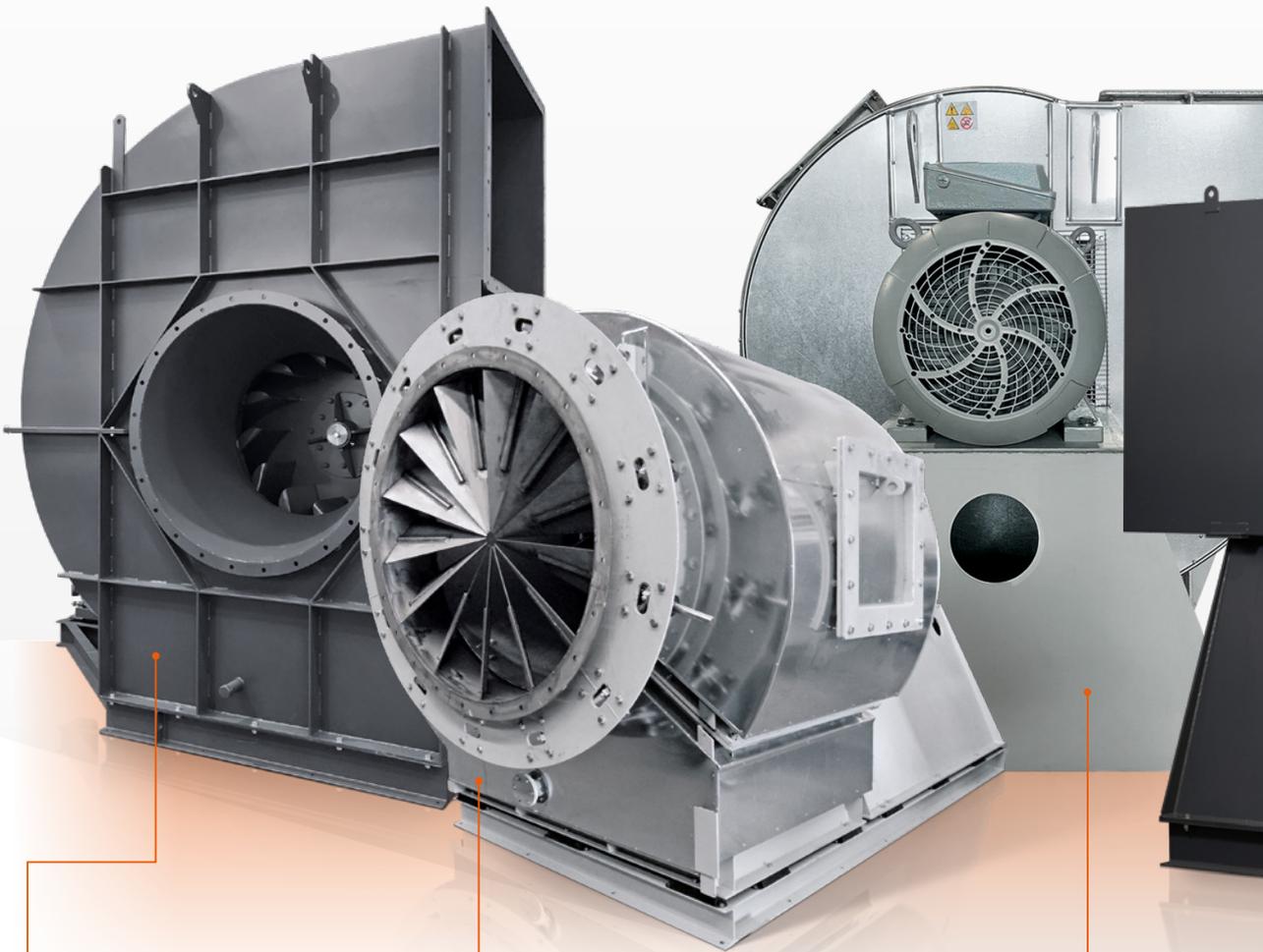


# Centrifugal fans

Centrifugal fans are used for different kinds of applications such as the transport of clean, dusty, corrosive, abrasive or high temperature air and gas.

Arivent is able to offer its customers the most suitable solution both for aerodynamic and mechanical aspects, manufacturing a wide range of fans.

The fans of the MCA series are used in medium-heavy industrial areas where the light construction allows for an attractive economic impact in sectors where this aspect is predominant.



## S series

Centrifugal fans with high efficiency backward curved blade impeller

## G series

Typically with backward flat blade impellers, backward curved blades and airfoil blades

## R series

Used for medium-high pressures, they have impellers with both flat and reverse curved blades



15

Series of fans



4

Types of impeller with a different shape and number of blades



23

Different diameters from 250 to 2500 mm with capacity up to 150 m<sup>3</sup>/sec and pressure up to 20 kPa



800°

Maximum operating temperature



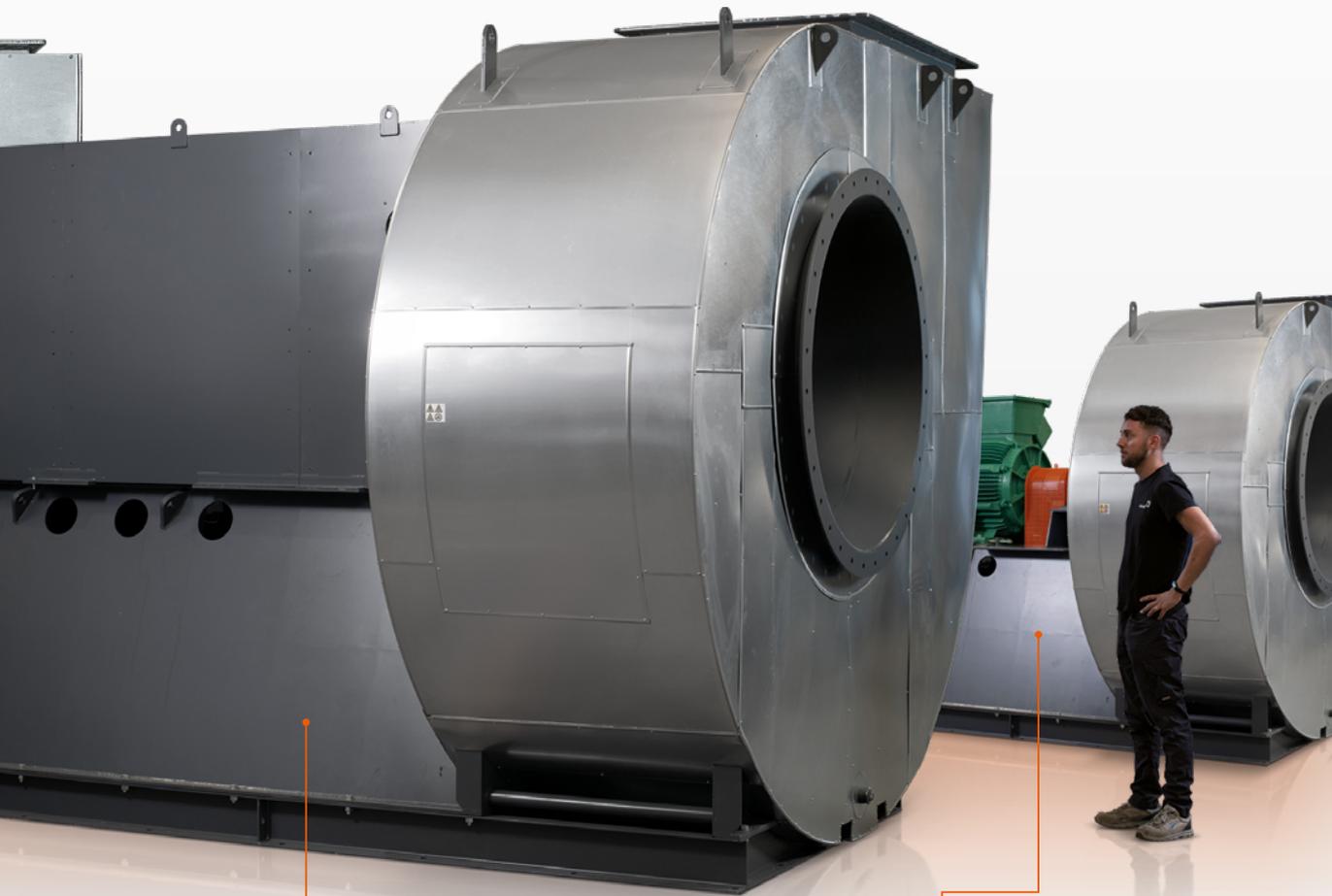
5

Types of arrangement single or double inlet, direct and drive-belt coupling



16

Discharge positions



## P series

Suitable for high pressures, it is also made in a multi-stage version and inside it has the possibility of using three different types of blade profile

## MCA series

Used in medium-heavy industrial fields



## Axial fans

In addition to a wide range of centrifugal fans, Arivent manufactures axial fans satisfying any performance requirements. The AC series are made with the impeller directly keyed onto the motor shaft, the AT series is built with belt transmission.



### AC series

With impeller directly coupled to the motor shaft



### AT series

With V-belt drive for high demanding applications

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sales network

**Arivent**  
FAN SOLUTIONS



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Andover Hampshire, UK

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& Germany**  
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