



Ventilation for industrial environments

in the JUST BREATHE



Introduction

Expert in ventilation solutions for critical environments

AIRVANCE Group is a leading designer and manufacturer of ventilation solutions for the most demanding and critical environments.

With 9 production facilities, 8 of which are located in France, the group develops innovative systems specifically adapted to the constraints of industry, hospital hygiene, and professional kitchens.

Our engineering teams design custom solutions that meet the strictest standards in air quality, safety, and energy efficiency.

Ranked among the top 5 European leaders in the ventilation sector, AIRVANCE Group deploys its expertise across several countries and generates nearly 45% of its turnover internationally. This global footprint allows us to support our clients on their most complex projects, wherever air management is a critical issue.



Mining, Oil and Gas



Chemical and Pharmaceutical



Maritime



Nuclear



Water & Wastewater treatment



Food

Our solutions

CENTRIFUGAL FANS

We offer centrifugal fans among our range of custom-made industrial fans for heavy-duty industry environments, where the air is polluted and very dusty, particularly in environments where the air is difficult to renew or even in ATEX explosive atmospheres.

Gamma® 3 Extraction of clean to slightly dusty air

Designed to extract clean air or slightly dusty air, this range of centrifugal fans is particularly suited to ventilating air in the "heavy duty" industry sector, such as industries using chemical, petroleum, steel and industrial machine.



AVAILABLE OPTIONS

- Galvanised steel construction
- Special voltage (415V/440V/460V...) & frequency (60Hz)



Gamma® 3 T

Centrifugal fan for high temperatures (+ 400°C)



Gamma® 3 IN

Centrifugal fan in stainless steel for corrosive environments

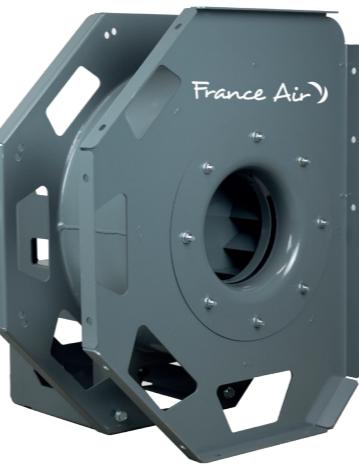


CIREX

Centrifugal fan for explosive atmospheres (ATEX / IECEx)

Omega® 3 BP Extraction of dusty air

Designed to ensure clean air extraction or extraction of air that is heavily loaded with dust. Suitable for ventilating air within industrial sectors and used in Chemical, Steel, Food or Pharmaceutical industries, where the air is heavily loaded with toxic fumes and even toxic residues.



Up to
120,000 m³/h

Backward-curved
blades



Up to
4,000 Pa

Painted steel



Between -20°C
and +80°C max

Class F, IP55, B35, 50Hz
400V three-phased

AVAILABLE OPTIONS

- ATEX/IECEx version
- Stainless steel construction

- High temperature version
- Reinforced sealing on casing

Omega® 3 HP Extraction of dusty air and high pressure

Designed to ensure extraction or blowing of very dusty air. The specific features of these fans lie in their low flow rate for dusty or toxic air that is absorbed and evacuated by the fan but at high pressure. These centrifugal fans are particularly suitable for air ventilation in Chemical, Steel, Food or Pharmaceutical industries.



Up to
35,000 m³/h



Up to
10,000 Pa



Between -20°C
and +80°C max.



Painted steel

Class F, IP55, B35, 50Hz
400V three-phased

AVAILABLE OPTIONS

- ATEX/IECEx version
- Stainless steel construction

- High temperature version
- Reinforced sealing on casing

SPECIALIZED CENTRIFUGAL VENTILATION IN CONTROLLED ENVIRONMENTS

We propose centrifugal ventilation systems specifically engineered for clean rooms and industrial laboratories where conventional systems would rapidly deteriorate. Constructed from high-grade polypropylene, they resist chemical attack while safely extracting potentially harmful substances in pharmaceutical, chemical, food processing, and research facilities. Their robust design ensures reliable operation in demanding conditions, with ATEX certification available for environments with explosion risks.

Ibiza® / Ibiza® ATEX

Versatile polypropylene centrifugal fan system for corrosive environments, offering six sizes, multiple mounting options, and ATEX certification. Perfect for larger clean rooms, laboratories, and chemical plants requiring significant extraction capabilities with corrosion resistance.



	Up to 15,000 m³/h
	Up to 1,400 Pa
	Between -15°C and +70°C max.
	Polypropylene
	Class F, IP55, B34, 50/60Hz 230V single-phased or 400V three-phased

Ibiza® ECM

Ibiza ECM integrates energy-efficient electronically commutated motor technology with corrosion-resistant polypropylene construction, delivering airflows up to 8,000 m³/h while significantly reducing energy consumption. This advanced system offers precise speed control and optimized performance for applications requiring both chemical resistance and energy efficiency. Particularly suited for research laboratories, pharmaceutical facilities, and clean rooms with continuous operation requirements.



	Up to 8,000 m³/h
	Up to 1,300 Pa
	Between -15°C and +60°C max.
	Polypropylene
	Class F, IP55, 50Hz 230V single-phased or 400V three-phased EC motor

Ibiza® RV / Ibiza® RV ATEX

Specialized vertical-discharge roof ventilator constructed from UV-resistant polypropylene for corrosive environments. Available with ATEX certification (CE Ex II 3G IIC T4) for explosive atmospheres, it provides effective extraction while optimizing space through its rooftop installation design, ideal for laboratories and industrial facilities with limited interior space.



	Up to 3,500 m³/h
	Up to 1,600 Pa
	Between -15°C and +60°C max.
	Polypropylene
	Class F, IP55, B34, 50/60Hz 230V single-phased or 400V three-phased

Ibiza® RV ECM

Energy-efficient version of the Ibiza RV, featuring electronically commutated motor technology that significantly reduces power consumption. Constructed from food-grade polypropylene with integrated controller, it delivers substantial operational cost savings for continuous extraction applications in corrosive environments, perfect for research facilities and industrial laboratories focused on sustainability.



	Up to 4,000 m³/h
	Up to 800 Pa
	Between -15°C and +60°C max.
	Polypropylene
	Class F, IP55, B34, 50/60Hz 230V single-phased EC motor

Typhon / Typhon ATEX

Compact, high-pressure centrifugal ventilator in food-grade polypropylene for highly corrosive environments. Features one-piece rotomolded housing and ATEX certification option (CE Ex II 3G IIC T4) for explosive atmospheres. Ideal for laboratory fume hoods, chemical processing, and pharmaceutical applications requiring superior chemical resistance.



	Up to 2,900 m³/h
	Up to 3,200 Pa
	+60°C max.
	Polypropylene
	Class F, IP55, B34, 50/60Hz 230V single-phased or 400V three-phased

AXIAL FANS

Our axial fans are designed for robust industrial environments, capable of extracting or blowing clean, gaseous, or slightly dusty air from any indoor space. Their unique propeller design ensures optimal performance and effective pressure to evacuate fumes, toxic vapors, or moist air. These fans can be directly mounted onto a wall or connected to a network of shafts, offering versatile installation options. With ISO 9001 and ATEX certifications, our fans guarantee reliability and safety for your industrial applications.

Wall mounted axial fan

These axial fans are designed to ensure the extraction or insufflation of gas, clean air or little dusty. Usually mounted in crossing the wall, they provide significant flows with a small footprint.



Up to 8,000 m³/h



Painted or Galvanised steel



Between -20°C and +40°C max.



Composite antistatic or aluminum alloy propeller



Class F, IP55, B35 or B14, 50Hz 400V three-phased

AVAILABLE OPTIONS

- ↗ Galvanised steel construction
- ↗ ATEX/IECEx version
- ↗ Special voltage (415V/440V/460V...) & frequency (60Hz)

Axalu® ECM

These low consumption axial fans are designed to ensure the extraction or insufflation of gas, clean air or little dusty. These can be mounted on short or long housing, and be connected to a network of ducts, or attached to a wall for a direct operation.



Up to 38,000 m³/h



Galvanised steel



Between -20°C and +40°C max.



Composite antistatic or aluminum alloy propeller



Class F, IP55, B3, 50Hz 400V three-phased EC motor

AVAILABLE OPTIONS

- ↗ Stainless steel construction

Axalu® AC

Robust and highly efficient axial fan designed for industrial ventilation applications. It is particularly well-suited for smoke extraction and ventilation in tall buildings, public establishments, parking garages, and various technical premises. These can be mounted on short or long housing.



Up to 80,000 m³/h



Composite antistatic or aluminum alloy propeller



ATEX/IECEx version



Two smoke extraction versions available F200-120 or F400-120



Galvanised steel



Between -20°C and +40°C max.



Class H, IP54, B3, 50Hz 400V three-phased

AVAILABLE OPTIONS

- ↗ Stainless steel construction
- ↗ ATEX/IECEx version
- ↗ Special voltage (415V/440V/460V...) & frequency (60Hz)

Axalia®

Axial turrets for the supply and extraction of clean or slightly dusty air in warehouses, workshops, foundries, and other large buildings. Their high airflow rates allow for a reduction in the number of roof penetrations, simplifying installation and maintenance.



Up to 80,000 m³/h



Galvanised steel



Between -20°C and +40°C max.



Composite antistatic or aluminum alloy propeller



Class F, IP55, B3, 50Hz 400V three-phased

AVAILABLE OPTIONS

- ↗ Stainless steel construction
- ↗ ATEX/IECEx version
- ↗ High temperature version

ROOF FANS

Due to their robust design and capacity to evacuate large volumes of air and smoke, our roof fans are crucial equipment for industrial applications.

Simoun®

Versatile F400-120 centrifugal roof fan designed for both ventilation and smoke extraction. It is certified for use in industrial applications, professional kitchens, residential buildings, and other high-rise structures. The unit offers a wide airflow range of 300 to 34,000 m³/h and is built with robust galvanized steel and a thermoformed ABS cover.



Up to 34,000m³/h
Galvanized steel backward-curved blades

ABS & Galvanised steel
F400-120

Between -30°C and +80°C max.
Class F, IP55, 50Hz 230V single-phased or 400V three-phased

Simoun® ECM

Energy-efficient centrifugal roof fan for both comfort ventilation and smoke extraction, approved to F400-120 standards. Its ECM motor provides low energy consumption and a wide airflow range of 300 to 28,000 m³/h.



Up to 28,000m³/h
Galvanized steel backward-curved blades

ABS & Galvanised steel
F400-120

Between -30°C and +80°C max.
EC motor, 50Hz 230V single-phased or 400V three-phased

Xeta

Centrifugal roof fan specifically designed for air extraction in explosive atmospheres (ATEX/IECEx zones 1 and 2).



Up to 40,000 m³/h
Galvanized steel backward-curved blades

Up to 1,000 Pa
Between -20°C and +80°C max.

Galvanised steel
EC motor, 50Hz 230V single-phased or 400V three-phased

CENTRIFUGAL SMOKE EXTRACTION FANS

Our range of centrifugal smoke extraction fans are engineered for performance and reliability in industrial environments. They are specifically designed to handle the demanding requirements of smoke extraction and ventilation.

Defumair® AC

Robust F400-120 centrifugal smoke extraction fan, perfect for industrial environments and professional kitchens. It's designed for high airflow, reaching up to 65,000 m³/h, and can be easily disassembled for installation in confined spaces. The unit's galvanized steel casing and optional C3 anti-corrosion paint make it an ideal choice for urban, industrial, and coastal areas with moderate pollution.



Up to 65,000m³/h



Galvanized steel backward-curved blades



Galvanised steel



Between -20°C and +80°C max.



Class F, IP55, 50Hz 400V three-phased

AVAILABLE OPTIONS

- Stainless steel construction
- C3 corrosion painting

Defumair® ECM

High-performance, energy-efficient centrifugal smoke extraction fan certified to F400-120 standards for industrial and professional kitchen applications. Its ECM motor ensures low energy consumption while delivering a wide range of airflow up to 18,000 m³/h.



Up to 18,000m³/h



Galvanized steel backward-curved blades



Galvanised steel



Between -20°C and +80°C max.



EC motor, IP54, 50Hz 230V single-phased or 400V three-phase

AVAILABLE OPTIONS

- Stainless steel construction
- C3 corrosion painting

Our French Manufacturing Expertise

As a leading French manufacturer of industrial fans since 1969, we combine decades of experience with a commitment to quality and performance. Our in-house design office uses advanced 3D CAD software, allowing us to engineer customized solutions that meet your exact specifications. We ensure the highest standards from concept to delivery.

Tailored Solutions for Extreme Environments

We specialize in creating industrial fans for the most demanding industries. Our expertise includes designing for:

- The nuclear sector, with strict requirements for welding, sealing, and decontaminable paint.
- Marine and offshore applications, guaranteeing mechanical strength and shock resistance.
- Customized Power Solutions, with factory-configured for regional power specifications with multi-voltage capability (415V/440V/460V) and 60Hz frequency options
- Petrochemical and ATEX/IECEx environments, ensuring safety in explosive atmospheres.

Uncompromising Quality and Certification

Our dedication to quality is backed by rigorous internal testing, including acoustic and airtightness trials. We verify air performance on our state-of-the-art test benches in accordance with ISO standards. All our products are certified to meet stringent international standards, including ATEX, IECEx, and ISO 9001:2015, guaranteeing reliability and safety for your operations.



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